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October 11, 2006

06-ATL-151



Ms. J. H. Kessner  
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3070 George Washington Way  
Richland, Washington 99354

Dear Ms. Kessner:

FINAL REPORT FOR THE 618-2 SAFE SAMPLES RECEIVED IN SEPTEMBER 2006 –  
SAMPLE GROUP 222S20060954

Enclosed is the final analytical report for the three samples collected from the 300-FF-2  
618-2 Safe site between June 14, 2006 and July 28, 2006, in accordance with SAF number  
RC-036, and received at the 222-S Laboratory on September 12, 2006.

If you have any questions regarding this report, please call me at 373-4314.

Sincerely,

*Ruth A. Bushaw* for RA Bushaw

Ruth A. Bushaw  
Project Coordinator

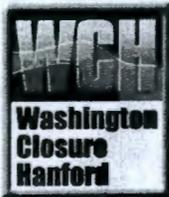
Enclosure

**FINAL REPORT FOR THE 618-2 SAFE  
SAMPLES RECEIVED IN SEPTEMBER 2006 –  
SAMPLE GROUP 222S20060954**

**Ruth A. Bushaw**  
Advanced Technologies and Laboratories International, Inc.

**Date Published**  
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Prepared for:



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**222-S LABORATORY**  
**FINAL REPORT FOR THE 618-2 SAFE SAMPLES**  
**RECEIVED IN SEPTEMBER 2006 – SAMPLE GROUP 222S20060954**

### 1.0 INTRODUCTION

Three samples from the 300-FF-2 618-2 Safe were received at the 222-S Laboratory on September 12, 2006. The samples were analyzed in accordance with the special instructions on the chain of custody, Washington Closure Hanford Work Order AT6001 (Work Order), ATL-MP-1011, *ATL Quality Assurance Project Plan for 222-S Laboratory*, and verbal and electronic communication with the customer point of contact.

A Data Summary Report is included as Attachment 1. This attachment contains the analytes listed in Section 21.0 of the Work Order.  $^{228}\text{Ra}$  has been reported through its daughter  $^{228}\text{Ac}$  assuming isotopic decay equilibrium. Attachment 2 contains a table with the analysis date and time for each method. The correlation between the customer sample identification numbers and laboratory identification numbers is presented in the Sample Breakdown Diagrams included as Attachment 3. Results for other detected nonrequested analytes are included in the Opportunistic Analyte Results table in Attachment 4. Copies of the receipt paperwork are included as Attachment 5. Attachment 6 contains the signature page.

### 2.0 SAMPLE APPEARANCE AND HANDLING

Three samples were received from the 618-2 Safe. Each sample was contained in a 1-L plastic bottle that was only partially full. Sampling, receipt, and appearance information for the samples are presented in Table 1. The volumes listed in the sample description column are estimates based on visual examination of the samples.

**Table 1. Receipt and Appearance Information.**

Sample ID	Date/Time Sampled	Date/Time Received	Sample Description
J12XB1	6/14/06 0900	9/12/06 1410	Approximately 300 mL opaque brown/gray liquid with a trace of black solids that were easily suspended.
J12XB2	6/14/06 0930	9/12/06 1410	Approximately 400 mL opaque brown/gray liquid with a trace of black solids that were easily suspended.
J12Y18	7/28/06 0600	9/12/06 1410	Approximately 50 mL opaque green liquid with a trace of settled solids.

Since the samples had only a trace amount of solids that were easily suspended, they were shaken to ensure that all solids were suspended and representative 5-mL portions were removed for acid digestion prior to the inductively coupled plasma spectroscopy (ICP) and gamma energy

analysis (GEA). The mercury analysis procedure contains digestion as part of the analysis, so the preparation and analysis were performed on 1-mL portions of the samples after solids were suspended. The pH was performed on direct sample after solids were suspended.

When nitric acid was added to the samples at the start of the acid digestion, samples J12XB1 (S06M001078) and J12XB2 (S06M001079) became clear brown liquids, indicating that the solids had dissolved.

For sample J12Y18 (S06M001080), the liquid became a clear green color when the nitric acid was added, but white solids precipitated after a few minutes. These solids did not dissolve during the digestion and were filtered off. The pH of the digested sample was checked with a pH indicator strip, which indicated a pH <2. After the digested sample sat over night, more white solids precipitated. These solids were allowed to settle and were not included in the subsequent analyses.

### 3.0 ANALYTICAL RESULTS

The Data Summary Report in Attachment 1 presents the results for the requested analytes. In addition, results for other detected nonrequested analytes are included in Attachment 4 as "opportunistic" analytes. Since these were not requested, the quality of the results was not evaluated and the results are not discussed in this narrative.

In Attachments 1 and 4, the column labeled "A#" indicates the aliquot class or the method used for sample preparation before analysis. The "B" indicates an acid digestion of a liquid sample. The mercury analysis does not have an aliquot class because the sample preparation is performed as a part of the procedure steps. The pH does not have an aliquot class because there is no preparation prior to analysis.

The "Qual Flags" column contains data qualifier flags that are defined as follows:

- a. "J" indicates that the reported result should be considered an estimate because of increased uncertainty near the detection limit.
  1. For the ICP and mercury analyses, the "J" flag is applied to sample results that are less than 10 times the detection limit.
  2. For radiochemical methods, the "J" flag is applied to sample results when the Count Err % is greater than 30%.
- b. "U" indicates that the reported result is less than the calculated detection limit.

### 3.1 HOLDING TIMES

Due to delays between collection and delivery of samples, the customer point of contact gave verbal guidance that the laboratory was not required to meet holding times.

## 3.2 QUALITY CONTROL RESULTS

### 3.2.1 Laboratory Control Samples

The accuracy of the analyses was evaluated from the recovery of a laboratory control sample (LCS). For the GEA,  $^{60}\text{Co}$  and  $^{137}\text{Cs}$  are the only isotopes present in the LCS. All LCS recoveries were acceptable in accordance with the Work Order and ATL-MP-1011.

### 3.2.2 Method and Preparation Blanks

No analytes were detected in the method or preparation blanks.

### 3.2.3 Duplicate Analysis

The Work Order requested a precision of <30% RPD. As stated in ATL-MP-1011, the RPD criterion is not applicable if the sample results are less than 10 times the detection limit for inorganic analyses or if the counting uncertainty for radionuclide analyses is >15%. The criterion is also not applicable if the sample results are less than the detection limit. All sample results met these conditions.

### 3.2.4 Matrix Spike

One spiked sample was analyzed in each analytical batch for the ICP and mercury analyses. For the GEA analysis, there typically is no significant interference from the matrix, so a spiked sample is not analyzed. The spike recoveries all met the accuracy requirements.

## 3.3 DETECTION LIMITS

The Work Order provided target quantitation limits (TQL) for all required analytes. However, only liquid units were given for the metals and only solid units were given for the GEA analytes. The customer point of contact provided verbal guidance to use the same TQL value for both solid and liquid analyses for the GEA.

The reported detection limits for GEA and mercury were less than the requested TQLs. For the ICP analysis, all of the reported detection limits for samples J12XB1 and J12XB2 were less than the requested TQL except for arsenic and selenium. For arsenic and selenium, the reported detection limits were only slightly above the requested TQLs due to a required dilution of the sample during the acid digestion. No arsenic or selenium was detected in either of these samples.

For sample J12Y18, an additional tenfold dilution of the sample in addition to the tenfold acid digest dilution was necessary for the ICP analysis due to the high concentrations of some of the analytes in the sample. This additional dilution generated detection limits that were well above the TQLs. No additional dilution was required for the GEA or mercury analyses for this sample, so the reported detection limits are less than the TQL.

The customer gave verbal concurrence that a reanalysis to lower the detection limits was not necessary.

#### 4.0 ANALYTICAL PROCEDURES

Table 2 presents the 222-S Laboratory analytical procedures.

**Table 2. Analytical Procedures.**

Analysis	Preparation Procedure	Analysis Procedure
<b>Inorganic</b>		
pH	Direct	LA-212-106 Rev. F-0
Mercury	Direct	LA-325-106 Rev. D-1
ICP	Acid digest	LA-505-161 Rev. F-0
<b>Radionuclide</b>		
GEA	Acid digest	LA-548-121 Rev. G-0

**Notes:**

Acid digest liquid procedure: LA-505-158 Rev. H-0

#### 5.0 REFERENCES

ATL-MP-1011, 2006, *ATL Quality Assurance Project Plan for 222-S Laboratory*, Revision 5, Advanced Technologies and Laboratories International, Inc., Richland, Washington.

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Attachment 1

DATA SUMMARY REPORT

**Attachment 1  
618-2-SAFE-2  
Data Summary Report**

**Core Number: 222S20060954  
Customer Sample ID: J12XB1  
Sample Portion: Acid Digest**

Sample#	A	Analyte	Unit	Standard%	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err %	Qual Flag
S06M001078	B	Actinium-228	uCi/mL	n/a	<3.01E-06	<3.23E-05		n/a	n/a	n/a	3.23E-05	n/a	U
S06M001078	B	Antimony-125	uCi/mL	n/a	<2.01E-06	<2.13E-05	<3.99E-05	n/a	n/a	n/a	2.13E-05	n/a	U
S06M001078	B	Cesium-134	uCi/mL	n/a	<8.18E-07	<8.09E-06	<1.95E-05	n/a	n/a	n/a	8.09E-06	n/a	U
S06M001078	B	Cesium-137	uCi/mL	105	<1.07E-06	<1.08E-05	<2.05E-05	n/a	n/a	n/a	1.08E-05	n/a	U
S06M001078	B	Cobalt-60	uCi/mL	103	<8.58E-07	<8.64E-06	<1.61E-05	n/a	n/a	n/a	8.64E-06	n/a	U
S06M001078	B	Europium-152	uCi/mL	n/a	<3.57E-06	<4.14E-05	<7.93E-05	n/a	n/a	n/a	4.14E-05	n/a	U
S06M001078	B	Europium-154	uCi/mL	n/a	<2.67E-06	<2.71E-05	<4.53E-05	n/a	n/a	n/a	2.71E-05	n/a	U
S06M001078	B	Europium-155	uCi/mL	n/a	<1.28E-06	<1.87E-05	<3.31E-05	n/a	n/a	n/a	1.87E-05	n/a	U
S06M001078	B	Radium-226	uCi/mL	n/a	<1.23E-05	<1.46E-04	<2.82E-04	n/a	n/a	n/a	1.46E-04	n/a	U
S06M001078	B	Arsenic	ug/mL	101	<0.0590	<0.590	<0.590	n/a	n/a	96.3	0.590	n/a	U
S06M001078	B	Barium	ug/mL	104	<7.00E-03	1.74	1.76	1.75	1.38	96.5	0.0700	n/a	
S06M001078	B	Cadmium	ug/mL	100	<3.00E-03	<0.0300	<0.0300	n/a	n/a	94.4	0.0300	n/a	U
S06M001078	B	Chromium	ug/mL	103	<0.0140	3.10	3.16	3.13	1.80	96.9	0.140	n/a	
S06M001078	B	Lead	ug/mL	94.7	<0.0360	2.28	2.14	2.21	6.25	87.2	0.360	n/a	J
S06M001078	B	Selenium	ug/mL	97.1	<0.0640	<0.640	<0.640	n/a	n/a	96.9	0.640	n/a	U
S06M001078	B	Silver	ug/mL	88.4	<4.00E-03	<0.0400	<0.0400	n/a	n/a	83.0	0.0400	n/a	U

**Sample Portion: Parent**

Sample#	A	Analyte	Unit	Standard%	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err %	Qual Flag
S06M001074		Mercury	ug/mL	103	<1.00E-04	3.10	2.93	3.02	5.77	81.0	0.120	n/a	
S06M001074		pH	pH	n/a	n/a	1.37	1.37	1.37	n/a	n/a	0.0100	n/a	

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**Attachment 1  
618-2-SAFE-2  
Data Summary Report**

**Core Number: 222S20060954  
Customer Sample ID: J12XB2  
Sample Portion: Acid Digest**

Sample#	A	Analyte	Unit	Standard%	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err %	Qual Flag
S06M001079	B	Actinium-228	uCi/mL	n/a	<3.01E-06	<3.26E-05	n/a	n/a	n/a	n/a	3.26E-05	n/a	U
S06M001079	B	Antimony-125	uCi/mL	n/a	<2.01E-06	<2.05E-05	n/a	n/a	n/a	n/a	2.05E-05	n/a	U
S06M001079	B	Cesium-134	uCi/mL	n/a	<8.18E-07	<8.45E-06	n/a	n/a	n/a	n/a	8.45E-06	n/a	U
S06M001079	B	Cesium-137	uCi/mL	105	<1.07E-06	1.54E-05	n/a	n/a	n/a	n/a	1.21E-05	49.91	J
S06M001079	B	Cobalt-60	uCi/mL	103	<8.58E-07	<7.48E-06	n/a	n/a	n/a	n/a	7.48E-06	n/a	U
S06M001079	B	Europium-152	uCi/mL	n/a	<3.57E-06	<3.97E-05	n/a	n/a	n/a	n/a	3.97E-05	n/a	U
S06M001079	B	Europium-154	uCi/mL	n/a	<2.67E-06	<2.58E-05	n/a	n/a	n/a	n/a	2.58E-05	n/a	U
S06M001079	B	Europium-155	uCi/mL	n/a	<1.28E-06	<1.90E-05	n/a	n/a	n/a	n/a	1.90E-05	n/a	U
S06M001079	B	Radium-226	uCi/mL	n/a	<1.23E-05	<9.61E-05	n/a	n/a	n/a	n/a	9.61E-05	n/a	U
S06M001079	B	Arsenic	ug/mL	101	<0.0590	<0.590	n/a	n/a	n/a	n/a	0.590	n/a	U
S06M001079	B	Barium	ug/mL	104	<7.00E-03	10.5	n/a	n/a	n/a	n/a	0.0700	n/a	
S06M001079	B	Cadmium	ug/mL	100	<3.00E-03	<0.0300	n/a	n/a	n/a	n/a	0.0300	n/a	U
S06M001079	B	Chromium	ug/mL	103	<0.0140	3.66	n/a	n/a	n/a	n/a	0.140	n/a	
S06M001079	B	Lead	ug/mL	94.7	<0.0360	1.12	n/a	n/a	n/a	n/a	0.360	n/a	J
S06M001079	B	Selenium	ug/mL	97.1	<0.0640	<0.640	n/a	n/a	n/a	n/a	0.640	n/a	U
S06M001079	B	Silver	ug/mL	88.4	<4.00E-03	<0.0400	n/a	n/a	n/a	n/a	0.0400	n/a	U

**Sample Portion: Parent**

Sample#	A	Analyte	Unit	Standard%	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err %	Qual Flag
S06M001075		Mercury	ug/mL	103	<1.00E-04	0.212	n/a	n/a	n/a	n/a	2.00E-03	n/a	
S06M001075		pH	pH	n/a	n/a	1.07	n/a	n/a	n/a	n/a	0.0100	n/a	

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Attachment 1  
618-2-SAFE-2  
Data Summary Report

Core Number: 222S20060954  
Customer Sample ID: J12Y18  
Sample Portion: Acid Digest

Sample#	A	Analyte	Unit	Standard%	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err %	Qual Flag
S06M001080	B	Actinium-228	uCi/mL	n/a	<3.01E-06	<3.44E-05	n/a	n/a	n/a	n/a	3.44E-05	n/a	U
S06M001080	B	Antimony-125	uCi/mL	n/a	<2.01E-06	<2.40E-05	n/a	n/a	n/a	n/a	2.40E-05	n/a	U
S06M001080	B	Cesium-134	uCi/mL	n/a	<8.18E-07	<8.37E-06	n/a	n/a	n/a	n/a	8.37E-06	n/a	U
S06M001080	B	Cesium-137	uCi/mL	105	<1.07E-06	<1.12E-05	n/a	n/a	n/a	n/a	1.12E-05	n/a	U
S06M001080	B	Cobalt-60	uCi/mL	103	<8.58E-07	<8.48E-06	n/a	n/a	n/a	n/a	8.48E-06	n/a	U
S06M001080	B	Europium-152	uCi/mL	n/a	<3.57E-06	<3.88E-05	n/a	n/a	n/a	n/a	3.88E-05	n/a	U
S06M001080	B	Europium-154	uCi/mL	n/a	<2.67E-06	<3.39E-05	n/a	n/a	n/a	n/a	3.39E-05	n/a	U
S06M001080	B	Europium-155	uCi/mL	n/a	<1.28E-06	<3.69E-05	n/a	n/a	n/a	n/a	3.69E-05	n/a	U
S06M001080	B	Radium-226	uCi/mL	n/a	<1.23E-05	<1.44E-04	n/a	n/a	n/a	n/a	1.44E-04	n/a	U
S06M001080	B	Arsenic	ug/mL	101	<0.0590	18.1	n/a	n/a	n/a	n/a	5.90	n/a	J
S06M001080	B	Barium	ug/mL	104	<7.00E-03	630	n/a	n/a	n/a	n/a	0.700	n/a	
S06M001080	B	Cadmium	ug/mL	100	<3.00E-03	<0.300	n/a	n/a	n/a	n/a	0.300	n/a	U
S06M001080	B	Chromium	ug/mL	103	<0.0140	<1.40	n/a	n/a	n/a	n/a	1.40	n/a	U
S06M001080	B	Lead	ug/mL	94.7	<0.0360	<3.60	n/a	n/a	n/a	n/a	3.60	n/a	U
S06M001080	B	Selenium	ug/mL	97.1	<0.0640	<6.40	n/a	n/a	n/a	n/a	6.40	n/a	U
S06M001080	B	Silver	ug/mL	88.4	<4.00E-03	<0.400	n/a	n/a	n/a	n/a	0.400	n/a	U

Sample Portion: Parent

Sample#	A	Analyte	Unit	Standard%	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err %	Qual Flag
S06M001076		Mercury	ug/mL	103	<1.00E-04	4.30E-03	n/a	n/a	n/a	n/a	2.00E-03	n/a	J
S06M001076		pH	pH	n/a	n/a	1.52	n/a	n/a	n/a	n/a	0.0100	n/a	

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Attachment 2

ANALYSIS DATE AND TIME REPORT

**Attachment 2. Analysis Date and Time**

Customer ID	Sample Portion	Sample #	Method	Analysis Date/Time	Preparation Date
J12XB1	Liquid	S06M001074	pH	9/21/2006 13:57	n/a
J12XB1	Liquid	S06M001074	HG	9/26/2009 9:53	9/26/2006
J12XB1	Liquid	S06M001078	GEA	9/21/2006 23:22	9/20/2006
J12XB1	Liquid	S06M001078	ICP-RCRA METALS	9/25/2006 13:29	9/20/2006
J12XB2	Liquid	S06M001075	pH	9/21/2006 13:57	n/a
J12XB2	Liquid	S06M001075	HG	9/26/2009 9:56	9/26/2006
J12XB2	Liquid	S06M001079	GEA	9/22/2006 2:22	9/20/2006
J12XB2	Liquid	S06M001079	ICP-RCRA METALS	9/25/2006 13:59	9/20/2006
J12Y18	Liquid	S06M001076	pH	9/21/2006 13:57	n/a
J12Y18	Liquid	S06M001076	HG	9/26/2009 9:57	9/26/2006
J12Y18	Liquid	S06M001080	GEA	9/22/2006 7:45	9/20/2006
J12Y18	Liquid	S06M001080	ICP-RCRA METALS	9/25/2006 14:40	9/20/2006

**Note:** The analysis time for pH is the time the last sample in the batch was analyzed.

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Attachment 3

**SAMPLE BREAKDOWN DIAGRAM**

618-2 SAFE2  
 Samples from 300 Area Safe  
 Group 222S20060954

J12XB1

(cool 4°C)



S06M001074

HG  
pH



S06M001078

ICP: As, Ba, Cd,  
 Cr, Pb, Se, Ag  
 GEA: <sup>125</sup>Sb, <sup>134</sup>Cs,  
<sup>137</sup>Cs, <sup>60</sup>Co, <sup>152</sup>Eu,  
<sup>154</sup>Eu, <sup>155</sup>Eu, <sup>226</sup>Ra,  
<sup>228</sup>Ra

J12XB2

(cool 4°C)



S06M001075

HG  
pH

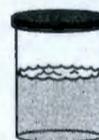


S06M001079

ICP: As, Ba, Cd,  
 Cr, Pb, Se, Ag  
 GEA: <sup>125</sup>Sb, <sup>134</sup>Cs,  
<sup>137</sup>Cs, <sup>60</sup>Co, <sup>152</sup>Eu,  
<sup>154</sup>Eu, <sup>155</sup>Eu, <sup>226</sup>Ra,  
<sup>228</sup>Ra

J12Y18

(cool 4°C)



S06M001076

HG  
pH



S06M001080

ICP: As, Ba, Cd,  
 Cr, Pb, Se, Ag  
 GEA: <sup>125</sup>Sb, <sup>134</sup>Cs,  
<sup>137</sup>Cs, <sup>60</sup>Co, <sup>152</sup>Eu,  
<sup>154</sup>Eu, <sup>155</sup>Eu, <sup>226</sup>Ra,  
<sup>228</sup>Ra

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Attachment 4

**OPPORTUNISTIC ANALYTE RESULTS**

**Attachment 4  
618-2-SAFE-2  
Data Summary Report**

**Core Number: 222S20060954  
Customer Sample ID: J12XB1  
Sample Portion: Acid Digest**

Sample#	A	Analyte	Unit	Standard%	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err %	Qual Flag
S06M001078	B	Americium-241	uCi/mL	n/a	<7.41E-07	1.04E-03	1.10E-03	1.07E-03	5.32	n/a	1.62E-05	5.53	
S06M001078	B	Plutonium-239	uCi/mL	n/a	<3.96E-03	1.03	1.08	1.05	4.46	n/a	0.0490	5.01	
S06M001078	B	Uranium-235	uCi/mL	n/a	<7.43E-07	<8.87E-06	<1.71E-05	n/a	n/a	n/a	8.87E-06	n/a	U
S06M001078	B	Aluminium	ug/mL	94.5	<0.0270	42.6	42.9	42.7	0.698	89.1	0.270	n/a	
S06M001078	B	Antimony	ug/mL	101	<0.0280	<0.280	<0.280	n/a	n/a	94.2	0.280	n/a	U
S06M001078	B	Beryllium	ug/mL	111	<1.20E-03	<0.0120	<0.0120	n/a	n/a	105	0.0120	n/a	U
S06M001078	B	Bismuth	ug/mL	96.4	<0.102	<1.02	<1.02	n/a	n/a	91.1	1.02	n/a	U
S06M001078	B	Boron	ug/mL	97.6	<0.0180	1.83	1.84	1.84	0.637	93.7	0.180	n/a	
S06M001078	B	Calcium	ug/mL	108	<0.0800	25.0	25.1	25.0	0.428	102	0.800	n/a	
S06M001078	B	Cerium	ug/mL	105	<0.0150	<0.150	<0.150	n/a	n/a	98.3	0.150	n/a	U
S06M001078	B	Cobalt	ug/mL	101	<8.00E-03	<0.0800	<0.0800	n/a	n/a	94.9	0.0800	n/a	U
S06M001078	B	Copper	ug/mL	101	<0.0140	0.337	0.338	0.337	0.237	96.2	0.140	n/a	J
S06M001078	B	Europium	ug/mL	100	<1.00E-03	0.0417	0.0448	0.0432	7.17	94.0	0.0100	n/a	J
S06M001078	B	Iron	ug/mL	102	<0.0130	115	116	116	0.854	93.3	0.130	n/a	
S06M001078	B	Lanthanum	ug/mL	105	<8.00E-03	<0.0800	<0.0800	n/a	n/a	97.8	0.0800	n/a	U
S06M001078	B	Magnesium	ug/mL	99.2	<0.0150	9.28	9.27	9.27	0.141	92.8	0.150	n/a	
S06M001078	B	Manganese	ug/mL	101	<7.00E-03	2.39	2.41	2.40	0.864	95.0	0.0700	n/a	
S06M001078	B	Molybdenum	ug/mL	103	<3.00E-03	0.0973	0.0965	0.0969	0.826	97.0	0.0300	n/a	J
S06M001078	B	Neodymium	ug/mL	96.4	<8.00E-03	<0.0800	<0.0800	n/a	n/a	90.9	0.0800	n/a	U
S06M001078	B	Nickel	ug/mL	100	<0.0220	1.33	1.31	1.32	1.41	94.7	0.220	n/a	J
S06M001078	B	Phosphorus	ug/mL	101	<0.0430	1.87	2.05	1.96	9.31	96.4	0.430	n/a	J
S06M001078	B	Samarium	ug/mL	102	<0.0170	<0.170	<0.170	n/a	0.0	96.1	0.170	n/a	U
S06M001078	B	Silicon	ug/mL	97.9	<0.0460	28.9	29.3	29.1	1.46	94.7	0.460	n/a	
S06M001078	B	Sodium	ug/mL	107	<0.0420	59.7	60.5	60.1	1.24	93.6	0.420	n/a	
S06M001078	B	Strontium	ug/mL	104	<7.00E-03	1.46	1.48	1.47	1.31	97.2	0.0700	n/a	
S06M001078	B	Sulfur	ug/mL	95.9	<0.0580	169	169	169	0.192	94.3	0.580	n/a	
S06M001078	B	Thorium	ug/mL	94.4	<9.00E-03	0.884	0.916	0.900	3.60	89.0	0.0900	n/a	J
S06M001078	B	Titanium	ug/mL	102	<2.00E-03	0.372	0.386	0.379	3.61	96.7	0.0200	n/a	
S06M001078	B	Uranium	ug/mL	107	<0.0310	120	123	121	1.77	96.1	0.310	n/a	
S06M001078	B	Yttrium	ug/mL	99.7	<0.0110	<0.110	<0.110	n/a	n/a	94.1	0.110	n/a	U
S06M001078	B	Zinc	ug/mL	96.9	<4.00E-03	170	171	171	0.411	95.8	0.0400	n/a	
S06M001078	B	Zirconium	ug/mL	100	<2.00E-03	<0.0200	<0.0200	n/a	0.0	94.2	0.0200	n/a	U

**Attachment 4  
618-2-SAFE-2  
Data Summary Report**

**Core Number: 222S20060954  
Customer Sample ID: J12XB2  
Sample Portion: Acid Digest**

Sample#	A	Analyte	Unit	Standard%	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err %	Qual Flag
S06M001079	B	Americium-241	uCi/mL	n/a	<7.41E-07	0.0109	n/a	n/a	n/a	n/a	6.67E-05	5.30	
S06M001079	B	Plutonium-239	uCi/mL	n/a	<3.96E-03	1.01	n/a	n/a	n/a	n/a	0.0478	4.86	
S06M001079	B	Uranium-235	uCi/mL	n/a	<7.43E-07	<5.84E-06	n/a	n/a	n/a	n/a	5.84E-06	n/a	U
S06M001079	B	Aluminium	ug/mL	94.5	<0.0270	20.9	n/a	n/a	n/a	n/a	0.270	n/a	
S06M001079	B	Antimony	ug/mL	101	<0.0280	<0.280	n/a	n/a	n/a	n/a	0.280	n/a	U
S06M001079	B	Beryllium	ug/mL	111	<1.20E-03	<0.0120	n/a	n/a	n/a	n/a	0.0120	n/a	U
S06M001079	B	Bismuth	ug/mL	96.4	<0.102	<1.02	n/a	n/a	n/a	n/a	1.02	n/a	U
S06M001079	B	Boron	ug/mL	97.6	<0.0180	1.65	n/a	n/a	n/a	n/a	0.180	n/a	J
S06M001079	B	Calcium	ug/mL	108	<0.0800	35.2	n/a	n/a	n/a	n/a	0.800	n/a	
S06M001079	B	Cerium	ug/mL	105	<0.0150	0.170	n/a	n/a	n/a	n/a	0.150	n/a	J
S06M001079	B	Cobalt	ug/mL	101	<8.00E-03	0.104	n/a	n/a	n/a	n/a	0.0800	n/a	J
S06M001079	B	Copper	ug/mL	101	<0.0140	0.263	n/a	n/a	n/a	n/a	0.140	n/a	J
S06M001079	B	Europium	ug/mL	100	<1.00E-03	0.0469	n/a	n/a	n/a	n/a	0.0100	n/a	J
S06M001079	B	Iron	ug/mL	102	<0.0130	28.4	n/a	n/a	n/a	n/a	0.130	n/a	
S06M001079	B	Lanthanum	ug/mL	105	<8.00E-03	<0.0800	n/a	n/a	n/a	n/a	0.0800	n/a	U
S06M001079	B	Magnesium	ug/mL	99.2	<0.0150	6.46	n/a	n/a	n/a	n/a	0.150	n/a	
S06M001079	B	Manganese	ug/mL	101	<7.00E-03	1.30	n/a	n/a	n/a	n/a	0.0700	n/a	
S06M001079	B	Molybdenum	ug/mL	103	<3.00E-03	0.142	n/a	n/a	n/a	n/a	0.0300	n/a	J
S06M001079	B	Neodymium	ug/mL	96.4	<8.00E-03	<0.0800	n/a	n/a	n/a	n/a	0.0800	n/a	U
S06M001079	B	Nickel	ug/mL	100	<0.0220	3.72	n/a	n/a	n/a	n/a	0.220	n/a	
S06M001079	B	Phosphorus	ug/mL	101	<0.0430	0.563	n/a	n/a	n/a	n/a	0.430	n/a	J
S06M001079	B	Samarium	ug/mL	102	<0.0170	<0.170	n/a	n/a	n/a	n/a	0.170	n/a	U
S06M001079	B	Silicon	ug/mL	97.9	<0.0460	20.7	n/a	n/a	n/a	n/a	0.460	n/a	
S06M001079	B	Sodium	ug/mL	107	<0.0420	7.41	n/a	n/a	n/a	n/a	0.420	n/a	
S06M001079	B	Strontium	ug/mL	104	<7.00E-03	1.29	n/a	n/a	n/a	n/a	0.0700	n/a	
S06M001079	B	Sulfur	ug/mL	95.9	<0.0580	64.1	n/a	n/a	n/a	n/a	0.580	n/a	
S06M001079	B	Thorium	ug/mL	94.4	<9.00E-03	0.792	n/a	n/a	n/a	n/a	0.0900	n/a	J
S06M001079	B	Titanium	ug/mL	102	<2.00E-03	0.246	n/a	n/a	n/a	n/a	0.0200	n/a	
S06M001079	B	Uranium	ug/mL	107	<0.0310	80.0	n/a	n/a	n/a	n/a	0.310	n/a	
S06M001079	B	Yttrium	ug/mL	99.7	<0.0110	<0.110	n/a	n/a	n/a	n/a	0.110	n/a	U
S06M001079	B	Zinc	ug/mL	96.9	<4.00E-03	67.7	n/a	n/a	n/a	n/a	0.0400	n/a	
S06M001079	B	Zirconium	ug/mL	100	<2.00E-03	<0.0200	n/a	n/a	n/a	n/a	0.0200	n/a	U

**Attachment 4  
618-2-SAFE-2  
Data Summary Report**

**Core Number: 222S20060954  
Customer Sample ID: J12Y18  
Sample Portion: Acid Digest**

Sample#	A	Analyte	Unit	Standard%	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err %	Qual Flag
S06M001080	B	Americium-241	uCi/mL	n/a	<7.41E-07	2.12E-04	n/a	n/a	n/a	n/a	1.92E-05	7.13	
S06M001080	B	Plutonium-239	uCi/mL	n/a	<3.96E-03	6.89	n/a	n/a	n/a	n/a	0.107	3.03	
S06M001080	B	Uranium-235	uCi/mL	n/a	<7.43E-07	1.30E-04	n/a	n/a	n/a	n/a	8.75E-06	6.17	
S06M001080	B	Aluminium	ug/mL	94.5	<0.0270	544	n/a	n/a	n/a	n/a	2.70	n/a	
S06M001080	B	Antimony	ug/mL	101	<0.0280	57.6	n/a	n/a	n/a	n/a	2.80	n/a	
S06M001080	B	Beryllium	ug/mL	111	<1.20E-03	0.567	n/a	n/a	n/a	n/a	0.120	n/a	J
S06M001080	B	Bismuth	ug/mL	96.4	<0.102	40.9	n/a	n/a	n/a	n/a	10.2	n/a	J
S06M001080	B	Boron	ug/mL	97.6	<0.0180	545	n/a	n/a	n/a	n/a	1.80	n/a	
S06M001080	B	Calcium	ug/mL	108	<0.0800	653	n/a	n/a	n/a	n/a	8.00	n/a	
S06M001080	B	Cerium	ug/mL	105	<0.0150	1.37E+03	n/a	n/a	n/a	n/a	1.50	n/a	
S06M001080	B	Cobalt	ug/mL	101	<8.00E-03	<0.800	n/a	n/a	n/a	n/a	0.800	n/a	U
S06M001080	B	Copper	ug/mL	101	<0.0140	<1.40	n/a	n/a	n/a	n/a	1.40	n/a	U
S06M001080	B	Europium	ug/mL	100	<1.00E-03	2.16	n/a	n/a	n/a	n/a	0.100	n/a	
S06M001080	B	Iron	ug/mL	102	<0.0130	18.9	n/a	n/a	n/a	n/a	1.30	n/a	
S06M001080	B	Lanthanum	ug/mL	105	<8.00E-03	1.14E+04	n/a	n/a	n/a	n/a	0.800	n/a	
S06M001080	B	Magnesium	ug/mL	99.2	<0.0150	417	n/a	n/a	n/a	n/a	1.50	n/a	
S06M001080	B	Manganese	ug/mL	101	<7.00E-03	1.62	n/a	n/a	n/a	n/a	0.700	n/a	J
S06M001080	B	Molybdenum	ug/mL	103	<3.00E-03	1.28	n/a	n/a	n/a	n/a	0.300	n/a	J
S06M001080	B	Neodymium	ug/mL	96.4	<8.00E-03	10.3	n/a	n/a	n/a	n/a	0.800	n/a	
S06M001080	B	Nickel	ug/mL	100	<0.0220	<2.20	n/a	n/a	n/a	n/a	2.20	n/a	U
S06M001080	B	Phosphorus	ug/mL	101	<0.0430	15.7	n/a	n/a	n/a	n/a	4.30	n/a	J
S06M001080	B	Samarium	ug/mL	102	<0.0170	7.86	n/a	n/a	n/a	n/a	1.70	n/a	J
S06M001080	B	Silicon	ug/mL	97.9	<0.0460	968	n/a	n/a	n/a	n/a	4.60	n/a	
S06M001080	B	Sodium	ug/mL	107	<0.0420	2.17E+03	n/a	n/a	n/a	n/a	4.20	n/a	
S06M001080	B	Strontium	ug/mL	104	<7.00E-03	137	n/a	n/a	n/a	n/a	0.700	n/a	
S06M001080	B	Sulfur	ug/mL	95.9	<0.0580	33.2	n/a	n/a	n/a	n/a	5.80	n/a	J
S06M001080	B	Thorium	ug/mL	94.4	<9.00E-03	91.6	n/a	n/a	n/a	n/a	0.900	n/a	
S06M001080	B	Titanium	ug/mL	102	<2.00E-03	10.1	n/a	n/a	n/a	n/a	0.200	n/a	
S06M001080	B	Uranium	ug/mL	107	<0.0310	8.10E+03	n/a	n/a	n/a	n/a	3.10	n/a	
S06M001080	B	Yttrium	ug/mL	99.7	<0.0110	5.39	n/a	n/a	n/a	n/a	1.10	n/a	J
S06M001080	B	Zinc	ug/mL	96.9	<4.00E-03	1.18E+03	n/a	n/a	n/a	n/a	0.400	n/a	
S06M001080	B	Zirconium	ug/mL	100	<2.00E-03	596	n/a	n/a	n/a	n/a	0.200	n/a	

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Attachment 5

SAMPLE RECEIPT PAPERWORK

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-036-012		Page 1 of 1	
Collector R Fahlberg/ R Kerkow		Company Contact R Kerkow		Telephone No. 531-0635		Project Coordinator KESSNER, JH		Price Code Data Turnaround	
Project Designation 300 Area East Side Sites Anomalous Waste - Other Liquids		Sampling Location 300-FE-2 618-2 Safe Contents		SAF No. RC-036		Air Quality <input type="checkbox"/>			
Ice Chest No. JIKING TYPEA # 050010		Field Logbook No. EL 1365-11		COA RG61822F20		Method of Shipment Government Vehicle			
Shipped To 222-S Lab Operations		Offsite Property No. NA		Bill of Lading/Air Bill No. NA					
POSSIBLE SAMPLE HAZARDS/REMARKS Radioactive DOT TYPEA				Preservation	None	None			
Special Handling and/or Storage None				Type of Container	P	P			
				No. of Container(s)	1	0			
				Volume	1000mL	1000mL			
SAMPLE ANALYSIS				Gamma Spectroscopy	ICP Metals - 6010A (Add-on)				
Sample No.	Matrix *	Sample Date	Sample Time						
J12XB1 SC0M001074	OTHER LIQUID	06-14-06	0900	X	X				300 mL
J12XB2 SC0M001075	OTHER LIQUID	06-14-06	0950	X	X				400 mL
J12Y18 SC0M001076	OTHER LIQUID	07-28-06	0600	X	X				50 mL
CHAIN OF POSSESSION				Sign/Print Names		SPECIAL INSTRUCTIONS			
Relinquished By/Removed From R. Fahlberg		Date/Time 9/12/06 1410		Received By/Stored In R. Kerkow		Date/Time 9/12/06 1410		Matrix *	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		S-Soil SE-Sediment SO-Solid SP-Sludge W-Water O-Oil A-Air DS-Dry Solids DL-Dry Liquids T-Tissue Wt-Wipe L-Liquid V-Vegetation X-Other	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
LABORATORY SECTION		Received By		Title		Date/Time			
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time			

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06-ATL-151

<b>1. SHIP FROM U.S. DEPT. OF ENERGY C/O</b> Company <u>Washington Closure Hanford</u> Address <u>300-FF-2 ER- Project Site, 300-Arec</u> City, State, Zip <u>Richland, WA 99352</u> Contact <u>David St Juhn</u> Phone <u>509-372-9144</u>		<b>RADIOACTIVE SHIPMENT RECORD</b>		<b>106942<sup>3</sup></b> Page 1 of 1																																				
<b>2. SHIP TO</b> Company <u>Advanced Technology Labs</u> Address <u>222-S Laboratory, 200-West</u> City, State, Zip <u>Richland, WA 99352</u> Attention <u>Ruth Bushaw</u> Phone <u>509-373-4314</u>		Ship <input checked="" type="checkbox"/> Prepaid <input type="checkbox"/> Collect		4.																																				
		Via <input checked="" type="checkbox"/> Motor <sup>Govt</sup> Vehicle <input type="checkbox"/> Air Pgr <input type="checkbox"/> UPS <input type="checkbox"/> Rail <input type="checkbox"/> Air Cargo <input type="checkbox"/> Site Carrier																																						
SHIPMENT AUTHORIZATION NUMBER																																								
		<b>6. Markings Applied</b> Radioactive - LSA <input type="checkbox"/> Radioactive - SCO <input type="checkbox"/> Type A <input checked="" type="checkbox"/> Type B with trefoil <input type="checkbox"/> <b>8. LSA Description</b> LSA-I <input checked="" type="checkbox"/> LSA-II <input type="checkbox"/> LSA-III <input type="checkbox"/> SCO-I <input type="checkbox"/> SCO-II <input type="checkbox"/>		<b>7. For Normal Form only</b> Identify <u>Sample for analysis</u> Physical Form <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas <input type="checkbox"/> Solid Chemical Form <input type="checkbox"/> Metal <input type="checkbox"/> Nitrate <input type="checkbox"/> Oxide <input type="checkbox"/> Mixture <input type="checkbox"/> Other																																				
<b>5. HM Proper Shipping Name:</b> _____ <b>Radioactive Material:</b>		<b>9. EMERGENCY RESPONSE</b> Telephone <u>373-3800</u> Emergency Response Guide(s) <u>163</u>																																						
<input type="checkbox"/> excepted package - empty packaging 7 UN2910 <input type="checkbox"/> excepted package - instruments or articles 7 UN2910 <input type="checkbox"/> excepted package - limited quantity of material 7 UN2910 <input type="checkbox"/> excepted package - articles manufactured from natural or depleted uranium or natural thorium 7 UN2910 <input type="checkbox"/> Special Form, n.o.s. 7 UN2974 <input type="checkbox"/> Low Specific Activity, n.o.s. 7 UN2912 <input type="checkbox"/> n.o.s. 7 UN2982 <input type="checkbox"/> Fissile, n.o.s. 7 UN2918 <input type="checkbox"/> Surface Contaminated Object 7 UN2913 <input checked="" type="checkbox"/> <u>Radioactive material, Type A package, non-special form fissile excepted</u> 7 UN2915		<b>10. Labels Applied</b> Empty <input type="checkbox"/> Radioactive White - I <input checked="" type="checkbox"/> Radioactive Yellow - II <input type="checkbox"/> Radioactive Yellow - III <input type="checkbox"/> Subsidiary Hazard <input type="checkbox"/>																																						
Warning - Fissile Material Controlled Shipment. Do Not Load More Than <u>N/A</u> Packages Per Vehicle. In Loading and Storage Areas, Keep at Least 20 Feet From Other Packages Bearing Radioactive Labels. <span style="float: right;">MBg</span>																																								
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>11. No. Pkg.</th> <th>Model Package</th> <th>COC/Spec</th> <th>Serial No.</th> <th>Seal No.</th> <th>Isotopes</th> <th>T.I.</th> <th>Bq/Package</th> <th>Gr. Wt. Kg.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Viking 005C</td> <td>TYPEA</td> <td>050010</td> <td>Tape</td> <td>Pu-239 Am-241</td> <td>0.0</td> <td>197</td> <td>37</td> </tr> <tr> <td colspan="9">                     3 sample containers each inside sealed poly bags and packaged inside Viking package per manufacturers instructions 550 ml total inside                 </td> </tr> <tr> <td colspan="6">(Shipper may describe package in detail on one of the unused lines above) <u>RC-036</u></td> <td>TOTALS</td> <td>0.0</td> <td>197</td> </tr> </tbody> </table>					11. No. Pkg.	Model Package	COC/Spec	Serial No.	Seal No.	Isotopes	T.I.	Bq/Package	Gr. Wt. Kg.	1	Viking 005C	TYPEA	050010	Tape	Pu-239 Am-241	0.0	197	37	3 sample containers each inside sealed poly bags and packaged inside Viking package per manufacturers instructions 550 ml total inside									(Shipper may describe package in detail on one of the unused lines above) <u>RC-036</u>						TOTALS	0.0	197
11. No. Pkg.	Model Package	COC/Spec	Serial No.	Seal No.	Isotopes	T.I.	Bq/Package	Gr. Wt. Kg.																																
1	Viking 005C	TYPEA	050010	Tape	Pu-239 Am-241	0.0	197	37																																
3 sample containers each inside sealed poly bags and packaged inside Viking package per manufacturers instructions 550 ml total inside																																								
(Shipper may describe package in detail on one of the unused lines above) <u>RC-036</u>						TOTALS	0.0	197																																
12. This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Certifier's Signature <u>David St Juhn</u> On behalf of DOE-RL Date <u>01/12/2006</u> Organization <u>WCH-AFS</u> Complete Cost Code (Inc. End Function) <u>R46182 2F20</u>																																								
13. Surface Dose Rate of Package <input type="checkbox"/> <0.005 or _____ mSv/hr <input checked="" type="checkbox"/> <0.5 or _____ mrem/hr (N+B Y)		Dose Rate @ 1 Meter from Surface of Package <input type="checkbox"/> <0.005 or _____ mSv/hr <input checked="" type="checkbox"/> <0.5 or _____ mrem/hr (N+B Y)		Smears of Outer Container <input checked="" type="checkbox"/> <0.41 Bq (22 dpm) B Y /cm <sup>2</sup> <input checked="" type="checkbox"/> <0.04 Bq (2.2 dpm) a /cm <sup>2</sup> <input type="checkbox"/> <Tbl. 2-2 HSRM Onsite Limits																																				
Additional Data and Instructions (inc. Readings on Internal Packaging) Signature - Radiation Monitoring <u>Tom Salaj</u>		TRUCK LOAD OR EXCLUSIVE USE Surface <input checked="" type="checkbox"/> <2 mSv/hr (200 mrem/hr) @ 2 meters <input checked="" type="checkbox"/> <0.1 mSv/hr (10 mrem/hr) @ Cab <input checked="" type="checkbox"/> <0.02 mSv/hr (2 mrem/hr) or sleeper (Using N+B Y)		Bldg. <u>300 FF2</u> Survey No. <u>M-091206-15</u> Date <u>9.12.06</u>																																				
14. Vehicle Number <u>462-3177B</u> DRIVER SIGNATURE <u>Ruth Fuller</u>		RECEIVER SIGNATURE <u>R St Juhn</u> RECEIVER Date <u>9/12/06</u>																																						
15. OFFSITE AUTHORIZATION Shipment has been inspected and verified to be in compliance with DOT regulations Authorized Signature _____ Printed Name _____ Date _____																																								
AUTHORIZATION FOR SHIPMENT																																								
16. AIR TRANSPORT CERTIFICATION <input type="checkbox"/> N/A		CARGO AIRCRAFT <input type="checkbox"/> Cargo Aircraft Only Labels Applied		PASSENGER AIRCRAFT <input type="checkbox"/> Ltd Qty <input type="checkbox"/> Research/Medical Diagnosis <input type="checkbox"/> <3 T.I. <input type="checkbox"/> Human Medical Research																																				
Pkg. Dimensions (cm) _____																																								
OFFSITE AUTHORIZATION																																								
17. Tracking No. _____ Date Shipped _____		Routing _____ ETA _____																																						
Surveyed By _____ Date _____		Approved for Shipment Offsite _____ Date _____																																						

3-sample from 618-2 "safe"

GENERATOR KNOWLEDGE INFORMATION

1. Chain of Custody Number \_\_\_\_\_ CACN/COA \_\_\_\_\_ Customer Identification Number \_\_\_\_\_

2. List generator knowledge or description of process that produced sample. Or list description of sample source:

MSDS Available?  No  Yes Hanford MSDS No. \_\_\_\_\_

3. List all waste codes and constituents associated with the waste or media that was sampled, regardless of CERCLA status.

a) Does the sample contain any of the following listed waste codes?

By checking "unknown" the customer understands that no knowledge is available following a careful search.

List Federal Waste Code(s):

List Constituent(s):

P Codes: \_\_\_\_\_  Yes  No  Unknown
U Codes: \_\_\_\_\_  Yes  No  Unknown
K Codes: \_\_\_\_\_  Yes  No  Unknown
F Codes: \_\_\_\_\_  Yes  No  Unknown

b) List applicable characteristic waste codes, flash point, pH, constituents, and concentrations as appropriate.

D001:  FP <100°F  FP ≥100 <140°F  DOT Oxidizer  Yes  No  Unknown
D002:  pH ≤2  pH ≥12.5  Solid Corrosive (WSC2)  Yes  No  Unknown
D003:  Cyanide  Sulfide  Water Reactive  Other \_\_\_\_\_  Yes  No  Unknown
D004-D043 (Identify applicable waste codes and concentrations): \_\_\_\_\_ (i.e., peroxide former, explosive, air reactive)  Yes  No  Unknown

unlikely

c) If characteristic, list any known underlying hazardous constituents (UHCs) reasonably expected to be present, and their concentrations that may be present above the LDR treatment standard (40 CFR 268.48):

None known

d) List any known Land Disposal Restrictions (LDR) subcategories, if applicable (40 CFR 268.40):

None known

e) List any applicable Washington State dangerous waste codes: (not required if federally regulated)

(\*State mixture rule for ignitability)

WT01:  Yes  No  Unknown
WT02:  Yes  No  Unknown
W001:  Yes  No  Unknown
List constituents and concentrations: \_\_\_\_\_
WP01:  Yes  No  Unknown
WP02:  Yes  No  Unknown
WP03:  Yes  No  Unknown
F003:\*  Yes  No  Unknown

4. Is this material TSCA regulated for PCBs?  Yes  No  Unknown  Analysis Requested PCBs, unlikely

List concentration if applicable: \_\_\_\_\_

If yes, what is the source of the PCBs? (see TSCA PCB Hanford Site User Guide, DOE/RL-2001-50)

PCB Liquid Waste  PCB Bulk Product Waste  PCB Transformer ≥500 ppm  Unknown
 PCB Remediation Waste  PCB R&D Waste  PCB contaminated electrical equipment (capacitor/ballast) <500 ppm
 PCB Spill Material  PCB Item  Other PCB Waste (list) \_\_\_\_\_

5. Is this material TRU?  Yes  No  Unknown

6. ACCURACY OF INFORMATION

Based on my inquiry of those individuals immediately responsible for obtaining this information, that to the best of my knowledge, the information entered in this document is true, accurate, and complete.

Print & Sign \_\_\_\_\_

Date 8-20-06

06-ATL-151

Attachment 6

SIGNATURE PAGE

## CORRESPONDENCE DISTRIBUTION COVERSHEET

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Correspondence No.  
06-ATL-151  
October 11, 2006

Subject: FINAL REPORT FOR THE 618-2 SAFE SAMPLES RECEIVED IN SEPTEMBER  
2006 - SAMPLE GROUP 222S20060954

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