ENGINEERING CHANGE NOTICE

Page 1 of 2

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ECN

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12. Description of Change

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Final Report for Tank 241-U-107, Push Mode Cores 129, 134 and 135

Jaiduk Jo

Westinghouse Hanford Company, Richland, WA 99352
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Page 1

Final Report for Tank 241-U-107, Push Mode Cores 129, 134 and 135

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Westinghouse
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WHC-SD-WM-DP-184, REV. 1

P.O. Box 1970 Richland, WA 99352

WHC-SD-WM-DP-184, REV. 1

ANALYTICAL SERVICES

**FINAL REPORT FOR TANK 241-U-107,
PUSH MODE CORES
129, 134 AND 135**

PROJECT COORDINATOR: JAIDUK JO

**Prepared for the U.S. Department of Energy
Office of Environmental Restoration
and Waste Management**

by

Westinghouse Hanford Company

WHC-SD-WM-DP-184, REV. 1

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Part II consists of pages 2-1 through 2-308, and pages 2-2, 2-6, 2-17, 2-35, 2-44, and 2-49 were intentionally left blank.

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NARRATIVE

WHC-SD-WM-DP-184, REV. 1

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FINAL REPORT FOR TANK 241-U-107, PUSH MODE
CORES 129, 134 AND 135

SUMMARY

This is the final laboratory report for tank 241-U-107 (U-107), cores 129, 134 and 135. All three core samples underwent safety screening analyses in accordance with the sampling and analysis plan (Raphael 1996)-differential scanning calorimetry (DSC), thermogravimetric analysis (TGA), total alpha analysis, and bulk density measurements. Bromide analysis by ion chromatography (IC) and lithium analysis by inductively coupled plasma atomic emission spectroscopy (ICP) were performed to determine if the samples were contaminated with any lithium bromide solution that was used during sampling. In addition to the core sample analysis, the tank headspace flammability was measured prior to core sampling as required by the SAP and Safety Screening DQO. This final report contains the analysis results requested by the organic data quality objective (DQO), namely the total organic carbon (TOC) results. The analysis results requested by the compatibility DQO is contained in a letter report (Esch, 1995).

None of the data indicate that the tank is "unsafe" when compared to the criteria in the Safety Screening Data Quality Objective (Dukelow et al, 1995). with the exception of the energetic results for two samples (liquid samples). However, there is a high moisture content of greater than 45% in the liquid portion. Also, TOC analysis on these samples indicated negligible fuel content. The one-sided 95-percent confidence intervals for total alpha results are well below the notification limit. Furthermore, the vapor in the tank U-107 dome space is far below the 25% lower flammability limit (LFL) stated in the SAP. Therefore, the results show that this tank may be considered "conditionally" safe.

Water with a lithium bromide tracer, was used to soften the waste when pushing with 1900 lb down force could not penetrate the layer. However, no lithium bromide solution blank was taken. The lithium bromide solution blank data from tank B-204 sampling event is used for comparison. The results indicates very small amounts of contamination in some samples and large amounts of contamination in other samples by the lithium bromide solution. Most of the samples with large amounts of contamination had lithium bromide solution added to soften the waste.

SCOPE

This document serves as the final report deliverable for the tank 241-U-107 core samples collected between February 6 and March 18, 1996. Each sample was received, extruded, and analyzed by the 222-S Laboratory in accordance with the SAP (Jo 1996b).

This report includes the safety screening results (tank headspace flammability, DSC, TGA, total alpha, and bulk density or specific gravity) and the IC, ICP, and TOC results. As the final report, the following are also included: chain of custody forms; photographs of extruded segments; bulk

density worksheets; and worklists for extrusion, sample preparation, total alpha, specific gravity, IC, ICP, and TOC. Worklists for DSC and TGA were provided in the 45-day report (Jo 1996a). A copy of the 45-day report is provided as Part II of this final report.

SAMPLE RECEIPT AND EXTRUSION

A description of the sample receipt and extrusion is contained in the 45-day report (Jo 1996a). The chain of custody forms, photographs of the extruded segments, and extrusion worklists are provided in this report. Details of the extrusion and subsampling are provided in the hot cell logbook for tank U-107 (Fuller 1996).

TANK HEADSPACE FLAMMABILITY

A description of the tank headspace flammability and other headspace measurements taken in tank U-107 prior to core sampling is provided in the 45-day report (Jo 1996a). The combustible gas meter readings were between 0 to 4 percent of the LFL, indicating no flammability concerns with this tank. Other measurements made were oxygen (20.8 to 21.1 percent), total organic vapors (14 to 75 parts per million (ppm)), and ammonia (400 to 600 ppm).

The vapor in the tank headspace above the waste is safe from a self-propagating chemical reaction (safe from flame or explosion) but is dangerous to breathe. Ammonia concentration is at the threshold (300 ppm) considered by the National Institute of Safety and Health to be "immediately dangerous to life or health." However, the ammonia concentration is 0 ppm at the breather filter and it is not dangerous for the workers to breathe.

ANALYTICAL RESULTS

The results of all analyses performed on the tank U-107 push samples are provided in the Sample Data Summary tables. Analytical results for DSC, TGA, and total alpha were discussed in the 45-day report (Jo 1996a). TOC, IC, and ICP analyses results are also discussed below.

Total Organic Carbon (TOC)

TOC analyses were performed by using procedure LA-342-100 Rev. C-0. The results for sludge samples ranged from 516 $\mu\text{g/g}$ to 16,085 $\mu\text{g/g}$ (dry weight basis). For the drainable liquid samples, the TOC values ranged from 6022 $\mu\text{g/ml}$ to 13,682 $\mu\text{g/ml}$. The results show that the TOC concentration is well below the action limit of 30,000 $\mu\text{g/g}$ (dry weight basis). All RPDs, spike recoveries, and standard recoveries for the TOC were within the limits required by the SAP.

The upper limit of a one-sided 95% Confidence Interval were calculated (see attachment). The upper limit of the 95% Confidence Intervals were 555 to 20,395 $\mu\text{g/g}$ (dry weight basis) for drainable liquid and sludge samples.

Standards run with the samples had recoveries which fell within the required range of 80 to 120 percent for all of the samples. RPDs between the sample and duplicate sample analyses were below 20 percent for all but two of the samples. The RPDs for these two samples were 32.2 and 33.4 percent. Triplicate analyses were run and the resulting RPDs between duplicate and triplicate were less than 10%.

TIC analysis was also done for the samples. This additional analysis was not required by the Safety Screening DQO. However, since these data are generated when the TOC analysis is performed, the SAP requested that the results be reported.

Bromide by IC

Bromide analyses were performed by IC using procedure LA-533-105, Rev. D-1. Solid samples were prepared by a water digestion prior to the IC analysis; the water digestion was performed using procedure LA-504-101, Rev. D-0. The lithium bromide solution sample from B-204 sampling event (lithium bromide solution blank was not collected for U-107 sampling event) had an average bromide concentration of $2.72\text{E}+04 \mu\text{g/ml}$. Results indicate that the samples for core 134, segment 6A (sample numbers S96T001079, S96T001120, and S96T001121) consist almost entirely of lithium bromide solution. Liner liquid from all three samples was contaminated with lithium bromide solution. Other results showed less than 10% of bromide, indicating very little contamination of the samples by the lithium bromide solution. All RPDs, spike recoveries, and standard recoveries for the bromide analyses were within the limits required by the SAP.

Nitrite, nitrate, sulfate, phosphate, fluoride, chloride, and oxalate results are also reported for the samples. These additional analyses were not required by the Safety Screening DQO. However, since these data are generated when the IC analysis is performed, the SAP requested that the results be reported.

Lithium by ICP

Lithium analyses were performed by ICP using procedure LA-505-151, Rev. D-3 or LA-505-161, Rev. B-0. Solid samples were prepared by acid digestion prior to the ICP analysis; the acid digestion was performed using procedure LA-505-159, Rev. C-0. The lithium bromide solution sample (from B-204 sampling event) had an average lithium concentration of $1.98\text{E}+03 \mu\text{g/ml}$. Like the bromide results, the samples for core 134, segment 6A (sample numbers S96T001079, S96T001120, and S96T001121) consist almost entirely of lithium bromide solution. Liner liquid from all three samples were contaminated with lithium bromide solution. All the solid sample results were less than $100 \mu\text{g/g}$ value with an exception of core 134, segment 6A as mentioned above. Therefore, no adjustments were made for the TGA results. All standard recoveries were within the limits required by the SAP with one exception of 84%. Spike recoveries for three of the samples (67.9 to 77.0 %) were outside the range specified by the SAP. RPDs for all of the samples were below 15 percent as required by the SAP with one exception (69.4 %)

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Results for other ICP elements are also reported for the samples. These additional analyses were not required by the Safety Screening DQO. However, since these data are generated when the ICP analysis is performed, the SAP requested that the results be reported.

Project Coordinator: Jaiduk Jo

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WHC-SD-WM-DP-184, REV. 1

SAMPLE DATA SUMMARY

WHC-SD-WM-DP-184, REV. 1

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CORE NUMBER: 129
SEGMENT #: 3R

U-107 Final Report
U-107

SEGMENT PORTION: U Upper Half of Segment

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S945001140		Bulk Density of Sample	g/ml			1.360						
S945001143		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	5.00e-01	n/a
S945001143		DSC Exotherm on Perkin Elmer	Joules/g	92.86	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S945001143		% Water by IGA on Perkin Elmer	%	99.41	n/a	4.960	6.360	5.660	24.7	n/a	n/a	n/a
S945001143		TIC by Acid/Coulometry	ug/g	99.34	2.100	1.57e+03	1.65e+03	1.61e+03	4.97	96.50	5.000	n/a
S945001143		TIC by Persulfate/Coulometry	ug/g	102.3	0.300	9.21e+02	84.3	882.0	8.84	96.10	40.000	n/a
S945001144		Fluoride-IC-Dionex 40001/4500	ug/g	98.31	<1.30e-02	2.36e+02	<2.31e2	n/a	n/a	96.10	235.5	n/a
S945001144		Chloride-IC-Dionex 40001/4500	ug/g	94.81	<1.07e-02	2.35e+03	1.54e+03	1.95e+03	41.6	86.96	3.08.0	n/a
S945001144		Nitrate-IC-Dionex 40001/4500	ug/g	96.87	<1.07e-01	1.69e+04	1.80e+04	1.74e+04	6.30	93.57	1.94e+03	n/a
S945001144		Bromide by Ion Chromatograph	ug/g	98.70	<2.24e-01	<2.28e+03	<2.24e3	n/a	n/a	93.74	2.28e+03	n/a
S945001144		Nitrate by IC-Dionex 40001/4500	ug/g	98.05	<1.40e-01	6.71e+03	7.52e+03	6.72e+03	0.15	91.76	2.54e+03	n/a
S945001144		Phosphate-IC-Dionex 40001/4500	ug/g	93.41	<1.19e-01	<2.15e+03	5.72e+03	5.82e+03	3.27	90.97	2.46e+03	n/a
S945001144		Sulfate by IC-Dionex 40001/4500	ug/g	96.99	<1.36e-01	2.44e+03	2.52e+03	2.48e+03	3.25	90.97	1.90e+03	n/a
S945001144		Silver by IC-Dionex 40001	ug/g	101.6	<1.05e-01	15.90	14.70	15.30	7.84	89.50	27.90	n/a
S945001152		Aluminum - ICP-Acid Digest	ug/g	94.30	<1.00e-02	3.18e+03	3.04e+03	3.11e+03	4.50	91.00	55.90	n/a
S945001152		Arsenic - ICP-Acid Digest	ug/g	95.80	<1.27e-01	<27.90	<5.08e1	n/a	n/a	96.70	27.90	n/a
S945001152		Boron - ICP-Acid Digest	ug/g	97.80	<1.00e-01	<27.90	<5.08e1	36.85	43.1	87.40	27.90	n/a
S945001152		Barium - ICP-Acid Digest	ug/g	109.4	<6.85e-01	<27.90	<2.54e1	n/a	n/a	90.00	2.790	n/a
S945001152		Beryllium - ICP-Acid Digest	ug/g	96.60	<5.00e-02	<2.790	<2.54e0	n/a	n/a	87.40	55.90	n/a
S945001152		Bismuth - ICP-Acid Digest	ug/g	108.0	<5.00e-02	<2.790	<5.08e1	n/a	n/a	87.40	55.90	n/a
S945001152		Calcium - ICP-Acid Digest	ug/g	94.60	<1.00e-01	<5.590	<5.08e1	161.0	28.6	88.80	2.790	n/a
S945001152		Cadmium - ICP-Acid Digest	ug/g	94.20	<5.00e-03	<2.790	<2.54e0	n/a	n/a	91.60	55.90	n/a
S945001152		Cerium - ICP-Acid Digest	ug/g	100.2	<1.00e-01	<5.590	<5.08e1	n/a	n/a	88.20	11.20	n/a
S945001152		Cobalt - ICP-Acid Digest	ug/g	96.40	<2.00e-02	<5.590	<1.02e1	n/a	n/a	101.2	5.590	n/a
S945001152		Chromium - ICP-Acid Digest	ug/g	95.00	<1.00e-02	5.68e+02	5.60e0	544.0	1.42	87.00	5.590	n/a
S945001152		Copper - ICP-Acid Digest	ug/g	95.60	<1.80e-02	<5.590	<5.08e0	n/a	n/a	87.00	5.590	n/a
S945001152		Iron - ICP-Acid Digest	ug/g	95.00	<5.00e-02	80.30	76.60	78.45	4.72	87.98	27.90	n/a
S945001152		Lanthanum - ICP-Acid Digest	ug/g	99.80	<5.00e-01	6.41e+02	525.0	583.0	19.9	79.14	27.90	n/a
S945001152		Lanthanum - ICP-Acid Digest	ug/g	97.60	<5.00e-02	<27.90	<2.54e1	n/a	n/a	89.20	5.590	n/a
S945001152		Lithium - ICP-Acid Digest	ug/g	97.40	<1.00e-02	<5.590	<5.08e0	n/a	n/a	90.20	5.590	n/a
S945001152		Magnesium - ICP-Acid Digest	ug/g	90.80	<1.00e-02	<5.590	<5.08e1	n/a	n/a	84.60	55.90	n/a
S945001152		Manganese - ICP-Acid Digest	ug/g	92.80	<1.00e-02	<27.90	<27.30	28.55	8.76	91.80	27.90	n/a
S945001152		Molybdenum - ICP-Acid Digest	ug/g	93.60	<5.00e-02	<27.90	<2.54e1	n/a	n/a	84.00	27.90	n/a
S945001152		Sodium - ICP-Acid Digest	ug/g	118.0	1.080	2.08e+05	2.03e+05	2.06e+05	2.43	87.00	55.90	n/a
S945001152		Niobium - ICP-Acid Digest	ug/g	97.00	<1.00e-01	<5.590	<5.08e1	n/a	n/a	88.80	55.90	n/a
S945001152		Nickel - ICP-Acid Digest	ug/g	97.20	<2.00e-02	<11.20	<1.02e1	n/a	n/a	89.20	11.20	n/a
S945001152		Phosphorus - ICP-Acid Digest	ug/g	97.60	<2.00e-01	4.34e+02	392.0	413.0	10.2	157.4	112.0	n/a
S945001152		Strontium - ICP-Acid Digest	ug/g	91.40	<1.00e-01	<5.590	<5.08e1	n/a	n/a	85.40	55.90	n/a
S945001152		Selenium - ICP-Acid Digest	ug/g	95.00	<1.00e-01	4.64e+02	<3.08e1	443.5	5.64	93.58	55.90	n/a
S945001152		Antimony - ICP-Acid Digest	ug/g	94.40	<5.00e-02	<33.50	<3.08e1	n/a	n/a	103.8	33.50	n/a
S945001152		Sulfur - ICP-Acid Digest	ug/g	91.60	<1.00e-01	<5.590	<5.08e1	n/a	n/a	86.40	55.90	n/a
S945001152		Silicon - ICP-Acid Digest	ug/g	120.6	7.64e-01	1.64e+02	184.0	174.0	11.5	80.00	27.90	n/a

Sample#	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001152	A	Samarium - ICP-Acid Digest	ug/g	95.20	<1.00e-01	< 55.90	<5.08e1	n/a	n/a	86.40	54.90	n/a
S96T001152	A	Strontium - ICP-Acid Digest	ug/g	95.60	<1.00e-02	< 5.590	<5.08e0	n/a	n/a	86.80	5.590	n/a
S96T001152	A	Titanium - ICP-Acid Digest	ug/g	86.80	<1.00e-02	< 5.590	<5.08e0	n/a	n/a	91.20	5.590	n/a
S96T001152	A	Thallium - ICP-Acid Digest	ug/g	90.00	<2.00e-01	<1.12e+02	<1.02e2	n/a	n/a	82.60	112.0	n/a
S96T001152	A	Uranium - ICP-Acid Digest	ug/g	93.00	<5.00e-01	<2.79e+02	<2.54e2	n/a	n/a	86.80	279.0	n/a
S96T001152	A	Vanadium - ICP-Acid Digest	ug/g	94.00	<5.00e-02	< 27.90	<2.54e1	n/a	n/a	85.80	27.90	n/a
S96T001152	A	Zinc - ICP-Acid Digest	ug/g	91.80	<1.00e-02	13.50	41.30	27.40	101	86.36	5.590	n/a
S96T001152	A	Zirconium - ICP-Acid Digest	ug/g	96.20	<1.00e-02	< 5.590	<5.08e0	n/a	n/a	119.8	5.590	n/a
S96T001153		Alpha of Digested Solid	uCi/g	98.44	<1.45e-03	4.64e-02	3.22e-02	3.93e-02	36.1	73.82	4.00e-03	1.75E+01

WHC-SD-WM-DP-184, REV.
WHC-SD-WM-DP-184, REV.

Rev 7/17/96

WHC-SD-WM-DP-184, REV. 1

U-107 Final Report
U-107

CORE NUMBER: 129
SEGMENT #: 1

SEGMENT PORTION: L Lower Half of Segment

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T000483		DSC Exotherm using Mettler	Joules/g	108.6	n/a	12.40	11.40	11.90	8.40	n/a	n/a	n/a
S96T000483		DSC Exotherm DRY Calculated	Joules/g Dry	n/a	n/a	15.30	14.07	14.67	8.38	n/a	n/a	n/a
S96T000483		% Water by TGA using Mettler	%	102.3	n/a	18.52	19.37	18.95	4.49	n/a	n/a	n/a
S96T000484	F	Alpha of Digested Solid	uCi/g	104.6	2.00e-03	2.43e-03	-5.12E-3	n/a	n/a	92.60	4.00e-03	1.06E-02

Drainable Liquid: Drainable Liquid

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T000437		Specific Gravity	Sp.G.	98.24	n/a	1.381	n/a	n/a	n/a	n/a	1.00e-03	n/a
S96T000465		DSC Exotherm using Mettler	Joules/g	105.8	n/a	54.80	53.70	54.25	2.03	n/a	n/a	n/a
S96T000465		DSC Exotherm DRY Calculated	Joules/g Dry	n/a	n/a	1.17e+02	114.8	116.0	2.07	n/a	n/a	n/a
S96T000465		OH- by Pot. Titration	ug/mL	94.39	442.00	2.79e+04	2.91e+04	2.83e+04	5.65	n/a	2.50e+03	n/a
S96T000465		pH Direct	pH	n/a	n/a	13.92	13.89	13.91	0.22	n/a	1.00e-02	n/a
S96T000465		% Water by TGA using Mettler	%	99.61	n/a	51.94	54.51	53.22	4.83	n/a	n/a	n/a
S96T000465		TIC by Acid/Coulometry	ug/mL	101.5	2.000	4.67e+03	4.77e+03	4.72e+03	2.12	102.0	5.000	n/a
S96T000465		TOC by Persulfate/Coulometry	ug/mL	94.67	5.700	3.09e+03	3.15e+03	3.12e+03	1.92	98.30	40.00	n/a
S96T000465		Strontium-89/90 High Level	uCi/mL	99.19	<2.67e-05	4.57e-01	4.57e-01	4.57e-01	0.00	n/a	4.47e-05	3.11E-01
S96T000465		Silver-ICP-Acid Dill.	ug/mL	98.30	<1.00e-02	<10.00	<1.00e1	n/a	n/a	93.30	10.00	n/a
S96T000465		Aluminum-ICP-Acid Dill.	ug/mL	97.60	<5.00e-02	2.49e+04	2.38e+04	2.44e+04	4.52	n/a	50.10	n/a
S96T000465		Arsenic-ICP-Acid Dill.	ug/mL	101.4	<1.00e-01	68.70	64.30	66.50	6.62	99.00	50.10	n/a
S96T000465		Boron-ICP-Acid Dill.	ug/mL	100.8	<5.00e-02	<50.00	<5.00e1	n/a	n/a	101.9	50.10	n/a
S96T000465		Barium-ICP-Acid Dill.	ug/mL	100.2	<5.00e-02	<5.000	<5.00e0	n/a	n/a	104.9	5.000	n/a
S96T000465		Beryllium-ICP-Acid Dill.	ug/mL	100.4	<1.00e-01	<1.00e+02	<1.00e2	n/a	n/a	102.9	100.0	n/a
S96T000465		Bismuth-ICP-Acid Dill.	ug/mL	100.0	<1.00e-01	1.28e+02	116.0	122.0	9.84	104.1	100.0	n/a
S96T000465		Calcium-ICP-Acid Dill.	ug/mL	100.8	<5.00e-03	<5.000	<5.00e0	n/a	n/a	102.9	5.000	n/a
S96T000465		Cadmium-ICP-Acid Dill.	ug/mL	100.8	<1.00e-01	<1.00e+02	<1.00e2	n/a	n/a	100.9	100.0	n/a
S96T000465		Cerium-ICP-Acid Dill.	ug/mL	100.8	<2.00e-02	<20.00	<2.00e1	n/a	n/a	100.9	20.00	n/a
S96T000465		Cobalt-ICP-Acid Dill.	ug/mL	100.6	<1.00e-02	8.30e+02	796.0	813.0	4.18	94.90	10.00	n/a
S96T000465		Chromium-ICP-Acid Dill.	ug/mL	103.0	<1.00e-02	<10.00	<1.00e1	n/a	n/a	107.9	10.00	n/a
S96T000465		Copper-ICP-Acid Dill.	ug/mL	99.40	<1.00e-02	<50.00	<5.00e1	n/a	n/a	107.9	50.10	n/a
S96T000465		Iron-ICP-Acid Dill.	ug/mL	103.0	<5.00e-02	2.98e+03	2.84e+03	2.91e+03	4.81	74.30	500.0	n/a
S96T000465		Potassium-ICP-Acid Dill.	ug/mL	97.80	<5.00e-01	<50.00	<5.00e1	n/a	n/a	103.9	50.10	n/a
S96T000465		Lanthanum-ICP-Acid Dill.	ug/mL	101.8	<1.00e-02	<10.00	<1.00e1	n/a	n/a	98.00	10.00	n/a
S96T000465		Lithium-ICP-Acid Dill.	ug/mL	100.4	<1.00e-02	<1.00e+02	<1.00e2	n/a	n/a	102.9	100.0	n/a
S96T000465		Magnesium-ICP-Acid Dill.	ug/mL	98.00	<1.00e-01	<100.00	<1.00e2	n/a	n/a	102.9	100.0	n/a
S96T000465		Molybdenum-ICP-Acid Dill.	ug/mL	100.4	<1.00e-02	<10.00	<1.00e1	n/a	n/a	99.80	50.10	n/a
S96T000465		Sodium-ICP-Acid Dill.	ug/mL	99.20	<5.00e-01	2.31e+05	2.25e+05	2.28e+05	2.63	n/a	100.0	n/a
S96T000465		Neodymium-ICP-Acid Dill.	ug/mL	97.80	<1.00e-01	<1.00e+02	<1.00e2	n/a	n/a	107.9	100.0	n/a
S96T000465		Nickel-ICP-Acid Dill.	ug/mL	107.2	<2.00e-02	23.40	20.50	21.95	13.2	101.6	20.00	n/a
S96T000465		Phosphorus-ICP-Acid Dill.	ug/mL	99.00	<2.00e-01	1.32e+03	1.22e+03	1.27e+03	7.87	83.60	200.0	n/a
S96T000465		Lead-ICP-Acid Dill.	ug/mL	101.4	<1.00e-01	<1.00e+02	<1.00e2	n/a	n/a	103.9	100.0	n/a
S96T000465		Sulfur-ICP-Acid Dill.	ug/mL	96.40	<1.00e-01	2.55e+03	2.42e+03	2.48e+03	5.23	75.40	100.0	n/a

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Sample#	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961000665		Antimony-ICP-Acid Dil.	ug/mL	93.60	< 6.00e-02	< 60.10	< 6.01e1	n/a	n/a	92.30	60.10	n/a
S961000665		Selenium-ICP-Acid Dil.	ug/mL	98.80	< 1.00e-01	< 1.00e+02	< 1.00e2	n/a	n/a	102.9	100.0	n/a
S961000665		Silicon-ICP-Acid Dil.	ug/mL	94.80	< 5.00e-02	85.50	77.00	81.25	10.5	99.30	50.10	n/a
S961000665		Samarium-ICP-Acid Dil.	ug/mL	100.6	< 1.00e-01	< 1.00e+02	< 1.00e2	n/a	n/a	99.90	100.0	n/a
S961000665		Strontium-ICP-Acid Dil.	ug/mL	99.80	< 1.00e-02	< 10.00	< 1.00e1	n/a	n/a	101.9	10.00	n/a
S961000665		Titanium-ICP-Acid Dil.	ug/mL	95.80	< 1.00e-02	< 10.00	< 1.00e1	n/a	n/a	98.10	10.00	n/a
S961000665		Thallium-ICP-Acid Dil.	ug/mL	97.20	< 2.00e-01	< 2.00e+02	< 2.00e2	n/a	n/a	97.70	200.0	n/a
S961000665		Uranium-ICP-Acid Dil.	ug/mL	93.90	< 5.00e-01	< 5.00e+02	< 5.00e2	n/a	n/a	94.90	500.0	n/a
S961000665		Vanadium-ICP-Acid Dil.	ug/mL	99.60	< 5.00e-02	< 50.00	< 5.00e1	n/a	n/a	101.9	50.10	n/a
S961000665		Zinc-ICP-Acid Dil.	ug/mL	98.80	< 1.00e-02	< 10.00	< 1.00e1	n/a	n/a	101.9	10.00	n/a
S961000665		Zirconium-ICP-Acid Dil.	ug/mL	97.60	< 1.00e-02	< 10.00	< 1.00e1	n/a	n/a	99.70	10.00	n/a
S961000665		Fluoride-IC-Dionex 4000/4500	ug/mL	102.9	< 1.30e-02	4.58e+02	451.0	454.2	1.54	n/a	53.83	n/a
S961000665		Chloride-IC-Dionex 4000/4500	ug/mL	98.35	< 1.70e-02	7.20e+03	7.33e+03	7.26e+03	1.70	n/a	70.40	n/a
S961000665		Nitrite-IC - Dionex 4000/4500	ug/mL	102.1	< 1.07e-01	8.83e+04	8.94e+04	8.88e+04	1.24	n/a	443.1	n/a
S961000665		Bromide by Ion Chromatograph	ug/mL	99.65	< 1.26e-01	< 5.22e+02	< 5.22e2	n/a	n/a	n/a	521.8	n/a
S961000665		Nitrate-IC - Dionex 4000/4500	ug/mL	102.4	< 1.40e-01	2.04e+05	2.09e+05	2.06e+05	2.43	n/a	570.7	n/a
S961000665		Phosphate-IC-Dionex 4000/4500	ug/mL	98.90	< 1.19e-01	3.53e+03	3.74e+03	3.64e+03	5.78	n/a	482.4	n/a
S961000665		Sulfate by IC-Dionex4000/4500	ug/mL	101.1	< 1.36e-01	5.94e+03	6.18e+03	6.06e+03	3.96	n/a	542.8	n/a
S961000665		Oxalate by IC - Dionex 4000i	ug/mL	103.4	< 1.05e-01	5.66e+02	5.87.0	626.4	19.3	n/a	437.8	n/a
S961000665		Alpha in Liquid Samples	uCi/mL	98.04	< 1.21e-02	< 1.72e-02	< 1.72E-2	n/a	n/a	95.41	2.50e-02	5.00E+02

CORE NUMBER: 129
SEGMENT #: 2

U-107 Final Report
U-107

WHC-SD-WM-DP-184, REV. /

SEGMENT PORTION: U Upper Half of Segment

Sample #	RA#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961000788		Bulk Density of Sample	g/ml	n/a	n/a	1.520	n/a	136.6	n/a	n/a	5.00e-01	n/a
S961000788		Bulk Density using Mattier	g/ml	105.4	n/a	1.41e-02	132.1	136.6	6.66	n/a	n/a	n/a
S961000788		BSC Endotherm using Mattier	Joules/g	n/a	n/a	2.71e-02	253.8	262.6	6.67	n/a	n/a	n/a
S961000788		BSC Exotherm using Mattier	Joules/g	100.2	n/a	48.57	47.34	47.95	2.56	n/a	n/a	n/a
S961000788		% Water Dry TGA using Mattier	%	94.52	3.100	3.45e+03	3.39e+03	3.42e+03	1.75	104.0	5.000	n/a
S961000788		IC by GC/GC/MS using Mattier	ug/g	89.67	3.100	4.67e+02	4.16	4.41.5	11.6	71.86	103.9	n/a
S961000788		Fluoride by IC-Dioxex 40001/4500	ug/g	98.64	<1.30e-02	4.67e+02	4.16	4.41.5	11.6	71.86	103.9	n/a
S961000788		Chloride by IC-Dioxex 40001/4500	ug/g	94.18	3.30e-02	4.60e+03	4.54e+03	4.57e+03	1.31	92.53	135.8	n/a
S961000788		Nitrate by IC-Dioxex 40001/4500	ug/g	97.77	<1.07e-01	5.15e+04	4.92e+04	5.03e+04	4.57	100.0	854.9	n/a
S961000788		Nitrite by Ion Chromatograph	ug/g	96.52	<1.26e-01	<1.01e+03	<1.08e3	n/a	n/a	94.26	1.01e+03	n/a
S961000788		Phosphate by IC-Dioxex 40001/4500	ug/g	98.53	<1.40e-01	1.35e+05	1.27e+05	1.31e+05	6.11	106.0	1.12e+03	n/a
S961000788		Sulfate by IC-Dioxex 40001/4500	ug/g	97.31	<1.19e-01	3.21e+04	2.63e+04	2.92e+04	19.9	93.22	949.6	n/a
S961000788		Sulfate by IC-Dioxex 40001/4500	ug/g	97.31	<1.36e-01	4.95e+03	5.03e+03	4.99e+03	1.60	94.14	1.09e+03	n/a
S961000788		Sulfate by IC-Dioxex 40001/4500	ug/g	100.6	<1.36e-01	9.87e+03	8.92e+03	9.40e+03	10.1	98.82	838.9	n/a
S961000788		Valerate by IC-Dioxex 40001/4500	ug/g	94.40	<1.00e-02	13.40	13.20	13.30	1.50	94.20	4.650	n/a
S961000788		Aluminum - ICP-Acid Digest	ug/g	96.20	5.30e-02	2.11e+04	2.09e+04	2.10e+04	0.95	283.5	23.30	n/a
S961000788		Asenic - ICP-Acid Digest	ug/g	96.80	<1.00e-01	46.50	<4.34e1	n/a	n/a	94.20	46.50	n/a
S961000788		Boron - ICP-Acid Digest	ug/g	106.6	1.21e-01	1.73e+02	146.0	159.5	16.9	87.10	23.30	n/a
S961000788		Barium - ICP-Acid Digest	ug/g	99.60	<5.00e-02	<2.30	<2.17e1	n/a	n/a	98.80	23.30	n/a
S961000788		Beryllium - ICP-Acid Digest	ug/g	107.4	<5.00e-02	<2.30	<2.17e1	n/a	n/a	98.80	23.30	n/a
S961000788		Bismuth - ICP-Acid Digest	ug/g	94.80	<1.00e-01	48.80	61.40	55.10	22.9	94.80	46.50	n/a
S961000788		Calcium - ICP-Acid Digest	ug/g	106.6	1.80e-01	6.41e+02	689.0	665.0	7.22	94.70	46.50	n/a
S961000788		Cadmium - ICP-Acid Digest	ug/g	93.20	<5.00e-03	12.20	13.10	12.65	7.11	92.94	2.330	n/a
S961000788		Cerium - ICP-Acid Digest	ug/g	103.0	<1.00e-01	<46.50	<4.34e1	n/a	n/a	103.8	46.50	n/a
S961000788		Cobalt - ICP-Acid Digest	ug/g	95.60	<2.00e-02	<9.300	<8.67e0	n/a	n/a	95.80	9.300	n/a
S961000788		Chromium - ICP-Acid Digest	ug/g	96.00	<1.00e-02	9.22e+03	9.43e+03	9.32e+03	2.25	123.2	4.650	n/a
S961000788		Copper - ICP-Acid Digest	ug/g	96.60	1.20e-02	13.00	17.80	15.40	31.2	94.28	4.650	n/a
S961000788		Iron - ICP-Acid Digest	ug/g	96.00	1.15e-01	1.34e+03	1.38e+03	1.36e+03	2.94	107.1	23.30	n/a
S961000788		Lanthanum - ICP-Acid Digest	ug/g	97.60	<5.00e-02	<1.62e+03	1.63e+03	1.62e+03	0.62	100.6	23.30	n/a
S961000788		Lithium - ICP-Acid Digest	ug/g	100.2	<5.00e-02	<23.30	<2.17e1	n/a	n/a	100.6	23.30	n/a
S961000788		Magnesium - ICP-Acid Digest	ug/g	97.80	<1.00e-02	<4.650	<4.34e0	n/a	n/a	95.20	46.50	n/a
S961000788		Manganese - ICP-Acid Digest	ug/g	92.80	<1.00e-02	1.26e+03	1.31e+03	1.28e+03	3.89	88.38	4.650	n/a
S961000788		Molybdenum - ICP-Acid Digest	ug/g	92.40	<5.00e-02	46.40	46.90	46.65	1.07	103.4	4.650	n/a
S961000788		Sodium - ICP-Acid Digest	ug/g	111.0	2.70e-01	1.45e+05	1.44e+05	1.44e+05	0.69	872.1	46.50	n/a
S961000788		Neodymium - ICP-Acid Digest	ug/g	99.40	<1.00e-01	<46.50	<4.34e1	n/a	n/a	100.6	46.50	n/a
S961000788		Nickel - ICP-Acid Digest	ug/g	95.40	<2.00e-02	83.20	86.90	85.05	4.35	96.04	9.300	n/a
S961000788		Phosphorus - ICP-Acid Digest	ug/g	89.20	<2.00e-01	6.38e+03	5.80e+03	6.09e+03	9.52	61.72	93.00	n/a
S961000788		Lead - ICP-Acid Digest	ug/g	90.80	<1.00e-01	1.57e+02	1.69	163.0	7.36	92.28	46.50	n/a
S961000788		Sulfur - ICP-Acid Digest	ug/g	92.40	<1.00e-01	1.26e+03	1.29e+03	1.28e+03	2.35	128e+03	46.50	n/a
S961000788		Antimony - ICP-Acid Digest	ug/g	86.00	<6.00e-02	<27.90	<2.60e1	n/a	n/a	83.80	27.90	n/a
S961000788		Selenium - ICP-Acid Digest	ug/g	91.00	<1.00e-01	<46.50	<4.34e1	n/a	n/a	89.00	46.50	n/a
S961000788		Silicon - ICP-Acid Digest	ug/g	136.0	5.20e-02	2.32e+02	265.0	238.5	5.45	89.88	23.30	n/a

Sample#	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961000788	A	Samarium - ICP-Acid Digest	ug/g	97.60	<1.00e-01	46.50	44.34e1	N/A	N/A	96.40	46.50	N/A
S961000788	A	Strontium - ICP-Acid Digest	ug/g	98.00	<1.00e-02	5.570	5.500	5.755	5.75	96.72	4.650	N/A
S961000788	A	Titanium - ICP-Acid Digest	ug/g	82.20	<1.00e-02	5.160	5.530	5.345	6.92	78.56	4.650	N/A
S961000788	A	Thallium - ICP-Acid Digest	ug/g	91.00	<2.00e-01	93.00	-8.67e1	N/A	N/A	89.40	93.00	N/A
S961000788	A	Uranium - ICP-Acid Digest	ug/g	96.60	<5.00e-01	3.15e+02	355.0	335.0	11.9	97.47	233.0	N/A
S961000788	A	Vanadium - ICP-Acid Digest	ug/g	95.40	<5.00e-02	23.30	-2.17e1	N/A	N/A	94.00	23.30	N/A
S961000788	A	Zinc - ICP-Acid Digest	ug/g	90.40	<1.00e-02	53.50	59.60	56.55	10.8	91.40	4.650	N/A
S961000788	A	Zirconium - ICP-Acid Digest	ug/g	77.40	<1.00e-02	17.40	18.20	17.80	4.49	67.50	4.650	N/A

L Lower Half of Segment: L Lower Half of Segment

Sample#	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961000645		Bulk Density of Sample	g/mL	N/A	N/A	J.S.	N/A	N/A	N/A	N/A	5.00e-01	N/A
S961000647		DSC Exotherm using Mettler	Joules/g	105.4	N/A	9.600	8.200	8.900	15.7	N/A	N/A	N/A
S961000647		DSC Exotherm Dry Calculated	Joules/g	N/A	N/A	11.95	10.21	11.08	15.7	N/A	N/A	N/A
S961000647		% Water by TGA using Mettler	%	100.2	N/A	21.10	18.26	19.68	14.4	N/A	N/A	N/A
S961000647		TIC by Acid/Coulometry	ug/g	94.52	3.100	2.06e+03	2.31e+03	2.18e+03	11.4	N/A	5.000	N/A
S961000647		TOC by Persulfate/Coulometry	ug/g	89.67	3.100	1.86e+03	1.97e+03	1.92e+03	5.74	N/A	40.00	N/A
S961000647	F	Alpha of Digested Solid	ug/g	104.6	2.00e-03	1.54e-01	1.70e-01	1.62e-01	9.88	N/A	4.00e-03	1.01E+01
S961000651	W	Fluoride-IC-Dioxex 40001/4500	ug/g	98.64	3.30e-02	3.07e+02	291.0	295.6	3.05	N/A	184.5	N/A
S961000651	W	Nitrite-IC - Dioxex 40001/4500	ug/g	97.77	<1.07e-01	2.28e+04	2.04e+04	2.16e+04	11.1	N/A	1.52e+03	N/A
S961000651	W	Nitrate by Ion Chromatograph	ug/g	96.52	<1.26e-01	<1.79e+03	<1.81e3	N/A	N/A	N/A	1.79e+03	N/A
S961000651	W	Nitrate by IC-Dioxex40001/4500	ug/g	98.53	<1.40e-01	3.18e+05	5.71e+05	4.44e+05	36.9	N/A	1.98e+03	N/A
S961000651	W	Phosphate-IC-Dioxex 40001/4500	ug/g	96.70	<1.19e-01	7.12e+03	6.96e+03	7.04e+03	2.27	N/A	1.69e+03	N/A
S961000651	W	Sulfate by IC-Dioxex40001/4500	ug/g	97.31	<1.36e-01	4.25e+03	4.88e+03	4.76e+03	4.83	N/A	1.93e+03	N/A
S961000651	W	Oxalate by IC - Dioxex 40001	ug/g	100.6	<1.05e-01	2.92e+03	2.78e+03	2.85e+03	4.91	N/A	1.49e+03	N/A
S961000789	A	Silver - ICP-Acid Digest	ug/g	94.40	<1.00e-02	14.80	14.80	14.80	0.00	N/A	4.540	N/A
S961000789	A	Aluminum - ICP-Acid Digest	ug/g	96.20	5.30e-02	1.19e+04	1.27e+04	1.23e+04	6.50	N/A	22.70	N/A
S961000789	A	Arsenic - ICP-Acid Digest	ug/g	96.80	<1.00e-01	<45.40	<44.74e1	N/A	N/A	N/A	45.40	N/A
S961000789	A	Boron - ICP-Acid Digest	ug/g	106.6	1.21e-01	1.16e+02	146.0	131.0	22.9	N/A	22.70	N/A
S961000789	A	Barium - ICP-Acid Digest	ug/g	99.60	<5.00e-02	<22.70	<2.37e0	N/A	N/A	N/A	22.70	N/A
S961000789	A	Beryllium - ICP-Acid Digest	ug/g	107.4	<5.00e-03	<2.270	<2.37e0	N/A	N/A	N/A	22.70	N/A
S961000789	A	Bismuth - ICP-Acid Digest	ug/g	94.80	<1.00e-01	<45.40	<44.74e1	N/A	N/A	N/A	45.40	N/A
S961000789	A	Calcium - ICP-Acid Digest	ug/g	106.6	1.80e-01	6.59e+02	337.0	498.0	64.7	N/A	45.40	N/A
S961000789	A	Cadmium - ICP-Acid Digest	ug/g	93.20	<5.00e-03	5.610	3.940	4.775	35.0	N/A	2.270	N/A
S961000789	A	Cerium - ICP-Acid Digest	ug/g	103.0	<1.00e-01	<45.40	<44.74e1	N/A	N/A	N/A	45.40	N/A
S961000789	A	Cobalt - ICP-Acid Digest	ug/g	96.60	<2.00e-02	<9.080	<9.48e0	N/A	N/A	N/A	9.080	N/A
S961000789	A	Chromium - ICP-Acid Digest	ug/g	95.00	<1.00e-02	3.74e+03	3.12e+03	3.43e+03	18.1	N/A	4.540	N/A
S961000789	A	Copper - ICP-Acid Digest	ug/g	96.60	1.20e-02	9.530	7.270	8.400	26.9	N/A	4.540	N/A
S961000789	A	Iron - ICP-Acid Digest	ug/g	96.00	1.15e-01	8.61e+02	692.0	776.5	21.8	N/A	22.70	N/A
S961000789	A	Potassium - ICP-Acid Digest	ug/g	97.20	<5.00e-01	9.33e+02	714.0	823.5	26.6	N/A	22.70	N/A
S961000789	A	Lanthanum - ICP-Acid Digest	ug/g	100.2	<5.00e-02	<22.70	<2.37e1	N/A	N/A	N/A	22.70	N/A
S961000789	A	Lithium - ICP-Acid Digest	ug/g	97.80	<1.00e-02	<4.540	<4.74e0	N/A	N/A	N/A	4.540	N/A
S961000789	A	Magnesium - ICP-Acid Digest	ug/g	90.20	<1.00e-01	71.20	57.00	64.10	22.2	N/A	4.540	N/A
S961000789	A	Molybdenum - ICP-Acid Digest	ug/g	92.80	<1.00e-02	6.51e+02	508.0	579.5	24.7	N/A	4.540	N/A
S961000789	A	Nickel - ICP-Acid Digest	ug/g	92.40	<5.00e-02	26.20	<2.37e1	N/A	N/A	N/A	22.70	N/A
S961000789	A	Sodium - ICP-Acid Digest	ug/g	111.0	2.70e-01	1.86e+05	1.93e+05	1.90e+05	3.69	N/A	45.40	N/A
S961000789	A	Neodymium - ICP-Acid Digest	ug/g	99.40	<1.00e-01	<45.40	<44.74e1	N/A	N/A	N/A	45.40	N/A
S961000789	A	Nickel - ICP-Acid Digest	ug/g	95.40	<2.00e-02	42.90	38.10	40.50	11.9	N/A	9.080	N/A

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Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPO %	Spk Rec %	Det Limit	Count Err%
S961000789	A	Phosphorus -ICP-Acid Digest	ug/g	89.20	<2.00e-01	9.26e+02	1.66e+03	1.29e+03	56.8	n/a	90.80	n/a
S961000789	A	Lead -ICP-Acid Digest	ug/g	90.80	<1.00e-01	94.90	72.70	83.80	26.5	n/a	45.40	n/a
S961000789	A	Sulfur -ICP-Acid Digest	ug/g	92.40	<1.00e-01	7.47e+02	582.0	664.5	24.8	n/a	45.40	n/a
S961000789	A	Antimony -ICP-Acid Digest	ug/g	86.00	<6.00e-02	<27.20	<2.84e1	63.5	n/a	n/a	27.20	n/a
S961000789	A	Selenium -ICP-Acid Digest	ug/g	91.00	<1.00e-01	<45.40	<4.74e1	n/a	n/a	n/a	45.40	n/a
S961000789	A	Silicon -ICP-Acid Digest	ug/g	136.0	5.20e-02	1.64e+02	163.0	163.5	0.61	n/a	22.70	n/a
S961000789	A	Samarium -ICP-Acid Digest	ug/g	97.60	<1.00e-01	<45.40	<4.74e1	n/a	n/a	n/a	45.40	n/a
S961000789	A	Strontium -ICP-Acid Digest	ug/g	98.00	<1.00e-02	<4.540	<4.74e0	n/a	n/a	n/a	4.540	n/a
S961000789	A	Titanium -ICP-Acid Digest	ug/g	82.20	<1.00e-02	<4.540	<4.74e0	n/a	n/a	n/a	4.540	n/a
S961000789	A	Thallium -ICP-Acid Digest	ug/g	91.00	<2.00e-01	<90.80	<9.48e0	n/a	n/a	n/a	90.80	n/a
S961000789	A	Uranium -ICP-Acid Digest	ug/g	96.60	<5.00e-01	<2.37e2	<2.37e2	n/a	n/a	n/a	227.0	n/a
S961000789	A	Vanadium -ICP-Acid Digest	ug/g	95.00	<5.00e-02	<22.70	<2.37e1	n/a	n/a	n/a	22.70	n/a
S961000789	A	Zinc -ICP-Acid Digest	ug/g	90.40	<1.00e-02	30.10	34.55	34.55	25.8	n/a	4.540	n/a
S961000789	A	Zirconium -ICP-Acid Digest	ug/g	77.40	<1.00e-02	10.10	10.10	10.10	0.00	n/a	4.540	n/a

Drainable Liquid: Drainable Liquid

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPO %	Spk Rec %	Det Limit	Count Err%
S961000641	A	Specific Gravity	Sp.G.	98.24	n/a	1.435	n/a	n/a	n/a	n/a	1.00e-03	n/a
S961000682	D	DSC Exotherm using Mettler	Joules/g	105.8	n/a	65.30	63.70	64.50	2.48	n/a	n/a	n/a
S961000682	D	DSC Exotherm DRY, Calculated	Joules/g	n/a	n/a	1.30e+02	126.6	128.1	2.42	n/a	2.50e+03	n/a
S961000682	D	OH- by Pot. Titration	ug/mL	96.30	<42.00	2.50e+04	2.47e+04	2.48e+04	1.21	n/a	1.00e-02	n/a
S961000682	D	pH Direct	pH	n/a	n/a	13.90	13.90	13.90	0.00	n/a	1.00e-02	n/a
S961000682	D	% Water by TGA using Mettler	%	99.61	n/a	49.79	49.55	49.67	0.48	n/a	4.48e-05	n/a
S961000682	D	Strontium-89/90 High Level	uCi/mL	99.19	<2.67e-05	4.08e-01	3.86e-01	3.97e-01	5.54	n/a	10.00	n/a
S961000682	D	Silver-ICP-Acid Dill.	ug/mL	98.80	<1.00e-02	<10.00	<1.00e1	n/a	95.50	n/a	50.10	n/a
S961000682	D	Aluminum-ICP-Acid Dill.	ug/mL	97.60	<5.00e-02	2.25e+04	2.25e+04	2.25e+04	0.00	n/a	113.6	n/a
S961000682	D	Arsenic-ICP-Acid Dill.	ug/mL	101.4	<1.00e-01	<1.00e+02	<1.00e2	n/a	103.9	n/a	100.0	n/a
S961000682	D	Boron-ICP-Acid Dill.	ug/mL	100.8	<5.00e-02	67.10	64.80	65.95	3.49	n/a	50.10	n/a
S961000682	D	Beryllium-ICP-Acid Dill.	ug/mL	100.2	<5.00e-02	<5.000	<5.00e1	n/a	101.9	n/a	50.10	n/a
S961000682	D	Bismuth-ICP-Acid Dill.	ug/mL	104.2	<5.00e-03	<5.000	<5.00e0	n/a	n/a	n/a	5.000	n/a
S961000682	D	Calcium-ICP-Acid Dill.	ug/mL	102.4	<1.00e-01	<1.00e+02	<1.00e2	n/a	103.9	n/a	100.0	n/a
S961000682	D	Cadmium-ICP-Acid Dill.	ug/mL	100.8	<5.00e-03	<5.000	<1.00e+02	n/a	n/a	n/a	100.0	n/a
S961000682	D	Cerium-ICP-Acid Dill.	ug/mL	100.8	<1.00e-01	<1.00e+02	<1.00e2	n/a	102.9	n/a	5.000	n/a
S961000682	D	Cobalt-ICP-Acid Dill.	ug/mL	98.00	<1.00e-02	<20.00	<2.00e1	n/a	n/a	n/a	100.0	n/a
S961000682	D	Chromium-ICP-Acid Dill.	ug/mL	100.6	<1.00e-02	7.36e+02	737.0	736.5	0.14	n/a	103.3	n/a
S961000682	D	Copper-ICP-Acid Dill.	ug/mL	99.40	<1.00e-02	<10.00	<1.00e1	n/a	100.9	n/a	10.00	n/a
S961000682	D	Iron-ICP-Acid Dill.	ug/mL	103.0	<5.00e-02	<50.00	<5.00e1	n/a	n/a	n/a	50.10	n/a
S961000682	D	Potassium-ICP-Acid Dill.	ug/mL	97.80	<5.00e-01	2.81e+03	2.79e+03	2.78e+03	2.16	n/a	500.0	n/a
S961000682	D	Lanthanum-ICP-Acid Dill.	ug/mL	101.8	<5.00e-02	<50.00	<5.00e1	n/a	n/a	n/a	50.10	n/a
S961000682	D	Lithium-ICP-Acid Dill.	ug/mL	100.4	<1.00e-02	<10.00	<1.00e1	n/a	n/a	n/a	10.00	n/a
S961000682	D	Magnesium-ICP-Acid Dill.	ug/mL	98.00	<1.00e-01	<1.00e+02	<1.00e2	n/a	n/a	n/a	100.0	n/a
S961000682	D	Manganese-ICP-Acid Dill.	ug/mL	100.4	<1.00e-02	<10.00	<1.00e1	n/a	n/a	n/a	100.0	n/a
S961000682	D	Molybdenum-ICP-Acid Dill.	ug/mL	97.80	<5.00e-02	85.20	85.70	85.45	0.59	n/a	50.10	n/a
S961000682	D	Sodium-ICP-Acid Dill.	ug/mL	99.20	<1.00e-01	2.11e+05	2.12e+05	2.12e+05	1.41	n/a	100.0	n/a
S961000682	D	Neodymium-ICP-Acid Dill.	ug/mL	107.2	<1.00e-02	<1.00e+02	<1.00e2	n/a	n/a	n/a	100.0	n/a
S961000682	D	Nickel-ICP-Acid Dill.	ug/mL	100.4	<2.00e-02	22.10	<2.00e1	n/a	n/a	n/a	102.7	n/a
S961000682	D	Phosphorus-ICP-Acid Dill.	ug/mL	99.00	<2.00e-01	9.95e+02	989.0	992.0	0.60	n/a	200.0	n/a
S961000682	D	Lead-ICP-Acid Dill.	ug/mL	101.4	<1.00e-01	<1.00e+02	<1.00e2	n/a	n/a	n/a	103.9	n/a

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Sample#	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count	Err%
S961000682	D	Sulfur-ICP-Acid Dil.	ug/mL	96.40	<1.00e-01	2.34e+03	2.33e+03	2.34e+03	0.43	94.60	100.0	n/a	n/a
S961000682	D	Antimony-ICP-Acid Dil.	ug/mL	93.60	<6.00e-02	< 60.10	<6.01e1	n/a	n/a	94.40	60.10	n/a	n/a
S961000682	D	Selenium-ICP-Acid Dil.	ug/mL	98.80	<1.00e-01	<1.00e+02	<1.00e2	n/a	n/a	105.9	100.0	n/a	n/a
S961000682	D	Silicon-ICP-Acid Dil.	ug/mL	94.80	<5.00e-02	84.80	101.0	92.90	17.4	102.4	50.10	n/a	n/a
S961000682	D	Samarium-ICP-Acid Dil.	ug/mL	100.6	<1.00e-01	<1.00e+02	<1.00e2	n/a	n/a	100.9	100.0	n/a	n/a
S961000682	D	Strontium-ICP-Acid Dil.	ug/mL	99.80	<1.00e-02	< 10.00	<1.00e1	n/a	n/a	101.9	10.00	n/a	n/a
S961000682	D	Titanium-ICP-Acid Dil.	ug/mL	95.80	<1.00e-02	< 10.00	<1.00e1	n/a	n/a	98.30	10.00	n/a	n/a
S961000682	D	Thallium-ICP-Acid Dil.	ug/mL	97.20	<2.00e-01	<2.00e+02	<2.00e2	n/a	n/a	99.20	200.0	n/a	n/a
S961000682	D	Uranium-ICP-Acid Dil.	ug/mL	93.90	<5.00e-01	<5.00e+02	<5.00e2	n/a	n/a	98.40	500.0	n/a	n/a
S961000682	D	Vanadium-ICP-Acid Dil.	ug/mL	99.60	<5.00e-02	< 50.00	<5.00e1	n/a	n/a	102.9	50.10	n/a	n/a
S961000682	D	Zinc-ICP-Acid Dil.	ug/mL	98.80	<1.00e-02	27.30	27.40	27.35	0.37	101.2	10.00	n/a	n/a
S961000682	D	Zirconium-ICP-Acid Dil.	ug/mL	97.60	<1.00e-02	< 10.00	<1.00e1	n/a	n/a	99.90	10.00	n/a	n/a
S961000682	D	Fluoride-IC-Dionex 40001/4500	ug/mL	102.9	<1.30e-02	4.99e+02	496.0	497.5	0.60	85.25	53.83	n/a	n/a
S961000682	D	Chloride-IC-Dionex 40001/4500	ug/mL	98.35	<1.70e-02	7.74e+03	7.67e+03	7.71e+03	0.91	104.4	70.40	n/a	n/a
S961000682	D	Nitrite-IC - Dionex 40001/4500	ug/mL	102.1	<1.07e-01	9.40e+04	9.38e+04	9.39e+04	0.21	99.06	443.1	n/a	n/a
S961000682	D	Bromide by Ion Chromatograph	ug/mL	99.65	<1.26e-01	<5.22e+02	<5.22e2	n/a	n/a	96.52	521.8	n/a	n/a
S961000682	D	Nitrate-IC - Dionex 40001/4500	ug/mL	102.4	<1.40e-01	2.21e+05	2.21e+05	2.21e+05	0.00	92.83	579.7	n/a	n/a
S961000682	D	Phosphate-IC-Dionex 40001/4500	ug/mL	98.90	<1.19e-01	3.70e+03	3.48e+03	3.59e+03	6.13	97.25	492.4	n/a	n/a
S961000682	D	Sulfate by IC - Dionex 40001/4500	ug/mL	101.1	<1.36e-01	6.37e+03	6.28e+03	6.33e+03	1.42	97.78	562.8	n/a	n/a
S961000682	D	Oxalate by IC - Dionex 40001	ug/mL	103.4	<1.05e-01	5.30e+02	518.0	524.2	2.29	101.2	434.8	n/a	n/a
S961000682	D	Alpha in Liquid Samples	uCi/mL	98.04	<1.21e-02	<1.09e-02	<1.09E-2	n/a	n/a	n/a	2.50e-02	5.00E+02	n/a
S961000682	D	Bulk Density of Sample	g/mL	n/a	n/a	1.400	n/a	n/a	n/a	n/a	5.00e-01	n/a	n/a
S961000682	D	TIC by Acid/Coulometry	ug/mL	100.2	6.00e-01	7.52e+03	7.19e+03	7.36e+03	4.49	n/a	5.000	n/a	n/a
S961003487	D	TOC by Persulfate/Coulometry	ug/mL	90.00	7.800	4.88e+03	4.82e+03	4.85e+03	1.24	n/a	40.00	n/a	n/a

U-107 Final Report
U-107

CORE NUMBER: 129
SEGMENT #: 3

SEGMENT PORTION: U Upper Half of Segment

Sample#	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961000648		Bulk Density of Sample	g/mL	n/a	n/a	1.480	n/a	n/a	n/a	n/a	5.00e-01	n/a
S961000650		DSC Exotherm using Mettler	Joules/g	106.2	n/a	25.50	10.70	18.10	81.8	n/a	n/a	n/a
S961000650		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	33.78	14.18	23.98	81.7	n/a	n/a	n/a
S961000650		% Water by TGA using Mettler	%	102.1	n/a	22.19	26.84	24.52	19.0	n/a	n/a	n/a
S961000650		TIC by Acid/Coulometry	ug/g	94.52	3.100	1.74e+03	1.64e+03	1.69e+03	5.34	n/a	5.000	n/a
S961000650		TOC by Persulfate/Coulometry	ug/g	89.67	3.100	1.27e+03	1.27e+03	1.27e+03	8.20	n/a	40.00	n/a
S961000652		Fluoride-IC-Dionex 40001/4500	ug/g	101.9	<1.30e-02	6.52e+02	683.0	667.5	4.64	n/a	161.3	n/a
S961000652		Chloride-IC-Dionex 40001/4500	ug/g	94.43	6.10e-02	2.24e+03	2.66e+03	2.45e+03	17.1	n/a	210.9	n/a
S961000652		Nitrite-IC - Dionex 40001/4500	ug/g	100.4	<1.07e-01	2.78e+04	3.18e+04	2.98e+04	13.4	n/a	1.33e+03	n/a
S961000652		Bromide by Ion Chromatograph	ug/g	100.2	<1.26e-01	<1.56e+03	<1.59e3	n/a	n/a	n/a	96.25	n/a
S961000652		Nitrate by IC-Dionex40001/4500	ug/g	101.6	5.18e-01	5.66e+05	5.27e+05	5.47e+05	7.14	n/a	1.56e+03	n/a
S961000652		Phosphate-IC-Dionex 40001/4500	ug/g	100.0	<1.20e-01	7.86e+03	8.48e+03	8.17e+03	7.59	n/a	90.41	n/a
S961000652		Sulfate by IC-Dionex40001/4500	ug/g	101.3	<1.30e-01	6.22e+03	6.41e+03	6.31e+03	3.01	n/a	96.77	n/a
S961000652		Oxalate by IC - Dionex 40001	ug/g	107.1	<1.05e-01	1.96e+03	<1.33e3	n/a	n/a	n/a	104.7	n/a
S961000790		Silver - ICP-Acid Digest	ug/g	94.40	<1.00e-02	14.50	15.00	14.75	3.39	n/a	4.940	n/a
S961000790		Aluminum - ICP-Acid Digest	ug/g	96.20	5.30e-02	6.37e+03	5.78e+03	6.08e+03	9.71	n/a	24.70	n/a
S961000790		Arsenic - ICP-Acid Digest	ug/g	96.80	<1.00e-01	<49.40	<44.30e1	n/a	n/a	n/a	49.40	n/a
S961000790		Boron - ICP-Acid Digest	ug/g	106.6	1.21e-01	1.46e+02	117.0	131.5	22.1	n/a	24.70	n/a
S961000790		Barium - ICP-Acid Digest	ug/g	99.60	<5.00e-03	<24.70	<2.15e1	n/a	n/a	n/a	24.70	n/a
S961000790		Bismuth - ICP-Acid Digest	ug/g	107.4	<5.00e-03	<2.470	<2.15e0	n/a	n/a	n/a	2.470	n/a
S961000790		Calcium - ICP-Acid Digest	ug/g	94.80	<1.00e-01	<49.40	<44.30e1	n/a	n/a	n/a	49.40	n/a
S961000790		Cadmium - ICP-Acid Digest	ug/g	106.6	1.80e-01	2.92e+02	424.0	358.0	36.9	n/a	49.40	n/a
S961000790		Cerium - ICP-Acid Digest	ug/g	93.20	<5.00e-03	<2.470	<2.15e0	n/a	n/a	n/a	2.470	n/a
S961000790		Cobalt - ICP-Acid Digest	ug/g	103.0	<1.00e-01	<49.40	<44.30e1	n/a	n/a	n/a	49.40	n/a
S961000790		Copper - ICP-Acid Digest	ug/g	96.60	<2.00e-02	9.880	<8.61e0	n/a	n/a	n/a	9.880	n/a
S961000790		Chromium - ICP-Acid Digest	ug/g	95.00	<1.00e-02	7.15e+02	666.0	690.5	7.10	n/a	4.940	n/a
S961000790		Iron - ICP-Acid Digest	ug/g	96.60	1.20e-02	6.870	<4.30e0	n/a	n/a	n/a	4.940	n/a
S961000790		Potassium - ICP-Acid Digest	ug/g	97.60	1.15e-01	1.15e+02	91.30	103.2	23.0	n/a	24.70	n/a
S961000790		Lanthanum - ICP-Acid Digest	ug/g	100.2	<5.00e-01	9.26e+02	850.0	888.0	8.36	n/a	24.70	n/a
S961000790		Lithium - ICP-Acid Digest	ug/g	97.80	<1.00e-02	<24.70	<2.15e1	n/a	n/a	n/a	24.70	n/a
S961000790		Magnesium - ICP-Acid Digest	ug/g	97.80	<1.00e-02	<49.40	<44.30e0	n/a	n/a	n/a	4.940	n/a
S961000790		Manganese - ICP-Acid Digest	ug/g	92.80	<1.00e-02	<24.70	<44.30e1	n/a	n/a	n/a	49.40	n/a
S961000790		Molybdenum - ICP-Acid Digest	ug/g	92.40	<5.00e-02	<24.70	<2.15e1	n/a	n/a	n/a	4.940	n/a
S961000790		Sodium - ICP-Acid Digest	ug/g	111.0	2.70e-01	1.99e+05	2.06e+05	2.02e+05	3.46	n/a	24.70	n/a
S961000790		Nickel - ICP-Acid Digest	ug/g	99.40	<1.00e-01	<49.40	<44.30e1	n/a	n/a	n/a	49.40	n/a
S961000790		Neodymium - ICP-Acid Digest	ug/g	95.40	<2.00e-02	9.880	<8.61e0	n/a	n/a	n/a	9.880	n/a
S961000790		Phosphorus - ICP-Acid Digest	ug/g	89.20	<2.00e-01	2.97e+02	288.0	292.5	3.08	n/a	98.80	n/a
S961000790		Lead - ICP-Acid Digest	ug/g	90.80	<1.00e-01	<49.40	<44.30e1	n/a	n/a	n/a	49.40	n/a
S961000790		Sulfur - ICP-Acid Digest	ug/g	92.40	<1.00e-01	7.18e+02	649.0	683.5	10.1	n/a	49.40	n/a
S961000790		Antimony - ICP-Acid Digest	ug/g	86.00	<6.00e-02	<29.60	<2.50e1	n/a	n/a	n/a	29.60	n/a
S961000790		Selenium - ICP-Acid Digest	ug/g	91.00	<1.00e-01	<49.40	<44.30e1	n/a	n/a	n/a	49.40	n/a
S961000790		Silicon - ICP-Acid Digest	ug/g	136.0	5.20e-02	70.70	57.60	64.15	20.4	n/a	24.70	n/a

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Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961000790	A	Samarium - ICP-Acid Digest	ug/g	97.60	< 1.00e-01	< 49.40	< 4.30e1		N/A	N/A	49.40	N/A
S961000790	A	Strontium - ICP-Acid Digest	ug/g	98.00	< 1.00e-02	< 4.940	< 4.30e0		N/A	N/A	4.940	N/A
S961000790	A	Titanium - ICP-Acid Digest	ug/g	82.20	< 1.00e-02	< 4.940	< 4.30e0		N/A	N/A	4.940	N/A
S961000790	A	Thallium - ICP-Acid Digest	ug/g	91.00	< 2.00e-01	< 98.80	< 8.61e1		N/A	N/A	98.80	N/A
S961000790	A	Uranium - ICP-Acid Digest	ug/g	96.60	< 5.00e-01	< 2.47e02	< 2.15e2		N/A	N/A	247.0	N/A
S961000790	A	Vanadium - ICP-Acid Digest	ug/g	95.00	< 5.00e-02	< 24.70	< 2.15e1		N/A	N/A	24.70	N/A
S961000790	A	Zinc - ICP-Acid Digest	ug/g	90.40	< 1.00e-02	< 16.20	< 15.90		1.87	N/A	4.940	N/A
S961000790	A	Zirconium - ICP-Acid Digest	ug/g	77.40	< 1.00e-02	< 4.940	< 4.30e0		N/A	N/A	4.940	N/A

Lower Half of Segment: L Lower Half of Segment

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961000651	A	Bulk Density of Sample	g/ml	N/A	N/A	1.460	N/A		N/A	N/A	5.00e-01	N/A
S961000653	A	OSC Exotherm using Mettler	calories/g	104.2	N/A	13.90	30.19	21.95	73.3	N/A	N/A	N/A
S961000653	A	OSC Exotherm DRY	calories/g DRY	102.4	N/A	16.78	17.43	17.11	3.80	N/A	N/A	N/A
S961000653	A	% Water by IGA using Mettler	%	94.52	3.100	1.56e+03	1.77e+03	1.65e+03	12.6	N/A	5.000	N/A
S961000653	A	TOC by Acid/Combustion	ug/g	89.67	3.100	3.37e+03	3.39e+03	3.38e+03	1.45	N/A	40.00	N/A
S961000653	A	TOC by Persulfate/Combustion	ug/g	95.42	< 5.35e-03	3.36e-02	3.71e-02	3.53e-02	9.90	85.46	6.00e-03	2.36E+01
S961000689	F	Alpha of Digested Solids	deg/g	101.9	< 1.00e-02	< 1.48e-02	< 1.62e-2		N/A	N/A	167.6	N/A
S961000693	W	Fluoride - IC-Dionex 4000/14500	ug/g	94.43	6.10e-02	3.73e+03	2.18e+03	2.95e+03	52.5	N/A	1.38e+03	N/A
S961000693	W	Chloride - IC-Dionex 4000/14500	ug/g	100.2	< 1.00e-01	2.77e+04	2.70e+04	2.74e+04	2.56	N/A	1.62e+03	N/A
S961000693	W	Nitrite - IC - Dionex 4000/14500	ug/g	100.2	< 1.00e-01	< 1.62e+03	< 1.57e+3		N/A	N/A	1.80e+03	N/A
S961000693	W	Bromide by Ion Chromatography	ug/g	101.2	< 5.18e-01	5.00e+05	5.43e+05	5.21e+05	8.25	N/A	1.54e+03	N/A
S961000693	W	Nitrate by IC-Dionex 4000/14500	ug/g	100.0	< 1.20e-01	7.25e+03	6.84e+03	7.05e+03	5.82	N/A	1.75e+03	N/A
S961000693	W	Phosphate - IC-Dionex 4000/14500	ug/g	101.3	< 1.36e-01	6.44e+03	6.01e+03	6.23e+03	6.91	N/A	1.35e+03	N/A
S961000693	W	Sulfate by IC-Dionex 4000/14500	ug/g	107.1	< 1.05e-01	< 1.35e+03	< 1.31e+3		N/A	N/A	5.110	N/A
S961000693	W	Oralate by IC-Dionex 4000/14500	ug/g	94.40	< 1.00e-02	15.20	15.00	15.10	1.32	N/A	25.60	N/A
S961000791	A	Silver - ICP-Acid Digest	ug/g	96.20	5.30e-02	5.73e+03	5.02e+03	5.38e+03	13.2	N/A	25.60	N/A
S961000791	A	Aluminum - ICP-Acid Digest	ug/g	96.80	< 1.00e-01	< 51.10	< 5.04e1		N/A	N/A	51.10	N/A
S961000791	A	Arsenic - ICP-Acid Digest	ug/g	99.60	1.21e-01	1.17e+02	157.0	137.0	29.2	N/A	25.60	N/A
S961000791	A	Boron - ICP-Acid Digest	ug/g	99.60	< 5.00e-02	< 25.50	< 2.52e1		N/A	N/A	2.550	N/A
S961000791	A	Beryllium - ICP-Acid Digest	ug/g	107.4	< 5.00e-03	< 2.550	< 2.52e0		N/A	N/A	51.10	N/A
S961000791	A	Bismuth - ICP-Acid Digest	ug/g	94.80	< 1.00e-01	< 51.10	< 5.04e1		N/A	N/A	51.10	N/A
S961000791	A	Calcium - ICP-Acid Digest	ug/g	106.6	1.80e-01	3.41e+02	232.0	286.5	38.0	N/A	2.550	N/A
S961000791	A	Calcium - ICP-Acid Digest	ug/g	93.20	< 5.00e-03	< 2.550	< 2.52e0		N/A	N/A	51.10	N/A
S961000791	A	Cerium - ICP-Acid Digest	ug/g	103.0	< 1.00e-01	< 51.10	< 5.04e1		N/A	N/A	51.10	N/A
S961000791	A	Cobalt - ICP-Acid Digest	ug/g	96.60	< 2.00e-02	< 10.20	< 1.01e1		N/A	N/A	10.20	N/A
S961000791	A	Copper - ICP-Acid Digest	ug/g	95.00	< 1.00e-02	7.62e+02	686.0	724.0	10.5	N/A	5.110	N/A
S961000791	A	Copper - ICP-Acid Digest	ug/g	96.60	1.20e-02	< 5.110	< 5.04e0		N/A	N/A	5.110	N/A
S961000791	A	Iron - ICP-Acid Digest	ug/g	96.00	1.15e-01	1.12e+02	103.0	107.5	8.37	N/A	25.60	N/A
S961000791	A	Potassium - ICP-Acid Digest	ug/g	97.60	< 5.00e-02	8.15e+02	626.0	720.5	26.2	N/A	25.60	N/A
S961000791	A	Lanthanum - ICP-Acid Digest	ug/g	100.2	< 5.00e-02	< 25.50	< 2.52e1		N/A	N/A	5.110	N/A
S961000791	A	Lithium - ICP-Acid Digest	ug/g	97.80	< 1.00e-01	< 5.110	< 5.04e0		N/A	N/A	5.110	N/A
S961000791	A	Magnesium - ICP-Acid Digest	ug/g	90.20	< 1.00e-02	< 51.10	< 5.04e1		N/A	N/A	5.110	N/A
S961000791	A	Manganese - ICP-Acid Digest	ug/g	92.80	< 1.00e-02	< 32.50	< 28.90	30.70	11.7	N/A	25.60	N/A
S961000791	A	Molybdenum - ICP-Acid Digest	ug/g	96.40	< 5.00e-02	< 25.50	< 2.52e1		N/A	N/A	51.10	N/A
S961000791	A	Sodium - ICP-Acid Digest	ug/g	111.0	< 2.00e-01	2.15e+05	1.23e+05	2.14e+05	1.41	N/A	51.10	N/A
S961000791	A	Neodymium - ICP-Acid Digest	ug/g	99.40	< 1.00e-01	< 51.10	< 5.04e1		N/A	N/A	51.10	N/A
S961000791	A	Nickel - ICP-Acid Digest	ug/g	95.40	< 2.00e-02	< 10.20	< 1.01e1		N/A	N/A	10.20	N/A

Sample#	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T000791	A	Phosphorus - ICP-Acid Digest	ug/g	89.20	<2.00e-01	3.48e+02	318.0	333.0	9.01	n/a	102.0	n/a
S96T000791	A	Lead - ICP-Acid Digest	ug/g	90.80	<1.00e-01	< 5.110	<5.04e1	n/a	n/a	n/a	51.10	n/a
S96T000791	A	Sulfur - ICP-Acid Digest	ug/g	92.40	<1.00e-01	6.09e+02	532.0	570.5	13.5	n/a	51.10	n/a
S96T000791	A	Antimony - ICP-Acid Digest	ug/g	86.00	<6.00e-02	< 30.70	<3.03e1	n/a	n/a	n/a	30.70	n/a
S96T000791	A	Selenium - ICP-Acid Digest	ug/g	91.00	<1.00e-01	< 5.110	<5.04e1	n/a	n/a	n/a	51.10	n/a
S96T000791	A	Silicon - ICP-Acid Digest	ug/g	136.0	5.20e-02	2.17e+02	199.0	208.0	8.65	n/a	25.60	n/a
S96T000791	A	Samarium - ICP-Acid Digest	ug/g	97.60	<1.00e-01	< 5.110	<5.04e1	n/a	n/a	n/a	51.10	n/a
S96T000791	A	Strontium - ICP-Acid Digest	ug/g	98.00	<1.00e-02	< 5.110	<5.04e0	n/a	n/a	n/a	5.110	n/a
S96T000791	A	Titanium - ICP-Acid Digest	ug/g	82.20	<1.00e-02	< 5.110	<5.04e0	n/a	n/a	n/a	5.110	n/a
S96T000791	A	Thallium - ICP-Acid Digest	ug/g	91.00	<2.00e-01	<1.02e+02	<1.01e2	n/a	n/a	n/a	102.0	n/a
S96T000791	A	Uranium - ICP-Acid Digest	ug/g	96.60	<5.00e-01	<2.53e+02	<2.52e2	n/a	n/a	n/a	255.0	n/a
S96T000791	A	Vanadium - ICP-Acid Digest	ug/g	95.00	<5.00e-02	< 25.50	<2.52e1	n/a	n/a	n/a	25.60	n/a
S96T000791	A	Zinc - ICP-Acid Digest	ug/g	90.40	<1.00e-02	16.40	15.50	15.95	5.84	n/a	5.110	n/a
S96T000791	A	Zirconium - ICP-Acid Digest	ug/g	77.40	<1.00e-02	< 5.110	<5.04e0	n/a	n/a	n/a	5.110	n/a

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CORE NUMBER: 134
SEGMENT #: 5A

U-107 Final Report
U-107

SEGMENT PORTION: Limer Liquid

Sample#	RA#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD % Spk	Rec %	Det Limit	Count Err
S967001110		OH- by Pot. Titration	ug/mL	96.15	<42.00	12.92	12.93	12.93	0.08	N/A	625.0	N/A
S967001110		pH Direct	pH	N/A	N/A	12.92	12.93	12.93	0.08	N/A	1.00e-02	N/A
S967001110		Strontium-89/90 High Level	uCi/mL	94.31	7.00e-02	NS	NS	NS	N/A	N/A	1.00e-06	INS
S967001110		Silver-ICP-Acid Dtl.	ug/mL	100.4	<1.00e-02	1.68e-01	1.68e-01	1.68e-01	0.00	5.800	6.00e-02	N/A
S967001110		Aluminum-ICP-Acid Dtl.	ug/mL	99.50	<3.00e-02	76.30	76.30	76.30	0.26	96.90	3.00e-01	N/A
S967001110		Arsenic-ICP-Acid Dtl.	ug/mL	102.8	<1.00e-01	<6.00e-01	<6.00e-01	<6.00e-01	N/A	N/A	6.00e-01	N/A
S967001110		Boron-ICP-Acid Dtl.	ug/mL	100.6	<3.00e-02	3.750	3.750	3.750	0.80	99.60	3.00e-01	N/A
S967001110		Barium-ICP-Acid Dtl.	ug/mL	103.6	<3.00e-02	<3.00e-01	<3.00e-01	<3.00e-01	N/A	103.8	3.00e-01	N/A
S967001110		Beryllium-ICP-Acid Dtl.	ug/mL	104.0	<3.00e-02	<3.00e-02	<3.00e-02	<3.00e-02	N/A	104.8	3.00e-01	N/A
S967001110		Bismuth-ICP-Acid Dtl.	ug/mL	102.4	<1.00e-01	<6.00e-01	<6.00e-01	<6.00e-01	N/A	104.2	6.00e-01	N/A
S967001110		Calcium-ICP-Acid Dtl.	ug/mL	103.4	<1.00e-01	2.960	2.960	2.960	4.38	104.2	6.00e-01	N/A
S967001110		Cadmium-ICP-Acid Dtl.	ug/mL	102.0	<3.00e-01	3.12e-01	3.12e-01	3.12e-01	4.39	99.10	3.00e-02	N/A
S967001110		Cerium-ICP-Acid Dtl.	ug/mL	105.2	<3.00e-01	<6.00e-01	<6.00e-01	<6.00e-01	N/A	113.7	6.00e-01	N/A
S967001110		Cobalt-ICP-Acid Dtl.	ug/mL	102.4	<3.00e-01	<1.20e-01	<1.20e-01	<1.20e-01	N/A	102.5	1.20e-01	N/A
S967001110		Chromium-ICP-Acid Dtl.	ug/mL	103.2	<1.00e-02	7.92e-01	7.92e-01	7.92e-01	0.13	105.1	6.00e-02	N/A
S967001110		Copper-ICP-Acid Dtl.	ug/mL	104.2	<1.00e-02	7.92e-01	7.92e-01	7.92e-01	0.66	101.6	3.00e-01	N/A
S967001110		Iron-ICP-Acid Dtl.	ug/mL	102.2	<3.00e-02	57.90	58.80	58.35	1.54	99.90	3.000	N/A
S967001110		Potassium-ICP-Acid Dtl.	ug/mL	101.6	<3.00e-02	<3.00e-01	<3.00e-01	<3.00e-01	N/A	105.0	3.00e-01	N/A
S967001110		Lanthanum-ICP-Acid Dtl.	ug/mL	103.4	<1.00e-02	5.65e-02	5.62	5.63	0.53	67.90	6.00e-02	N/A
S967001110		Lithium-ICP-Acid Dtl.	ug/mL	98.28	<1.00e-01	7.25e-01	7.57e-01	7.41e-01	4.32	94.70	6.00e-01	N/A
S967001110		Magnesium-ICP-Acid Dtl.	ug/mL	100.8	<1.00e-02	1.18e-01	1.18e-01	1.18e-01	0.00	97.40	6.00e-02	N/A
S967001110		Manganese-ICP-Acid Dtl.	ug/mL	102.2	<3.00e-02	1.070	1.080	1.075	0.93	100.0	3.00e-01	N/A
S967001110		Molybdenum-ICP-Acid Dtl.	ug/mL	100.6	<1.00e-01	2.39e-03	2.38e-03	2.38e-03	0.42	N/A	6.00e-01	N/A
S967001110		Sodium-ICP-Acid Dtl.	ug/mL	104.6	<1.00e-01	<6.00e-01	<6.00e-01	<6.00e-01	N/A	106.5	6.00e-01	N/A
S967001110		Neodymium-ICP-Acid Dtl.	ug/mL	100.4	<2.00e-02	7.77e-01	7.37e-01	7.57e-01	5.28	99.70	1.20e-01	N/A
S967001110		Nickel-ICP-Acid Dtl.	ug/mL	100.4	<3.00e-02	17.00	16.80	16.90	1.18	105.0	1.200	N/A
S967001110		Phosphorus-ICP-Acid Dtl.	ug/mL	102.2	<1.00e-01	<6.00e-01	<6.00e-01	<6.00e-01	N/A	94.20	6.00e-01	N/A
S967001110		Lead-ICP-Acid Dtl.	ug/mL	96.60	<6.00e-02	47.80	47.70	47.75	0.21	91.70	6.00e-01	N/A
S967001110		Sulfur-ICP-Acid Dtl.	ug/mL	98.40	<6.00e-02	<3.60e-01	<3.60e-01	<3.60e-01	N/A	97.30	3.60e-01	N/A
S967001110		Antimony-ICP-Acid Dtl.	ug/mL	99.20	<1.00e-01	6.87e-01	7.16e-01	7.02e-01	4.13	113.9	6.00e-01	N/A
S967001110		Selenium-ICP-Acid Dtl.	ug/mL	98.80	<5.00e-02	33.20	33.30	33.25	0.30	321.6	3.00e-01	N/A
S967001110		Silicon-ICP-Acid Dtl.	ug/mL	100.8	<1.00e-02	<6.00e-01	<6.00e-01	<6.00e-01	N/A	99.30	6.00e-01	N/A
S967001110		Samarium-ICP-Acid Dtl.	ug/mL	101.8	<1.00e-02	<6.00e-02	<6.00e-02	<6.00e-02	N/A	103.3	6.00e-02	N/A
S967001110		Strontium-ICP-Acid Dtl.	ug/mL	99.00	<1.00e-02	<6.00e-02	<6.00e-02	<6.00e-02	N/A	98.80	6.00e-02	N/A
S967001110		Titanium-ICP-Acid Dtl.	ug/mL	98.20	<2.00e-01	<1.200	<1.200	<1.200	N/A	79.70	1.200	N/A
S967001110		Thallium-ICP-Acid Dtl.	ug/mL	99.20	<5.00e-01	<3.000	<3.000	<3.000	N/A	102.5	3.000	N/A
S967001110		Uranium-ICP-Acid Dtl.	ug/mL	102.2	<5.00e-02	<3.00e-01	<3.00e-01	<3.00e-01	N/A	102.3	3.00e-01	N/A
S967001110		Vanadium-ICP-Acid Dtl.	ug/mL	101.6	<1.00e-02	1.160	1.150	1.163	2.62	96.90	6.00e-02	N/A
S967001110		Zinc-ICP-Acid Dtl.	ug/mL	100.8	<1.00e-02	<6.00e-02	<6.00e-02	<6.00e-02	N/A	100.0	6.00e-02	N/A
S967001110		Fluoride-IC-Dioxex 4000/4500	ug/mL	96.61	<1.30e-02	15.58	15.90	15.74	1.90	94.75	7.878	N/A
S967001110		Chloride-IC-Dioxex 4000/4500	ug/mL	98.10	<1.70e-02	77.16	78.60	77.83	1.80	86.33	10.30	N/A
S967001110		Nitrite-IC - Dioxex 4000/4500	ug/mL	101.3	<1.07e-01	6.57e-02	6.62e-02	6.60e-02	2.31	88.89	64.84	N/A

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Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961001110		Bromide by Ion Chromatograph	ug/mL	98.26	<1.26e-01	6.44e+03	6.20e+03	6.32e+03	3.80	86.61	76.36	n/a
S961001110		Nitrate-IC - Dionex 40001/4500	ug/mL	95.95	3.65e-01	2.33e+03	2.33e+03	2.33e+03	0.00	85.34	84.84	n/a
S961001110		Phosphate-IC-Dionex 40001/4500	ug/mL	92.31	<1.19e-01	<72.05	250.0	n/a	n/a	88.64	72.05	n/a
S961001110		Sulfate by IC-Dionex40001/4500	ug/mL	96.67	<1.35e-01	2.35e+03	232.0	233.4	1.28	85.90	82.36	n/a
S961001110		Oxalate by IC - Dionex 40001	ug/mL	108.2	<1.05e-01	<63.63	71.90	n/a	n/a	97.02	63.63	n/a
S961001110		Alpina In Liquid Samples	ug/mL	112.5	<4.45e-05	<4.30e-05	<4.54e-5	n/a	n/a	98.05	1.09e+04	5.00e+02
S9610020334		DSC Exotherm using Mettler	Joules/g	110.7	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S9610020334		% Water by TGA using Mettler	%	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S9610020334		TIC by Acid/Coulometry	ug/mL	100.1	n/a	98.17	98.16	98.16	0.03	n/a	n/a	n/a
S9610020334		TOC by Persulfate/Coulometry	ug/mL	n/a	n/a	2.96e+02	270.0	283.0	9.19	n/a	5.000	n/a
S9610020334		Srionium-87/90 High Level	uc1/mL	98.37	2.39e-04	3.81e-04	5.06e-04	4.42e-04	27.8	n/a	40.00	n/a
S9610020334		Fluoride-IC-Dionex 40001/4500	ug/mL	101.0	<1.30e-02	14.88	16.30	16.49	2.76	121.2	2.613	n/a
S9610020334		Chloride-IC-Dionex 40001/4500	ug/mL	95.32	<1.70e-02	70.88	71.30	71.08	0.56	95.70	3.417	n/a
S9610020334		Nitrite-IC - Dionex 40001/4500	ug/mL	100.2	<1.07e-01	6.58e+03	628.0	631.5	1.11	104.5	21.51	n/a
S9610020334		Bromide by Ion Chromatograph	ug/mL	99.63	<1.68e-01	7.88e+03	7.63e+03	7.50e+03	2.00	86.61	25.33	n/a
S9610020334		Nitrate-IC - Dionex 40001/4500	ug/mL	96.74	<1.63e-01	2.23e+03	2.75e+03	2.70e+03	2.22	107.0	28.14	n/a
S9610020334		Phosphate-IC - Dionex 40001/4500	ug/mL	100.3	<1.19e-01	52.10	43.03	51.75	1.35	97.62	23.90	n/a
S9610020334		Sulfate by IC-Dionex40001/4500	ug/mL	98.26	<1.36e-01	1.03e+00	128.0	133.2	7.20	96.04	27.32	n/a
S9610020334		Oxalate by IC - Dionex 40001	ug/mL	99.41	<1.05e-01	53.76	50.30	52.03	6.72	97.05	21.11	n/a

A Top Quarter of Segment: A Top Quarter of Segment

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961001045		Bulk Density of Sample	g/mL	n/a	n/a	1.5	n/a	0.00e+00	0.00	n/a	5.00e+01	n/a
S961001059		DSC Exotherm using Mettler	Joules/g	112.5	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S961001059		% Water by TGA using Mettler	%	100.1	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S961001059		TIC by Acid/Coulometry	ug/g	88.90	8.00e-02	1.46e+03	1.51e+03	1.56e+03	5.79	n/a	5.000	n/a
S961001059		TOC by Persulfate/Coulometry	ug/g	92.83	<1.37e-01	9.91e+02	1.87e+03	2.79e+03	4.07	n/a	150.3	n/a
S961001078		Fluoride-IC-Dionex 40001/4500	ug/g	92.37	<1.30e-02	5.81e+02	2.92e+03	2.90e+03	1.38	n/a	197.2	n/a
S961001078		Chloride-IC-Dionex 40001/4500	ug/g	94.42	<1.07e-02	2.88e+03	3.03e+03	3.06e+03	1.96	n/a	1.24e+03	n/a
S961001078		Nitrite-IC - Dionex 40001/4500	ug/g	96.04	<1.28e-01	1.44e+03	4.15e+03	4.74e+03	0.00	n/a	1.62e+03	n/a
S961001078		Bromide by Ion Chromatograph	ug/g	96.04	<1.28e-01	4.74e+03	4.74e+03	4.74e+03	0.00	n/a	1.62e+03	n/a
S961001078		Nitrate by IC-Dionex40001/4500	ug/g	96.95	<1.19e-01	4.31e+04	4.04e+04	4.17e+04	6.47	n/a	1.38e+03	n/a
S961001078		Phosphate-IC-Dionex 40001/4500	ug/g	96.73	<1.19e-01	3.83e+03	3.83e+03	3.95e+03	6.32	n/a	1.58e+03	n/a
S961001078		Sulfate by IC-Dionex40001/4500	ug/g	96.73	<1.36e-01	1.89e+03	2.07e+03	1.98e+03	9.09	n/a	1.22e+03	n/a
S961001078		Oxalate by IC - Dionex 40001	ug/g	100.0	<1.00e-02	3.13e+03	12.40	13.15	8.37	n/a	5.180	n/a
S961001087		A Silver -ICP-Acid Digest	ug/g	94.30	<1.00e-02	7.56e+03	7.28e+03	7.42e+03	3.77	n/a	25.90	n/a
S961001087		Aluminum -ICP-Acid Digest	ug/g	95.40	<1.43e-01	51.80	65.60	58.70	10.3	n/a	51.80	n/a
S961001087		Arsenic -ICP-Acid Digest	ug/g	97.60	<1.00e-01	<1.80	<5.60	90.25	n/a	n/a	25.90	n/a
S961001087		Boron -ICP-Acid Digest	ug/g	103.8	6.37e-02	<3.70	<3.28e0	n/a	n/a	n/a	25.90	n/a
S961001087		Barium -ICP-Acid Digest	ug/g	95.60	<5.00e-02	<3.50	<3.58e0	n/a	n/a	n/a	25.90	n/a
S961001087		Beryllium -ICP-Acid Digest	ug/g	107.2	<5.00e-02	<2.50	<2.58e0	n/a	n/a	n/a	25.90	n/a
S961001087		Bismuth -ICP-Acid Digest	ug/g	95.40	<1.00e-01	<5.10	<5.56e0	n/a	n/a	n/a	25.90	n/a
S961001087		Calcium -ICP-Acid Digest	ug/g	97.60	<2.87e-01	2.71e+02	253.0	262.0	6.87	n/a	25.90	n/a
S961001087		Cadmium -ICP-Acid Digest	ug/g	94.60	<5.00e-03	<2.90	<3.28e0	n/a	n/a	n/a	25.90	n/a
S961001087		Cerium -ICP-Acid Digest	ug/g	100.2	<1.00e-01	<3.80	<4.26e1	n/a	n/a	n/a	51.80	n/a
S961001087		Cobalt -ICP-Acid Digest	ug/g	96.80	<2.00e-02	<10.40	<11.16e1	n/a	n/a	n/a	10.40	n/a
S961001087		Chromium -ICP-Acid Digest	ug/g	95.20	<1.00e-02	2.59e+03	2.39e+03	2.47e+03	9.72	n/a	5.180	n/a

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Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961001087	A	Copper -ICP-Acid Digest	ug/g	94.40	2.80e-02	< 5.180	<6.5660	n/a	n/a	n/a	5.180	n/a
S961001087	A	Iron -ICP-Acid Digest	ug/g	95.00	7.10e-02	8.07e-02	752.5	752.5	13.2	n/a	25.90	n/a
S961001087	A	Potassium -ICP-Acid Digest	ug/g	95.20	<5.00e-01	6.70e-02	530.0	600.0	23.3	n/a	259.0	n/a
S961001087	A	Lanthanum -ICP-Acid Digest	ug/g	97.40	<5.00e-02	< 25.90	<3.28e1	n/a	n/a	n/a	25.90	n/a
S961001087	A	Lithium -ICP-Acid Digest	ug/g	95.60	<1.00e-02	8.080	8.170	8.125	1.11	n/a	5.180	n/a
S961001087	A	Magnesium -ICP-Acid Digest	ug/g	90.80	<1.00e-01	60.90	<6.56e1	n/a	n/a	n/a	51.80	n/a
S961001087	A	Manganese -ICP-Acid Digest	ug/g	93.00	<1.00e-02	4.57e-02	404.0	430.5	12.3	n/a	5.180	n/a
S961001087	A	Molybdenum -ICP-Acid Digest	ug/g	95.00	<5.00e-02	< 25.90	<3.28e1	n/a	n/a	n/a	25.90	n/a
S961001087	A	Sodium -ICP-Acid Digest	ug/g	113.8	1.190	1.81e+05	1.80e+05	1.80e+05	0.55	n/a	51.80	n/a
S961001087	A	Neodymium -ICP-Acid Digest	ug/g	96.40	<1.00e-01	< 51.80	<6.56e1	n/a	n/a	n/a	51.80	n/a
S961001087	A	Nickel -ICP-Acid Digest	ug/g	96.40	<2.00e-02	27.10	27.50	27.30	1.47	n/a	10.40	n/a
S961001087	A	Phosphorus -ICP-Acid Digest	ug/g	96.80	<2.00e-01	1.12e+04	1.08e+04	1.10e+04	3.64	n/a	104.0	n/a
S961001087	A	Lead -ICP-Acid Digest	ug/g	92.60	<1.00e-01	65.10	<6.56e1	n/a	n/a	n/a	51.80	n/a
S961001087	A	Sulfur -ICP-Acid Digest	ug/g	94.00	<1.00e-01	4.61e-02	416.0	436.5	10.3	n/a	51.80	n/a
S961001087	A	Antimony -ICP-Acid Digest	ug/g	96.60	<6.00e-02	< 31.10	<3.94e1	n/a	n/a	n/a	31.10	n/a
S961001087	A	Selenium -ICP-Acid Digest	ug/g	91.60	<1.00e-01	< 51.80	<6.56e1	n/a	n/a	n/a	51.80	n/a
S961001087	A	Silicon -ICP-Acid Digest	ug/g	138.2	6.50e-01	1.48e-02	133.0	140.5	10.7	n/a	25.90	n/a
S961001087	A	Samarium -ICP-Acid Digest	ug/g	94.80	<1.00e-01	< 51.80	<6.56e1	n/a	n/a	n/a	51.80	n/a
S961001087	A	Strontium -ICP-Acid Digest	ug/g	95.00	<1.00e-02	< 5.180	<6.56e0	n/a	n/a	n/a	5.180	n/a
S961001087	A	Titanium -ICP-Acid Digest	ug/g	88.80	<2.00e-01	< 5.180	<6.56e0	n/a	n/a	n/a	5.180	n/a
S961001087	A	Thallium -ICP-Acid Digest	ug/g	91.00	<2.00e-01	<1.04e-02	<1.31e2	n/a	n/a	n/a	104.0	n/a
S961001087	A	Uranium -ICP-Acid Digest	ug/g	92.50	<5.00e-01	<2.59e-02	<3.28e2	n/a	n/a	n/a	259.0	n/a
S961001087	A	Vanadium -ICP-Acid Digest	ug/g	93.80	<5.00e-02	< 25.90	<3.28e1	n/a	n/a	n/a	25.90	n/a
S961001087	A	Zinc -ICP-Acid Digest	ug/g	92.20	1.80e-02	54.60	45.60	50.10	18.0	n/a	5.180	n/a
S961001087	A	Zirconium -ICP-Acid Digest	ug/g	101.8	<1.00e-02	< 5.180	<6.56e0	n/a	n/a	n/a	5.180	n/a
S961001096	F	Alpha of Digested Solid	uCi/g	119.5	<7.05e-03	1.83e-01	1.83e-01	1.83e-01	0.00	n/a	9.00e-03	1.41E-01

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CORE NUMBER: 134
SEGMENT #: 58

U-107 Final Report
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SEGMENT PORTION: Drainable Liquid

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count	Err%
S961001107		Specific Gravity	Sp.G.	97.74	N/A	1.437	1.419	1.428	1.26	N/A	1.00e-03		N/A
S961001119		DSC Exotherm Dry	Joules/g Dry	N/A	N/A	0.00e+00	0.00e+00	0.00e+00	0.00	N/A	N/A		N/A
S961001119		DSC Exotherm on Perkin Elmer	Joules/g	97.64	N/A	0.00e+00	0.00e+00	0.00e+00	0.00	N/A	N/A		N/A
S961001119		OH- by Pot. Titration	mg/ml	96.15	<42.00	2.59e+04	2.56e+04	2.58e+04	1.17	N/A	1.25e+03		N/A
S961001119		pH Direct	pH	N/A	N/A	12.82	12.87	12.84	0.39	N/A	1.00e-02		N/A
S961001119		% Water by IGA on Perkin Elmer	%	99.61	N/A	51.01	51.14	51.08	0.25	N/A	N/A		N/A
S961001119		TIC by Acid/Coulometry	ug/ml	97.51	8.00e-01	2.17e+03	2.29e+03	2.23e+03	5.38	102.0	5.000		N/A
S961001119		TOC by Persulfate/Coulometry	ug/ml	88.33	6.200	3.67e+03	3.71e+03	3.69e+03	1.08	93.00	40.00		N/A
S961001119		Strontium-89/90 High Level	uCi/mL	100.4	1.00e-03	7.53e-01	7.53e-01	7.52e-01	0.27	N/A	2.82e-04		7.65E-01
S961001119		D Silver-ICP-Acid Dil.	ug/ml	102.4	<1.00e-02	16.10	16.00	16.05	0.62	50.80	60.10		N/A
S961001119		D Aluminum-ICP-Acid Dil.	ug/ml	99.00	<5.00e-02	2.70e+04	2.68e+04	2.69e+04	0.74	22.00	30.10		N/A
S961001119		D Arsenic-ICP-Acid Dil.	ug/ml	102.8	<1.00e-01	60.10	60.01e1	60.00	N/A	99.40	30.10		N/A
S961001119		D Boron-ICP-Acid Dil.	ug/ml	100.6	<5.00e-02	79.50	78.20	78.85	1.65	102.3	30.10		N/A
S961001119		D Barium-ICP-Acid Dil.	ug/ml	103.6	<5.00e-02	30.10	30.01e1	30.00	N/A	104.9	30.10		N/A
S961001119		D Beryllium-ICP-Acid Dil.	ug/ml	104.0	<5.00e-03	3.000	3.00e0	3.00	N/A	104.7	30.00		N/A
S961001119		D Bismuth-ICP-Acid Dil.	ug/ml	102.8	<1.00e-01	86.00	83.10	84.55	3.43	104.9	60.10		N/A
S961001119		D Cadmium-ICP-Acid Dil.	ug/ml	103.4	<1.00e-03	3.000	3.00e0	3.00	N/A	102.4	30.00		N/A
S961001119		D Cerium-ICP-Acid Dil.	ug/ml	105.2	<1.00e-01	60.10	60.01e1	60.00	N/A	108.4	60.10		N/A
S961001119		D Cobalt-ICP-Acid Dil.	ug/ml	102.4	<2.00e-02	12.00	12.00e1	12.00	N/A	102.4	12.00		N/A
S961001119		D Chromium-ICP-Acid Dil.	ug/ml	103.2	<1.00e-02	1.64e+02	1.64e+02	1.64e+02	0.00	103.1	6.010		N/A
S961001119		D Copper-ICP-Acid Dil.	ug/ml	104.2	<1.00e-02	6.010	6.01e0	6.01	N/A	106.7	6.010		N/A
S961001119		D Iron-ICP-Acid Dil.	ug/ml	102.2	<5.00e-02	30.10	30.01e1	30.00	N/A	103.8	30.10		N/A
S961001119		D Potassium-ICP-Acid Dil.	ug/ml	101.6	<5.00e-01	3.64e+03	3.63e+03	3.64e+03	0.28	85.70	300.0		N/A
S961001119		D Lanthanum-ICP-Acid Dil.	ug/ml	103.4	<5.00e-02	30.10	30.01e1	30.00	N/A	106.4	30.10		N/A
S961001119		D Lithium-ICP-Acid Dil.	ug/ml	103.2	<1.00e-02	6.010	6.01e0	6.01	N/A	105.4	6.010		N/A
S961001119		D Magnesium-ICP-Acid Dil.	ug/ml	98.20	<1.00e-02	6.010	6.01e0	6.01	N/A	98.40	60.10		N/A
S961001119		D Manganese-ICP-Acid Dil.	ug/ml	100.8	<1.00e-02	6.010	6.01e0	6.01	N/A	98.40	6.010		N/A
S961001119		D Molybdenum-ICP-Acid Dil.	ug/ml	102.2	<5.00e-02	1.01e+02	1.01e+02	1.01e+02	0.00	103.9	6.010		N/A
S961001119		D Sodium-ICP-Acid Dil.	ug/ml	100.6	<1.00e-01	2.26e+05	2.25e+05	2.26e+05	0.44	N/A	60.10		N/A
S961001119		D Neodymium-ICP-Acid Dil.	ug/ml	104.6	<1.00e-01	60.10	60.01e1	60.00	N/A	107.9	60.10		N/A
S961001119		D Nickel-ICP-Acid Dil.	ug/ml	101.4	<2.00e-02	14.50	14.80	14.65	2.05	101.3	12.00		N/A
S961001119		D Phosphorus-ICP-Acid Dil.	ug/ml	100.4	<2.00e-01	1.08e+03	1.08e+03	1.08e+03	0.00	101.0	120.0		N/A
S961001119		D Lead-ICP-Acid Dil.	ug/ml	102.2	<1.00e-01	60.10	60.01e1	60.00	N/A	103.9	60.10		N/A
S961001119		D Antimony-ICP-Acid Dil.	ug/ml	99.00	<1.00e-01	1.50e+03	1.47e+03	1.48e+03	2.02	94.80	60.10		N/A
S961001119		D Selenium-ICP-Acid Dil.	ug/ml	96.60	<6.00e-02	36.10	36.01e1	36.00	N/A	99.10	36.10		N/A
S961001119		D Silicon-ICP-Acid Dil.	ug/ml	99.20	<1.00e-01	60.10	60.01e1	60.00	N/A	101.6	60.10		N/A
S961001119		D Samarium-ICP-Acid Dil.	ug/ml	96.80	<5.00e-02	2.10e+02	1.85e+02	1.97e+02	12.7	91.80	30.10		N/A
S961001119		D Strontium-ICP-Acid Dil.	ug/ml	100.8	<1.00e-01	60.10	60.01e1	60.00	N/A	100.9	60.10		N/A
S961001119		D Tantalum-ICP-Acid Dil.	ug/ml	101.8	<1.00e-02	6.010	6.01e0	6.01	N/A	104.7	6.010		N/A
S961001119		D Titanium-ICP-Acid Dil.	ug/ml	99.00	<2.00e-02	6.010	6.01e0	6.01	N/A	100.9	6.010		N/A
S961001119		D Thallium-ICP-Acid Dil.	ug/ml	98.20	<1.00e-01	1.20e+02	1.20e+02	1.20e+02	N/A	98.10	120.0		N/A
S961001119		D Uranium-ICP-Acid Dil.	ug/ml	99.20	<5.00e-01	3.00e+02	3.00e+02	3.00e+02	N/A	97.10	300.0		N/A

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Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk	Rec %	Det Limit	Count Err%
S96T001119	D	Vanadium-ICP-Acid Dil.	ug/mL	102.2	<5.00e-02	< 30.10	<3.01e1	n/a	n/a	n/a	102.9	30.10	n/a
S96T001119	D	Zinc-ICP-Acid Dil.	ug/mL	101.6	<1.00e-02	15.20	15.20	15.10	1.32	n/a	102.4	6.010	n/a
S96T001119	D	Zirconium-ICP-Acid Dil.	ug/mL	100.8	<1.00e-02	< 6.010	<6.01e0	n/a	n/a	n/a	102.1	6.010	n/a
S96T001119		Fluoride-IC-Dionex 40001/4500	ug/mL	100.7	<1.30e-02	< 66.96	<6.70e1	n/a	n/a	n/a	29.83	66.96	n/a
S96T001119		Chloride-IC-Dionex 40001/4500	ug/mL	92.53	<1.70e-02	8.81e+03	8.94e+03	8.87e+03	1.46	n/a	90.76	87.57	n/a
S96T001119		Nitrite-IC - Dionex 40001/4500	ug/mL	97.26	<1.07e-01	1.06e+05	1.09e+05	1.08e+05	2.79	n/a	102.2	551.2	n/a
S96T001119		Bromide by Ion Chromatograph	ug/mL	99.48	<1.26e-01	4.06e+03	4.08e+03	4.07e+03	0.49	n/a	93.74	649.0	n/a
S96T001119		Nitrate-IC - Dionex 40001/4500	ug/mL	101.3	<1.40e-01	2.27e+05	2.25e+05	2.26e+05	0.88	n/a	76.55	721.1	n/a
S96T001119		Phosphate-IC-Dionex 40001/4500	ug/mL	101.3	<1.19e-01	2.90e+03	3.08e+03	2.99e+03	6.02	n/a	93.77	612.5	n/a
S96T001119		Sulfate by IC-Dionex40001/4500	ug/mL	101.6	<1.36e-01	3.28e+03	3.17e+03	3.23e+03	3.41	n/a	96.83	700.0	n/a
S96T001119		Oxalate by IC - Dionex 40001	ug/mL	103.1	<1.05e-01	<5.41e02	<5.41e2	n/a	n/a	n/a	99.22	540.9	n/a
S96T001119		Alpha In Liquid Samples	uc/mL	112.5	<4.45e-05	5.36e-03	<4.94E-3	n/a	n/a	n/a	n/a	5.00e-03	7.34E+01

CORE NUMBER: 134
SEGMENT #: 6A

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U-107

SEGMENT PORTION: Limer Liquid

Sample#	R	AA	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961001120			DSC Exotherm Dry	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S961001120			DSC Exotherm on Perkin Elmer	Joules/g	97.64	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S961001120			OH- by Pot. Titration	ug/mL	96.15	<4e-01	6.14e+03	6.24e+03	6.19e+03	1.62	n/a	1.25e+03	n/a
S961001120			pH Direct	pH	n/a	n/a	12.64	12.58	12.61	0.48	n/a	1.00e-02	n/a
S961001120			% Water by TGA on Perkin Elmer	%	99.61	n/a	89.27	89.10	89.19	0.19	n/a	n/a	n/a
S961001120			TIC by Acid/Coulometry	ug/mL	97.51	8.00e-01	8.74e+02	437.0	655.5	66.7	n/a	5.000	n/a
S961001120			TOC by Persulfate/Coulometry	ug/mL	88.33	6.200	1.92e+03	1.66e+03	1.79e+03	14.5	n/a	40.00	n/a
S961001120			Strontium-89/90 High Level	uCi/mL	102.4	1.00e-03	2.60e-03	5.14e-03	3.87e-03	65.6	n/a	2.75e-04	1.48E+01
S961001120			D Silver-TCF-Acid Dtl.	ug/mL	100.4	<1.00e-02	2.030	2.140	2.085	5.28	6.100	1.010	n/a
S961001120			D Aluminum-ICP-Acid Dtl.	ug/mL	99.00	<5.00e-02	3.96e+02	393.0	394.5	0.76	98.30	5.050	n/a
S961001120			D Arsenic-ICP-Acid Dtl.	ug/mL	102.8	<1.00e-01	< 10.10	<1.01e1	25.10	0.40	101.7	5.050	n/a
S961001120			D Boron-ICP-Acid Dtl.	ug/mL	100.6	<5.00e-02	< 5.050	<5.05e0	n/a	n/a	104.9	5.050	n/a
S961001120			D Barium-TCF-Acid Dtl.	ug/mL	103.6	<5.00e-03	<5.05e-01	<5.05e-1	n/a	n/a	103.0	10.10	n/a
S961001120			D Beryllium-ICP-Acid Dtl.	ug/mL	102.8	<1.00e-01	< 10.10	<1.01e1	29.30	3.36	102.7	10.10	n/a
S961001120			D Bismuth-ICP-Acid Dtl.	ug/mL	103.4	<1.00e-01	< 10.10	<1.01e1	n/a	n/a	101.0	5.05e-01	n/a
S961001120			D Cadmium-ICP-Acid Dtl.	ug/mL	102.0	<5.00e-03	<5.05e-01	<5.05e-1	n/a	n/a	106.9	10.10	n/a
S961001120			D Cerium-TCF-Acid Dtl.	ug/mL	105.2	<1.00e-01	< 10.10	<1.01e1	n/a	n/a	103.0	1.010	n/a
S961001120			D Cobalt-TCF-Acid Dtl.	ug/mL	102.4	<2.00e-02	< 2.020	<2.02e0	7.975	1.13	105.7	1.010	n/a
S961001120			D Chromium-TCF-Acid Dtl.	ug/mL	103.2	<1.00e-02	7.930	8.020	3.920	16.3	102.0	5.050	n/a
S961001120			D Copper-TCF-Acid Dtl.	ug/mL	104.2	<1.00e-02	4.240	<5.05e0	506.5	0.59	82.70	50.50	n/a
S961001120			D Iron-TCF-Acid Dtl.	ug/mL	102.2	<5.00e-02	< 5.050	<5.05e0	n/a	n/a	105.9	5.050	n/a
S961001120			D Potassium-ICP-Acid Dtl.	ug/mL	101.6	<5.00e-01	5.08e+02	<5.05e0	1.68e+03	0.59	98.80	1.010	n/a
S961001120			D Lanthanum-ICP-Acid Dtl.	ug/mL	103.4	<1.00e-02	< 10.10	<1.01e1	n/a	n/a	98.00	10.10	n/a
S961001120			D Lithium-ICP-Acid Dtl.	ug/mL	98.20	<1.00e-01	< 10.10	<1.01e1	n/a	n/a	97.50	5.050	n/a
S961001120			D Magnesium-ICP-Acid Dtl.	ug/mL	100.8	<1.00e-02	< 1.010	<1.01e0	15.60	1.29	102.6	1.010	n/a
S961001120			D Manganese-TCF-Acid Dtl.	ug/mL	102.2	<5.00e-02	15.40	<5.05e0	2.89e+04	0.69	n/a	10.10	n/a
S961001120			D Molybdenum-TCF-Acid Dtl.	ug/mL	100.6	<1.00e-01	2.90e+04	<1.01e1	3.955	10.4	101.3	20.20	n/a
S961001120			D Sodium-TCF-Acid Dtl.	ug/mL	104.6	<1.00e-01	< 10.10	<1.01e1	4.740	n/a	106.9	10.10	n/a
S961001120			D Neodymium-ICP-Acid Dtl.	ug/mL	100.4	<2.00e-02	< 2.020	<2.02e0	48.95	4.71	101.3	20.20	n/a
S961001120			D Nickel-TCF-Acid Dtl.	ug/mL	100.4	<2.00e-02	< 2.020	<2.02e0	210.5	1.43	97.30	10.10	n/a
S961001120			D Phosphorus-TCF-Acid Dtl.	ug/mL	102.2	<1.00e-01	< 10.10	<1.01e1	n/a	n/a	98.30	6.060	n/a
S961001120			D Lead-TCF-Acid Dtl.	ug/mL	99.00	<1.00e-01	2.09e+02	<6.06e0	n/a	n/a	102.0	10.10	n/a
S961001120			D Sulfur-TCF-Acid Dtl.	ug/mL	96.60	<6.00e-02	< 6.060	<6.06e0	n/a	n/a	134.7	5.050	n/a
S961001120			D Antimony-TCF-Acid Dtl.	ug/mL	99.20	<1.00e-01	< 10.10	<1.01e1	140.0	2.86	100.0	10.10	n/a
S961001120			D Selenium-TCF-Acid Dtl.	ug/mL	96.80	<5.00e-02	1.42e+02	<1.01e0	n/a	n/a	104.0	1.010	n/a
S961001120			D Silicon-TCF-Acid Dtl.	ug/mL	100.8	<1.00e-02	< 10.10	<1.01e1	n/a	n/a	100.0	10.10	n/a
S961001120			D Samarium-TCF-Acid Dtl.	ug/mL	101.8	<1.00e-02	< 1.010	<1.01e0	n/a	n/a	104.0	1.010	n/a
S961001120			D Strontium-TCF-Acid Dtl.	ug/mL	99.00	<1.00e-02	< 1.010	<1.01e0	n/a	n/a	95.20	20.20	n/a
S961001120			D Titanium-TCF-Acid Dtl.	ug/mL	98.20	<2.00e-01	< 20.20	<2.02e1	n/a	n/a	96.05	50.50	n/a
S961001120			D Thallium-TCF-Acid Dtl.	ug/mL	99.20	<5.00e-01	< 50.50	<5.05e1	n/a	n/a	102.0	5.050	n/a
S961001120			D Uranium-TCF-Acid Dtl.	ug/mL	102.2	<5.00e-02	< 5.050	<5.05e0	n/a	n/a	102.0	5.050	n/a
S961001120			D Vanadium-TCF-Acid Dtl.	ug/mL	102.2	<5.00e-02	< 5.050	<5.05e0	n/a	n/a	102.0	5.050	n/a

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Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
5965001120	D	Zinc-ICP-Acid Dili.	ug/mL	101.6	<1.00e-02	6.460	6.000	6.230	7.38	100.5	1.010	n/a
5965001120	D	Zirconium-ICP-Acid Dili.	ug/mL	100.8	<1.00e-02	< 1.010	<1.010	n/a	n/a	101.0	1.010	n/a
5965001120	D	Fluoride-ICP-Acid Dili.	ug/mL	96.61	<1.30e-02	< 1.27	<1.27e1	n/a	n/a	n/a	27.57	n/a
5965001120	D	Fluoride-ICP-Acid Dili.	ug/mL	96.61	<1.30e-02	< 1.27	<1.27e1	n/a	n/a	n/a	36.06	n/a
5965001120	D	Chloride-ICP-Acid Dili.	ug/mL	98.10	<1.70e-02	1.23e+03	1.23e+03	1.21e+03	3.31	n/a	226.9	n/a
5965001120	D	Nitrite-IC - DioneX 40001/4500	ug/mL	101.3	<1.07e-01	1.30e+04	1.31e+04	1.31e+04	0.77	n/a	267.2	n/a
5965001120	D	Bromide by Ion Chromatograph	ug/mL	98.26	<1.26e-01	2.43e+04	2.43e+04	2.43e+04	1.24	n/a	296.9	n/a
5965001120	D	Nitrate-IC - DioneX 40001/4500	ug/mL	95.93	3.65e-01	1.80e+04	1.80e+04	1.80e+04	0.00	n/a	252.2	n/a
5965001120	D	Phosphate-IC-DioneX 40001/4500	ug/mL	92.31	<1.19e-01	<2.52e+02	<2.52e+02	775.7	1.93	n/a	288.2	n/a
5965001120	D	Sulfate by IC-DioneX40001/4500	ug/mL	96.67	<1.36e-01	<2.23e+02	<2.23e+02	291.0	n/a	n/a	222.7	n/a
5965001120	D	Oxalate by IC - DioneX 40001	ug/mL	103.2	<1.05e-01	<2.25e-03	<2.25e-03	n/a	n/a	n/a	5.00e+02	n/a
5965001120	D	Alpha in Liquid Samples	ug/mL	112.5	<4.45e-05	<2.25e-03	<2.25e-03	n/a	n/a	n/a	5.00e+02	n/a

W Whole Segment: W Whole Segment

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
5965001046	A	Bulk Density of Sample	g/mL	n/a	n/a	1.100	n/a	n/a	n/a	n/a	5.00e-01	n/a
5965001070	A	DSC Exotherm using Mettler	Joules/g	113.9	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
5965001070	A	DSC Exotherm DRY Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
5965001070	A	% Water by TGA using Mettler	ug/g	102.9	8.00e-01	91.44	91.02	91.23	0.46	n/a	n/a	n/a
5965001070	A	TIC by Acid/Coulometry	ug/g	99.83	8.00e-01	8.62e+02	836.0	849.0	3.06	104.0	5.000	n/a
5965001070	A	TIC by Persulfate/Coulometry	ug/g	88.00	3.700	1.21e+03	1.24e+03	1.22e+03	2.45	105.0	40.00	n/a
5965001070	A	Fluoride-IC-DioneX 40001/4500	ug/g	90.17	<1.30e-02	< 16.49	<1.63e1	n/a	n/a	64.92	16.49	n/a
5965001079	A	Chloride-IC-DioneX 40001/4500	ug/g	95.57	<1.70e-02	9.78e+02	991.0	984.5	1.32	102.7	21.56	n/a
5965001079	A	Nitrite-IC - DioneX 40001/4500	ug/g	97.22	<1.07e-01	9.60e+03	9.53e+03	9.57e+03	0.73	107.3	135.7	n/a
5965001079	A	Bromide by Ion Chromatograph	ug/g	96.87	<1.26e-01	2.30e+04	2.32e+04	2.31e+04	0.87	107.5	159.8	n/a
5965001079	A	Nitrate by IC-DioneX40001/4500	ug/g	98.86	<1.40e-01	1.42e+04	1.50e+04	1.46e+04	5.48	96.91	177.5	n/a
5965001079	A	Phosphate-IC-DioneX 40001/4500	ug/g	94.69	<1.19e-01	7.79e+02	832.0	805.3	6.58	90.48	150.8	n/a
5965001079	A	Sulfate by IC-DioneX40001/4500	ug/g	98.73	<1.36e-01	5.92e+02	550.0	570.9	7.36	94.45	172.4	n/a
5965001079	A	Oxalate by IC - DioneX 40001	ug/g	100.0	<1.05e-01	<1.33e+02	<1.32e2	n/a	n/a	100.7	133.2	n/a
5965001088	A	Silver - ICP-Acid Digest	ug/g	94.50	<1.00e-02	< 1.810	<1.90e0	n/a	n/a	n/a	1.810	n/a
5965001088	A	Aluminum - ICP-Acid Digest	ug/g	95.40	1.43e-01	5.32e+03	5.18e+03	5.25e+03	2.67	n/a	9.060	n/a
5965001088	A	Arsenic - ICP-Acid Digest	ug/g	97.60	<1.00e-01	< 18.90	<1.90e1	n/a	n/a	n/a	18.10	n/a
5965001088	A	Boron - ICP-Acid Digest	ug/g	103.8	6.37e-01	24.90	91.20	58.05	114	n/a	9.060	n/a
5965001088	A	Barium - ICP-Acid Digest	ug/g	95.60	<5.00e-02	< 9.060	<9.49e0	n/a	n/a	n/a	9.060	n/a
5965001088	A	Beryllium - ICP-Acid Digest	ug/g	107.2	<5.00e-03	<9.49e-1	<9.49e-1	n/a	n/a	n/a	9.06e-01	n/a
5965001088	A	Bismuth - ICP-Acid Digest	ug/g	95.40	<1.00e-01	< 18.10	<1.90e1	n/a	n/a	n/a	18.10	n/a
5965001088	A	Calcium - ICP-Acid Digest	ug/g	97.60	2.87e-01	1.10e+02	123.0	116.5	11.2	n/a	18.10	n/a
5965001088	A	Cadmium - ICP-Acid Digest	ug/g	94.60	<5.00e-03	<9.49e-1	<9.49e-1	n/a	n/a	n/a	9.06e-01	n/a
5965001088	A	Cerium - ICP-Acid Digest	ug/g	100.2	<1.00e-01	< 18.10	<1.90e1	n/a	n/a	n/a	18.10	n/a
5965001088	A	Cobalt - ICP-Acid Digest	ug/g	96.80	<2.00e-02	< 3.620	<3.80e0	n/a	n/a	n/a	3.620	n/a
5965001088	A	Chromium - ICP-Acid Digest	ug/g	95.20	1.00e-02	46.50	47.00	46.75	1.07	n/a	1.810	n/a
5965001088	A	Copper - ICP-Acid Digest	ug/g	94.40	2.80e-02	3.410	5.710	4.560	50.4	n/a	1.810	n/a
5965001088	A	Iron - ICP-Acid Digest	ug/g	95.00	7.10e-02	1.21e+02	116.0	118.5	4.22	n/a	9.060	n/a
5965001088	A	Potassium - ICP-Acid Digest	ug/g	95.20	<5.00e-01	1.73e+02	200.0	186.5	14.5	n/a	90.60	n/a
5965001088	A	Lanthanum - ICP-Acid Digest	ug/g	97.40	<5.00e-02	< 9.060	<9.49e0	n/a	n/a	n/a	9.060	n/a
5965001088	A	Lithium - ICP-Acid Digest	ug/g	90.80	<1.00e-01	1.83e+03	1.90e+03	1.86e+03	3.75	n/a	1.810	n/a
5965001088	A	Magnesium - ICP-Acid Digest	ug/g	90.60	<1.00e-01	< 18.10	<1.90e1	n/a	n/a	n/a	18.10	n/a
5965001088	A	Manganese - ICP-Acid Digest	ug/g	93.00	<1.00e-02	< 21.00	<2.20e1	20.35	6.39	n/a	1.810	n/a
5965001088	A	Molybdenum - ICP-Acid Digest	ug/g	95.00	<5.00e-02	< 9.060	<9.49e0	n/a	n/a	n/a	9.060	n/a
5965001088	A	Sodium - ICP-Acid Digest	ug/g	113.8	1.190	1.32e+04	1.44e+04	1.38e+04	8.70	n/a	18.10	n/a

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Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count	Err%
5961001088	A	Nickelium - ICP-Acid Digest	ug/g	96.40	< 1.00e-01	< 18.10	< 1.90e1	n/a	n/a	n/a	18.10	n/a	n/a
5961001088	A	Nickel - ICP-Acid Digest	ug/g	96.40	< 2.00e-02	< 3.620	< 3.620	n/a	n/a	n/a	3.620	n/a	n/a
5961001088	A	Phosphorus - ICP-Acid Digest	ug/g	96.80	< 2.00e-01	2.26e+02	228.0	227.0	0.88	n/a	36.20	n/a	n/a
5961001088	A	Lead - ICP-Acid Digest	ug/g	92.60	< 1.00e-01	< 18.10	< 1.90e1	n/a	n/a	n/a	18.10	n/a	n/a
5961001088	A	Sodium - ICP-Acid Digest	ug/g	92.60	< 1.00e-01	< 90.50	< 100.0	95.25	9.97	n/a	18.10	n/a	n/a
5961001088	A	Selenium - ICP-Acid Digest	ug/g	96.60	< 6.00e-02	< 10.30	< 1.4e1	n/a	n/a	n/a	10.90	n/a	n/a
5961001088	A	Silicon - ICP-Acid Digest	ug/g	91.60	< 1.00e-01	< 18.10	< 1.90e1	n/a	n/a	n/a	18.10	n/a	n/a
5961001088	A	Samarium - ICP-Acid Digest	ug/g	138.2	6.50e-01	1.25e+02	137.0	131.0	9.16	n/a	9.060	n/a	n/a
5961001088	A	Strontium - ICP-Acid Digest	ug/g	94.80	< 1.00e-01	< 18.10	< 1.90e1	n/a	n/a	n/a	18.10	n/a	n/a
5961001088	A	Titanium - ICP-Acid Digest	ug/g	95.00	< 1.00e-02	< 1.810	< 1.90e0	n/a	n/a	n/a	1.810	n/a	n/a
5961001088	A	Thallium - ICP-Acid Digest	ug/g	88.80	< 1.00e-02	< 1.810	< 1.90e0	n/a	n/a	n/a	1.810	n/a	n/a
5961001088	A	Uranium - ICP-Acid Digest	ug/g	91.00	< 2.00e-01	< 35.20	< 3.80e1	n/a	n/a	n/a	36.20	n/a	n/a
5961001088	A	Vanadium - ICP-Acid Digest	ug/g	92.50	< 5.00e-02	< 9.60	< 9.49e1	n/a	n/a	n/a	9.60	n/a	n/a
5961001088	A	Zinc - ICP-Acid Digest	ug/g	93.80	< 5.00e-02	< 9.60	< 9.49e0	n/a	n/a	n/a	9.60	n/a	n/a
5961001088	A	Zirconium - ICP-Acid Digest	ug/g	92.20	< 1.00e-02	< 12.00	< 13.60	12.80	12.5	n/a	1.810	n/a	n/a
5961001088	F	Alpha of Digested Solid	ug/g	101.8	< 1.00e-03	< 1.810	< 1.90e0	n/a	n/a	n/a	1.810	n/a	n/a
5961001097			ug/g	119.3	< 7.05e-03	1.76e-02	1.27e-02	1.52e-02	32.3	n/a	4.00e-03	3.46e+01	n/a

Drainable Liquid

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count	Err%
5961001121		DSC Exotherm Dry Calculated	Joules/g Dry	97.42	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a	n/a
5961001121		DSC Exotherm on Perkin Elmer	Joules/g	97.42	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a	n/a
5961001121		OH - by Pot. Titration	ug/mL	96.15	< 42.00	4.40e+03	4.43e+03	4.52e+03	3.77	n/a	1.25e+03	n/a	n/a
5961001121		pH Direct	Sp. G.	97.46	n/a	12.84	12.78	12.81	0.47	n/a	1.00e-02	n/a	n/a
5961001121		Specific Gravity	Sp. G.	97.46	n/a	1.026	1.009	1.018	1.67	n/a	1.00e-03	n/a	n/a
5961001121		A Water by IGA on Perkin Elmer	ug/mL	99.61	n/a	91.70	92.22	91.96	0.54	n/a	n/a	n/a	n/a
5961001121		TIC by Acid/Conductivity	ug/mL	100.2	6.00e-01	1.95e+02	269.0	232.5	31.4	110.0	5.000	n/a	n/a
5961001121		TIC by Persulfate/Conductivity	ug/mL	90.00	7.800	9.95e+02	1.10e+03	1.05e+03	10.2	70.00	40.000	n/a	n/a
5961001121		Strontium-87/90 Ratio Level	ug/mL	100.4	< 1.00e-03	1.33e-02	1.35e-02	1.34e-02	1.49	n/a	2.76e-04	5.87e+00	n/a
5961001121		Silver - ICP-Acid Dill.	ug/mL	100.4	< 1.00e-02	1.330	1.280	1.305	3.83	92.60	4.10e-01	n/a	n/a
5961001121		Aluminum - ICP-Acid Dill.	ug/mL	99.00	< 5.00e-02	< 81.00	< 80.80	80.90	0.25	102.5	2.050	n/a	n/a
5961001121		Arsenic - ICP-Acid Dill.	ug/mL	102.8	< 1.00e-01	< 4.100	< 4.10e0	n/a	n/a	96.60	4.100	n/a	n/a
5961001121		Boron - ICP-Acid Dill.	ug/mL	100.6	< 5.00e-02	< 18.00	< 17.80	17.90	1.12	101.6	2.050	n/a	n/a
5961001121		Beryllium - ICP-Acid Dill.	ug/mL	103.6	< 5.00e-02	< 2.050	< 2.05e0	n/a	n/a	105.1	2.050	n/a	n/a
5961001121		Bismuth - ICP-Acid Dill.	ug/mL	104.0	< 1.00e-03	< 2.05e-01	< 2.05e-01	n/a	n/a	104.9	2.05e-01	n/a	n/a
5961001121		Calcium - ICP-Acid Dill.	ug/mL	102.8	< 1.00e-01	< 4.100	< 4.10e0	n/a	n/a	104.9	4.100	n/a	n/a
5961001121		Cadmium - ICP-Acid Dill.	ug/mL	103.4	< 1.00e-03	< 17.80	< 17.60	17.70	1.13	105.2	4.100	n/a	n/a
5961001121		Cerium - ICP-Acid Dill.	ug/mL	102.0	< 5.00e-03	< 2.05e-01	< 2.05e-01	n/a	n/a	102.0	2.05e-01	n/a	n/a
5961001121		Cobalt - ICP-Acid Dill.	ug/mL	105.2	< 1.00e-01	< 4.100	< 4.10e0	n/a	n/a	108.5	4.100	n/a	n/a
5961001121		Chromium - ICP-Acid Dill.	ug/mL	102.4	< 2.00e-02	< 8.20e-01	< 8.20e-01	7.555	0.13	104.3	8.20e-01	n/a	n/a
5961001121		Copper - ICP-Acid Dill.	ug/mL	104.2	< 1.00e-02	< 4.10e-01	< 4.10e-01	3.75e-01	0.13	107.3	4.10e-01	n/a	n/a
5961001121		Iron - ICP-Acid Dill.	ug/mL	102.6	< 5.00e-02	< 2.050	< 2.05e-01	n/a	n/a	103.7	4.10e-01	n/a	n/a
5961001121		Potassium - ICP-Acid Dill.	ug/mL	101.6	< 5.00e-02	< 2.050	< 2.05e0	320.0	1.25	126.8	20.50	n/a	n/a
5961001121		Lanthanum - ICP-Acid Dill.	ug/mL	103.2	< 5.00e-02	< 2.050	< 2.05e0	1.60e+03	0.00	69.30	4.10e-01	n/a	n/a
5961001121		Lithium - ICP-Acid Dill.	ug/mL	98.28	< 1.00e-02	< 4.100	< 4.10e0	n/a	n/a	98.30	4.100	n/a	n/a
5961001121		Magnesium - ICP-Acid Dill.	ug/mL	100.8	< 1.00e-02	< 4.10e-01	< 4.10e-01	n/a	n/a	98.50	4.10e-01	n/a	n/a
5961001121		Manganese - ICP-Acid Dill.	ug/mL	102.2	< 5.00e-02	9.460	9.560	9.510	1.05	104.3	2.050	n/a	n/a
5961001121		Mo/Vibendum - ICP-Acid Dill.	ug/mL										

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Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count	Err%
S961001121	D	Sodium-ICP-Acid Dil.	ug/mL	100.6	<1.00e-01	1.86e+04	1.86e+04	1.86e+04	0.00	n/a	4.100		n/a
S961001121	D	Neodymium-ICP-Acid Dil.	ug/mL	104.6	<1.00e-01	< 4.100	<4.100	n/a	n/a	107.8	4.100		n/a
S961001121	D	Nickel-ICP-Acid Dil.	ug/mL	101.4	<2.00e-02	1.760	1.560	1.660	12.0	102.0	8.20e-01		n/a
S961001121	D	Phosphorus-ICP-Acid Dil.	ug/mL	100.4	<2.00e-01	44.10	44.10	44.10	0.00	102.0	8.200		n/a
S961001121	D	Lead-ICP-Acid Dil.	ug/mL	102.2	<1.00e-01	< 4.100	<4.100	n/a	n/a	103.9	4.100		n/a
S961001121	D	Sulfur-ICP-Acid Dil.	ug/mL	99.00	<1.00e-01	1.31e+02	141.0	136.0	7.35	139.5	4.100		n/a
S961001121	D	Antimony-ICP-Acid Dil.	ug/mL	96.60	<6.00e-02	< 2.450	<2.460	n/a	n/a	99.50	2.460		n/a
S961001121	D	Selenium-ICP-Acid Dil.	ug/mL	99.20	<1.00e-01	< 4.100	<4.100	n/a	n/a	105.6	4.100		n/a
S961001121	D	Silicon-ICP-Acid Dil.	ug/mL	100.8	<1.00e-02	1.04e+02	104.0	104.0	0.00	157.8	2.050		n/a
S961001121	D	Samarium-ICP-Acid Dil.	ug/mL	101.8	<1.00e-01	< 4.100	<4.100	n/a	n/a	101.0	4.100		n/a
S961001121	D	Strontium-ICP-Acid Dil.	ug/mL	101.8	<1.00e-02	<4.10e-01	<4.10e-1	n/a	n/a	104.6	4.10e-01		n/a
S961001121	D	Titanium-ICP-Acid Dil.	ug/mL	99.00	<1.00e-02	<4.10e-01	<4.10e-1	n/a	n/a	101.5	4.10e-01		n/a
S961001121	D	Thallium-ICP-Acid Dil.	ug/mL	98.20	<2.00e-01	< 8.200	<8.20e0	n/a	n/a	97.60	8.200		n/a
S961001121	D	Uranium-ICP-Acid Dil.	ug/mL	99.20	<5.00e-01	< 20.50	<2.05e1	n/a	n/a	98.15	20.50		n/a
S961001121	D	Vanadium-ICP-Acid Dil.	ug/mL	102.2	<5.00e-02	< 2.050	<2.05e0	n/a	n/a	103.4	2.050		n/a
S961001121	D	Zinc-ICP-Acid Dil.	ug/mL	101.6	<1.00e-02	3.010	3.430	3.220	13.0	102.4	4.10e-01		n/a
S961001121	D	Zirconium-ICP-Acid Dil.	ug/mL	100.8	<1.00e-02	<4.10e-01	<4.10e-1	n/a	n/a	102.0	4.10e-01		n/a
S961001121	D	Fluoride-IC-Dionex 40001/4500	ug/mL	96.61	<1.30e-02	< 27.57	<2.76e1	n/a	n/a	n/a	27.57		n/a
S961001121	D	Chloride-IC-Dionex 40001/4500	ug/mL	98.10	<1.70e-02	7.85e+02	781.0	783.6	0.64	n/a	36.06		n/a
S961001121	D	Nitrite-IC - Dionex 40001/4500	ug/mL	101.3	<1.07e-01	8.30e+03	8.19e+03	8.24e+03	1.33	n/a	266.9		n/a
S961001121	D	Bromide by Ion Chromatograph	ug/mL	98.26	<1.26e-01	1.92e+04	1.92e+04	1.92e+04	0.00	n/a	267.2		n/a
S961001121	D	Nitrate-IC - Dionex 40001/4500	ug/mL	95.93	3.55e-01	1.12e+04	1.15e+04	1.14e+04	2.64	n/a	296.9		n/a
S961001121	D	Phosphate-IC-Dionex 40001/4500	ug/mL	92.31	<1.19e-01	<2.52e+02	<2.52e2	n/a	n/a	n/a	252.2		n/a
S961001121	D	Sulfate by IC-Dionex40001/4500	ug/mL	96.67	<1.36e-01	6.62e+02	639.0	650.5	3.54	n/a	288.2		n/a
S961001121	D	Oxalate by IC - Dionex 40001	ug/mL	103.2	<1.05e-01	<2.23e+02	<2.23e2	n/a	n/a	n/a	222.7		n/a
S961001121	D	Alpha in Liquid Samples	uCi/mL	112.5	<4.45e-05	<2.25e-03	<2.29e-3	n/a	n/a	n/a	5.00e-03		5.00e+02

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CORE NUMBER: 134
SEGMENT #: 2

U-107 Final Report
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SEGMENT PORTION: U Upper Half of Segment

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
5945001043		Bulk Density of Sample	g/ml		n/a	1.410		n/a	n/a		5.00e-01	n/a
5945001055		DSC Exotherm DRY Calculated	Joules/g DRY		n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
5945001055		DSC Exotherm on Perkin Elmer	Joules/g	96.63	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
5945001055		% Water by TGA on Perkin Elmer	%	100.3	n/a	6.940	7.600	7.270	9.08	n/a	n/a	n/a
5945001055		TIC by Acid/Coulometry	ug/g	94.19	2.000	2.05e+03	2.23e+03	2.14e+03	8.41	83.30	5.000	n/a
5945001055		TOC by Persulfate/Coulometry	ug/g	98.33	9.00e-01	6.39e+02	895.0	767.0	33.4	103.0	40.000	n/a
5945001071		Fluoride - IC-Dioxex 40001/4500	ug/g	96.54	<1.70e-02	<2.39e+02	<2.39e+02	<2.39e+02	n/a	99.49	312.9	n/a
5945001071		Chloride - IC-Dioxex 40001/4500	ug/g	96.58	<1.70e-02	1.41e+03	1.30e+03	8.12	n/a	91.14	239.3	n/a
5945001071		Nitrate - IC - Dioxex 40001/4500	ug/g	98.78	<1.07e-01	1.62e+04	1.62e+04	1.62e+04	0.00	94.97	1.97e+03	n/a
5945001071		Nitrite by IOP Chromatograph	ug/g	95.13	<2.6e-01	<9.41e+02	<9.40e+02	n/a	n/a	88.87	941.4	n/a
5945001071		Nitrate by IC-Dioxex 40001/4500	ug/g	97.07	3.86e-01	6.50e+05	6.44e+05	6.47e+05	0.93	100.3	2.57e+03	n/a
5945001071		Phosphate by IC-Dioxex 40001/4500	ug/g	93.59	<1.19e-01	1.16e+04	1.20e+04	1.18e+04	3.39	87.55	2.19e+03	n/a
5945001071		Sulfate by IC-Dioxex 40001/4500	ug/g	98.26	<1.36e-01	6.31e+03	6.35e+03	6.33e+03	0.63	93.03	2.50e+03	n/a
5945001071		Sulfate by IC - Dioxex 40001	ug/g	100.0	<1.05e-01	<1.91e+03	2.58e+03	n/a	n/a	101.1	1.98e+03	n/a
5945001080		Silvanium - ICP-Acid Digest	ug/g	94.80	<1.00e-02	16.70	14.80	15.75	12.1	74.90	5.940	n/a
5945001080		Antimony - ICP-Acid Digest	ug/g	99.20	9.20e-02	3.09e+03	2.65e+03	2.87e+03	15.3	46.08	29.70	n/a
5945001080		Asenium - ICP-Acid Digest	ug/g	98.40	<1.00e-01	<59.40	<5.06e1	n/a	n/a	78.40	59.40	n/a
5945001080		Boron - ICP-Acid Digest	ug/g	110.6	3.17e-01	87.50	72.10	79.80	19.3	74.56	29.70	n/a
5945001080		Beryllium - ICP-Acid Digest	ug/g	97.60	<5.00e-02	<29.70	<2.53e0	n/a	n/a	75.40	29.70	n/a
5945001080		Barium - ICP-Acid Digest	ug/g	108.8	<5.00e-01	<2.970	<2.53e0	n/a	n/a	78.00	2.970	n/a
5945001080		Calcium - ICP-Acid Digest	ug/g	95.20	<1.00e-01	<59.40	<5.06e1	n/a	n/a	74.40	59.40	n/a
5945001080		Calcium - ICP-Acid Digest	ug/g	95.80	1.12e-01	1.94e+02	163.0	178.5	17.4	66.38	59.40	n/a
5945001080		Cadmium - ICP-Acid Digest	ug/g	83.60	<5.00e-03	<2.970	<2.53e0	n/a	n/a	74.80	2.970	n/a
5945001080		Cerium - ICP-Acid Digest	ug/g	100.4	<1.00e-01	<59.40	<5.06e1	n/a	n/a	79.40	59.40	n/a
5945001080		Cobalt - ICP-Acid Digest	ug/g	96.00	<2.00e-02	<11.90	<1.01e1	n/a	n/a	76.00	11.90	n/a
5945001080		Chromium - ICP-Acid Digest	ug/g	94.40	<1.00e-02	6.16e+02	528.0	572.0	15.4	68.38	5.940	n/a
5945001080		Copper - ICP-Acid Digest	ug/g	98.00	<1.00e-02	<5.940	<5.06e0	1.14e+03	16.1	75.80	5.940	n/a
5945001080		Iron - ICP-Acid Digest	ug/g	95.20	<5.00e-02	1.34e+03	1.42e+03	1.24e+03	15.1	n/a	29.70	n/a
5945001080		Potassium - ICP-Acid Digest	ug/g	96.40	<5.00e-01	5.91e+02	465.0	528.0	23.9	61.76	29.70	n/a
5945001080		Lanthanum - ICP-Acid Digest	ug/g	98.60	<5.00e-02	<29.70	<2.53e1	n/a	n/a	77.20	29.70	n/a
5945001080		Lithium - ICP-Acid Digest	ug/g	100.2	<1.00e-02	<5.940	<5.06e0	n/a	n/a	77.00	5.940	n/a
5945001080		Magnesium - ICP-Acid Digest	ug/g	94.00	<1.00e-02	<59.40	<5.06e1	n/a	n/a	75.20	59.40	n/a
5945001080		Manganese - ICP-Acid Digest	ug/g	92.60	<1.00e-02	<31.70	<27.00	29.35	16.0	70.80	5.940	n/a
5945001080		Nickel - ICP-Acid Digest	ug/g	94.00	<5.00e-02	<29.70	<2.53e1	n/a	n/a	74.80	29.70	n/a
5945001080		Sodium - ICP-Acid Digest	ug/g	120.0	<5.27e-01	2.24e+05	1.92e+05	2.08e+05	15.4	n/a	59.40	n/a
5945001080		Strontium - ICP-Acid Digest	ug/g	100.2	<1.00e-01	<59.40	<5.06e1	n/a	n/a	78.00	59.40	n/a
5945001080		Titanium - ICP-Acid Digest	ug/g	96.20	<2.00e-02	<11.90	<1.01e1	n/a	n/a	77.20	11.90	n/a
5945001080		Nickel - ICP-Acid Digest	ug/g	98.00	<2.00e-01	1.42e+03	1.22e+03	1.32e+03	15.2	90.42	119.0	n/a
5945001080		Phosphorus - ICP-Acid Digest	ug/g	89.40	<1.00e-01	<59.40	<5.06e1	n/a	n/a	71.60	59.40	n/a
5945001080		Lead - ICP-Acid Digest	ug/g	94.60	<1.00e-01	5.43e+02	463.0	503.0	15.9	73.00	59.40	n/a
5945001080		Sulfur - ICP-Acid Digest	ug/g	94.80	<6.00e-02	<35.70	<3.04e1	n/a	n/a	76.40	35.70	n/a
5945001080		Antimony - ICP-Acid Digest	ug/g	94.80	<1.00e-01	<59.40	<5.06e1	n/a	n/a	76.40	59.40	n/a
5945001080		Selenium - ICP-Acid Digest	ug/g	94.80	<1.00e-01	<59.40	<5.06e1	n/a	n/a	76.40	59.40	n/a
5945001080		Silicon - ICP-Acid Digest	ug/g	113.8	9.30e-02	1.39e+02	119.0	129.0	15.5	44.54	29.70	n/a

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961001080	A	Samarium - ICP-Acid Digest	ug/g	99.20	<1.00e-01	< 59.60	< 59.60	n/a	n/a	76.00	59.60	n/a
S961001080	A	Titanium - ICP-Acid Digest	ug/g	97.20	<1.00e-02	< 5.940	< 5.940	n/a	n/a	75.60	5.940	n/a
S961001080	A	Strontium - ICP-Acid Digest	ug/g	88.60	<1.00e-02	< 5.940	< 5.940	n/a	n/a	69.40	5.940	n/a
S961001080	A	Thallium - ICP-Acid Digest	ug/g	97.40	<2.00e-01	<1.19e+02	<1.19e+02	n/a	n/a	72.40	119.0	n/a
S961001080	A	Uranium - ICP-Acid Digest	ug/g	95.00	<5.00e-01	<2.73e+02	<2.73e+02	n/a	n/a	76.40	297.0	n/a
S961001080	A	Vanadium - ICP-Acid Digest	ug/g	95.00	<5.00e-02	< 35.70	< 35.70	n/a	n/a	74.00	297.0	n/a
S961001080	A	Zinc - ICP-Acid Digest	ug/g	92.00	<1.00e-02	< 13.90	< 13.90	13.10	12.2	73.80	5.940	n/a
S961001080	A	Zirconium - ICP-Acid Digest	ug/g	98.60	<1.00e-02	< 5.940	< 5.940	n/a	n/a	76.00	5.940	n/a
S961001089	F	Alpha of Digested Solid	uCi/g	116.4	<3.22e-03	<1.53e+02	<1.53e+02	1.78e+02	28.1	71.31	6.00e-03	3.77E+01
S961002284	A	Silver - ICP-Acid Digest	ug/g	84.40	<1.00e-02	< 9.710	< 9.710	n/a	n/a	90.00	9.710	n/a
S961002284	A	Aluminum - ICP-Acid Digest	ug/g	89.40	<5.00e-02	<2.85e+03	<2.85e+03	3.10e+03	15.8	n/a	48.50	n/a
S961002284	A	Arsenic - ICP-Acid Digest	ug/g	90.80	<1.00e-01	< 97.10	< 97.10	n/a	n/a	93.40	97.10	n/a
S961002284	A	Boron - ICP-Acid Digest	ug/g	97.20	<3.78e-01	< 69.90	< 69.90	84.80	35.1	89.34	48.50	n/a
S961002284	A	Beryllium - ICP-Acid Digest	ug/g	98.00	<5.00e-02	< 4.850	< 4.850	n/a	n/a	91.60	48.50	n/a
S961002284	A	Calcium - ICP-Acid Digest	ug/g	98.00	<5.00e-03	< 4.850	< 4.850	n/a	n/a	95.20	4.850	n/a
S961002284	A	Cadmium - ICP-Acid Digest	ug/g	91.40	<4.35e-01	<2.04e+02	<2.04e+02	212.3	8.00	74.84	97.10	n/a
S961002284	A	Cerium - ICP-Acid Digest	ug/g	88.60	<5.00e-03	< 4.850	< 4.850	n/a	n/a	91.80	4.850	n/a
S961002284	A	Cobalt - ICP-Acid Digest	ug/g	91.60	<2.00e-02	< 19.40	< 19.40	n/a	n/a	189.4	97.10	n/a
S961002284	A	Chromium - ICP-Acid Digest	ug/g	90.60	<1.00e-02	< 7.80e+02	< 7.80e+02	766.5	3.52	53.84	19.40	n/a
S961002284	A	Copper - ICP-Acid Digest	ug/g	85.40	<1.90e-02	< 9.710	< 9.710	n/a	n/a	91.60	9.710	n/a
S961002284	A	Iron - ICP-Acid Digest	ug/g	90.80	<5.00e-02	<1.40e+02	<1.40e+02	124.0	2.78	88.60	9.710	n/a
S961002284	A	Potassium - ICP-Acid Digest	ug/g	98.60	<5.29e-01	<5.36e+02	<5.36e+02	531.5	1.69	92.80	48.50	n/a
S961002284	A	Lanthanum - ICP-Acid Digest	ug/g	90.00	<5.00e-02	< 4.850	< 4.850	n/a	n/a	92.80	48.50	n/a
S961002284	A	Lithium - ICP-Acid Digest	ug/g	87.40	<1.00e-02	< 9.710	< 9.710	n/a	n/a	88.20	97.10	n/a
S961002284	A	Magnesium - ICP-Acid Digest	ug/g	88.20	<1.00e-01	< 97.10	< 9.710	n/a	n/a	87.80	97.10	n/a
S961002284	A	Manganese - ICP-Acid Digest	ug/g	90.40	<1.00e-02	<37.00	<37.00	35.15	10.5	91.18	9.710	n/a
S961002284	A	Molybdenum - ICP-Acid Digest	ug/g	89.60	<5.00e-02	< 4.850	< 4.850	n/a	n/a	91.60	48.50	n/a
S961002284	A	Sodium - ICP-Acid Digest	ug/g	97.00	<6.07e-01	<2.25e+05	<2.25e+05	2.22e+05	2.78	92.20	97.10	n/a
S961002284	A	Neodymium - ICP-Acid Digest	ug/g	89.20	<1.00e-01	< 97.10	< 9.710	n/a	n/a	92.20	97.10	n/a
S961002284	A	Nickel - ICP-Acid Digest	ug/g	91.40	<2.00e-02	< 19.40	<1.85e+01	n/a	n/a	95.40	19.40	n/a
S961002284	A	Phosphorus - ICP-Acid Digest	ug/g	93.40	<2.00e-01	<1.56e+03	<1.42e+03	1.49e+03	9.40	n/a	194.0	n/a
S961002284	A	Lead - ICP-Acid Digest	ug/g	87.00	<1.00e-01	< 97.10	< 9.710	n/a	n/a	123.4	97.10	n/a
S961002284	A	Sulfur - ICP-Acid Digest	ug/g	90.40	<1.00e-01	<9.29e+02	<69.0	849.0	18.8	8.740	97.10	n/a
S961002284	A	Antimony - ICP-Acid Digest	ug/g	90.20	<6.00e-02	< 58.30	< 56.30	n/a	n/a	94.60	58.20	n/a
S961002284	A	Selenium - ICP-Acid Digest	ug/g	103.2	<1.00e-01	< 97.10	< 9.710	n/a	n/a	109.0	97.10	n/a
S961002284	A	Silicon - ICP-Acid Digest	ug/g	120.6	<9.00e-02	<2.65e+02	<256.0	260.5	3.45	100.7	48.50	n/a
S961002284	A	Samarium - ICP-Acid Digest	ug/g	90.60	<1.00e-01	< 97.10	< 9.710	n/a	n/a	91.40	97.10	n/a
S961002284	A	Strontium - ICP-Acid Digest	ug/g	88.40	<1.00e-02	< 9.710	< 9.710	n/a	n/a	86.00	9.710	n/a
S961002284	A	Thallium - ICP-Acid Digest	ug/g	84.00	<1.00e-02	<1.85e+02	<1.85e+02	n/a	n/a	91.40	194.0	n/a
S961002284	A	Uranium - ICP-Acid Digest	ug/g	84.20	<5.00e-01	<1.94e+02	<1.85e+02	n/a	n/a	94.40	48.50	n/a
S961002284	A	Vanadium - ICP-Acid Digest	ug/g	90.60	<5.00e-02	< 4.850	< 4.850	n/a	n/a	92.00	48.50	n/a
S961002284	A	Zinc - ICP-Acid Digest	ug/g	87.80	<2.00e-02	< 11.30	< 11.20	11.35	2.64	97.62	9.710	n/a
S961002284	A	Zirconium - ICP-Acid Digest	ug/g	96.40	<1.00e-02	< 9.710	< 9.710	n/a	n/a	99.20	9.710	n/a

CORE NUMBER: 134
SEGMENT #: 3

U-107 Final Report
U-107

SEGMENT PORTION: U Upper Half of Segment

Sample#	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961001044		Bulk Density of Sample	g/mL	n/a	n/a	1.540	n/a	n/a	n/a	n/a	5.00e-01	n/a
S961001056		DSC Exotherm Dry, Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S961001056		DSC Exotherm on Perkin Elmer	Joules/g	96.63	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S961001056		% Water by TGA on Perkin Elmer	%	100.3	n/a	13.12	12.26	12.69	6.78	n/a	n/a	n/a
S961001056		TIC by Acid/Coulometry	ug/g	94.19	2.000	5.92e+03	4.31e+03	5.12e+03	31.5	n/a	5.000	n/a
S961001056		TOC by Persulfate/Coulometry	ug/g	98.33	9.00e-01	1.89e+03	1.92e+03	1.90e+03	1.57	n/a	40.00	n/a
S961001072		Fluoride-IC-Bionex 40001/4500	ug/g	96.54	<1.30e-02	2.68e+02	2.76e2	2.73e+03	6.01	n/a	267.6	n/a
S961001072		Chloride-IC-Bionex 40001/4500	ug/g	96.54	<1.30e-02	2.68e+02	2.40e+03	2.33e+03	6.01	n/a	350.1	n/a
S961001072		Nitrite-IC-Bionex 40001/4500	ug/g	98.13	<1.07e-01	2.37e+04	2.56e+04	2.47e+04	7.71	n/a	2.02e+03	n/a
S961001072		Bromide by Ion Chromatograph	ug/g	95.13	<1.26e-01	<1.05e+03	<1.08e3	5.44e+05	3.31	n/a	1.05e+03	n/a
S961001072		Nitrate by IC-Bionex 40001/4500	ug/g	97.07	3.86e-01	1.53e+05	1.43e+04	1.38e+04	6.50	n/a	2.88e+03	n/a
S961001072		Phosphate-IC-Bionex 40001/4500	ug/g	93.59	<1.19e-01	8.86e+03	1.00e+04	9.43e+03	11.2	n/a	2.80e+03	n/a
S961001072		Sulfate by IC-Bionex 40001/4500	ug/g	98.26	<1.05e-01	3.11e+03	3.48e+03	3.30e+03	12.1	n/a	2.16e+03	n/a
S961001081		Oxalate by IC-Bionex 40001	ug/g	100.0	<1.00e-02	15.30	16.50	15.90	7.55	n/a	5.660	n/a
S961001081		A Silver-IC-Acid Digest	ug/g	94.80	<1.00e-02	4.51e+03	4.69e+03	4.60e+03	3.91	n/a	28.30	n/a
S961001081		A Aluminum-IC-Acid Digest	ug/g	99.20	9.20e-02	<56.50	<5.85e1	n/a	n/a	n/a	56.50	n/a
S961001081		A Arsenic-IC-Acid Digest	ug/g	98.40	<1.00e-01	<56.50	<5.85e1	54.40	6.26	n/a	28.30	n/a
S961001081		A Boron-IC-Acid Digest	ug/g	110.6	3.17e-01	<28.30	<2.93e1	n/a	n/a	n/a	28.30	n/a
S961001081		A Beryllium-IC-Acid Digest	ug/g	97.60	<5.00e-02	<28.30	<2.93e1	n/a	n/a	n/a	28.30	n/a
S961001081		A Bismuth-IC-Acid Digest	ug/g	108.8	<5.00e-02	<28.30	<2.93e1	n/a	n/a	n/a	28.30	n/a
S961001081		A Calcium-IC-Acid Digest	ug/g	95.20	<1.00e-01	<56.50	<5.85e1	212.5	5.18	n/a	56.50	n/a
S961001081		A Cadmium-IC-Acid Digest	ug/g	95.80	<1.00e-01	<56.50	<2.93e1	n/a	n/a	n/a	28.30	n/a
S961001081		A Cerium-IC-Acid Digest	ug/g	93.60	<5.00e-03	<28.30	<2.93e1	n/a	n/a	n/a	56.50	n/a
S961001081		A Cobalt-IC-Acid Digest	ug/g	100.4	<1.00e-01	<56.50	<5.85e1	n/a	n/a	n/a	11.30	n/a
S961001081		A Chromium-IC-Acid Digest	ug/g	96.00	<2.00e-02	<11.30	<1.17e1	1.24e+03	4.05	n/a	5.660	n/a
S961001081		A Copper-IC-Acid Digest	ug/g	94.40	<1.00e-02	1.21e+03	1.26e+03	179.5	3.90	n/a	28.30	n/a
S961001081		A Iron-IC-Acid Digest	ug/g	98.00	1.60e-02	<5.650	<5.85e1	749.0	17.4	n/a	283.0	n/a
S961001081		A Potassium-IC-Acid Digest	ug/g	95.20	<5.00e-02	1.76e+02	183.0	n/a	n/a	n/a	28.30	n/a
S961001081		A Lanthanum-IC-Acid Digest	ug/g	96.40	<5.00e-02	6.84e+02	814.0	n/a	n/a	n/a	283.0	n/a
S961001081		A Lithium-IC-Acid Digest	ug/g	98.60	<5.00e-02	<28.30	<2.93e1	n/a	n/a	n/a	5.660	n/a
S961001081		A Magnesium-IC-Acid Digest	ug/g	100.2	<1.00e-02	<5.650	<5.85e1	48.35	4.34	n/a	5.660	n/a
S961001081		A Manganese-IC-Acid Digest	ug/g	92.60	<1.00e-02	47.30	49.40	n/a	n/a	n/a	56.50	n/a
S961001081		A Molybdenum-IC-Acid Digest	ug/g	94.00	<5.00e-02	<28.30	<2.93e1	n/a	n/a	n/a	28.30	n/a
S961001081		A Sodium-IC-Acid Digest	ug/g	120.0	5.67e-01	2.01e+05	2.09e+05	2.05e+05	3.90	n/a	56.50	n/a
S961001081		A Neodymium-IC-Acid Digest	ug/g	100.2	<1.00e-01	<56.50	<5.85e1	n/a	n/a	n/a	56.50	n/a
S961001081		A Nickel-IC-Acid Digest	ug/g	96.20	<2.00e-02	<11.30	<1.17e1	2.14e+03	4.20	n/a	113.0	n/a
S961001081		A Phosphorus-IC-Acid Digest	ug/g	98.00	<2.00e-01	2.10e+03	2.19e+03	n/a	n/a	n/a	56.50	n/a
S961001081		A Lead-IC-Acid Digest	ug/g	89.60	<1.00e-01	<56.50	<5.85e1	1.27e+03	3.20	n/a	33.90	n/a
S961001081		A Sulfur-IC-Acid Digest	ug/g	96.60	<1.00e-01	1.23e+03	1.27e+03	1.25e+03	3.20	n/a	56.50	n/a
S961001081		A Antimony-IC-Acid Digest	ug/g	94.80	<5.00e-02	<33.90	<5.51e1	n/a	n/a	n/a	56.50	n/a
S961001081		A Selenium-IC-Acid Digest	ug/g	94.80	<1.00e-01	<56.50	<5.85e1	n/a	n/a	n/a	56.50	n/a
S961001081		A Silicon-IC-Acid Digest	ug/g	113.6	9.80e-02	78.50	82.10	80.30	4.48	n/a	28.30	n/a

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Sample#	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961001081	A	Samarium - ICP-Acid Digest	ug/g	99.20	<1.00e-01	56.50	<5.85e1	n/a	n/a	n/a	56.50	n/a
S961001081	A	Strontium - ICP-Acid Digest	ug/g	97.20	<5.50	5.650	<5.85e0	n/a	n/a	n/a	5.650	n/a
S961001081	A	Titanium - ICP-Acid Digest	ug/g	88.60	<1.00e-02	5.650	<5.85e0	n/a	n/a	n/a	5.650	n/a
S961001081	A	Thallium - ICP-Acid Digest	ug/g	92.40	<2.00e-01	<1.13e-02	<1.17e2	n/a	n/a	n/a	113.0	n/a
S961001081	A	Uranium - ICP-Acid Digest	ug/g	99.70	<5.00e-01	<2.83e-02	<2.93e1	n/a	n/a	n/a	283.0	n/a
S961001081	A	Vanadium - ICP-Acid Digest	ug/g	95.00	<5.00e-02	28.30	<2.93e1	n/a	n/a	n/a	28.30	n/a
S961001081	A	Zinc - ICP-Acid Digest	ug/g	92.00	<1.00e-02	15.30	16.00	15.65	4.47	n/a	5.660	n/a
S961001081	A	Zirconium - ICP-Acid Digest	ug/g	98.20	<1.00e-02	5.650	<5.85e0	n/a	n/a	n/a	5.660	n/a
S961001090	F	Alpha of Digested Solid	uCi/g	116.4	<3.22e-03	2.74e-02	4.03e-02	3.39e-02	38.1	n/a	4.00e-03	2.31E-01

W Whole Segment: W Whole Segment

Sample#	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002285	A	Silver - ICP-Acid Digest	ug/g	86.40	<1.00e-02	9.890	<9.89e0	n/a	n/a	n/a	9.880	n/a
S961002285	A	Aluminum - ICP-Acid Digest	ug/g	90.80	<5.30e-02	5.06e-03	5.01e+03	5.04e+03	0.92	n/a	49.40	n/a
S961002285	A	Arsenic - ICP-Acid Digest	ug/g	90.80	<1.00e-01	98.90	<9.89e1	n/a	n/a	n/a	98.90	n/a
S961002285	A	Boron - ICP-Acid Digest	ug/g	97.20	<3.78e-01	1.18e-02	123.0	120.5	4.15	n/a	49.40	n/a
S961002285	A	Barium - ICP-Acid Digest	ug/g	89.00	<5.00e-02	4.940	<4.95e1	n/a	n/a	n/a	49.40	n/a
S961002285	A	Bismuth - ICP-Acid Digest	ug/g	87.00	<5.00e-03	4.940	<4.95e0	n/a	n/a	n/a	4.950	n/a
S961002285	A	Calcium - ICP-Acid Digest	ug/g	87.00	<1.00e-01	98.90	<9.89e1	n/a	n/a	n/a	98.90	n/a
S961002285	A	Cadmium - ICP-Acid Digest	ug/g	91.40	<4.35e-01	2.40e-02	246.0	243.0	2.47	n/a	98.90	n/a
S961002285	A	Cerium - ICP-Acid Digest	ug/g	91.40	<1.00e-01	98.90	<9.89e1	n/a	n/a	n/a	4.950	n/a
S961002285	A	Cobalt - ICP-Acid Digest	ug/g	91.60	<2.00e-02	19.80	<1.98e1	n/a	n/a	n/a	98.90	n/a
S961002285	A	Chromium - ICP-Acid Digest	ug/g	90.60	<1.00e-02	1.59e-03	1.60e+03	1.60e+03	0.63	n/a	9.880	n/a
S961002285	A	Copper - ICP-Acid Digest	ug/g	85.40	<1.90e-02	9.890	<9.89e0	n/a	n/a	n/a	9.880	n/a
S961002285	A	Iron - ICP-Acid Digest	ug/g	90.80	<5.00e-02	2.29e-02	191.0	210.0	18.1	n/a	49.40	n/a
S961002285	A	Potassium - ICP-Acid Digest	ug/g	98.60	<5.29e-01	8.61e-02	890.0	875.5	3.31	n/a	49.40	n/a
S961002285	A	Lanthanum - ICP-Acid Digest	ug/g	87.40	<1.00e-02	4.940	<4.95e1	n/a	n/a	n/a	49.40	n/a
S961002285	A	Lithium - ICP-Acid Digest	ug/g	88.20	<1.00e-02	9.890	<9.89e0	n/a	n/a	n/a	9.880	n/a
S961002285	A	Magnesium - ICP-Acid Digest	ug/g	90.40	<1.00e-01	98.90	<9.89e1	n/a	n/a	n/a	98.90	n/a
S961002285	A	Manganese - ICP-Acid Digest	ug/g	89.60	<5.00e-02	80.30	65.00	72.65	21.1	n/a	9.880	n/a
S961002285	A	Molybdenum - ICP-Acid Digest	ug/g	89.60	<5.00e-02	4.940	<4.95e1	n/a	n/a	n/a	49.40	n/a
S961002285	A	Sodium - ICP-Acid Digest	ug/g	97.00	<6.07e-01	2.19e-05	2.06e+05	2.12e+05	6.12	n/a	98.90	n/a
S961002285	A	Neodymium - ICP-Acid Digest	ug/g	89.20	<1.00e-01	98.90	<9.89e1	n/a	n/a	n/a	98.90	n/a
S961002285	A	Nickel - ICP-Acid Digest	ug/g	91.40	<2.00e-02	19.80	<1.98e1	n/a	n/a	n/a	98.90	n/a
S961002285	A	Phosphorus - ICP-Acid Digest	ug/g	93.40	<2.00e-01	1.41e-03	2.67e+03	2.04e+03	61.8	n/a	198.0	n/a
S961002285	A	Lead - ICP-Acid Digest	ug/g	87.00	<1.00e-01	98.90	<9.89e1	n/a	n/a	n/a	98.90	n/a
S961002285	A	Sulfur - ICP-Acid Digest	ug/g	90.40	<1.00e-01	1.73e-03	1.44e+03	1.58e+03	18.3	n/a	98.90	n/a
S961002285	A	Antimony - ICP-Acid Digest	ug/g	90.20	<6.00e-02	59.30	54.40	56.85	2.06	n/a	59.30	n/a
S961002285	A	Selenium - ICP-Acid Digest	ug/g	103.2	<1.00e-01	1.44e-02	147.0	145.5	2.06	n/a	98.90	n/a
S961002285	A	Silicon - ICP-Acid Digest	ug/g	120.6	<9.00e-02	2.61e-02	336.0	298.5	25.1	n/a	49.40	n/a
S961002285	A	Strontium - ICP-Acid Digest	ug/g	90.60	<1.00e-01	98.90	<9.89e1	n/a	n/a	n/a	96.90	n/a
S961002285	A	Titanium - ICP-Acid Digest	ug/g	88.40	<1.00e-02	9.890	<9.89e0	n/a	n/a	n/a	9.880	n/a
S961002285	A	Thallium - ICP-Acid Digest	ug/g	84.20	<1.00e-02	<1.98e-02	<1.98e2	n/a	n/a	n/a	198.0	n/a
S961002285	A	Uranium - ICP-Acid Digest	ug/g	90.60	<5.00e-01	<4.94e-02	<4.94e2	n/a	n/a	n/a	494.0	n/a
S961002285	A	Vanadium - ICP-Acid Digest	ug/g	89.40	<5.00e-02	47.40	<4.75e1	n/a	n/a	n/a	47.40	n/a
S961002285	A	Zinc - ICP-Acid Digest	ug/g	87.80	<2.00e-02	17.60	14.40	16.00	20.0	n/a	9.880	n/a
S961002285	A	Zirconium - ICP-Acid Digest	ug/g	96.40	<1.00e-02	9.890	<9.89e0	n/a	n/a	n/a	9.880	n/a

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CORE NUMBER: 134
SEGMENT #: 4

U-107 Final Report
U-107

SEGMENT PORTION: A Top Quarter of Segment

Sample#	RAE Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
5961001061	Bulk Density of Sample	g/mL	n/a	n/a	1.740	n/a	n/a	n/a	n/a	5.00e-01	n/a
5961001062	DSC Exotherm using Mettler	Joules/g	106.2	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
5961001064	% Water by IGA using Mettler	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
5961001064	TIC by Acid/Coulometry	ug/g	102.4	1.800	23.61	22.76	23.19	3.67	n/a	n/a	n/a
5961001064	TIC by Persulfate/Coulometry	ug/g	100.2	3.300	7.05e+03	7.02e+03	7.04e+03	101.0	n/a	5.000	n/a
5961001064	Fluoride-IC-Dionex 4000/4500	ug/g	95.00	4.130e-02	3.67e+03	3.68e+03	3.68e+03	0.27	97.30	40.00	n/a
5961001074	Chloride-IC-Dionex 4000/4500	ug/g	94.07	1.22e+02	< 1.28e2	< 1.28e2	n/a	n/a	n/a	122.3	n/a
5961001074	Nitrite-IC-Dionex 4000/4500	ug/g	100.0	4.17e-02	3.09e+03	4.03e+03	3.56e+03	26.4	n/a	160.1	n/a
5961001074	Nitrate by Ion Chromatograph	ug/g	98.09	4.12e-01	1.19e+03	1.17e+03	1.18e+03	40.0	n/a	1.19e+03	n/a
5961001074	Nitrate by IC-Dionex 4000/4500	ug/g	95.60	4.12e-01	5.33e+03	6.16e+03	5.74e+03	14.4	n/a	1.12e+03	n/a
5961001074	Phosphate by IC-Dionex 4000/4500	ug/g	93.41	4.13e-01	6.40e+03	7.91e+03	7.25e+03	18.1	n/a	1.28e+03	n/a
5961001074	Sulfate by IC-Dionex 4000/4500	ug/g	97.46	4.13e-01	2.18e+03	3.03e+03	2.60e+03	32.6	n/a	988.9	n/a
5961001074	Oxalate by IC-Dionex 4000/4500	ug/g	99.23	4.13e-01	15.20	14.60	14.90	4.03	n/a	5.990	n/a
5961001083	Aluminum-ICP-Acid Digest	ug/g	99.20	9.20e-02	1.04e+04	1.04e+04	1.04e+04	0.00	n/a	30.00	n/a
5961001083	Arsenic-ICP-Acid Digest	ug/g	96.40	4.13e-01	< 60.00	< 5.74e1	n/a	n/a	n/a	30.00	n/a
5961001083	Boron-ICP-Acid Digest	ug/g	110.6	3.17e-01	84.00	79.70	81.85	5.25	n/a	30.00	n/a
5961001083	Barium-ICP-Acid Digest	ug/g	97.60	4.13e-01	< 30.00	< 2.87e1	n/a	n/a	n/a	3.000	n/a
5961001083	Beryllium-ICP-Acid Digest	ug/g	106.8	4.13e-01	< 3.000	< 2.87e1	n/a	n/a	n/a	60.00	n/a
5961001083	Bismuth-ICP-Acid Digest	ug/g	95.20	4.13e-01	< 60.00	< 5.74e1	n/a	n/a	n/a	60.00	n/a
5961001083	Calcium-ICP-Acid Digest	ug/g	95.80	4.13e-01	2.49e+02	250.0	249.5	0.40	n/a	3.000	n/a
5961001083	Cadmium-ICP-Acid Digest	ug/g	100.4	4.13e-01	4.130	3.820	3.975	7.80	n/a	60.00	n/a
5961001083	Cerium-ICP-Acid Digest	ug/g	100.4	4.13e-01	< 60.00	< 5.74e1	n/a	n/a	n/a	60.00	n/a
5961001083	Cobalt-ICP-Acid Digest	ug/g	94.40	4.13e-01	2.11e+03	2.12e+03	2.12e+03	0.47	n/a	12.00	n/a
5961001083	Chromium-ICP-Acid Digest	ug/g	96.00	4.13e-01	< 6.000	< 5.74e1	n/a	n/a	n/a	5.990	n/a
5961001083	Copper-ICP-Acid Digest	ug/g	95.20	4.13e-01	2.82e+02	274.0	278.0	2.88	n/a	30.00	n/a
5961001083	Iron-ICP-Acid Digest	ug/g	96.40	4.13e-01	1.20e+03	1.19e+03	1.20e+03	0.84	n/a	300.0	n/a
5961001083	Potassium-ICP-Acid Digest	ug/g	96.40	4.13e-01	< 30.00	< 2.87e1	n/a	n/a	n/a	30.00	n/a
5961001083	Lead-ICP-Acid Digest	ug/g	100.2	4.13e-01	< 6.000	< 5.74e1	n/a	n/a	n/a	5.990	n/a
5961001083	Lithium-ICP-Acid Digest	ug/g	94.00	4.13e-01	< 60.00	< 5.74e1	n/a	n/a	n/a	60.00	n/a
5961001083	Magnesium-ICP-Acid Digest	ug/g	92.60	4.13e-01	94.30	92.60	93.45	1.82	n/a	50.00	n/a
5961001083	Manganese-ICP-Acid Digest	ug/g	94.00	4.13e-01	1.95e+05	1.91e+05	1.93e+05	2.07	n/a	60.00	n/a
5961001083	Molybdenum-ICP-Acid Digest	ug/g	120.0	4.13e-01	< 60.00	< 5.74e1	n/a	n/a	n/a	60.00	n/a
5961001083	Sodium-ICP-Acid Digest	ug/g	100.2	4.13e-01	< 27.50	< 23.90	25.70	14.0	n/a	12.00	n/a
5961001083	Nickel-ICP-Acid Digest	ug/g	96.20	4.13e-01	1.40e+03	1.02e+03	1.21e+03	31.4	n/a	60.00	n/a
5961001083	Phosphorus-ICP-Acid Digest	ug/g	89.60	4.13e-01	< 60.00	< 5.74e1	n/a	n/a	n/a	60.00	n/a
5961001083	Sulfur-ICP-Acid Digest	ug/g	96.60	4.13e-01	1.77e+03	1.83e+03	1.80e+03	3.33	n/a	36.00	n/a
5961001083	Antimony-ICP-Acid Digest	ug/g	94.80	4.13e-01	< 36.00	< 3.45e1	n/a	n/a	n/a	60.00	n/a
5961001083	Selenium-ICP-Acid Digest	ug/g	94.80	4.13e-01	< 60.00	< 5.74e1	n/a	n/a	n/a	60.00	n/a
5961001083	Silicon-ICP-Acid Digest	ug/g	113.6	9.80e-02	48.40	74.30	61.35	42.2	n/a	30.00	n/a

Sample#	RA# Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
5961001083	A Samarium - ICP-Acid Digest	ug/g	99.20	< 1.00e-01	< 60.00	< 5.74e0	n/a	n/a	n/a	60.00	n/a
5961001083	A Strontium - ICP-Acid Digest	ug/g	97.20	< 1.00e-01	< 60.00	< 5.74e0	n/a	n/a	n/a	60.00	n/a
5961001083	A Titanium - ICP-Acid Digest	ug/g	88.60	< 1.00e-02	< 60.00	< 5.74e0	n/a	n/a	n/a	5.990	n/a
5961001083	A Thallium - ICP-Acid Digest	ug/g	92.40	< 2.00e-01	< 1.20e+02	< 1.15e2	n/a	n/a	n/a	120.0	n/a
5961001083	A Uranium - ICP-Acid Digest	ug/g	99.70	< 5.00e-01	< 3.00e+02	< 2.87e2	n/a	n/a	n/a	300.0	n/a
5961001083	A Vanadium - ICP-Acid Digest	ug/g	95.00	< 5.00e-02	< 30.00	< 2.87e1	n/a	n/a	n/a	30.00	n/a
5961001083	A Zinc - ICP-Acid Digest	ug/g	92.00	< 1.00e-02	< 60.00	< 5.74e0	16.95	8.85	n/a	5.990	n/a
5961001083	A Zirconium - ICP-Acid Digest	ug/g	98.20	< 1.00e-02	< 60.00	< 5.74e0	n/a	n/a	n/a	5.990	n/a
5961001092	A Alpha of Digested Solid	uc/g	110.9	< 8.72e-03	7.61e-02	7.51e-02	7.56e-02	1.32	94.71	1.00e-02	2.21e+01
5961002287	A Silver - ICP-Acid Digest	ug/g	86.40	< 5.30e-02	< 1.34e+01	< 1.44e+01	1.24e+01	16.1	n/a	50.40	n/a
5961002287	A Aluminum - ICP-Acid Digest	ug/g	90.80	< 1.00e-01	< 1.01e+02	< 8.97e1	n/a	n/a	n/a	101.0	n/a
5961002287	A Arsenic - ICP-Acid Digest	ug/g	97.20	< 7.86e-01	1.27e+02	139.0	133.0	9.02	n/a	50.40	n/a
5961002287	A Boron - ICP-Acid Digest	ug/g	89.00	< 5.00e-02	< 50.40	< 4.48e1	n/a	n/a	n/a	50.40	n/a
5961002287	A Beryllium - ICP-Acid Digest	ug/g	87.00	< 5.00e-01	< 5.040	< 4.48e0	n/a	n/a	n/a	50.40	n/a
5961002287	A Bismuth - ICP-Acid Digest	ug/g	88.00	< 1.00e-01	< 1.01e+02	< 8.97e1	n/a	n/a	n/a	101.0	n/a
5961002287	A Calcium - ICP-Acid Digest	ug/g	91.40	< 4.35e-01	2.12e+02	236.0	224.0	10.7	n/a	101.0	n/a
5961002287	A Cerium - ICP-Acid Digest	ug/g	91.40	< 1.00e-01	< 1.01e+02	< 8.97e1	5.840	24.7	n/a	5.040	n/a
5961002287	A Cobalt - ICP-Acid Digest	ug/g	91.60	< 2.00e-02	< 20.20	< 1.79e1	n/a	n/a	n/a	101.0	n/a
5961002287	A Chromium - ICP-Acid Digest	ug/g	90.60	< 1.00e-02	2.14e+03	2.31e+03	2.22e+03	7.64	n/a	20.20	n/a
5961002287	A Copper - ICP-Acid Digest	ug/g	85.40	< 1.90e-02	< 10.10	< 8.97e0	n/a	n/a	n/a	10.10	n/a
5961002287	A Iron - ICP-Acid Digest	ug/g	90.80	< 5.00e-02	3.08e+02	305.0	306.5	0.98	n/a	10.10	n/a
5961002287	A Potassium - ICP-Acid Digest	ug/g	98.60	< 5.29e-01	1.65e+03	1.45e+03	1.55e+03	12.9	n/a	50.40	n/a
5961002287	A Lanthanum - ICP-Acid Digest	ug/g	90.00	< 5.00e-02	< 50.40	< 4.48e1	n/a	n/a	n/a	50.40	n/a
5961002287	A Lithium - ICP-Acid Digest	ug/g	87.40	< 1.00e-02	< 10.10	< 8.97e0	n/a	n/a	n/a	10.10	n/a
5961002287	A Magnesium - ICP-Acid Digest	ug/g	88.20	< 1.00e-01	< 1.01e+02	< 8.97e1	n/a	n/a	n/a	101.0	n/a
5961002287	A Manganese - ICP-Acid Digest	ug/g	90.40	< 1.00e-02	1.02e+02	106.0	104.0	3.85	n/a	10.10	n/a
5961002287	A Molybdenum - ICP-Acid Digest	ug/g	89.60	< 5.00e-02	< 50.40	< 4.48e1	n/a	n/a	n/a	10.10	n/a
5961002287	A Sodium - ICP-Acid Digest	ug/g	97.00	< 6.07e-01	1.95e+05	2.04e+05	2.00e+05	4.51	n/a	50.40	n/a
5961002287	A Neodymium - ICP-Acid Digest	ug/g	89.20	< 1.00e-02	< 1.01e+02	< 8.97e1	n/a	n/a	n/a	101.0	n/a
5961002287	A Nickel - ICP-Acid Digest	ug/g	91.40	< 2.00e-02	32.80	32.10	37.05	n/a	n/a	101.0	n/a
5961002287	A Phosphorus - ICP-Acid Digest	ug/g	93.40	< 2.00e-01	1.81e+03	1.39e+03	1.60e+03	26.2	n/a	20.20	n/a
5961002287	A Lead - ICP-Acid Digest	ug/g	87.00	< 1.00e-01	< 1.01e+02	< 8.97e1	n/a	n/a	n/a	202.0	n/a
5961002287	A Sulfur - ICP-Acid Digest	ug/g	90.40	< 1.00e-01	2.00e+03	2.15e+03	2.08e+03	7.23	n/a	101.0	n/a
5961002287	A Antimony - ICP-Acid Digest	ug/g	90.20	< 6.00e-02	< 60.50	< 5.38e1	n/a	n/a	n/a	101.0	n/a
5961002287	A Selenium - ICP-Acid Digest	ug/g	120.2	< 9.00e-02	2.24e+02	262.0	233.0	15.6	n/a	60.50	n/a
5961002287	A Silicon - ICP-Acid Digest	ug/g	103.6	< 1.00e-02	1.31e+02	326.0	227.5	84.8	n/a	101.0	n/a
5961002287	A Samarium - ICP-Acid Digest	ug/g	90.60	< 1.00e-02	< 1.01e+02	< 8.97e1	n/a	n/a	n/a	50.40	n/a
5961002287	A Strontium - ICP-Acid Digest	ug/g	88.40	< 1.00e-02	< 10.10	< 8.97e0	n/a	n/a	n/a	101.0	n/a
5961002287	A Titanium - ICP-Acid Digest	ug/g	84.00	< 2.00e-01	< 1.01e+02	< 1.79e1	n/a	n/a	n/a	10.10	n/a
5961002287	A Thallium - ICP-Acid Digest	ug/g	84.20	< 1.00e-01	< 2.02e+02	< 1.79e1	n/a	n/a	n/a	202.0	n/a
5961002287	A Uranium - ICP-Acid Digest	ug/g	90.60	< 5.00e-02	< 50.40	< 4.48e1	n/a	n/a	n/a	50.40	n/a
5961002287	A Vanadium - ICP-Acid Digest	ug/g	89.40	< 5.00e-02	< 50.40	< 4.48e1	n/a	n/a	n/a	50.40	n/a
5961002287	A Zinc - ICP-Acid Digest	ug/g	87.80	< 2.00e-02	13.50	< 16.50	15.05	20.6	n/a	10.10	n/a
5961002287	A Zirconium - ICP-Acid Digest	ug/g	96.40	< 1.00e-02	< 10.10	< 8.97e0	n/a	n/a	n/a	10.10	n/a

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8 Second Quarter of Segment: 8 Second Quarter of Segment

Sample#	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961001062		Bulk Density of Sample	g/mL	n/a	n/a	1.730	n/a	n/a	n/a	n/a	5.00e-01	n/a
S961001065		BSC Exotherm using Mettler	Joules/g	106.2	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S961001065		BSC Exotherm Dry Calculated	Joules/g	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S961001065		% Water by TGA using Mettler	%	102.4	n/a	28.65	27.64	28.14	28.14	n/a	5.000	n/a
S961001065		TIC by Acid/Conulometry	ug/g	100.2	1.800	6.42e+03	4.98e+03	5.70e+03	25.3	n/a	5.000	n/a
S961001065		TIC by Persulfate/Coulometry	ug/g	95.00	3.300	3.05e+03	4.22e+03	3.64e+03	52.2	n/a	40.00	n/a
S961001075		Fluoride-IC-Dioxax 40001/4500	ug/g	91.24	<1.30e-02	1.45e+03	5.27e+03	5.22e+03	108.3	n/a	162.9	n/a
S961001075		Fluoride-IC-Dioxax 40001/4500	ug/g	99.92	<1.07e-01	5.18e+03	5.72e+04	5.66e+04	100.4	n/a	189.3	n/a
S961001075		Nitrite-IC-Dioxax 40001/4500	ug/g	99.31	<1.07e-01	5.59e+04	5.72e+04	5.66e+04	2.30	n/a	1.9e+03	n/a
S961001075		Nitrate by Ion Chromatograph	ug/g	98.26	<1.26e-01	1.40e+03	3.13e+03	3.54e+03	97.39	n/a	1.0e+03	n/a
S961001075		Nitrate by IC-Dioxax 40001/4500	ug/g	96.09	<1.40e-01	3.40e+03	3.68e+03	3.54e+03	7.91	n/a	1.5e+03	n/a
S961001075		Phosphate-IC-Dioxax 40001/4500	ug/g	94.87	<1.19e-01	8.26e+03	8.75e+03	8.51e+03	5.76	n/a	1.5e+03	n/a
S961001075		Sulfate by IC-Dioxax 40001/4500	ug/g	97.31	<1.36e-01	7.56e+03	7.75e+03	7.65e+03	89.74	n/a	1.5e+03	n/a
S961001075		Sulfate by IC-Dioxax 40001/4500	ug/g	99.44	<1.05e-01	3.00e+03	2.99e+03	2.99e+03	0.33	n/a	1.1e+03	n/a
S961001075		Silver-IC-Dioxax 40001	ug/g	94.80	<1.00e-02	14.10	15.00	14.55	6.19	n/a	3.000	n/a
S961001084		Aluminum-IC-Dioxax Digest	ug/g	99.20	<9.20e-02	1.38e+04	1.45e+04	1.42e+04	4.95	n/a	28.50	n/a
S961001084		Aluminum-IC-Dioxax Digest	ug/g	98.40	<1.00e-01	53.00	<5.34e1	114.7	49.3	n/a	53.00	n/a
S961001084		Boron-IC-Dioxax Digest	ug/g	110.6	<3.17e-01	86.40	<2.67e1	114.7	49.3	n/a	26.50	n/a
S961001084		Barium-IC-Dioxax Digest	ug/g	97.60	<5.00e-02	26.50	<2.67e1	n/a	n/a	n/a	26.50	n/a
S961001084		Beryllium-IC-Dioxax Digest	ug/g	108.8	<5.00e-02	2.650	<2.67e1	n/a	n/a	n/a	53.00	n/a
S961001084		Bismuth-IC-Dioxax Digest	ug/g	95.20	<1.00e-01	53.00	<5.34e1	n/a	n/a	n/a	53.00	n/a
S961001084		Calcium-IC-Dioxax Digest	ug/g	95.80	<1.12e-01	1.95e+02	252.0	233.5	25.5	n/a	53.00	n/a
S961001084		Cadmium-IC-Dioxax Digest	ug/g	93.60	<5.00e-03	3.480	3.640	3.560	4.49	n/a	2.650	n/a
S961001084		Cerium-IC-Dioxax Digest	ug/g	100.4	<1.00e-01	53.00	<5.34e1	n/a	n/a	n/a	53.00	n/a
S961001084		Cobalt-IC-Dioxax Digest	ug/g	96.00	<2.00e-02	10.60	<1.07e1	n/a	n/a	n/a	10.60	n/a
S961001084		Chromium-IC-Dioxax Digest	ug/g	94.40	<1.00e-02	2.81e+03	3.04e+03	2.92e+03	7.86	n/a	5.300	n/a
S961001084		Copper-IC-Dioxax Digest	ug/g	98.00	<1.60e-02	5.530	<5.34e1	n/a	n/a	n/a	26.50	n/a
S961001084		Iron-IC-Dioxax Digest	ug/g	95.20	<5.00e-02	2.10e+02	227.0	218.5	7.78	n/a	26.50	n/a
S961001084		Potassium-IC-Dioxax Digest	ug/g	98.60	<5.00e-01	1.48e+03	1.43e+03	1.46e+03	3.44	n/a	26.50	n/a
S961001084		Lanthanum-IC-Dioxax Digest	ug/g	96.40	<5.00e-02	26.50	<2.67e1	n/a	n/a	n/a	26.50	n/a
S961001084		Lithium-IC-Dioxax Digest	ug/g	100.2	<1.00e-02	53.00	<5.34e1	n/a	n/a	n/a	53.00	n/a
S961001084		Magnesium-IC-Dioxax Digest	ug/g	94.00	<1.00e-01	53.00	<5.34e1	n/a	n/a	n/a	53.00	n/a
S961001084		Manganese-IC-Dioxax Digest	ug/g	92.60	<1.00e-02	89.10	95.60	92.35	7.04	n/a	5.300	n/a
S961001084		Molybdenum-IC-Dioxax Digest	ug/g	94.00	<5.00e-02	40.90	41.80	41.35	2.18	n/a	26.50	n/a
S961001084		Sodium-IC-Dioxax Digest	ug/g	100.0	<5.67e-01	1.78e+05	1.92e+05	1.85e+05	7.57	n/a	53.00	n/a
S961001084		Neodymium-IC-Dioxax Digest	ug/g	100.2	<1.00e-02	53.00	<5.34e1	n/a	n/a	n/a	53.00	n/a
S961001084		Nickel-IC-Dioxax Digest	ug/g	96.20	<2.00e-02	27.30	31.30	29.30	13.7	n/a	10.60	n/a
S961001084		Phosphorus-IC-Dioxax Digest	ug/g	98.00	<2.00e-01	1.51e+03	1.73e+03	1.62e+03	13.6	n/a	106.0	n/a
S961001084		Lead-IC-Dioxax Digest	ug/g	89.60	<1.00e-01	53.00	<5.34e1	n/a	n/a	n/a	53.00	n/a
S961001084		Sulfur-IC-Dioxax Digest	ug/g	96.60	<1.00e-01	1.72e+03	1.84e+03	1.78e+03	6.74	n/a	53.00	n/a
S961001084		Antimony-IC-Dioxax Digest	ug/g	94.80	<5.00e-02	31.80	<3.20e1	n/a	n/a	n/a	31.80	n/a
S961001084		Selenium-IC-Dioxax Digest	ug/g	94.80	<5.00e-02	53.00	<5.34e1	n/a	n/a	n/a	53.00	n/a
S961001084		Silicon-IC-Dioxax Digest	ug/g	113.6	<9.80e-02	93.00	103.0	98.00	10.2	n/a	26.50	n/a
S961001084		Samarium-IC-Dioxax Digest	ug/g	99.20	<1.00e-02	53.00	<5.34e1	n/a	n/a	n/a	53.00	n/a
S961001084		Strontium-IC-Dioxax Digest	ug/g	88.40	<1.00e-02	53.00	<5.34e1	n/a	n/a	n/a	53.00	n/a
S961001084		Titanium-IC-Dioxax Digest	ug/g	92.40	<2.00e-01	<1.06e+02	<1.07e2	n/a	n/a	n/a	106.0	n/a
S961001084		Thallium-IC-Dioxax Digest	ug/g	99.70	<5.00e-01	<2.65e+02	<2.67e2	n/a	n/a	n/a	265.0	n/a
S961001084		Uranium-IC-Dioxax Digest	ug/g	99.70	<5.00e-01	<2.65e+02	<2.67e2	n/a	n/a	n/a	265.0	n/a

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Sample#	AW	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD % Spk Rec %	Det Limit	Count Err%
S961001084	A	Vanadium - ICP-Acid Digest	ug/g	95.00	<5.00e-02	< 26.50	<2.67e1	n/a	n/a	26.50	n/a
S961001084	A	Zinc - ICP-Acid Digest	ug/g	92.00	<1.00e-02	15.80	19.80	17.80	22.5	5.300	n/a
S961001084	A	Zirconium - ICP-Acid Digest	ug/g	98.20	<1.00e-02	< 5.300	<5.34e0	n/a	n/a	5.300	n/a
S961001095	F	Alpha of Digested Solid	wt/g	110.9	<8.72e-03	9.65e-02	9.80e-02	9.73e-02	1.54	3.00e-02	3.03e+01
S961002288	A	Silver - ICP-Acid Digest	ug/g	86.40	<1.00e-02	42.80	15.80	29.30	92.2	12.90	8.380
S961002288	A	Aluminum - ICP-Acid Digest	ug/g	89.40	<3.00e-02	1.53e+04	1.51e+04	1.52e+04	1.32	n/a	41.90
S961002288	A	Arsenic - ICP-Acid Digest	ug/g	89.40	<1.00e-01	< 83.80	<8.73e1	n/a	92.80	83.80	n/a
S961002288	A	Boron - ICP-Acid Digest	ug/g	97.20	<3.78e-01	< 1.18e+02	138.0	128.0	15.6	85.58	41.90
S961002288	A	Beryllium - ICP-Acid Digest	ug/g	89.00	<5.00e-02	< 41.90	<4.36e1	n/a	92.00	41.90	n/a
S961002288	A	Bismuth - ICP-Acid Digest	ug/g	87.00	<1.00e-03	< 4.190	<4.36e1	n/a	91.60	83.80	n/a
S961002288	A	Calcium - ICP-Acid Digest	ug/g	91.40	<4.35e-01	< 83.80	<8.73e1	n/a	93.60	83.80	n/a
S961002288	A	Cadmium - ICP-Acid Digest	ug/g	88.40	<5.00e-03	5.160	4.920	5.040	4.76	90.58	4.190
S961002288	A	Cerium - ICP-Acid Digest	ug/g	91.40	<1.00e-01	< 83.80	<8.73e1	n/a	96.00	83.80	n/a
S961002288	A	Cobalt - ICP-Acid Digest	ug/g	90.60	<1.00e-02	3.2e+03	3.10e+03	3.21e+03	6.85	n/a	8.380
S961002288	A	Copper - ICP-Acid Digest	ug/g	85.40	<1.90e-02	< 16.80	<1.75e1	n/a	88.60	8.380	n/a
S961002288	A	Potassium - ICP-Acid Digest	ug/g	98.60	<5.00e-02	2.55e+02	239.0	247.0	77.38	41.90	n/a
S961002288	A	Lanthanum - ICP-Acid Digest	ug/g	90.00	<5.00e-02	< 41.90	<4.36e1	n/a	92.60	41.90	n/a
S961002288	A	Lithium - ICP-Acid Digest	ug/g	88.20	<1.00e-01	< 83.80	<8.73e1	n/a	88.80	83.80	n/a
S961002288	A	Magnesium - ICP-Acid Digest	ug/g	90.40	<1.00e-02	1.13e+02	103.0	108.0	9.26	85.72	8.380
S961002288	A	Manganese - ICP-Acid Digest	ug/g	89.60	<5.00e-02	43.50	<4.36e1	n/a	88.60	41.90	n/a
S961002288	A	Niobium - ICP-Acid Digest	ug/g	97.00	<6.07e-01	2.00e+05	1.95e+05	1.98e+05	2.53	n/a	83.80
S961002288	A	Sodium - ICP-Acid Digest	ug/g	91.40	<2.00e-02	< 83.80	<8.73e1	n/a	91.80	83.80	n/a
S961002288	A	Nickel - ICP-Acid Digest	ug/g	93.40	<2.00e-01	1.93e+03	37.70	38.40	3.65	91.54	16.80
S961002288	A	Phosphorus - ICP-Acid Digest	ug/g	87.00	<1.00e-01	< 83.80	<8.73e1	n/a	93.00	83.80	n/a
S961002288	A	Lead - ICP-Acid Digest	ug/g	90.40	<1.00e-01	2.02e+03	1.92e+03	1.97e+03	5.08	n/a	83.80
S961002288	A	Sulfur - ICP-Acid Digest	ug/g	90.20	<6.00e-02	1.09e+02	<5.24e1	n/a	82.54	50.50	n/a
S961002288	A	Selenium - ICP-Acid Digest	ug/g	103.2	<1.00e-01	3.66e+02	351.0	358.5	4.18	86.10	83.80
S961002288	A	Strontium - ICP-Acid Digest	ug/g	120.6	<9.00e-02	3.15e+02	<297.0	306.0	5.88	80.00	41.90
S961002288	A	Titanium - ICP-Acid Digest	ug/g	90.60	<1.00e-01	< 83.80	<8.73e1	n/a	91.80	83.80	n/a
S961002288	A	Tungsten - ICP-Acid Digest	ug/g	88.40	<1.00e-02	< 8.380	<8.73e1	n/a	92.00	8.380	n/a
S961002288	A	Thallium - ICP-Acid Digest	ug/g	84.20	<2.00e-01	<1.68e+02	<1.75e2	n/a	85.80	8.380	n/a
S961002288	A	Uranium - ICP-Acid Digest	ug/g	90.60	<5.00e-01	<4.19e+02	<4.36e2	n/a	91.80	168.0	n/a
S961002288	A	Vanadium - ICP-Acid Digest	ug/g	89.40	<5.00e-02	< 41.90	<4.36e1	n/a	94.40	41.90	n/a
S961002288	A	Zinc - ICP-Acid Digest	ug/g	87.80	<2.00e-02	37.10	21.60	29.35	52.8	88.98	8.380
S961002288	A	Zirconium - ICP-Acid Digest	ug/g	96.40	<1.00e-02	< 8.380	<8.73e1	n/a	98.80	8.380	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	AW	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD % Spk Rec %	Det Limit	Count Err%
S961001087	A	Bulk Density of Sample	g/mL	n/a	n/a	1.660	n/a	n/a	n/a	5.00e-01	n/a
S961001087	A	DSC Endotherm using Mettler	Joules/g	94.90	n/a	1.47e+02	148.0	147.5	0.68	n/a	n/a
S961001087	A	DSC Endotherm DRY Calculated	Joules/g	94.90	n/a	2.33e+02	234.5	234.5	0.68	n/a	n/a
S961001087	A	% Water by IGA using Mettler	wt/g	99.97	n/a	34.53	39.23	36.88	12.7	n/a	n/a
S961001087	A	TIC by Acid/Coulometry	ug/g	99.67	1.600	8.82e+03	9.02e+03	8.92e+03	2.24	5.000	n/a

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Sample #	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001057		TOC by Persulfate/Coulometry	ug/g	94.00	2.700	5.21e+03	5.12e+03	5.16e+03		N/A	40.00	N/A
S96T001058		Fluoride - IC-Dioxex 40001/4500	ug/g	100.0	<1.30e-02	5.66e+02	568.0	577.0	3.81	104.2	134.7	N/A
S96T001059		Chloride - IC-Dioxex 40001/4500	ug/g	100.0	<1.70e-02	5.86e+03	5.89e+03	5.88e+03	0.51	144.3	176.2	N/A
S96T001060		Nitrate - IC - Dioxex 40001/4500	ug/g	98.78	<1.07e-01	6.23e+04	6.39e+04	6.31e+04	2.54	105.6	1.11e+03	N/A
S96T001061		Bromide by Ion Chromatograph	ug/g	98.99	<1.26e-01	<1.31e+03	<1.41e+3		N/A	96.35	1.11e+03	N/A
S96T001062		Nitrate by IC-Dioxex 40001/4500	ug/g	95.60	<1.40e-01	2.34e+05	2.57e+05	2.55e+05	1.57	105.5	1.45e+03	N/A
S96T001063		Phosphate by IC-Dioxex 40001/4500	ug/g	93.41	<1.19e-01	1.36e+04	1.45e+04	1.41e+04	6.41	90.66	1.23e+03	N/A
S96T001064		Sulfate by IC - Dioxex 40001/4500	ug/g	97.46	<1.36e-01	7.05e+03	7.05e+03	7.05e+03	0.00	94.29	1.41e+03	N/A
S96T001065		Sulfate by IC - Dioxex 40001	ug/g	97.25	<1.05e-01	5.99e+03	6.17e+03	6.08e+03	2.96	98.51	1.09e+03	N/A
S96T001066		Silver - ICP-Acid Digest	ug/g	94.80	<1.00e-02	14.80	14.70	14.75	0.68	N/A	5.320	N/A
S96T001067		Aluminum - ICP-Acid Digest	ug/g	97.20	<9.20e-02	1.95e+04	1.83e+04	1.89e+04	6.35	N/A	26.60	N/A
S96T001068		Boron - ICP-Acid Digest	ug/g	98.40	<1.00e-01	<53.20	<5.48e1		N/A	N/A	53.20	N/A
S96T001069		Beryllium - ICP-Acid Digest	ug/g	110.6	<3.17e-01	47.50	50.50	49.00	6.12	N/A	26.60	N/A
S96T001070		Barium - ICP-Acid Digest	ug/g	97.60	<5.00e-02	2.660	<2.74e1	N/A	N/A	N/A	2.660	N/A
S96T001071		Bismuth - ICP-Acid Digest	ug/g	108.8	<5.00e-03	2.660	<2.74e1	60.05	11.2	N/A	53.20	N/A
S96T001072		Calcium - ICP-Acid Digest	ug/g	95.20	<1.00e-01	63.40	56.70	60.05	3.43	N/A	53.20	N/A
S96T001073		Cadmium - ICP-Acid Digest	ug/g	95.80	<1.12e-01	3.26e+02	315.0	320.5	3.79	N/A	2.660	N/A
S96T001074		Cerium - ICP-Acid Digest	ug/g	93.60	<5.00e-03	7.500	7.790	7.645	3.79	N/A	53.20	N/A
S96T001075		Cobalt - ICP-Acid Digest	ug/g	100.4	<1.00e-01	53.20	<5.48e1		N/A	N/A	53.20	N/A
S96T001076		Chromium - ICP-Acid Digest	ug/g	94.40	<2.00e-02	10.60	<1.10e1	N/A	2.18	N/A	10.60	N/A
S96T001077		Copper - ICP-Acid Digest	ug/g	98.00	<1.60e-02	6.02e+03	5.89e+03	5.96e+03	2.18	N/A	5.320	N/A
S96T001078		Iron - ICP-Acid Digest	ug/g	95.20	<5.00e-02	1.72e+03	1.69e+03	1.70e+03	1.76	N/A	26.60	N/A
S96T001079		Potassium - ICP-Acid Digest	ug/g	96.40	<5.00e-01	1.69e+03	1.58e+03	1.64e+03	6.73	N/A	266.0	N/A
S96T001080		Lanthanum - ICP-Acid Digest	ug/g	98.60	<5.00e-02	<2.660	<2.74e1		N/A	N/A	26.60	N/A
S96T001081		Lithium - ICP-Acid Digest	ug/g	100.2	<1.00e-02	<5.320	<5.48e0		N/A	N/A	5.320	N/A
S96T001082		Magnesium - ICP-Acid Digest	ug/g	94.00	<1.00e-01	1.09e+02	108.0	108.5	0.92	N/A	53.20	N/A
S96T001083		Manganese - ICP-Acid Digest	ug/g	92.60	<1.00e-02	6.51e+02	630.0	640.5	3.28	N/A	5.320	N/A
S96T001084		Molybdenum - ICP-Acid Digest	ug/g	94.00	<5.00e-02	47.70	44.90	46.30	6.05	N/A	26.60	N/A
S96T001085		Sodium - ICP-Acid Digest	ug/g	120.0	<5.47e-01	1.73e+05	1.68e+05	1.70e+05	2.93	N/A	53.20	N/A
S96T001086		Neodymium - ICP-Acid Digest	ug/g	120.0	<1.00e-01	<53.20	<5.48e1		N/A	N/A	53.20	N/A
S96T001087		Nickel - ICP-Acid Digest	ug/g	96.20	<2.00e-02	58.20	55.60	56.90	4.57	N/A	10.60	N/A
S96T001088		Phosphorus - ICP-Acid Digest	ug/g	98.00	<2.00e-01	3.68e+03	3.36e+03	3.50e+03	8.27	N/A	106.0	N/A
S96T001089		Lead - ICP-Acid Digest	ug/g	89.60	<1.00e-01	1.13e+02	110.0	111.5	2.69	N/A	53.20	N/A
S96T001090		Sulfur - ICP-Acid Digest	ug/g	96.60	<1.00e-01	1.52e+03	1.43e+03	1.48e+03	6.10	N/A	53.20	N/A
S96T001091		Antimony - ICP-Acid Digest	ug/g	94.80	<6.00e-01	<31.90	<3.29e1		N/A	N/A	31.90	N/A
S96T001092		Selenium - ICP-Acid Digest	ug/g	94.80	<1.00e-01	1.31e+02	<1.54e1		N/A	N/A	53.20	N/A
S96T001093		Silicon - ICP-Acid Digest	ug/g	113.6	<9.80e-02	134.0	142.5	142.5	16.1	N/A	26.60	N/A
S96T001094		Samarium - ICP-Acid Digest	ug/g	97.20	<1.00e-01	<53.20	<5.48e1		N/A	N/A	53.20	N/A
S96T001095		Strontium - ICP-Acid Digest	ug/g	97.20	<1.00e-02	<5.320	<5.48e0		N/A	N/A	5.320	N/A
S96T001096		Titanium - ICP-Acid Digest	ug/g	88.60	<1.00e-02	<1.06e+02	6.010	5.855	5.29	N/A	106.0	N/A
S96T001097		Thallium - ICP-Acid Digest	ug/g	92.40	<2.00e-01	<1.06e+02	<1.74e2		N/A	N/A	266.0	N/A
S96T001098		Uranium - ICP-Acid Digest	ug/g	99.70	<5.00e-01	<2.66e+02	<2.74e2		N/A	N/A	26.60	N/A
S96T001099		Vanadium - ICP-Acid Digest	ug/g	95.00	<5.00e-02	<2.660	<2.74e1		N/A	N/A	5.320	N/A
S96T001100		Zinc - ICP-Acid Digest	ug/g	92.00	<1.00e-02	42.00	41.80	41.80	0.96	N/A	5.320	N/A
S96T001101		Zirconium - ICP-Acid Digest	ug/g	98.20	<1.00e-02	7.950	7.310	7.630	8.39	N/A	5.320	N/A
S96T001102		Alpha of Digested Solid	ug/g	108.6	<1.18e-02	2.85e-01	3.19e-01	3.02e-01	11.3	N/A	2.00e+02	1.08E+01
S96T001103		Silver - ICP-Acid Digest	ug/g	86.40	<1.00e-02	<9.180	<8.93e0		N/A	N/A	9.180	N/A
S96T002286		Aluminum - ICP-Acid Digest	ug/g	89.40	<5.30e-02	2.11e+04	2.09e+04	2.10e+04	0.95	N/A	45.90	N/A
S96T002286		Arsenic - ICP-Acid Digest	ug/g	90.80	<1.00e-01	<91.80	<8.93e1		N/A	N/A	91.80	N/A

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Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002286	A	Boron - ICP-Acid Digest	µg/g	97.20	3.78e-01	55.80	97.00	76.40	53.9	N/A	45.90	N/A
S961002286	A	Barium - ICP-Acid Digest	µg/g	89.00	< 5.00e-02	< 45.90	< 4.47e1	N/A	N/A	N/A	45.90	N/A
S961002286	A	Beryllium - ICP-Acid Digest	µg/g	98.00	< 5.00e-03	< 4.500	< 4.47e0	N/A	N/A	N/A	4.500	N/A
S961002286	A	Bismuth - ICP-Acid Digest	µg/g	87.00	< 1.00e-01	< 91.80	< 8.93e1	N/A	N/A	N/A	91.80	N/A
S961002286	A	Calcium - ICP-Acid Digest	µg/g	91.40	4.35e-01	3.31e+02	321.0	326.0	3.07	N/A	91.80	N/A
S961002286	A	Cadmium - ICP-Acid Digest	µg/g	88.60	< 5.00e-03	10.40	8.710	9.555	17.7	N/A	4.500	N/A
S961002286	A	Cerium - ICP-Acid Digest	µg/g	91.40	< 1.00e-01	< 91.80	< 8.93e1	N/A	N/A	N/A	91.80	N/A
S961002286	A	Cobalt - ICP-Acid Digest	µg/g	90.60	< 2.00e-02	< 18.40	< 1.79e1	N/A	N/A	N/A	18.40	N/A
S961002286	A	Chromium - ICP-Acid Digest	µg/g	91.60	< 1.00e-02	6.92e+03	6.86e+03	6.89e+03	0.87	N/A	9.180	N/A
S961002286	A	Copper - ICP-Acid Digest	µg/g	85.40	1.90e-02	16.10	17.70	16.90	9.47	N/A	9.180	N/A
S961002286	A	Potassium - ICP-Acid Digest	µg/g	90.80	< 5.00e-02	1.98e+03	2.16e+03	2.07e+03	8.70	N/A	45.90	N/A
S961002286	A	Lanthanum - ICP-Acid Digest	µg/g	98.60	5.29e-01	1.84e+03	1.85e+03	1.84e+03	0.54	N/A	45.90	N/A
S961002286	A	Lithium - ICP-Acid Digest	µg/g	90.00	< 5.00e-02	< 45.90	< 4.47e1	N/A	N/A	N/A	45.90	N/A
S961002286	A	Magnesium - ICP-Acid Digest	µg/g	87.40	< 1.00e-02	< 9.180	< 8.93e0	N/A	N/A	N/A	9.180	N/A
S961002286	A	Manganese - ICP-Acid Digest	µg/g	88.20	< 1.00e-01	1.18e+02	117.0	117.5	0.85	N/A	9.180	N/A
S961002286	A	Molybdenum - ICP-Acid Digest	µg/g	90.40	< 1.00e-02	7.80e+02	771.0	775.5	1.16	N/A	45.90	N/A
S961002286	A	Niobium - ICP-Acid Digest	µg/g	89.60	< 5.00e-02	50.10	49.70	49.90	0.80	N/A	45.90	N/A
S961002286	A	Sodium - ICP-Acid Digest	µg/g	97.00	6.07e-01	1.84e+05	1.82e+05	1.83e+05	1.09	N/A	91.80	N/A
S961002286	A	Nickel - ICP-Acid Digest	µg/g	89.20	< 1.00e-01	< 91.80	< 8.93e1	N/A	N/A	N/A	91.80	N/A
S961002286	A	Phosphorus - ICP-Acid Digest	µg/g	93.40	< 2.00e-02	4.41e+03	4.26e+03	4.34e+03	3.46	N/A	18.40	N/A
S961002286	A	Lead - ICP-Acid Digest	µg/g	87.00	< 1.00e-01	1.34e+02	138.0	136.0	2.94	N/A	91.80	N/A
S961002286	A	Sulfur - ICP-Acid Digest	µg/g	90.20	< 1.00e-02	< 55.10	< 5.36e1	1.62e+03	5.99	N/A	91.80	N/A
S961002286	A	Antimony - ICP-Acid Digest	µg/g	103.2	< 1.00e-01	8.86e+02	854.0	870.0	3.68	N/A	55.10	N/A
S961002286	A	Selenium - ICP-Acid Digest	µg/g	120.6	9.00e-02	3.56e+02	383.0	369.5	7.31	N/A	91.80	N/A
S961002286	A	Silicon - ICP-Acid Digest	µg/g	90.60	< 1.00e-01	< 91.80	< 8.93e1	N/A	N/A	N/A	45.90	N/A
S961002286	A	Strontium - ICP-Acid Digest	µg/g	88.40	< 1.00e-02	< 9.180	< 8.93e0	N/A	N/A	N/A	9.180	N/A
S961002286	A	Titanium - ICP-Acid Digest	µg/g	84.00	< 1.00e-02	< 9.180	< 8.93e0	N/A	N/A	N/A	9.180	N/A
S961002286	A	Thallium - ICP-Acid Digest	µg/g	84.20	< 2.00e-01	< 1.59e+02	< 1.79e2	N/A	N/A	N/A	18.40	N/A
S961002286	A	Uranium - ICP-Acid Digest	µg/g	90.60	< 5.00e-01	< 4.59e+02	< 4.47e2	N/A	N/A	N/A	45.90	N/A
S961002286	A	Vanadium - ICP-Acid Digest	µg/g	89.40	< 5.00e-02	< 45.90	< 4.47e1	N/A	N/A	N/A	45.90	N/A
S961002286	A	Zinc - ICP-Acid Digest	µg/g	87.80	2.00e-02	50.60	47.00	48.80	7.38	N/A	9.180	N/A
S961002286	A	Zirconium - ICP-Acid Digest	µg/g	96.40	< 1.00e-02	9.360	11.00	10.18	16.1	N/A	9.180	N/A

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CORE NUMBER: 134
SEGMENT #: 5

U-107 Final Report
U-107

SEGMENT PORTION: A Top Quarter of Segment

Sample#	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD % Spk Rec %	Det Limit	Count Err%
S961001067		Bulk Density of Sample	g/mL	n/a	n/a	1.680	n/a	n/a	n/a	5.00e-01	n/a
S961001068		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a
S961001068		DSC Exotherm on Perkin Elmer	Joules/g	93.78	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a
S961001068		% Water by TGA on Perkin Elmer	%	99.34	n/a	38.28	45.35	41.81	12.4	n/a	n/a
S961001068		TIC by Acid/Coulometry	ug/g	99.34	2.100	2.71e+03	1.92e+03	2.06e+03	10.7	n/a	n/a
S961001068		TIC by Persulfate/Coulometry	ug/g	100.3	9.300	9.35e+03	8.56e+03	9.48e+03	4.57	n/a	n/a
S961001067		Fluoride - IC-Dionex 4000/14500	ug/g	93.39	<1.30e-02	4.92e+02	4.70	4.81	53.9	110.2	n/a
S961001067		Chloride - IC-Dionex 4000/14500	ug/g	98.44	<1.70e-02	3.39e+03	3.89e+03	3.64e+03	53.9	94.94	123.2
S961001067		Nitrite - IC - Dionex 4000/14500	ug/g	97.04	<1.07e-01	5.39e+04	3.26e+04	3.41e+04	10.9	101.6	775.3
S961001067		Bromide by Ion Chromatograph	ug/g	97.04	<1.26e-01	1.84e+03	2.58e+03	2.21e+03	n/a	91.65	913.1
S961001067		Nitrate by IC-Dionex4000/14500	ug/g	98.05	<1.40e-01	2.20e+03	2.51e+03	2.35e+03	13.2	104.2	1.01e+03
S961001067		Phosphate - IC-Dionex 4000/14500	ug/g	95.97	<1.19e-01	6.70e+04	5.01e+04	5.85e+04	12.5	92.67	861.8
S961001067		Sulfate by IC-Dionex4000/14500	ug/g	98.73	<1.36e-01	2.32e+03	2.91e+03	2.74e+03	16.1	94.93	984.8
S961001067		Oxalate by IC - Dionex 4000/1	ug/g	100.0	<1.05e-01	1.37e+04	1.48e+04	1.53e+04	5.90	100.6	761.0
S961001066		Aluminum - ICP-Acid Digest	ug/g	95.40	<1.00e-02	16.60	18.00	17.30	8.09	n/a	5.460
S961001066		Arsenic - ICP-Acid Digest	ug/g	97.60	<1.45e-01	1.16e+04	2.11e+04	1.64e+04	58.1	n/a	27.30
S961001066		Barium - ICP-Acid Digest	ug/g	103.8	6.37e-01	34.00	64.60	49.30	62.1	n/a	54.60
S961001066		Beryllium - ICP-Acid Digest	ug/g	95.60	<5.00e-02	27.30	<3.02e1	n/a	n/a	n/a	27.30
S961001066		Bismuth - ICP-Acid Digest	ug/g	107.2	<5.00e-03	3.730	<3.02e0	n/a	n/a	n/a	2.730
S961001066		Calcium - ICP-Acid Digest	ug/g	93.40	<1.00e-01	2.56e+02	3.79	316.5	39.5	n/a	54.60
S961001066		Cadmium - ICP-Acid Digest	ug/g	97.60	<2.87e-01	3.87e+02	668.0	527.5	53.3	n/a	54.60
S961001066		Cerium - ICP-Acid Digest	ug/g	94.60	<5.00e-03	9.360	16.60	12.98	55.8	n/a	2.730
S961001066		Cobalt - ICP-Acid Digest	ug/g	100.2	<1.00e-01	54.60	<6.04e1	n/a	n/a	n/a	54.60
S961001066		Chromium - ICP-Acid Digest	ug/g	96.80	<2.00e-02	8.09e+03	1.41e+04	1.11e+04	54.6	n/a	10.90
S961001066		Copper - ICP-Acid Digest	ug/g	92.40	<2.80e-02	28.20	37.90	33.05	29.3	n/a	5.460
S961001066		Iron - ICP-Acid Digest	ug/g	95.00	<7.10e-02	6.25e+03	1.02e+04	8.22e+03	48.0	n/a	27.30
S961001066		Lithium - ICP-Acid Digest	ug/g	95.00	<5.00e-01	5.93e+02	875.0	734.0	38.4	n/a	27.30
S961001066		Magnesium - ICP-Acid Digest	ug/g	97.60	<5.00e-02	27.30	<3.02e1	n/a	n/a	n/a	27.30
S961001066		Manganese - ICP-Acid Digest	ug/g	95.60	<1.00e-02	17.20	35.50	26.35	69.4	n/a	5.460
S961001066		Molybdenum - ICP-Acid Digest	ug/g	90.80	<1.00e-01	2.73e+02	448.0	360.5	48.5	n/a	54.60
S961001066		Nickel - ICP-Acid Digest	ug/g	95.00	<5.00e-02	1.23e+03	2.11e+03	1.67e+03	52.7	n/a	5.460
S961001066		Phosphorus - ICP-Acid Digest	ug/g	95.00	<5.00e-02	27.30	38.20	n/a	n/a	n/a	27.30
S961001066		Selenium - ICP-Acid Digest	ug/g	113.8	1.190	1.74e+05	1.54e+05	1.64e+05	12.2	n/a	54.60
S961001066		Silver - ICP-Acid Digest	ug/g	96.40	<1.00e-01	54.60	<6.04e1	n/a	n/a	n/a	54.60
S961001066		Sodium - ICP-Acid Digest	ug/g	96.40	<2.00e-02	66.60	114.0	90.30	52.5	n/a	10.90
S961001066		Vanadium - ICP-Acid Digest	ug/g	96.80	<2.00e-01	1.27e+04	2.48e+04	1.88e+04	64.5	n/a	109.0
S961001066		Zinc - ICP-Acid Digest	ug/g	92.60	<1.00e-01	3.49e+02	564.0	456.5	47.1	n/a	54.60
S961001066		Lead - ICP-Acid Digest	ug/g	94.00	<1.00e-01	2.79e+02	489.0	384.0	54.7	n/a	54.60
S961001066		Sulfur - ICP-Acid Digest	ug/g	96.60	<5.00e-02	<3.62e1	n/a	n/a	n/a	n/a	32.80
S961001066		Titanium - ICP-Acid Digest	ug/g	91.60	<1.00e-01	54.60	<6.04e1	n/a	n/a	n/a	54.60
S961001066		Antimony - ICP-Acid Digest	ug/g	138.2	6.50e-01	2.49e+02	397.0	323.0	45.8	n/a	27.30
S961001066		Strontium - ICP-Acid Digest	ug/g								

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S967001086	A	Samarium - ICP-Acid Digest	ug/g	94.80	<1.00e-01	34.60	<6.04e1	45.60	n/a	n/a	54.60	n/a
S967001086	A	Strontium - ICP-Acid Digest	ug/g	95.00	<1.00e-02	11.70	19.50	15.60	n/a	n/a	5.60	n/a
S967001086	A	Titanium - ICP-Acid Digest	ug/g	88.80	<1.00e-02	14.30	21.60	17.95	40.7	n/a	5.460	n/a
S967001086	A	Thallium - ICP-Acid Digest	ug/g	91.00	<2.00e-01	<1.09e+02	<2.12e1	n/a	n/a	n/a	109.0	n/a
S967001086	A	Thallium - ICP-Acid Digest	ug/g	92.50	<5.00e-01	5.54e+02	880.0	717.0	45.5	n/a	273.0	n/a
S967001086	A	Vanadium - ICP-Acid Digest	ug/g	93.80	<5.00e-02	27.30	<3.02e1	n/a	n/a	n/a	27.30	n/a
S967001086	A	Zinc - ICP-Acid Digest	ug/g	92.20	<1.80e-02	90.30	138.0	114.2	41.8	n/a	5.460	n/a
S967001086	F	Zirconium - ICP-Acid Digest	ug/g	101.8	<1.00e-02	18.10	20.00	19.05	9.97	n/a	5.460	n/a
S967001095	F	Alpha of Digested Solid	uCi/g	119.5	<7.05e-03	9.10e-01	6.09e-01	7.60e-01	39.6	87.19	1.50e-02	8.08e+00

B Second Quarter of Segment: B Second Quarter of Segment

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S967001058	DSC	Exotherm using Mettler	Joules/g	94.90	n/a	11.50	79.70	45.60	150	n/a	n/a	n/a
S967001058	DSC	Exotherm Dry. Calculated	Joules/g	n/a	n/a	18.11	125.5	71.81	150	n/a	n/a	n/a
S967001058	%	Water by TGA using Mettler	%	99.97	n/a	44.21	28.19	36.20	44.3	n/a	n/a	n/a
S967001058	TIC	by Acid/Coulometry	ug/g	99.67	1.600	3.85e+03	3.96e+03	3.90e+03	2.82	92.00	5.000	n/a
S967001058	TOC	by Persulfate/Coulometry	ug/g	94.00	2.700	5.11e+03	5.19e+03	5.15e+03	1.55	90.00	40.00	n/a
S967001066		Bulk Density of Sample	g/mL	n/a	n/a	1.760	n/a	n/a	n/a	n/a	5.00e-01	n/a
S967001076	W	Fluoride-IC-Dionex 40001/4500	ug/g	91.02	<1.30e-02	3.78e+02	319.0	348.2	16.9	n/a	128.3	n/a
S967001076	W	Chloride-IC-Dionex 40001/4500	ug/g	99.24	<1.70e-02	3.38e+03	2.87e+03	3.12e+03	16.3	n/a	167.7	n/a
S967001076	W	Nitrite-IC - Dionex 40001/4500	ug/g	99.31	<1.07e-01	3.57e+04	3.05e+04	3.31e+04	15.7	n/a	1.06e+03	n/a
S967001076	W	Bromide by Ion Chromatograph	ug/g	98.26	<1.26e-01	2.56e+03	2.63e+03	2.60e+03	2.70	n/a	1.24e+03	n/a
S967001076	W	Nitrate by IC-Dionex 40001/4500	ug/g	96.09	<1.40e-01	2.64e+03	2.49e+03	2.57e+03	5.85	n/a	1.38e+03	n/a
S967001076	W	Phosphate-IC-Dionex 40001/4500	ug/g	94.87	<1.19e-01	6.03e+04	4.97e+04	5.50e+04	19.3	n/a	1.17e+03	n/a
S967001076	W	Sulfate by IC-Dionex 40001/4500	ug/g	97.31	<1.36e-01	3.79e+03	3.51e+03	3.65e+03	7.67	n/a	1.34e+03	n/a
S967001076	W	Oxalate by IC - Dionex 40001	ug/g	99.44	<1.05e-01	9.93e+03	8.16e+03	9.05e+03	19.6	n/a	1.04e+03	n/a
S967001085	A	Silver - ICP-Acid Digest	ug/g	94.50	<1.00e-02	13.00	13.70	13.35	5.24	91.40	5.890	n/a
S967001085	A	Aluminum - ICP-Acid Digest	ug/g	95.40	<1.43e-01	1.43e+04	2.09e+04	1.76e+04	37.5	839.5	29.40	n/a
S967001085	A	Arsenic - ICP-Acid Digest	ug/g	97.60	<1.00e-01	58.80	<5.55e1	n/a	n/a	n/a	92.20	58.80
S967001085	A	Boron - ICP-Acid Digest	ug/g	103.8	6.37e-01	34.10	144.0	89.05	123	90.92	29.40	n/a
S967001085	A	Barium - ICP-Acid Digest	ug/g	95.60	<5.00e-02	<2.940	<2.78e1	n/a	n/a	91.60	29.40	n/a
S967001085	A	Beryllium - ICP-Acid Digest	ug/g	107.2	<5.00e-03	<2.940	<2.78e1	n/a	n/a	92.60	2.940	n/a
S967001085	A	Bismuth - ICP-Acid Digest	ug/g	95.40	<1.00e-01	1.07e+02	116.0	111.5	8.07	92.90	58.80	n/a
S967001085	A	Calcium - ICP-Acid Digest	ug/g	97.60	<2.87e-01	4.49e+02	449.0	465.0	6.88	89.76	58.80	n/a
S967001085	A	Cadmium - ICP-Acid Digest	ug/g	94.40	<5.00e-03	8.930	8.210	8.570	8.40	91.28	2.940	n/a
S967001085	A	Cerium - ICP-Acid Digest	ug/g	100.2	<1.00e-01	58.80	<5.55e1	n/a	n/a	95.80	58.80	n/a
S967001085	A	Cobalt - ICP-Acid Digest	ug/g	95.80	<2.00e-02	<11.80	<1.11e1	n/a	n/a	93.00	11.80	n/a
S967001085	A	Chromium - ICP-Acid Digest	ug/g	95.20	<1.00e-02	8.04e+03	8.39e+03	8.22e+03	4.26	148.1	5.890	n/a
S967001085	A	Copper - ICP-Acid Digest	ug/g	94.40	<2.80e-02	11.80	12.10	11.95	2.51	89.20	5.890	n/a
S967001085	A	Iron - ICP-Acid Digest	ug/g	95.00	<7.00e-02	3.45e+03	3.52e+03	3.48e+03	2.01	120.4	29.40	n/a
S967001085	A	Potassium - ICP-Acid Digest	ug/g	95.20	<5.00e-01	7.67e+02	780.0	773.5	1.68	89.76	294.0	n/a
S967001085	A	Lanthanum - ICP-Acid Digest	ug/g	97.40	<5.00e-02	<29.40	<2.78e1	n/a	n/a	95.00	29.40	n/a
S967001085	A	Lithium - ICP-Acid Digest	ug/g	95.60	<1.00e-01	53.60	51.60	52.60	3.80	90.54	5.890	n/a
S967001085	A	Magnesium - ICP-Acid Digest	ug/g	90.80	<1.00e-02	1.57e+02	155.0	156.0	1.28	85.44	58.80	n/a
S967001085	A	Manganese - ICP-Acid Digest	ug/g	93.00	<1.00e-02	2.27e+03	2.28e+03	2.28e+03	0.44	108.9	5.890	n/a
S967001085	A	Molybdenum - ICP-Acid Digest	ug/g	95.00	<5.00e-02	<29.40	<2.78e1	n/a	n/a	93.00	29.40	n/a
S967001085	A	Sodium - ICP-Acid Digest	ug/g	113.8	<1.190	1.63e+05	1.73e+05	1.68e+05	5.95	1.74e+03	58.80	n/a
S967001085	A	Niobium - ICP-Acid Digest	ug/g	96.40	<1.00e-01	58.80	<5.55e1	n/a	n/a	94.60	58.80	n/a
S967001085	A	Nickel - ICP-Acid Digest	ug/g	96.40	<2.00e-02	70.40	81.60	76.00	14.7	93.22	11.80	n/a

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961001085	A	Phosphorus - ICP-Acid Digest	ug/g	96.80	<2.00e-01	1.64e+04	1.58e+04	1.61e+04	3.73	n/a	118.0	n/a
S961001085	A	Lead - ICP-Acid Digest	ug/g	92.60	<1.00e-01	2.56e+02	266.0	261.0	3.83	91.34	58.80	n/a
S961001085	A	Sulfur - ICP-Acid Digest	ug/g	94.00	<1.00e-01	5.16e+02	517.0	516.5	0.19	94.76	58.80	n/a
S961001085	A	Antimony - ICP-Acid Digest	ug/g	96.60	<6.00e-02	< 35.30	<3.33e+1	n/a	n/a	92.00	35.30	n/a
S961001085	A	Selenium - ICP-Acid Digest	ug/g	91.60	<1.00e-01	< 58.80	<5.55e+1	n/a	n/a	86.80	58.80	n/a
S961001085	A	Silicon - ICP-Acid Digest	ug/g	138.2	6.50e-01	3.02e+02	393.0	347.5	26.2	39.38	20.40	n/a
S961001085	A	Samarium - ICP-Acid Digest	ug/g	94.80	<1.00e-01	< 58.80	<5.55e+1	n/a	n/a	90.80	58.80	n/a
S961001085	A	Strontium - ICP-Acid Digest	ug/g	95.00	<1.00e-02	7.440	7.240	7.590	3.99	90.64	5.890	n/a
S961001085	A	Titanium - ICP-Acid Digest	ug/g	88.80	<1.00e-02	9.140	8.890	9.015	2.77	80.84	5.890	n/a
S961001085	A	Thallium - ICP-Acid Digest	ug/g	91.00	<2.00e-01	<1.18e+02	<1.142	n/a	n/a	88.20	118.0	n/a
S961001085	A	Uranium - ICP-Acid Digest	ug/g	92.50	<5.00e-01	3.33e+02	334.6	333.5	0.30	89.03	20.40	n/a
S961001085	A	Vanadium - ICP-Acid Digest	ug/g	93.80	<5.00e-02	< 29.40	<2.78e+1	n/a	n/a	91.00	29.40	n/a
S961001085	A	Zinc - ICP-Acid Digest	ug/g	92.20	1.80e-02	83.90	85.40	84.5	1.77	91.04	5.890	n/a
S961001085	A	Zirconium - ICP-Acid Digest	ug/g	101.8	<1.00e-02	11.80	7.030	9.435	50.7	12.70	5.890	n/a
S961001094	F	Alpha of Digested Solid	uc/g	110.9	<8.72e-03	4.30e-01	3.82e-01	4.06e-01	11.8	n/a	2.90e-02	1.28e+01

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U-107 Final Report
U-107

CORE NUMBER: 135
SEGMENT #: 1R

SEGMENT PORTION: W Whole Segment

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002132		DSC Exotherm using Mettler	Joules/g	104.7	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S961002132		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S961002141		% Water by IGA using Mettler	%	99.70	n/a	18.55	16.45	17.50	12.0	n/a	n/a	n/a
S961002135		F Cbalat-60 by GEA	UG/g	98.66	<1.35e-02	<1.30e-02	<1.37e-2	70.01	n/a	n/a	1.30e-02	n/a
S961002135		F Cesium-137 by GEA	UG/g	99.11	<5.01e-02	72.32	67.70	70.01	6.57	n/a	n/a	0.560
S961002135		F Europium-154 by GEA	UG/g	n/a	<5.49e-02	<3.47e-02	<4.36e-2	n/a	n/a	n/a	3.50e-02	n/a
S961002135		F Europium-151 by GEA	UG/g	n/a	<5.05e-02	<1.93e-01	<1.93e-01	n/a	n/a	n/a	2.00e-01	n/a
S961002135		F Americium-241 by GEA	UG/g	n/a	<1.31e-01	<5.13e-01	<5.09e-1	n/a	n/a	n/a	5.13e-01	n/a
S961002135		F Alpha of Digested Solid	UG/g	98.44	<1.75e-03	<2.88e-03	<2.76e-3	n/a	n/a	n/a	4.00e-03	2.53e+02

Drainable Liquid: Drainable Liquid

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002141		DSC Exotherm using Mettler	Joules/g	106.5	n/a	2.96e+02	273.3	262.8	8.04	n/a	n/a	n/a
S961002141		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	5.59e+02	516.0	537.6	8.04	n/a	n/a	n/a
S961002141		OH- by Pot. Titration	ug/mL	99.16	<42.00	2.27e+04	2.81e+04	2.54e+04	21.3	n/a	2.50e+03	n/a
S961002141		pH Direct	pH	97.93	n/a	12.70	12.69	12.70	0.08	n/a	1.00e-02	n/a
S961002141		Specific Gravity	Sp.G.	97.93	n/a	1.470	1.412	1.443	4.30	n/a	1.00e-03	n/a
S961002141		% Water by IGA using Mettler	%	99.53	n/a	47.03	47.02	47.03	0.02	n/a	n/a	n/a
S961002141		TIC by Acid/Countmetry	ug/mL	100.3	1.000	4.94e+03	5.01e+03	4.98e+03	1.41	n/a	5.000	n/a
S961002141		TOC by Persulfate/Countmetry	ug/mL	95.00	5.700	3.19e+03	3.20e+03	3.20e+03	0.31	n/a	40.00	n/a
S961002141		Strontium-89/90 High Level	UG/mL	102.4	6.40e-02	1.24e-01	1.12e-01	1.18e-01	10.2	n/a	3.30e-02	2.65e+01
S961002141		Pu-239/240 by TRU-SPEC Resin	UG/mL	93.96	<3.04e-05	3.84e-05	4.10e-05	3.97e-05	6.55	n/a	3.20e-05	7.60e+00
S961002141		D Silicon-IP-Acid DIL	ug/mL	98.00	<1.00e-02	16.90	16.70	16.80	1.19	44.50	6.010	n/a
S961002141		D Aluminum-IP-Acid DIL	ug/mL	97.60	<5.00e-02	2.35e+04	2.35e+04	2.35e+04	0.00	n/a	30.10	n/a
S961002141		D Arsenic-IP-Acid DIL	ug/mL	101.8	<1.00e-01	< 60.10	<60.10	n/a	n/a	96.40	60.10	n/a
S961002141		D Barium-IP-Acid DIL	ug/mL	100.8	<5.00e-02	< 69.70	<69.90	69.80	0.29	96.30	30.10	n/a
S961002141		D Beryllium-IP-Acid DIL	ug/mL	99.80	<5.00e-02	< 30.10	<30.10	n/a	n/a	98.40	30.10	n/a
S961002141		D Benzyltrim-IP-Acid DIL	ug/mL	103.2	<5.00e-03	< 3.000	<3.00e0	n/a	n/a	101.4	3.000	n/a
S961002141		D Calcium-IP-Acid DIL	ug/mL	100.6	<1.00e-03	< 60.10	<60.10	n/a	n/a	103.1	60.10	n/a
S961002141		D Cadmium-IP-Acid DIL	ug/mL	102.6	<5.00e-03	< 3.000	<31.20	95.80	5.43	101.0	60.10	n/a
S961002141		D Cerium-IP-Acid DIL	ug/mL	99.20	<5.00e-03	< 60.10	<3.00e0	n/a	n/a	98.40	3.000	n/a
S961002141		D Cobalt-IP-Acid DIL	ug/mL	102.4	<2.00e-02	< 12.00	<40.10	n/a	n/a	101.4	60.10	n/a
S961002141		D Cobalt-IP-Acid DIL	ug/mL	100.4	<2.00e-02	< 60.10	<1.20e1	n/a	n/a	99.80	12.00	n/a
S961002141		D Chromium-IP-Acid DIL	ug/mL	101.0	<1.00e-02	7.99e+03	762.0	796.2	0.63	91.40	6.010	n/a
S961002141		D Copper-IP-Acid DIL	ug/mL	103.8	<1.00e-02	< 60.10	<40.10	n/a	n/a	102.8	6.010	n/a
S961002141		D I-131-IP-Acid DIL	ug/mL	101.0	<5.00e-02	< 30.10	<30.10	n/a	n/a	101.1	30.10	n/a
S961002141		D Potassium-IP-Acid DIL	ug/mL	93.60	<5.00e-01	3.27e+03	3.05e+03	3.13e+03	5.11	100.4	30.10	n/a
S961002141		D Lanthanum-IP-Acid DIL	ug/mL	100.6	<5.00e-02	< 45.10	<30.10	n/a	n/a	98.90	6.010	n/a
S961002141		D Lithium-IP-Acid DIL	ug/mL	100.2	<1.00e-02	< 60.10	<60.10	n/a	n/a	95.80	60.10	n/a
S961002141		D Magnesium-IP-Acid DIL	ug/mL	97.80	<1.00e-02	< 60.10	<60.10	n/a	n/a	95.10	6.010	n/a
S961002141		D Manganese-IP-Acid DIL	ug/mL	97.60	<1.00e-02	< 60.10	<60.10	n/a	n/a	95.10	6.010	n/a
S961002141		D Molybdenum-IP-Acid DIL	ug/mL	101.0	<5.00e-02	93.10	92.80	92.95	0.32	100.4	30.10	n/a

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002141	D	Sodium-ICP-Acid Dil.	ug/mL	98.60	<1.00e-01	2.34e+05	2.33e+05	2.34e+05	0.43	N/A	60.10	N/A
S961002141	D	Neodymium-ICP-Acid Dil.	ug/mL	101.4	<1.00e-01	< 60.10	<6.01e1	< 60.10	N/A	100.8	60.10	N/A
S961002141	D	Nickel-ICP-Acid Dil.	ug/mL	98.80	<2.00e-02	16.80	15.30	16.05	9.35	96.80	12.00	N/A
S961002141	D	Phosphorus-ICP-Acid Dil.	ug/mL	98.40	<2.00e-02	1.21e+03	1.21e+03	1.21e+03	0.00	79.20	120.0	N/A
S961002141	D	Lead-ICP-Acid Dil.	ug/mL	98.60	<1.00e-01	< 60.10	<6.01e1	< 60.10	N/A	99.10	60.10	N/A
S961002141	D	Sulfur-ICP-Acid Dil.	ug/mL	99.20	<1.00e-01	2.59e+03	2.57e+03	2.58e+03	0.78	72.80	60.10	N/A
S961002141	D	Antimony-ICP-Acid Dil.	ug/mL	96.20	<6.00e-02	< 36.10	<3.61e1	< 36.10	N/A	94.60	36.10	N/A
S961002141	D	Selenium-ICP-Acid Dil.	ug/mL	97.60	<1.00e-01	< 60.10	<6.01e1	< 60.10	N/A	101.4	60.10	N/A
S961002141	D	Silicon-ICP-Acid Dil.	ug/mL	95.00	<5.00e-02	1.12e+02	111.0	111.5	0.90	93.50	30.10	N/A
S961002141	D	Samarium-ICP-Acid Dil.	ug/mL	98.00	<1.00e-01	< 60.10	<6.01e1	< 60.10	N/A	96.60	60.10	N/A
S961002141	D	Strontium-ICP-Acid Dil.	ug/mL	99.40	<1.00e-02	< 6.010	<6.01e0	< 6.010	N/A	98.80	6.010	N/A
S961002141	D	Titanium-ICP-Acid Dil.	ug/mL	98.20	<1.00e-02	<1.20e+02	<1.20e+02	<1.20e+02	N/A	92.50	120.0	N/A
S961002141	D	Thallium-ICP-Acid Dil.	ug/mL	97.70	<5.00e-01	<3.00e+02	<3.00e+02	<3.00e+02	N/A	94.60	300.0	N/A
S961002141	D	Vanadium-ICP-Acid Dil.	ug/mL	100.6	<5.00e-02	< 30.10	<3.01e1	< 30.10	N/A	99.80	30.10	N/A
S961002141	D	Zinc-ICP-Acid Dil.	ug/mL	100.2	<1.00e-02	17.20	16.50	16.85	4.15	100.6	6.010	N/A
S961002141	D	Zirconium-ICP-Acid Dil.	ug/mL	99.00	<1.00e-02	< 6.010	<6.01e0	< 6.010	N/A	98.40	6.010	N/A
S961002141	D	Fluoride-IC-Dionex 4000i/4500	ug/mL	103.2	<1.30e-02	< 55.83	<5.58e1	< 55.83	N/A	N/A	53.83	N/A
S961002141	D	Chloride-IC-Dionex 4000i/4500	ug/mL	94.05	<1.70e-02	9.32e+03	9.72e+03	9.52e+03	4.20	N/A	70.40	N/A
S961002141	D	Nitrite-IC - Dionex 4000i/4500	ug/mL	98.54	<1.07e-01	1.14e+05	1.16e+05	1.15e+05	1.74	N/A	443.1	N/A
S961002141	D	Nitrate-IC - Ion Chromatograph	ug/mL	95.83	<1.26e-01	<5.22e+02	<5.22e+02	<5.22e+02	N/A	N/A	521.8	N/A
S961002141	D	Phosphate-IC-Dionex 4000i/4500	ug/mL	98.70	<1.51e-01	3.73e+03	4.65e+03	4.19e+03	0.00	N/A	1.43e+03	N/A
S961002141	D	Sulfate by IC-Dionex 4000i/4500	ug/mL	98.42	<1.36e-01	7.02e+03	7.33e+03	7.18e+03	22.0	N/A	492.4	N/A
S961002141	D	Oxalate by IC-Dionex 4000i	ug/mL	99.61	<1.05e-01	5.53e+02	637.0	596.1	13.8	N/A	434.8	N/A
S961002141	D	Cobalt-60 by GEA	ug/mL	95.48	<1.66e-03	<2.93e-2	<2.93e-2	<2.93e-2	N/A	N/A	3.30e-02	N/A
S961002141	D	Cesium-137 by GEA	uCi/mL	97.19	<4.92e-03	<5.68e-02	571.0	568.0	1.06	N/A	N/A	0.250
S961002141	D	Europium-154 by GEA	uCi/mL	N/A	<4.02e-03	<1.26e-01	<9.91e-2	<9.91e-2	N/A	N/A	1.26e-01	N/A
S961002141	D	Europium-155 by GEA	uCi/mL	N/A	<7.42e-03	<1.030	<1.03e0	<1.03e0	N/A	N/A	1.030	N/A
S961002141	D	Americium-241 by GEA	uCi/mL	N/A	<1.41e-02	< 2.072	<2.07e0	<2.07e0	N/A	N/A	2.072	N/A
S961002141	D	Alpha in Liquid Samples	uCi/mL	109.4	<1.33e-02	<1.65e-2	<1.65e-2	<1.65e-2	N/A	N/A	2.00e-02	1.67e+02

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CORE NUMBER: 135
SEGMENT #: 2A

U-107 Final Report
U-107

SEGMENT PORTION: W Whole Segment

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S941002130		Bulk Density of Sample	g/ml	n/a		1.880	n/a	n/a	n/a	n/a	5.00e-01	n/a
S941002133		DSC Exotherm using Mettler	Joules/g	102.6	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S941002133		DSC Exotherm Dry	Joules/g	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S941002133		% Water by IGA using Mettler	%	99.53	n/a	16.38	15.46	15.92	5.78	n/a	n/a	n/a
S941002133		TIC by Acid/Coulometry	ug/g	97.51	1.700	1.43e+03	1.42e+03	1.42e+03	0.70	109.0	5.000	n/a
S941002133		TIC by Persulfate/Coulometry	ug/g	90.00	1.200	1.21e+03	1.19e+03	1.18e+03	5.08	93.10	40.000	n/a
S941002136		F Cobalt - 60 by GEA	ug/g	98.66	<1.35e-02	<1.42e-02	<1.65e-2	<1.65e-2	0.81	n/a	1.40e-02	n/a
S941002136		F Cesium - 137 by GEA	ug/g	99.11	<5.01e-02	62.33	61.80	62.06	0.81	n/a	n/a	0.600
S941002136		F Europium - 154 by GEA	ug/g	n/a	<5.09e-02	<4.36e-02	<5.60e-2	n/a	n/a	n/a	4.40e-02	n/a
S941002136		F Europium - 155 by GEA	ug/g	n/a	<5.05e-02	<1.82e-01	<1.89e-1	n/a	n/a	n/a	4.84e-01	n/a
S941002136		F Americium - 241 by GEA	ug/g	n/a	<1.31e-01	<4.84e-01	<4.91e-1	n/a	n/a	n/a	4.84e-01	n/a
S941002136		F Alpha of Digested Solid	ug/g	115.6	<1.73e-02	<1.09e-02	<1.00e-2	1.52e-02	56.1	n/a	4.00e-03	4.07e+01
S941002160		W Fluoride - IC-Dionex 40001/4500	ug/g	99.83	<1.30e-02	<97.62	<1.00e-2	1.93e+03	2.60	n/a	127.7	n/a
S941002160		W Chloride - IC-Dionex 40001/4500	ug/g	90.76	<1.01e-02	<1.32e+04	2.23e+04	2.28e+04	3.96	n/a	803.6	n/a
S941002160		W Nitrite - IC - Dionex 40001/4500	ug/g	96.35	<1.07e-01	<9.71e2	<9.71e2	n/a	n/a	n/a	1.08e+03	n/a
S941002160		W Bromide by Ion Chromatograph	ug/g	97.56	<1.26e-01	<5.46e+05	4.94e+05	5.09e+05	5.70	n/a	893.0	n/a
S941002160		W Nitrate by IC-Dionex40001/4500	ug/g	97.56	<1.19e-01	<3.70e+03	3.83e+03	3.76e+03	3.45	n/a	1.02e+03	n/a
S941002160		W Phosphate - IC-Dionex 40001/4500	ug/g	96.51	<1.36e-01	<1.87e+03	2.01e+03	1.94e+03	7.22	n/a	788.4	n/a
S941002160		W Sulfate by IC - Dionex40001/4500	ug/g	97.86	<1.05e-01	<7.88e+02	<8.10e2	n/a	n/a	n/a	4.920	n/a
S941002161		A Silver - ICP-Acid Digest	ug/g	77.70	<1.00e-02	<14.30	<14.50	16.40	1.39	n/a	24.60	n/a
S941002161		A Aluminum - ICP-Acid Digest	ug/g	79.00	<1.00e-02	<5.23e+03	5.11e+03	5.17e+03	2.32	n/a	49.20	n/a
S941002161		A Arsenic - ICP-Acid Digest	ug/g	81.40	<1.00e-01	<49.20	<49.20	59.85	70.0	n/a	24.60	n/a
S941002161		A Barium - ICP-Acid Digest	ug/g	82.40	<5.00e-02	<24.60	<23.30e1	n/a	n/a	n/a	24.60	n/a
S941002161		A Beryllium - ICP-Acid Digest	ug/g	90.20	<5.00e-03	<2.660	<2.30e0	n/a	n/a	n/a	2.660	n/a
S941002161		A Bismuth - ICP-Acid Digest	ug/g	78.40	<1.00e-01	<49.20	<46.0e1	n/a	n/a	n/a	49.20	n/a
S941002161		A Calcium - ICP-Acid Digest	ug/g	98.60	9.28e-01	<1.75e+02	<141.0	158.0	21.5	n/a	49.20	n/a
S941002161		A Cadmium - ICP-Acid Digest	ug/g	77.40	9.00e-03	<2.660	<2.30e0	n/a	n/a	n/a	2.660	n/a
S941002161		A Cerium - ICP-Acid Digest	ug/g	86.00	<1.00e-01	<49.20	<46.0e1	n/a	n/a	n/a	49.20	n/a
S941002161		A Cobalt - ICP-Acid Digest	ug/g	80.00	<2.00e-02	<9.830	<9.21e0	94.8.5	7.95	n/a	9.830	n/a
S941002161		A Chromium - ICP-Acid Digest	ug/g	79.40	<1.00e-02	<4.51e+02	<375.0	413.0	18.4	n/a	4.920	n/a
S941002161		A Copper - ICP-Acid Digest	ug/g	80.80	1.10e-02	<7.180	<6.60e0	n/a	n/a	n/a	4.920	n/a
S941002161		A Iron - ICP-Acid Digest	ug/g	80.60	5.00e-02	<9.83e+02	914.0	948.5	7.27	n/a	24.60	n/a
S941002161		A Potassium - ICP-Acid Digest	ug/g	76.60	<5.00e-01	<7.98e+02	<737.0	767.5	n/a	n/a	24.60	n/a
S941002161		A Lanthanum - ICP-Acid Digest	ug/g	83.80	<5.00e-02	<2.660	<2.30e1	n/a	n/a	n/a	24.60	n/a
S941002161		A Lithium - ICP-Acid Digest	ug/g	84.00	<1.00e-02	<4.920	<46.0e0	n/a	n/a	n/a	4.920	n/a
S941002161		A Magnesium - ICP-Acid Digest	ug/g	77.40	1.23e-01	<49.20	<46.0e1	n/a	n/a	n/a	49.20	n/a
S941002161		A Manganese - ICP-Acid Digest	ug/g	77.40	<5.00e-02	<39.10	<23.90	31.50	48.3	n/a	4.920	n/a
S941002161		A Molybdenum - ICP-Acid Digest	ug/g	79.40	<5.00e-02	<2.660	<2.30e1	n/a	n/a	n/a	24.60	n/a
S941002161		A Nickel - ICP-Acid Digest	ug/g	88.00	1.96e-01	<2.06e+05	<2.03e+05	2.04e+05	1.79	n/a	49.20	n/a
S941002161		A Neodymium - ICP-Acid Digest	ug/g	83.20	<1.00e-01	<49.20	<46.0e1	n/a	n/a	n/a	49.20	n/a
S941002161		A Nickel - ICP-Acid Digest	ug/g	80.00	2.70e-02	<9.830	<9.21e0	n/a	n/a	n/a	9.830	n/a

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S951002161	A	Phosphorus - ICP-Acid Digest	ug/g	84.20	<2.00e-01	1.16e+03	1.08e+03	1.12e+03	7.14	N/A	98.30	N/A
S951002161	A	Sulfur - ICP-Acid Digest	ug/g	74.00	<1.00e-01	1.89e+02	4.60e1	N/A	N/A	N/A	49.20	N/A
S951002161	A	Sul fur - ICP-Acid Digest	ug/g	78.00	1.31e-01	5.42e+02	513.0	527.5	5.50	N/A	49.20	N/A
S951002161	A	Antimony - ICP-Acid Digest	ug/g	80.40	<6.00e-02	< 29.50	<2.76e1	N/A	N/A	N/A	29.50	N/A
S951002161	A	Selenium - ICP-Acid Digest	ug/g	77.60	<1.00e-01	< 49.20	<4.60e1	N/A	N/A	N/A	49.20	N/A
S951002161	A	Silicon - ICP-Acid Digest	ug/g	78.00	<5.00e-02	3.13e+02	305.0	309.0	2.59	N/A	24.60	N/A
S951002161	A	Samarium - ICP-Acid Digest	ug/g	81.60	<1.00e-01	< 49.20	<4.60e1	N/A	N/A	N/A	49.20	N/A
S951002161	A	Strontium - ICP-Acid Digest	ug/g	82.20	<1.00e-02	< 4.920	<4.60e0	N/A	N/A	N/A	4.920	N/A
S951002161	A	Titanium - ICP-Acid Digest	ug/g	76.20	<1.00e-02	< 4.920	<4.60e0	N/A	N/A	N/A	4.920	N/A
S951002161	A	Thallium - ICP-Acid Digest	ug/g	75.80	<2.00e-01	< 98.30	<9.21e1	N/A	N/A	N/A	98.30	N/A
S951002161	A	Uranium - ICP-Acid Digest	ug/g	79.80	<5.00e-01	<2.46e+02	<2.30e2	N/A	N/A	N/A	246.0	N/A
S951002161	A	Vanadium - ICP-Acid Digest	ug/g	79.40	<5.00e-02	< 24.60	<2.30e1	N/A	N/A	N/A	24.60	N/A
S951002161	A	Zinc - ICP-Acid Digest	ug/g	74.80	<2.00e-02	< 27.50	<2.80	25.15	18.7	N/A	4.920	N/A
S951002161	A	Zirconium - ICP-Acid Digest	ug/g	86.00	<1.00e-02	< 4.920	<4.60e0	N/A	N/A	N/A	4.920	N/A

Drainable Liquid: Drainable Liquid

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S951002142		DSC Exotherm Dry	Caloues/g Dry	N/A	N/A	0.00e+00	0.00e+00	0.00e+00	0.00	N/A	N/A	N/A
S951002142		DSC Exotherm on Perkin Elmer	Caloues/g	101.6	N/A	0.00e+00	0.00e+00	0.00e+00	0.00	N/A	N/A	N/A
S951002142		Oil - by Pot. Titration	ug/mL	99.16	<42.00	2.51e+04	2.58e+04	2.54e+04	2.25	N/A	2.50e+03	N/A
S951002142		pH Digest	pH	N/A	N/A	13.50	13.73	13.63	6.15	N/A	1.00e-02	N/A
S951002142		Specific Gravity	Sp. G.	97.93	N/A	1.4535	1.373	1.519	19.2	N/A	1.00e-02	N/A
S951002142		% Moist by TGA using Mettler	%	99.88	N/A	52.25	52.18	52.21	0.52	N/A	1.00e-02	N/A
S951002142		TIC by Acid Coulometry	ug/mL	N/A	N/A	6.84e+03	6.83e+03	6.84e+03	0.44	N/A	5.000	N/A
S951002142		TOC by Persulfate Coulometry	ug/mL	N/A	N/A	4.92e+03	4.61e+03	4.76e+03	6.51	N/A	40.00	N/A
S951002142		Strontium 89/90 High Level	uCi/mL	102.4	6.40e-02	1.04e-01	1.14e-01	1.10e-01	10.9	N/A	3.20e-02	3.00E-01
S951002142		Pur-232/240 by TRU-SPEC Resin	uCi/mL	93.94	<3.00e-05	5.09e-05	5.61e-05	5.55e-05	2.16	N/A	3.22e-05	6.45E+00
S951002142		D Silica - ICP-Acid Dill.	ug/mL	98.00	<1.00e-02	15.90	15.90	16.20	8.44	45.70	6.010	N/A
S951002142		D Aluminum-ICP-Acid Dill.	ug/mL	97.60	<1.00e-02	2.11e+04	2.08e+04	2.10e+04	1.43	N/A	30.10	N/A
S951002142		D Arsenic-ICP-Acid Dill.	ug/mL	101.8	<1.00e-01	< 60.10	<60.10	N/A	N/A	98.30	60.10	N/A
S951002142		D Barium-ICP-Acid Dill.	ug/mL	100.8	<5.00e-02	< 60.10	<60.10	N/A	N/A	97.90	30.10	N/A
S951002142		D Barium-ICP-Acid Dill.	ug/mL	99.80	<5.00e-02	< 30.10	<30.10	64.70	3.72	N/A	30.10	N/A
S951002142		D Barium-ICP-Acid Dill.	ug/mL	103.2	<5.00e-02	< 3.000	<3.00e0	N/A	N/A	101.1	3.000	N/A
S951002142		D Barium-ICP-Acid Dill.	ug/mL	100.0	<1.00e-01	< 60.10	<60.10	N/A	N/A	101.4	60.10	N/A
S951002142		D Calcium-ICP-Acid Dill.	ug/mL	102.6	<1.00e-01	< 97.20	<90.70	93.95	6.92	102.5	60.10	N/A
S951002142		D Calcium-ICP-Acid Dill.	ug/mL	99.20	<5.00e-03	< 3.000	<3.00e0	N/A	N/A	98.40	3.000	N/A
S951002142		D Calcium-ICP-Acid Dill.	ug/mL	102.4	<1.00e-01	< 12.00	<4.01e1	N/A	N/A	101.8	60.10	N/A
S951002142		D Cobalt - ICP-Acid Dill.	ug/mL	100.6	<2.00e-02	< 60.10	<1.20e1	N/A	N/A	99.80	12.00	N/A
S951002142		D Chromium-ICP-Acid Dill.	ug/mL	101.0	<1.00e-03	7.70e+02	758.0	764.0	1.57	99.40	6.010	N/A
S951002142		D Chromium-ICP-Acid Dill.	ug/mL	103.8	<1.00e-03	< 6.010	<6.01e0	N/A	N/A	103.3	6.010	N/A
S951002142		D Copper-ICP-Acid Dill.	ug/mL	101.9	<5.00e-03	< 30.10	<3.01e0	N/A	N/A	100.9	30.10	N/A
S951002142		D Cor - ICP-Acid Dill.	ug/mL	93.60	<5.00e-01	2.99e+03	2.92e+03	2.96e+03	2.37	92.70	30.10	N/A
S951002142		D Potassium-ICP-Acid Dill.	ug/mL	100.9	<5.00e-02	< 36.10	<3.61e0	N/A	N/A	100.3	30.10	N/A
S951002142		D Lithium-ICP-Acid Dill.	ug/mL	97.60	<1.00e-02	< 6.010	<6.01e0	N/A	N/A	97.60	6.010	N/A
S951002142		D Magnesium-ICP-Acid Dill.	ug/mL	97.60	<1.00e-02	< 6.010	<6.01e0	N/A	N/A	98.10	6.010	N/A
S951002142		D Manganese-ICP-Acid Dill.	ug/mL	97.60	<1.00e-02	< 6.010	<6.01e0	N/A	N/A	100.4	6.010	N/A
S951002142		D Molybdenum-ICP-Acid Dill.	ug/mL	98.60	<5.00e-02	84.30	82.50	83.40	2.16	N/A	30.10	N/A
S951002142		D Sodium-ICP-Acid Dill.	ug/mL	97.60	<1.00e-01	2.22e+03	2.19e+03	2.20e+03	1.36	N/A	60.10	N/A
S951002142		D Neodymium-ICP-Acid Dill.	ug/mL	101.4	<1.00e-01	< 60.10	<6.01e1	N/A	N/A	100.4	60.10	N/A

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WHC-SD-WM-DP-184, REV. /

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961002142	D	Nickel-ICP-Acid Dil.	ug/mL	98.80	<2.00e-02	18.80	13.50	16.15	32.8	98.50	12.00	N/A
S961002142	D	Phosphorus-ICP-Acid Dil.	ug/mL	98.40	<2.00e-01	1.17e+03	1.15e+03	1.16e+03	1.72	81.0	120.0	N/A
S961002142	D	Lead-ICP-Acid Dil.	ug/mL	98.60	<1.00e-01	< 60.10	<6.01e1	<6.01e1	N/A	100.9	60.10	N/A
S961002142	D	Sulfur-ICP-Acid Dil.	ug/mL	99.20	<1.00e-01	2.43e+03	2.42e+03	2.42e+03	0.41	95.10	60.10	N/A
S961002142	D	Antimony-ICP-Acid Dil.	ug/mL	96.20	<6.00e-02	< 36.10	<3.61e1	<3.61e1	N/A	95.60	36.10	N/A
S961002142	D	Selenium-ICP-Acid Dil.	ug/mL	97.60	<1.00e-01	< 60.10	<6.01e1	<6.01e1	N/A	103.1	60.10	N/A
S961002142	D	Silicon-ICP-Acid Dil.	ug/mL	95.00	<5.00e-02	2.71e+02	263.0	267.0	3.00	100.9	30.10	N/A
S961002142	D	Samarium-ICP-Acid Dil.	ug/mL	98.00	<1.00e-01	< 60.10	<6.01e1	<6.01e1	N/A	96.10	60.10	N/A
S961002142	D	Strontium-ICP-Acid Dil.	ug/mL	99.40	<1.00e-02	< 6.010	<6.01e0	<6.01e0	N/A	98.30	6.010	N/A
S961002142	D	Titanium-ICP-Acid Dil.	ug/mL	98.20	<2.00e-02	< 6.010	<6.01e0	<6.01e0	N/A	97.60	6.010	N/A
S961002142	D	Thallium-ICP-Acid Dil.	ug/mL	96.40	<2.00e-01	<1.20e+02	<1.20e2	<1.20e2	N/A	94.10	120.0	N/A
S961002142	D	Uranium-ICP-Acid Dil.	ug/mL	97.70	<5.00e-01	<3.00e+02	<3.00e2	<3.00e2	N/A	95.45	300.0	N/A
S961002142	D	Vanadium-ICP-Acid Dil.	ug/mL	100.6	<5.00e-02	< 30.10	<3.01e1	<3.01e1	N/A	99.80	30.10	N/A
S961002142	D	Zinc-ICP-Acid Dil.	ug/mL	100.2	<1.00e-02	18.30	18.00	18.15	1.65	100.7	6.010	N/A
S961002142	D	Zirconium-ICP-Acid Dil.	ug/mL	99.00	<1.00e-02	< 6.010	<6.01e0	<6.01e0	N/A	98.30	6.010	N/A
S961002142	F	Fluoride-IC-Dionex 40001/4500	ug/mL	97.12	<1.30e-02	< 53.83	<5.38e1	<5.38e1	N/A	86.44	53.83	N/A
S961002142	F	Chloride-IC-Dionex 40001/4500	ug/mL	94.43	<1.70e-02	7.58e+03	7.66e+03	7.62e+03	1.05	107.8	70.40	N/A
S961002142	F	Nitrite-IC - Dionex 40001/4500	ug/mL	98.91	<1.07e-01	9.09e+04	9.11e+04	9.10e+04	0.22	120.6	443.1	N/A
S961002142	F	Bromide-IC - Dionex 40001/4500	ug/mL	99.19	<1.26e-01	3.39e+05	3.61e+05	3.50e+05	6.29	78.96	521.8	N/A
S961002142	F	Nitrate-IC - Dionex 40001/4500	ug/mL	99.21	<1.40e-01	2.23e+05	2.22e+05	2.23e+05	0.45	134.4	579.7	N/A
S961002142	F	Phosphate-IC-Dionex 40001/4500	ug/mL	99.21	<1.05e-01	9.30e+03	9.42e+03	9.36e+03	3.90	84.07	492.4	N/A
S961002142	F	Sulfate-IC-Dionex 40001/4500	ug/mL	99.21	<1.36e-01	6.56e+03	6.56e+03	6.56e+03	1.28	86.37	562.8	N/A
S961002142	F	Oxalate-IC-Dionex 40001/4500	ug/mL	102.9	<1.05e-01	3.44e+03	3.78e+03	3.61e+03	9.42	83.11	434.8	N/A
S961002142	F	Cobalt-60 by GEA	uCi/mL	95.48	<1.66e-03	<1.66e-2	<1.66e-2	<1.66e-2	N/A	1.70e-02	N/A	N/A
S961002142	F	Cesium-137 by GEA	uCi/mL	97.19	<4.92e-03	2.87e+02	276.0	281.5	3.91	N/A	0.280	N/A
S961002142	F	Europium-154 by GEA	uCi/mL	N/A	<4.02e-03	<6.44e-02	<5.78e-2	<5.78e-2	N/A	N/A	6.40e-02	N/A
S961002142	F	Europium-155 by GEA	uCi/mL	N/A	<7.42e-03	<5.83e-01	<5.74e-1	<5.74e-1	N/A	N/A	5.83e-01	N/A
S961002142	F	Americium-241 by GEA	uCi/mL	N/A	<1.41e-02	< 1.169	<1.16e0	<1.16e0	N/A	N/A	1.169	N/A
S961002142	F	Alpha in Liquid Samples	uCi/mL	109.4	<1.33e-02	<1.17e-02	<1.17e-2	<1.17e-2	N/A	N/A	2.00e-02	5.00e-02

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CORE NUMBER: 135
SEGMENT #: 2R

U-107 Final Report
U-107

SEGMENT PORTION: U Upper Half of Segment

Sample#	R/A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961001869		Bulk Density of Sample	g/mL			1.300					5.00e-01	n/a
S961001873		DSC Exotherm using Mettler	Joules/g	96.31	n/a	0.00e+00	0.00e+00	n/a	n/a	n/a	n/a	n/a
S961001873		DSC Exotherm DRY Calculated	Joules/g	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S961001873		% Water by TGA using Mettler	%	99.22	n/a	4.670	4.150	4.410	1.00	n/a	n/a	n/a
S961001873		TIC by Acid/Coulometry	ug/g	100.0	3.00e-01	6.40e+02	403.0	421.5	5.92	96.90	5.000	n/a
S961001873		TOC by Persulfate/Coulometry	ug/g	85.28	16.40	5.18e+02	493.0	505.3	4.93	87.70	40.00	n/a
S961001875		Fluoride - IC-Dionex 40001/4500	ug/g	99.83	<1.00e-02	< 97.83	<1.01e-02	57.9	n/a	107.50	7.85	n/a
S961001875		Chloride - IC-Dionex 40001/4500	ug/g	90.76	<1.00e-02	5.72e+02	512.0	571.9	0.52	91.52	805.2	n/a
S961001875		Nitrite - IC - Dionex 40001/4500	ug/g	96.35	<1.07e-01	7.78e+02	7.74e+02	7.76e+02	0.52	98.97	865.3	n/a
S961001875		Bromide by Ion Chromatograph	ug/g	97.56	<1.00e-01	6.11e+02	6.20e+02	6.15e+02	n/a	96.97	1.03e+03	n/a
S961001875		Nitrate by IC-Dionex 40001/4500	ug/g	95.06	<1.19e-01	2.20e+03	2.66e+03	2.33e+03	11.2	98.59	894.6	n/a
S961001875		Phosphate by IC-Dionex 40001/4500	ug/g	96.51	<1.36e-01	1.02e+03	<1.05e3	n/a	n/a	98.56	1.02e+03	n/a
S961001875		Sulfate by IC - Dionex 40001	ug/g	77.86	<1.05e-01	9.32e+02	<8.14e2	16.30	n/a	91.52	799.1	n/a
S961001877		Silver - ICP-Acid Digest	ug/g	79.00	<1.00e-02	1.52e+03	1.53e+03	1.52e+03	0.66	107.50	23.70	n/a
S961001877		Arsenic - ICP-Acid Digest	ug/g	81.40	<1.00e-01	< 47.40	<4.92e1	n/a	n/a	94.40	23.70	n/a
S961001877		Boron - ICP-Acid Digest	ug/g	81.20	<5.00e-02	36.60	36.40	37.50	4.80	92.94	23.70	n/a
S961001877		Beryllium - ICP-Acid Digest	ug/g	90.20	<5.00e-02	< 23.70	<2.46e1	n/a	n/a	93.80	23.70	n/a
S961001877		Bismuth - ICP-Acid Digest	ug/g	78.40	<1.00e-01	< 47.40	<4.92e1	n/a	n/a	93.40	23.70	n/a
S961001877		Calcium - ICP-Acid Digest	ug/g	98.60	9.28e-01	2.34e+02	204.0	219.0	13.7	93.36	47.40	n/a
S961001877		Cadmium - ICP-Acid Digest	ug/g	77.40	9.00e-03	< 23.70	<2.46e0	n/a	n/a	90.40	23.70	n/a
S961001877		Cerium - ICP-Acid Digest	ug/g	86.00	<1.00e-01	< 47.40	<4.92e1	n/a	n/a	97.20	47.40	n/a
S961001877		Cobalt - ICP-Acid Digest	ug/g	80.00	<2.00e-02	< 9.480	<9.84e0	410.5	n/a	92.20	9.480	n/a
S961001877		Chromium - ICP-Acid Digest	ug/g	79.40	<1.00e-02	4.11e+02	410.0	410.5	0.24	92.84	4.740	n/a
S961001877		Copper - ICP-Acid Digest	ug/g	80.60	5.10e-02	7.140	<4.92e0	71.00	n/a	90.00	4.740	n/a
S961001877		Iron - ICP-Acid Digest	ug/g	80.80	<5.00e-01	4.11e+02	527.0	469.0	0.56	91.28	23.70	n/a
S961001877		Lanthanum - ICP-Acid Digest	ug/g	83.80	<5.00e-02	< 23.70	<2.46e1	n/a	24.7	88.02	23.70	n/a
S961001877		Lithium - ICP-Acid Digest	ug/g	84.00	<1.00e-02	< 47.40	<4.92e0	n/a	n/a	94.40	23.70	n/a
S961001877		Magnesium - ICP-Acid Digest	ug/g	77.40	<1.22e-01	< 47.40	<4.92e1	n/a	n/a	91.40	47.40	n/a
S961001877		Manganese - ICP-Acid Digest	ug/g	77.20	<5.00e-02	29.90	28.90	29.40	3.40	87.44	4.740	n/a
S961001877		Niobium - ICP-Acid Digest	ug/g	79.40	<5.00e-02	< 23.70	<2.46e1	n/a	n/a	91.40	23.70	n/a
S961001877		Sodium - ICP-Acid Digest	ug/g	88.00	<1.96e-01	2.31e+02	<2.29e+02	2.30e+02	0.87	1.44e+03	47.40	n/a
S961001877		Strontium - ICP-Acid Digest	ug/g	83.20	<1.00e-01	< 47.40	<4.92e1	n/a	n/a	93.00	47.40	n/a
S961001877		Nickel - ICP-Acid Digest	ug/g	80.00	<2.70e-02	< 9.480	<9.84e0	n/a	n/a	92.40	9.480	n/a
S961001877		Lead - ICP-Acid Digest	ug/g	84.20	<2.00e-01	6.69e+02	1.00e+03	834.5	39.7	120.2	94.80	n/a
S961001877		Phosphorus - ICP-Acid Digest	ug/g	74.00	<1.00e-01	< 47.40	<4.92e1	n/a	n/a	95.60	47.40	n/a
S961001877		Sulfur - ICP-Acid Digest	ug/g	78.00	1.31e-01	1.72e+02	177.0	174.5	2.87	90.70	47.40	n/a
S961001877		Antimony - ICP-Acid Digest	ug/g	80.40	<6.00e-02	< 28.40	<2.95e1	n/a	n/a	91.40	26.40	n/a
S961001877		Selenium - ICP-Acid Digest	ug/g	77.60	<1.00e-01	< 47.40	<4.92e1	n/a	n/a	91.20	47.40	n/a
S961001877		Silicon - ICP-Acid Digest	ug/g	78.00	<5.00e-02	1.82e+02	189.0	185.5	3.77	102.0	23.70	n/a

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Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001877	A	Samarium - ICP-Acid Digest	ug/g	81.60	<1.00e-02	4.740	-4.92e1	n/a	n/a	91.20	47.40	n/a
S96T001877	A	Strontium - ICP-Acid Digest	ug/g	82.20	<1.00e-02	4.740	-4.92e0	n/a	n/a	91.60	4.740	n/a
S96T001877	A	Thallium - ICP-Acid Digest	ug/g	76.20	<1.00e-02	4.740	-4.92e0	n/a	n/a	86.00	4.740	n/a
S96T001877	A	Titanium - ICP-Acid Digest	ug/g	75.80	<1.00e-02	94.80	-9.84e1	n/a	n/a	88.00	94.80	n/a
S96T001877	A	Uranium - ICP-Acid Digest	ug/g	79.80	<1.00e-02	-2.37e+02	-2.46e2	n/a	n/a	88.50	237.0	n/a
S96T001877	A	Vanadium - ICP-Acid Digest	ug/g	79.40	<5.00e-02	23.70	-2.46e1	n/a	n/a	90.20	23.70	n/a
S96T001877	A	Zinc - ICP-Acid Digest	ug/g	74.80	<1.00e-02	16.70	-17.50	17.10	4.68	88.84	4.740	n/a
S96T001877	A	Zirconium - ICP-Acid Digest	ug/g	86.00	<1.00e-02	4.740	-4.92e0	n/a	n/a	97.40	4.740	n/a
S96T001879	F	Alpha of Digested Solid	uCi/g	115.6	<1.73e-03	1.47e-02	1.51e-02	1.49e-02	2.68	66.02	4.00e-03	3.33e-01

L Lower Half of Segment; I Lower Half of Segment

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001870		Bulk Density	g/mL	n/a	n/a	1.310	n/a	n/a	n/a	n/a	5.00e-01	n/a
S96T001874		DSC Exotherm DRY Calculated	Joules/g DRY	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S96T001874		DSC Exotherm on Perkin Elmer	Joules/g	102.6	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S96T001874		% Water by TGA on Perkin Elmer	%	98.82	n/a	7.30e-01	9.20e-01	8.25e-01	23.0	n/a	5.00e-01	n/a
S96T001874		TIC by Acid/Coulometry	ug/g	n/a	n/a	3.29e+03	n/a	n/a	n/a	n/a	5.00e-01	n/a
S96T001874		TOC by Persulfate/Coulometry	ug/g	n/a	n/a	9.19e+02	n/a	n/a	n/a	n/a	80.00	n/a
S96T001874		Fluoride-IC-Dionex 4000i/4500	ug/g	99.83	<1.30e-02	91.06	-9.25e1	n/a	n/a	n/a	91.06	n/a
S96T001876		Chloride-IC-Dionex 4000i/4500	ug/g	90.76	<1.70e-02	5.95e+03	916.0	754.6	42.9	n/a	119.5	n/a
S96T001876		Nitrite-IC - Dionex 4000i/4500	ug/g	96.35	<1.07e-01	7.45e+03	1.08e+04	9.13e+03	36.7	n/a	749.5	n/a
S96T001876		Bromide by Ion Chromatograph	ug/g	95.30	<1.26e-01	-8.83e+02	-8.97e2	5.34e+05	27.8	n/a	892.5	n/a
S96T001876		Nitrate by IC-Dionex4000i/4500	ug/g	97.56	<1.40e-01	1.06e+03	5.95e+05	1.40e+03	65.0	n/a	837.7	n/a
S96T001876		Phosphate by IC-Dionex4000i/4500	ug/g	95.06	<1.19e-01	1.06e+03	2.15e+03	1.06e+03	18.7	n/a	952.7	n/a
S96T001876		Sulfate by IC-Dionex4000i/4500	ug/g	96.51	<1.36e-01	9.65e+02	1.14e+03	1.06e+03	18.7	n/a	952.7	n/a
S96T001876		Oxalate by IC - Dionex 4000i	ug/g	97.86	<1.05e-01	7.65e+02	885.0	832.1	15.0	n/a	735.9	n/a
S96T001878		Silver - ICP-Acid Digest	ug/g	77.70	<1.00e-02	15.20	15.80	16.70	2.50	n/a	5.820	n/a
S96T001878		Aluminum - ICP-Acid Digest	ug/g	79.00	<5.10e-02	2.85e+03	1.91e+03	1.88e+03	3.19	n/a	23.10	n/a
S96T001878		Arsenic - ICP-Acid Digest	ug/g	81.40	<1.00e-01	46.20	-44.62e1	n/a	n/a	n/a	46.20	n/a
S96T001878		Boron - ICP-Acid Digest	ug/g	81.20	<5.00e-02	79.90	75.20	77.55	6.06	n/a	23.10	n/a
S96T001878		Barium - ICP-Acid Digest	ug/g	82.40	<5.00e-02	23.10	-23.21e1	n/a	n/a	n/a	23.10	n/a
S96T001878		Beryllium - ICP-Acid Digest	ug/g	90.20	<5.00e-02	6.210	-2.31e1	n/a	n/a	n/a	46.20	n/a
S96T001878		Calcium - ICP-Acid Digest	ug/g	78.40	<1.00e-01	4.620	-4.62e1	n/a	n/a	n/a	46.20	n/a
S96T001878		Cadmium - ICP-Acid Digest	ug/g	98.60	9.20e-01	2.50e+02	152.0	201.0	48.8	n/a	46.20	n/a
S96T001878		Cerium - ICP-Acid Digest	ug/g	77.40	9.00e-01	2.310	-2.21e1	n/a	n/a	n/a	23.10	n/a
S96T001878		Cobalt - ICP-Acid Digest	ug/g	84.00	<1.00e-01	4.710	-4.82e1	n/a	n/a	n/a	46.20	n/a
S96T001878		Copper - ICP-Acid Digest	ug/g	80.00	<2.00e-02	9.250	-8.84e0	n/a	n/a	n/a	9.240	n/a
S96T001878		Chromium - ICP-Acid Digest	ug/g	70.40	<1.00e-02	3.94e+02	377.0	395.5	0.76	n/a	4.620	n/a
S96T001878		Copper - ICP-Acid Digest	ug/g	80.40	<1.00e-02	4.820	-4.42e0	n/a	n/a	n/a	4.620	n/a
S96T001878		Iron - ICP-Acid Digest	ug/g	80.80	5.10e-02	49.30	47.90	48.60	2.88	n/a	23.10	n/a
S96T001878		Potassium - ICP-Acid Digest	ug/g	76.60	<5.00e-01	5.30e+02	465.0	507.5	8.87	n/a	231.0	n/a
S96T001878		Manganese - ICP-Acid Digest	ug/g	83.80	<5.00e-02	23.10	-2.21e1	n/a	n/a	n/a	4.620	n/a
S96T001878		Lithium - ICP-Acid Digest	ug/g	84.00	<1.00e-02	4.820	-4.42e0	n/a	n/a	n/a	4.620	n/a
S96T001878		Magnesium - ICP-Acid Digest	ug/g	77.40	1.62e-01	46.20	-4.42e1	n/a	n/a	n/a	4.620	n/a
S96T001878		Manganese - ICP-Acid Digest	ug/g	77.20	<1.00e-02	15.80	15.30	15.55	3.22	n/a	4.620	n/a
S96T001878		Nickel - ICP-Acid Digest	ug/g	79.40	<5.00e-02	23.10	-2.21e1	n/a	n/a	n/a	23.10	n/a
S96T001878		Sodium - ICP-Acid Digest	ug/g	88.00	<1.96e-01	2.25e+05	2.23e+05	2.24e+05	0.89	n/a	46.20	n/a
S96T001878		Nickel - ICP-Acid Digest	ug/g	83.20	<1.00e-01	46.20	-4.42e1	n/a	n/a	n/a	46.20	n/a
S96T001878		Nickel - ICP-Acid Digest	ug/g	80.00	2.70e-02	9.250	-8.84e0	n/a	n/a	n/a	9.240	n/a

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Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001878	A	Phosphorus - ICP-Acid Digest	ug/g	84.20	<2.00e-01	6.57e-02	600.0	628.5	9.07	D/A	92.50	N/A
S96T001878	A	Lead - ICP-Acid Digest	ug/g	74.00	<1.00e-01	< 46.20	<4.42e1	D/A	D/A	D/A	46.20	N/A
S96T001878	A	Sulfur - ICP-Acid Digest	ug/g	78.00	1.31e-01	2.27e-02	227.0	227.0	0.00	D/A	46.20	N/A
S96T001878	A	Antimony - ICP-Acid Digest	ug/g	80.40	<6.00e-02	< 27.70	<2.65e1	D/A	D/A	D/A	27.70	N/A
S96T001878	A	Selenium - ICP-Acid Digest	ug/g	77.60	<1.00e-01	< 46.20	<4.42e1	D/A	D/A	D/A	46.20	N/A
S96T001878	A	Silicon - ICP-Acid Digest	ug/g	78.00	<5.00e-02	1.28e-02	123.0	125.5	3.98	D/A	23.10	N/A
S96T001878	A	Samarium - ICP-Acid Digest	ug/g	81.60	<1.00e-01	< 46.20	<4.42e1	D/A	D/A	D/A	46.20	N/A
S96T001878	A	Strontium - ICP-Acid Digest	ug/g	82.20	<1.00e-02	< 4.620	<4.42e0	D/A	D/A	D/A	4.620	N/A
S96T001878	A	Titanium - ICP-Acid Digest	ug/g	76.20	<1.00e-02	< 92.50	<4.42e0	D/A	D/A	D/A	92.50	N/A
S96T001878	A	Thallium - ICP-Acid Digest	ug/g	75.80	<2.00e-01	<2.31e-02	<8.84e1	D/A	D/A	D/A	231.0	N/A
S96T001878	A	Uranium - ICP-Acid Digest	ug/g	79.80	<5.00e-01	<2.31e-02	<2.21e2	D/A	D/A	D/A	23.10	N/A
S96T001878	A	Vanadium - ICP-Acid Digest	ug/g	79.40	<5.00e-02	< 21.20	<2.21e1	D/A	38.2	D/A	4.620	N/A
S96T001878	A	Zinc - ICP-Acid Digest	ug/g	74.80	2.10e-02	21.20	14.40	17.80	D/A	D/A	4.620	N/A
S96T001878	A	Zirconium - ICP-Acid Digest	ug/g	86.00	<1.00e-02	< 4.620	<4.42e0	D/A	D/A	D/A	4.620	N/A
S96T001880	F	Alpha of Digested Solid	uCi/g	115.61	<1.73e-03	1.02e-02	1.22e-02	1.12e-02	17.9	D/A	4.00e-03	4.92E-01

CORE NUMBER: 135
SEGMENT #: 1

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SEGMENT PORTION: U Upper Half of Segment

Sample#	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	PPD % Spk Rec %	Det Limit	Count Err%
S961002131		DSC Exotherm Dry, Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a
S961002131		DSC Exotherm Dry, Calculated	Joules/g Dry	101.7	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a
S961002131		% Water by TGA using Mettler	%	99.70	n/a	32.41	37.23	34.82	13.8	n/a	n/a
S961002134	F	Cobalt-60 by GEA	uCi/g	98.66	<1.35e-02	<3.53e-02	<3.21e-2	3.21e-2	n/a	2.50e-02	n/a
S961002134	F	Cesium-137 by GEA	uCi/g	99.11	<5.01e-02	1.22e+02	104.0	113.1	15.9	n/a	0.560
S961002134	F	Europium-152 by GEA	uCi/g	99.11	<5.01e-02	<1.10e-01	<1.17e-1	n/a	n/a	1.10e-01	n/a
S961002134	F	Europium-155 by GEA	uCi/g	99.11	<5.01e-02	<3.44e-01	<3.27e-1	n/a	n/a	3.44e-01	n/a
S961002134	F	Americium-241 by GEA	uCi/g	n/a	<1.31e-01	<9.13e-01	<8.16e-1	n/a	n/a	9.13e-01	n/a
S961002134	F	Alpha of Digested Solid	uCi/g	98.44	<1.75e-03	1.03e-01	9.84e-02	1.01e-01	4.57	79.11	7.00e-03

Drainable Liquid: Drainable Liquid

Sample#	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	PPD % Spk Rec %	Det Limit	Count Err%
S961002140		DSC Exotherm using Mettler	Joules/g	106.5	n/a	2.56e+02	274.3	265.4	6.75	n/a	n/a
S961002140		DSC Exotherm Dry, Calculated	Joules/g Dry	99.16	n/a	5.40e+02	577.6	558.8	n/a	n/a	n/a
S961002140		OH- by Pot. Titration	uM/mL	99.16	<42.00	2.52e+04	2.49e+04	2.50e+04	1.20	n/a	2.50e+03
S961002140		pH Direct	pH	97.93	n/a	12.85	12.85	12.84	0.23	n/a	1.00e-03
S961002140		Specific Gravity	Sp. G.	97.93	n/a	1.470	1.392	1.431	5.45	n/a	1.00e-03
S961002140		% Water by TGA using Mettler	%	99.53	n/a	52.73	52.28	52.50	0.86	n/a	n/a
S961002140		TIC by Acid/Coulometry	uM/mL	100.3	1.000	4.92e+03	5.01e+03	4.96e+03	1.81	102.0	5.000
S961002140		10C by Persulfate/Coulometry	uM/mL	95.00	5.700	3.23e+03	3.23e+03	3.23e+03	0.00	98.80	40.00
S961002140		Strontium-89/90 High Level	uCi/mL	99.19	<2.18e-05	4.89e-01	4.77e-01	4.83e-01	2.48	n/a	3.78e-05
S961002140		Pur-239/240 by TRU-SPEC Resin	uCi/mL	93.96	<3.04e-05	4.28e-05	5.89e-05	5.09e-05	31.7	n/a	3.21e-05
S961002140	D	Silver-109/Ag Acid Dil.	uM/mL	98.00	<1.00e-02	4.25e-01	15.20	15.20	0.00	51.60	6.010
S961002140	D	Aluminum-CP-Acid Dil.	uM/mL	97.60	<5.00e-02	2.15e+04	2.14e+04	2.14e+04	0.47	93.90	30.10
S961002140	D	Arsenic-CP-Acid Dil.	uM/mL	101.8	<1.00e-01	<60.10	<60.01e1	n/a	n/a	95.50	40.10
S961002140	D	Baryum-CP-Acid Dil.	uM/mL	100.8	<5.00e-02	<67.10	64.70	65.90	3.64	98.40	30.10
S961002140	D	Beryllium-CP-Acid Dil.	uM/mL	99.80	<5.00e-02	<30.10	<3.01e1	n/a	n/a	99.30	30.10
S961002140	D	Bismuth-CP-Acid Dil.	uM/mL	103.2	<5.00e-03	<3.000	<3.00e0	n/a	n/a	102.1	3.000
S961002140	D	Calcium-CP-Acid Dil.	uM/mL	100.0	<1.00e-01	<60.10	<60.01e1	n/a	n/a	103.4	60.10
S961002140	D	Cadmium-CP-Acid Dil.	uM/mL	102.6	<1.00e-01	<89.70	87.10	88.40	2.94	103.0	60.10
S961002140	D	Cesium-CP-Acid Dil.	uM/mL	99.20	<5.00e-03	<3.000	<3.00e0	n/a	n/a	99.30	3.000
S961002140	D	Ceium-CP-Acid Dil.	uM/mL	102.4	<2.00e-02	<12.10	<60.01e1	n/a	n/a	102.6	60.10
S961002140	D	Cobalt-CP-Acid Dil.	uM/mL	100.6	<2.00e-02	<60.10	<60.01e1	n/a	n/a	100.1	12.00
S961002140	D	Copper-CP-Acid Dil.	uM/mL	103.8	<1.00e-02	7.25e+02	718.0	721.5	0.97	98.80	6.010
S961002140	D	Iron-CP-Acid Dil.	uM/mL	101.4	<5.00e-02	<50.10	<60.01e0	n/a	n/a	103.9	6.010
S961002140	D	Potassium-CP-Acid Dil.	uM/mL	93.40	<5.00e-01	2.84e+03	2.88e+03	2.84e+03	2.46	113.2	300.0
S961002140	D	Lanthanum-CP-Acid Dil.	uM/mL	100.0	<1.00e-02	<30.10	<3.01e1	n/a	n/a	101.2	30.10
S961002140	D	Lithium-CP-Acid Dil.	uM/mL	100.2	<1.00e-02	<60.10	<60.01e0	n/a	n/a	99.40	60.10
S961002140	D	Magnesium-CP-Acid Dil.	uM/mL	97.60	<1.00e-02	<60.10	<60.01e1	n/a	n/a	92.10	60.10
S961002140	D	Manganese-CP-Acid Dil.	uM/mL	97.60	<1.00e-02	<60.10	<60.01e0	n/a	n/a	95.50	60.10
S961002140	D	Molybdenum-CP-Acid Dil.	uM/mL	101.0	<5.00e-02	<86.30	84.40	85.35	2.23	100.7	30.10

Sample#	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T002140	D	Sodium-ICP-Acid Dill.	ug/mL	98.60	<1.00e-01	2.17e+05	2.15e+05	2.16e+05	0.93	32.50	60.10	n/a
S96T002140	D	Neodymium-ICP-Acid Dill.	ug/mL	101.4	<1.00e-01	< 60.10	<6.01e1	n/a	n/a	101.6	60.10	n/a
S96T002140	D	Nickel-ICP-Acid Dill.	ug/mL	98.80	<2.00e-02	15.50	15.30	15.40	1.30	98.90	12.00	n/a
S96T002140	D	Phosphorus-ICP-Acid Dill.	ug/mL	98.40	<2.00e-01	1.23e+03	1.23e+03	1.23e+03	0.00	97.50	120.0	n/a
S96T002140	D	Lead-ICP-Acid Dill.	ug/mL	98.60	<1.00e-01	< 60.10	<6.01e1	n/a	n/a	99.80	60.10	n/a
S96T002140	D	Sulfur-ICP-Acid Dill.	ug/mL	99.20	<1.00e-01	2.38e+03	2.34e+03	2.36e+03	1.69	101.5	60.10	n/a
S96T002140	D	Antimony-ICP-Acid Dill.	ug/mL	96.20	<6.00e-02	< 36.10	<3.61e1	n/a	n/a	96.10	36.10	n/a
S96T002140	D	Selenium-ICP-Acid Dill.	ug/mL	97.60	<1.00e-01	< 60.10	<6.01e1	n/a	n/a	100.8	60.10	n/a
S96T002140	D	Silicon-ICP-Acid Dill.	ug/mL	95.00	<5.00e-02	1.94e+02	180.0	187.0	7.49	97.80	30.10	n/a
S96T002140	D	Strontium-ICP-Acid Dill.	ug/mL	98.00	<1.00e-01	< 60.10	<6.01e1	n/a	n/a	97.10	60.10	n/a
S96T002140	D	Titanium-ICP-Acid Dill.	ug/mL	99.40	<1.00e-02	< 6.010	<6.01e0	n/a	n/a	99.40	6.010	n/a
S96T002140	D	Thallium-ICP-Acid Dill.	ug/mL	98.20	<1.00e-02	< 6.010	<6.01e0	n/a	n/a	96.40	120.0	n/a
S96T002140	D	Uranium-ICP-Acid Dill.	ug/mL	97.70	<5.00e-01	<3.00e2	<3.00e2	n/a	n/a	95.25	300.0	n/a
S96T002140	D	Vanadium-ICP-Acid Dill.	ug/mL	100.6	<5.00e-02	< 30.10	<3.01e1	n/a	n/a	100.1	30.10	n/a
S96T002140	D	Zinc-ICP-Acid Dill.	ug/mL	100.2	<1.00e-02	< 18.60	18.60	18.60	0.00	100.8	6.010	n/a
S96T002140	D	Zirconium-ICP-Acid Dill.	ug/mL	99.00	<1.00e-02	< 6.010	<6.01e0	n/a	n/a	99.30	6.010	n/a
S96T002140	D	Fluoride-IC-Dioxex 40001/4500	ug/mL	103.2	<1.30e-02	< 53.83	<5.38e1	n/a	n/a	87.97	53.83	n/a
S96T002140	D	Chloride-IC-Dioxex 40001/4500	ug/mL	94.05	<1.70e-02	9.07e+03	7.65e+03	8.36e+03	17.0	65.19	70.40	n/a
S96T002140	D	Nitrate-IC - Dioxex 40001/4500	ug/mL	95.83	<1.07e-01	1.14e+05	9.63e+04	1.05e+05	16.8	50.00	424.0	n/a
S96T002140	D	Bromide by Ion Chromatograph	ug/mL	98.70	1.51e-01	4.25e+05	4.64e+05	4.45e+05	0.23	90.96	521.3	n/a
S96T002140	D	Nitrate-IC - Dioxex 40001/4500	ug/mL	97.80	<1.19e-01	4.05e+03	3.03e+03	3.54e+03	28.8	91.76	1092.0	n/a
S96T002140	D	Sulfate by IC-Dioxex40001/4500	ug/mL	98.42	<1.36e-01	7.25e+03	5.92e+03	6.58e+03	20.2	93.34	565.3	n/a
S96T002140	D	Oxalate by IC - Dioxex 40001	ug/mL	99.61	<1.05e-01	5.75e+02	5.05.0	540.1	13.0	98.64	434.3	n/a
S96T002140	D	Cobalt-60 by GEA	uCi/mL	95.48	<1.66e-03	<1.37e+02	<1.36e+2	n/a	n/a	n/a	1.30e+02	n/a
S96T002140	D	Cesium-137 by GEA	uCi/mL	97.19	<4.92e-03	2.80e+02	283.0	281.5	1.07	n/a	0.250	n/a
S96T002140	D	Europium-154 by GEA	uCi/mL	n/a	<4.02e-03	<5.61e+02	<5.66e+2	n/a	n/a	n/a	5.60e+02	n/a
S96T002140	D	Europium-155 by GEA	uCi/mL	n/a	<7.42e-03	<5.13e+01	<5.14e+1	n/a	n/a	n/a	5.13e+01	n/a
S96T002140	D	Americium-241 by GEA	uCi/mL	n/a	<1.41e-02	<1.03e2	<1.04e0	n/a	n/a	n/a	1.03e2	n/a
S96T002140	D	Alpha in Liquid Samples	uCi/mL	109.4	<1.33e-02	<1.33e+02	<1.33e+2	n/a	n/a	99.44	2.00e+02	5.00e+02

Sample #	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Error
S961001865		Specific Gravity	Sp. G	98.38	n/a	1.030	1.030	1.030	n/a	n/a	1.00e-03	n/a
S961001866		DSC Exotherm using Mettler	Joules/g	113.5	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S961001866		DSC Exotherm Dry Calculated	Joules/g DRY	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	n/a	n/a	n/a	n/a
S961001866		OH by Pot. titration	ug/mL	99.76	<2.00	1.23e+03	1.28e+03	1.26e+03	3.98	n/a	250.0	n/a
S961001866		PH Direct by TGA using Mettler	ph	100.3	n/a	12.62	13.69	12.65	0.16	n/a	1.00e-02	n/a
S961001866		TIC by Acid/Coulometry	ug/mL	100.2	6.00e-01	94.62	91.93	93.28	0.46	n/a	n/a	n/a
S961001866		TOC by Persulfate/Coulometry	ug/mL	90.00	7.80	5.75e+02	582.3	576.9	0.54	n/a	5.00	n/a
S961001866		Strontium-87/90 High Level	uCi/mL	99.19	1.00e-03	3.54e+02	1.02e+03	937.0	17.74	n/a	40.00	n/a
S961001866		Silver-ICP-Acid Dil.	ug/mL	100.2	<5.00e-02	< 4.010	<4.01e0	3.68e-03	7.61	n/a	1.00e-03	2.40E+04
S961001866		Aluminum-ICP-Acid Dil.	ug/mL	97.80	<5.00e-02	< 5.75e+02	570.0	n/a	n/a	96.30	4.010	n/a
S961001866		Arsenic-ICP-Acid Dil.	ug/mL	103.6	<1.00e-01	< 40.10	<4.01e1	n/a	n/a	96.30	20.10	n/a
S961001866		Boron-ICP-Acid Dil.	ug/mL	100.0	<5.00e-02	< 20.10	<2.01e1	n/a	n/a	103.3	40.10	n/a
S961001866		Barium-ICP-Acid Dil.	ug/mL	99.40	<5.00e-02	< 20.10	<2.01e1	n/a	n/a	103.3	20.10	n/a
S961001866		Beryllium-ICP-Acid Dil.	ug/mL	103.0	<5.00e-03	< 2.000	<2.00e0	n/a	n/a	99.00	20.10	n/a
S961001866		Bismuth-ICP-Acid Dil.	ug/mL	103.0	<1.00e-01	< 40.10	<4.01e1	n/a	n/a	99.80	40.10	n/a
S961001866		Calcium-ICP-Acid Dil.	ug/mL	103.0	<1.00e-01	< 40.10	<4.01e1	n/a	n/a	104.7	40.10	n/a
S961001866		Cadmium-ICP-Acid Dil.	ug/mL	101.6	<5.00e-03	< 2.000	<2.00e0	n/a	n/a	101.0	2.000	n/a
S961001866		Cerium-ICP-Acid Dil.	ug/mL	102.8	<1.00e-01	< 40.10	<4.01e1	n/a	n/a	104.0	40.10	n/a
S961001866		Cobalt-ICP-Acid Dil.	ug/mL	101.8	<1.00e-02	< 8.020	<8.02e0	n/a	n/a	101.5	8.020	n/a
S961001866		Chromium-ICP-Acid Dil.	ug/mL	102.6	<1.00e-02	< 40.20	39.40	39.80	2.01	102.2	4.010	n/a
S961001866		Copper-ICP-Acid Dil.	ug/mL	103.0	<1.00e-02	< 4.010	<4.01e0	n/a	n/a	104.5	4.010	n/a
S961001866		Iron-ICP-Acid Dil.	ug/mL	101.8	<5.00e-02	< 20.10	<2.01e1	n/a	n/a	101.8	20.10	n/a
S961001866		Potassium-ICP-Acid Dil.	ug/mL	105.4	<5.00e-01	<2.00e+02	<2.00e2	n/a	n/a	146.4	200.0	n/a
S961001866		Lanthanum-ICP-Acid Dil.	ug/mL	100.6	<5.00e-02	< 20.10	<2.01e1	n/a	n/a	101.0	20.10	n/a
S961001866		Lithium-ICP-Acid Dil.	ug/mL	100.0	<1.00e-01	< 75.30	74.80	75.05	0.67	100.9	4.010	n/a
S961001866		Magnesium-ICP-Acid Dil.	ug/mL	97.80	<1.00e-01	< 40.10	<4.01e1	n/a	n/a	98.50	40.10	n/a
S961001866		Manganese-ICP-Acid Dil.	ug/mL	99.80	<1.00e-02	< 4.010	<4.01e0	n/a	n/a	97.30	4.010	n/a
S961001866		Molybdenum-ICP-Acid Dil.	ug/mL	101.2	<5.00e-02	< 20.10	<2.01e1	n/a	n/a	101.8	20.10	n/a
S961001866		Sodium-ICP-Acid Dil.	ug/mL	99.40	<1.00e-01	1.95e+04	1.94e+04	1.94e+04	0.51	117.1	40.10	n/a
S961001866		Neodymium-ICP-Acid Dil.	ug/mL	101.6	<1.00e-01	< 4.010	<4.01e0	n/a	n/a	102.3	40.10	n/a
S961001866		Nickel-ICP-Acid Dil.	ug/mL	101.2	<2.00e-02	< 8.020	<8.02e0	n/a	n/a	102.3	8.020	n/a
S961001866		Phosphorus-ICP-Acid Dil.	ug/mL	100.6	<2.00e-01	2.95e+03	2.97e+03	2.96e+03	0.68	106.5	80.20	n/a
S961001866		Lead-ICP-Acid Dil.	ug/mL	101.2	<1.00e-01	< 40.10	<4.01e1	n/a	n/a	99.80	40.10	n/a
S961001866		Sulfur-ICP-Acid Dil.	ug/mL	99.60	<1.00e-01	< 4.010	<4.01e1	n/a	n/a	99.80	40.10	n/a
S961001866		Antimony-ICP-Acid Dil.	ug/mL	96.20	<6.00e-02	< 24.10	<2.41e1	n/a	n/a	96.30	24.10	n/a
S961001866		Selenium-ICP-Acid Dil.	ug/mL	99.00	<1.00e-01	< 40.10	<4.01e1	n/a	n/a	98.50	40.10	n/a
S961001866		Silicon-ICP-Acid Dil.	ug/mL	94.40	<5.00e-02	< 42.70	<42.70	42.45	1.18	105.3	20.10	n/a
S961001866		Samarium-ICP-Acid Dil.	ug/mL	98.20	<1.00e-01	< 40.10	<4.01e1	n/a	n/a	97.30	40.10	n/a
S961001866		Strontium-ICP-Acid Dil.	ug/mL	99.00	<1.00e-02	< 4.010	<4.01e0	n/a	n/a	99.00	4.010	n/a
S961001866		Titanium-ICP-Acid Dil.	ug/mL	97.60	<1.00e-02	< 4.010	<4.01e0	n/a	n/a	97.50	4.010	n/a
S961001866		Thallium-ICP-Acid Dil.	ug/mL	96.70	<5.00e-01	< 80.20	<8.02e1	n/a	n/a	94.00	80.20	n/a
S961001866		Uranium-ICP-Acid Dil.	ug/mL	97.80	<5.00e-01	<2.00e+02	<2.00e2	n/a	n/a	95.75	200.0	n/a

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961001866	D	Vanadium-ICP-Acid Dil.	ug/mL	100.6	<5.00e-02	< 20.10	<2.01e1	n/a	n/a	102.3	20.10	n/a
S961001866	D	Zinc-ICP-Acid Dil.	ug/mL	102.2	<1.00e-02	< 4.010	<4.01e0	n/a	n/a	102.5	4.010	n/a
S961001866	D	Zirconium-ICP-Acid Dil.	ug/mL	98.80	<1.00e-02	< 4.010	<4.01e0	n/a	n/a	98.30	4.010	n/a
S961001866		Fluoride-IC-Dioxex 40001/4500	ug/mL	97.63	<1.30e-02	< 5.213	<5.21e0	n/a	n/a	n/a	5.213	n/a
S961001866		Chloride-IC-Dioxex 40001/4500	ug/mL	91.65	<1.70e-02	3.88e02	4.60e03	394.1	3.05	n/a	6.817	n/a
S961001866		Nitrite-IC - Dioxex 40001/4500	ug/mL	92.88	<1.07e-01	4.59e03	4.64e03	4.59e03	2.83	n/a	42.91	n/a
S961001866		Bromide by Ion Chromatograph	ug/mL	94.96	<1.26e-01	1.56e03	1.56e03	1.56e03	0.44	n/a	50.53	n/a
S961001866		Nitrate-IC - Dioxex 40001/4500	ug/mL	97.56	<1.40e-01	1.50e04	1.49e04	1.50e04	0.47	n/a	52.14	n/a
S961001866		Phosphate-IC-Dioxex 40001/4500	ug/mL	95.97	<1.19e-01	8.98e03	9.09e03	9.03e03	1.22	n/a	47.48	n/a
S961001866		Sulfate by IC-Dioxex40001/4500	ug/mL	96.51	<1.36e-01	3.15e02	3.69e02	351.9	10.5	n/a	57.50	n/a
S961001866		Oxalate by IC - Dioxex 40001	ug/mL	98.06	<1.05e-01	1.98e03	1.98e03	1.98e03	0.00	n/a	42.10	n/a
S961001866		Alpha in Liquid Samples	uCi/mL	112.5	<7.28e-04	<5.51e-04	<6.41E-4	n/a	n/a	114.8	1.00e-03	5.00E+02

U Upper Half of Segment: U Upper Half of Segment

Sample#	R #	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S961001867		DSC Exotherm using Mettler	Joules/g	96.31	n/a	1.41e02	105.2	122.5	28.8	n/a	n/a	n/a
S961001867		DSC Exotherm Dry Calculated	Joules/g	96.31	n/a	2.80e02	205.0	246.6	28.8	n/a	n/a	n/a
S961001867		% Water by TGA using Mettler	%	99.19	n/a	69.90	69.74	69.82	0.32	n/a	n/a	n/a
S961001868	F	Alpha of Digested Solid	uCi/g	98.44	<1.75e-03	3.29e-01	3.48e-01	3.39e-01	5.61	n/a	4.00e-03	6.07E+00

WMC-SD-WM-DP-184, REV. 1

U-107 STATISTICAL ANALYSIS

WHC-SD-WM-DP-184, REV. 1

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Statistical Analysis

Analys	Sample#	Result	DUP	TRIP	Water	Result-Dr	Dup-Dr	Trip-Dr	Mean	Std. (Me	95% UL
TOC	S96T001873	518	493	477	4	542	516	499	519	12	555
TOC	S96T001055	639	895	836	7	689	965	902	852	83	1036
TOC	S96T001874	919	597	605	1	927	602	610	713	107	1035
TOC	S96T001143	921	843		6	984	901		942	42	1205
TOC	S96T001070	1210	1240		91	1397	14139		13968	171	15048
TOC	S96T000650	1270	1170		25	1682	1550		1616	66	2034
TOC	S96T000653	1370	1390		17	1853	1677		1665	12	1741
TOC	S96T001193	1860	2050		20	2332	2582		2457	125	3249
TOC	S96T000647	1860	1970		20	2316	2453		2384	68	2817
TOC	S96T001129	1830	1820	2130	13	2465	2199	2440	2268	86	2520
TOC	S96T001182	3520	4270		21	2451	2175		2413	38	2653
TOC	S96T001184	3620	4220	3900	23	4456	2673	5428	5182	486	6600
TOC	S96T000644	4870	5600		23	4159	4731		4784	7	4825
TOC	S96T001158	5110	5100		46	8626	8626		8492	134	10341
TOC	S96T001057	5210	5120		37	8954	8115		8112	53	8510
TOC	S96T001068	9520	8500		41	16885	14463		15274	871	20395
Analys	Sample#	Result	DUP	TRIP	Water	Result-Dr	Dup-Dr	Trip-Dr	Mean	Std. (Me	95% UL
TOC	S96T001121	993	1100		97	12351	15682		11016	655	17218
TOC	S96T000665	3090	3150		53	6066	6734		6670	64	7095
TOC	S96T002141	3190	3200		47	6822	6041		6031	9	6091
TOC	S96T002140	3230	3230		53	6801	6801		6801	0	6801
TOC	S96T001119	3670	3710		51	7501	7583		7542	41	7801
TOC	S96T002142	4920	4610		52	10318	9568		9993	325	12035
Analys	Sample#	Result	DUP	TRIP	Water	Result-Dr	Dup-Dr	Trip-Dr	Mean	Std. (Me	95% UL
TOC	S96T001120	1920	1650	1410	89	17753	15349		15380	1361	19355
TOC	S96T002034	659	691		98	35718	37453		36585	867	42051
TOC	S96T001128	3480	2900		22	4438	3699		4068	370	6404

WHC-SD-WM-DP-184, REV. 1

CHAIN OF CUSTODY FORMS

WHC-SD-WM-DP-184, REV. 1

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CONFIDENTIAL

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 200W-08-77 (2) Sample Number 96-034 (3) Supervisor Narthey (4) Tank 4-107 (5) Riser 9 (6) Segment 1 (7) Core 129 (8) Cask Serial Number SN 1-G

(10) Shipment Description

A. Work Package Number WS-95-0021210

B. Cask Seal Number 44910

C. Sampler Serial Number 94-420

D. Date and Time Sampler Unseated 2-6-96, 1327

E. Expected Liquid Content 100%

F. Expected Solid Content 100%

G. Dose Rate Through Drill String 1.5R/hr.

H. Expected Sample Length 2"

(33) LABORATORY

(31) FIELD

Over Top Dose Rate 1.5

Side Dose Rate 25

Bottom Dose Rate 7

Smearable Contamination 120

(Alpha)

1000

(Beta-Gamma)

RCT* [Signature] (HPT)

RCT* [Signature] (HPT)

(11) INFORMATION (Include statement of laboratory tests to be performed.)

WHC-SD-WM-DP-184, REV. 1

51

(12) Field Comments

This is only a 2" segment
small amount of water in
bottom of sampler

(34) Laboratory Comments

(13) Point of Origin <u>4-107</u>	(14) Destination <u>2-225</u>	(16) Sender Name (Sign and PRINT) <u>For Narthey</u>	(18) Date/Time <u>2-6-96</u>	(17) Sender Comments
(19) Relinquished By (Sign and PRINT) <u>James Sebels</u>	(20) Received By (Sign and PRINT) <u>James Sebels</u>	(21) Relinquished By (Sign and PRINT) <u>James Sebels</u>	(22) Date/Time <u>2-9-96</u>	(22) Receiver Comments
(23) Relinquished By (Sign and PRINT) <u>James Sebels</u>	(24) Received By (Sign and PRINT) <u>James Sebels</u>	(25) Relinquished By (Sign and PRINT) <u>James Sebels</u>	(26) Date/Time <u>2-9-96</u>	(26) Receiver Comments
(27) Relinquished By (Sign and PRINT) <u>James Sebels</u>	(28) Received By (Sign and PRINT) <u>James Sebels</u>	(29) Relinquished By (Sign and PRINT) <u>James Sebels</u>	(30) Date/Time <u>2-9-96</u>	(30) Receiver Comments

(31) Seal Intact Upon Receipt? ☒ Yes ☐ No

(32) Seal Data Consistent with this Record? ☒ Yes ☐ No

(33) Seal Intact Upon Release? ☒ Yes ☐ No

(34) Seal Data Consistent with this Record? ☒ Yes ☐ No

Sample No. ☒ Yes ☐ No

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 200W-08-TF (2) Sample Number 96-034R (3) Supervisor M.C. Jones

(4) Tank U-107 (5) Riser 9 (6) Segment 11R (7) Core 129 (8) Cask Serial Number SV-19-6

Radiation Survey Data:		(9) FIELD	(33) LABORATORY	(10) Shipment Description
Over Top Dose Rate	<u>L.5</u>		<u>L0.5</u>	A. Work Package Number <u>W5-95-00212</u>
Side Dose Rate	<u>L.5</u>		<u>L0.5</u>	B. Cask Seal Number <u>10805</u>
Bottom Dose Rate	<u>L.5</u>		<u>L0.5</u>	C. Sampler Serial Number <u>94-047</u>
Smearable Contamination	<u>L20</u>		<u>L20</u>	D. Date and Time Sampler Unseated <u>2-9-96 10458</u>
	<u>L1000</u>	(Alpha)		E. Expected Liquid Content <u>10%</u>
				F. Expected Solid Content <u>90%</u>
RCT* (HPT)	<u>[Signature]</u>	(Beta-Gamma)		G. Dose Rate Through Drill String <u>7 MR/HR</u>
RCT* (HPT)	<u>[Signature]</u>	(Signature)		H. Expected Sample Length <u>2"</u>

(11) INFORMATION (Include statement of laboratory tests to be performed.)

60

(12) Field Comments <u>NO X-RAY</u> <u>SAMPLE WAS ONLY PUSHED 2"</u>		(34) Laboratory Comments	
(13) Point of Origin <u>U-107</u>	(14) Destination <u>222-S</u>	(15) Sender Name (Sign and PRINT) <u>James Sickle James Sickle</u>	(16) Date/Time <u>2-9-96</u>
(19) Relinquished By (Sign and PRINT) <u>James Sickle James Sickle</u>	(20) Received By (Sign and PRINT) <u>David Thorne</u>	(17) Sender Comments	(22) Receiver Comments
(24) Relinquished By (Sign and PRINT) <u>David Thorne</u>	(25) Received By (Sign and PRINT) <u>David Thorne</u>	(26) Receiver Comments	(30) Receiver Comments
(27) Relinquished By (Sign and PRINT)	(28) Received By (Sign and PRINT)	(29) Date/Time <u>2-9-96</u>	(31) Date/Time <u>2-9-96</u>
(18) Seal Intact Upon Release? ☒ Yes ☐ No	(31) Seal Intact Upon Receipt? ☒ Yes ☐ No	(32) Seal Date Consistent with this Record? ☒ Yes ☐ No	
Shipment No. ☒ Yes ☐ No		Cask Seal No. ☒ Yes ☐ No	

WHC-SD-WM-DP-184, REV.

DISTRIBUTION: White - Office of Sample Management Yellow - Recipient of Sample Pink - Core Sampling

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number	200W-08-TF	(2) Sample Number	96-035	(3) Supervisor	Danew Johnson	(4) Tank	4-107	(5) Riser	9	(6) Segment	2	(7) Core	127	(8) Cask Serial Number	106
Radiation Survey Data:															
(9) FIELD															
Over Top Dose Rate															
Side Dose Rate															
Bottom Dose Rate															
Smearable Contamination															
(33) LABORATORY															
(110) Shipment Description															
A. Work Package Number															
B. Cask Seal Number															
C. Sampler Serial Number															
D. Date and Time Sampler Unseated															
E. Expected Liquid Content															
F. Expected Solid Content															
G. Dose Rate Through Drill String															
H. Expected Sample Length															

(11) INFORMATION (Include statement of laboratory tests to be performed.)

61

WHC-SD-WM-DP-184, REV. 1

(12) Field Comments		(34) Laboratory Comments	
(13) Point of Origin		(16) Date/Time	
(14) Destination		(17) Sender Comments	
(15) Relinquished By (Sign and PRINT)		(21) Date/Time	
(19) Relinquished By (Sign and PRINT)		(22) Receiver Comments	
(20) Received By (Sign and PRINT)		(25) Date/Time	
(23) Relinquished By (Sign and PRINT)		(26) Receiver Comments	
(24) Received By (Sign and PRINT)		(30) Receiver Comments	
(27) Relinquished By (Sign and PRINT)		(32) Seal Data Consistent with this Record?	
(31) Seal Intact Upon Receipt?		(32) Seal Data Consistent with this Record?	
(31) Seal Intact Upon Release?		(32) Seal Data Consistent with this Record?	

Seppie No.

Cask Seal No.

Shipment No.

Yes No

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 200W-08-TF

(2) Sample Number 96-035R

(3) Supervisor M.C. Jones

(4) Tank U-107 (5) Riser 9 (6) Segment 2R (7) Core 129 (8) Cask Serial Number C-2014

Radiation Survey Data:

(9) FIELD
Over Top Dose Rate 6.5
Side Dose Rate 6.5
Bottom Dose Rate 6.5
Smearable Contamination 120

(Alpha)
4000
(Beta-Gamma)
[Signature]
RCT* (HPT) (Signature)

(10) LABORATORY

(10) Shipment Description
A. Work Package Number W/S-95-00212
B. Cask Seal Number 10406
C. Sampler Serial Number 95-072
D. Date and Time Sampler Unseated 2/9/96 0555
E. Expected Liquid Content 10%
F. Expected Solid Content 90%
G. Dose Rate Through Drill String 30 mR/hr
H. Expected Sample Length 19"

(11) INFORMATION (include statement of laboratory tests to be performed.)

62

(12) Field Comments

NO X-RAY

(34) Laboratory Comments

WHC-SD-WM-DP-184, REV./

(13) Point of Origin <u>U-107</u>	(14) Destination <u>222-S</u>	(15) Sender Name (Sign and PRINT) <u>James Sicks</u>	(16) Date/Time <u>2-9-96</u>	(17) Sender Comments
(18) Relinquished By (Sign and PRINT) <u>James Sicks</u>	(19) Received By (Sign and PRINT) <u>David Kear</u>	(20) Received By (Sign and PRINT) <u>David Kear</u>	(21) Date/Time <u>2-9-96</u>	(22) Receiver Comments
(23) Relinquished By (Sign and PRINT) <u>David Kear</u>	(24) Received By (Sign and PRINT) <u>David Kear</u>	(25) Received By (Sign and PRINT) <u>David Kear</u>	(26) Date/Time <u>2-9-96</u>	(27) Receiver Comments
(28) Relinquished By (Sign and PRINT)	(29) Received By (Sign and PRINT)	(30) Received By (Sign and PRINT)	(31) Date/Time	(32) Receiver Comments

(18) Seal Intact Upon Release? ☒ Yes ☐ No

(31) Seal Intact Upon Receipt? ☒ Yes ☐ No

Shipment No. ☒ Yes ☐ No

(32) Seal Data Consistent with this Record? ☒ Yes ☐ No

Sample No. ☒ Yes ☐ No

Copy

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

Shipment Number 200w-08-TF (2) Sam. # Number 96-036 (3) Supervisor M.C. Jones (8) Cask Serial Number C-2010
 Tank U-107 (5) Riser 9 (6) Segment 3 (7) Core 129

11) Shipment Description	
A. Work Package Number	<u>WS-95-00212</u>
B. Cask Seal Number	<u>10404</u>
C. Sampler Serial Number	<u>94-444</u>
D. Date and Time Sampler Unseated	<u>2-7-96/10139</u>
E. Expected Liquid Content	<u>10%0</u>
F. Expected Solid Content	<u>90%0</u>
G. Dose Rate Through Drill String	<u>1 R/HR</u>
H. Expected Sample Length	<u>17"</u>

11) INFORMATION (Include statement of laboratory tests to be performed.)

63

12) Field Comments		13) Laboratory Comments	
<u>NO - X-RAY</u>			

13) Point of Origin		14) Destination	
<u>U-107</u>	<u>222-S</u>		
15) Relinquished By (Sign and PRINT)		16) Date/Time	
<u>James Selek James Selek</u>		<u>2/9/96</u>	
17) Relinquished By (Sign and PRINT)		18) Date/Time	
<u>James Selek James Selek</u>		<u>2/9/96</u>	
19) Relinquished By (Sign and PRINT)		20) Date/Time	
<u>James Selek James Selek</u>		<u>2/9/96</u>	
21) Relinquished By (Sign and PRINT)		22) Date/Time	
<u>James Selek James Selek</u>		<u>2/9/96</u>	

Sample No. ☐ Yes ☐ No

Cask Seal No. ☒ Yes ☐ No

Shipment No. ☒ Yes ☐ No

118) Seal Intact Upon Release? ☐ Yes ☐ No

119) Seal Intact Upon Receipt? ☐ Yes ☐ No

120) Seal Data Consistent with this Record? ☐ Yes ☐ No

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

Danev D. Ponce

(1) Shipment Number 0010817 (2) Sample Number 96-093 (3) Supervisor Danev D. Ponce (8) Cask Serial Number C 1042(4) Tank U-107 (5) Riser 7 (6) Segment 1 (7) Core 134

(10) SHIPMENT DESCRIPTION	
A. Work Package Number <u>45-95-00212</u>	
B. Cask Seal Number <u>1575</u>	
C. Sampler Serial Number <u>94-403</u>	
D. Date and Time Sampler Unseated <u>2-16-96 0049</u>	
E. Expected Liquid Content <u>1075</u>	
F. Expected Solid Content <u>9000</u>	
G. Dose Rate Through Drill String <u>5 mg/hr</u>	
H. Expected Sample Length <u>16"</u>	

(11) INFORMATION (Include statement of laboratory tests to be performed.)

65

(12) Field Comments		(34) Laboratory Comments	
WHC-SD-WM-DP-184, REV. 1		S96 T000775	

(13) Point of Origin		(14) Destination		(15) Sender Name (Sign and PRINT)		(16) Date/Time		(17) Sender Comments	
U-107		2225		R. Ponce		2-20-96			
(19) Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)		(21) Date/Time		(22) Receiver Comments			
[Signature]		[Signature]		2-20-96/1311					
(23) Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)		(25) Date/Time		(26) Receiver Comments			
[Signature]		[Signature]		2-20-96/1450					
(27) Relinquished By (Sign and PRINT)		(28) Received By (Sign and PRINT)		(29) Date/Time		(30) Receiver Comments			
[Signature]		[Signature]							

(32) Seal Data Consistent with this Record?

(18) Seal Intact Upon Release?		(31) Seal Intact Upon Receipt?		Shipment No.		Cask Seal No.		Sample No.	
☒ Yes	☐ No	☒ Yes	☐ No	☒ Yes	☐ No	☒ Yes	☐ No	☒ Yes	☐ No

BC-6000-303 10

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 200W-08-7F (2) Sample Number 96-094 (3) Supervisor Dana (4) Tank U-107 (5) Riser 7 (6) Segment 2 (7) Core 134 (8) Cask Serial Number 50-76

Radiation Survey Data:		(9) FIELD		(10) Shipment Description	
Over Top Dose Rate		<u>40.5</u>		A. Work Package Number	<u>W5-95-00212</u>
Side Dose Rate		<u>8</u>		B. Cask Seal Number	<u>1598</u>
Bottom Dose Rate		<u>10</u>		C. Sampler Serial Number	<u>94-432</u>
Smearable Contamination		<u>220</u>		D. Date and Time Sampler Unseated	<u>2-16-96 01:49</u>
		(Alpha)		E. Expected Liquid Content	<u>10%</u>
		<u>4000</u>		F. Expected Solid Content	<u>90%</u>
		(Beta-Gamma)		G. Dose Rate Through Drill String	<u>350 mR/hr</u>
		(Signature)		H. Expected Sample Length	<u>19"</u>

(11) INFORMATION (Include statement of laboratory tests to be performed.)

66

Bottom of sampler slightly dirty
sampler was X-Rayed

WHC-SD-WM-DP-184, REV. /

(12) Field Comments		(34) Laboratory Comments	
		#778	
(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time
<u>U-107</u>	<u>2225</u>	<u>R.J. Penick</u>	<u>2-20-96/130</u>
(17) Relinquished By (Sign and PRINT)	(18) Relinquished By (Sign and PRINT)	(19) Received By (Sign and PRINT)	(20) Date/Time
<u>W. J. Penick</u>	<u>W. J. Penick</u>	<u>McDermott</u>	<u>2-20-96/134</u>
(21) Relinquished By (Sign and PRINT)	(22) Relinquished By (Sign and PRINT)	(23) Received By (Sign and PRINT)	(24) Date/Time
<u>W. J. Penick</u>	<u>W. J. Penick</u>	<u>DR. Penick</u>	<u>2-20-96/1350</u>
(25) Relinquished By (Sign and PRINT)	(26) Relinquished By (Sign and PRINT)	(27) Received By (Sign and PRINT)	(28) Date/Time
(31) Seal Intact Upon Receipt?		(32) Seal Data Consistent with this Record?	
☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	

Sample No.
☒ Yes ☐ No

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

COPI

(1) Shipment Number 200W-08-1F (2) Sample Number 96-095 (3) Supervisor Danew D. [Signature] (8) Cask Serial Number 50-64
 (4) Tank 4-107 (5) Riser 7 (6) Segment 3 (7) Date 1-31

Radiation Survey Data:		(9) FIELD		(10) Shipment Description	
Over Top Dose Rate		<u>20.5</u>		A. Work Package Number	<u>W5-95-00212</u>
Side Dose Rate		<u>7</u>		B. Cask Seal Number	<u>1566</u>
Bottom Dose Rate		<u>7</u>		C. Sampler Serial Number	<u>94-436</u>
Smearable Contamination		<u>220</u>	(Alpha)	D. Date and Time Sampler Unseated	<u>2-16-96 05:07</u>
		<u>4400</u>	(Beta-Gamma)	E. Expected Liquid Content	<u>10%</u>
		<u>[Signature]</u>	(Signature)	F. Expected Solid Content	<u>90%</u>
RCT* (HPT)				G. Dose Rate Through Drill String	<u>4000R/hr</u>
RCT* (HPT)				H. Expected Sample Length	<u>19'</u>

(11) INFORMATION (Include statement of laboratory tests to be performed.)

67

(12) Field Comments		(13) LABORATORY		(34) Laboratory Comments		WHC-SD-WM-DP-184, REV. 1			
(12) Field Comments sampler slightly dirty on bottom sampler was x rayed		(33) LABORATORY (15) Sender Name (Sign and PRINT) <u>RJ [Signature]</u> (20) Received By (Sign and PRINT) <u>[Signature]</u> (25) Received By (Sign and PRINT) <u>[Signature]</u> (28) Received By (Sign and PRINT) <u>[Signature]</u>		(34) Laboratory Comments #779		(16) Date/Time	(17) Sender Comments	(21) Date/Time	(22) Receiver Comments
						(18) Date/Time	(23) Date/Time	(26) Receiver Comments	
						(19) Date/Time	(24) Date/Time	(29) Receiver Comments	
						(20) Date/Time	(25) Date/Time	(30) Receiver Comments	
						(21) Date/Time	(26) Date/Time	(31) Receiver Comments	
(18) Seal Intact Upon Release?		(31) Seal Intact Upon Receipt?		(32) Seal Data Consistent with this Period?		Check Seal No. ☒ Yes ☐ No			
☒ Yes ☐ No		☒ Yes ☐ No		☒ Yes ☐ No		Sample No. ☒ Yes ☐ No			

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

COPY

(1) Shipment Number 200W-08-77 (2) Sample Number 96-096 (3) Supervisor Harvey (8) Cask Serial Number 513-78
 (4) Tank U-107 (5) Riser 7 (6) Segment 4 (7) Core 134

(9) FIELD		(33) LABORATORY	(110) Shipment Description
Radiation Survey Date:			
Over Top Dose Rate	<u>6.5 mR/hr</u>	<u>10.5 mR/hr</u>	A. Work Package Number <u>W5-95-00712-10</u>
Side Dose Rate	<u>25 mR/hr</u>	<u>23 mR/hr</u>	B. Cask Seal Number <u>4490</u>
Bottom Dose Rate	<u>10 mR/hr</u>	<u>10 mR/hr</u>	C. Sampler Serial Number <u>94-037</u>
Severable Contamination	<u>LD</u>	<u>LD</u>	D. Date and Time Sampler Unsealed <u>2-16-96, 1753</u>
			E. Expected Liquid Content <u>109g</u>
			F. Expected Solid Content <u>90g</u>
RCT* (HPT)	<u>David</u>	RCT* (HPT)	G. Dose Rate Through Drill String <u>1.4 R/hr</u>
			H. Expected Sample Length <u>19"</u>

(11) INFORMATION (includes statement of laboratory tests to be performed)

68

(12) Field Comments

(14) Laboratory Comments

781

WHC-SD-WM-OP-184, REV. 1

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
<u>U-107</u>	<u>222S</u>	<u>David R. Szpak</u>	<u>2-20-96 13:55</u>	
(19) Relinquished By (Sign and PRINT)	(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments	
<u>David R. Szpak</u>	<u>David R. Szpak</u>	<u>4/16/96</u>		
(23) Relinquished By (Sign and PRINT)	(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments	
<u>David R. Szpak</u>	<u>N. L. P. R. S.</u>	<u>2-20-96</u>		
(27) Relinquished By (Sign and PRINT)	(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments	

(18) Seal Intact Upon Release?

☒ Yes ☐ No

(31) Seal Intact Upon Receipt?

☒ Yes ☐ No

Shipment No.

☒ Yes ☐ No

(32) Seal Data Consistent with this Record?

☒ Yes ☐ No

Cask Seal No.

☒ Yes ☐ No

Sample No.

☒ Yes ☐ No

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number <u>200W-08-7F</u>	(2) Sample Number <u>96-007</u>	(3) Supervisor <u>Hartley</u>	(4) Tank <u>4-107</u>	(5) Riser <u>7</u>	(6) Segment <u>3</u>	(7) Core <u>1-74</u>	(8) Cask Serial Number <u>SN#73</u>
--	------------------------------------	----------------------------------	--------------------------	-----------------------	-------------------------	-------------------------	--

Radiation Survey Data:		(9) FIELD	(10) SHIPMENT DESCRIPTION
Over Top Dose Rate	<u>4.5 mR/hr</u>	(11) LABORATORY	A. Work Package Number <u>W5-95-00212/0</u>
Side Dose Rate	<u>11 mR/hr</u>		B. Cask Seal Number <u>4489</u>
Bottom Dose Rate	<u>13 mR/hr</u>		C. Sampler Serial Number <u>94-014</u>
Smearable Contamination	<u>LD</u>		D. Date and Time Sampler Unsealed <u>2-16-96, 1956</u>
	<u>LD</u>		E. Expected Liquid Content <u>1000</u>
	<u>LD</u>		F. Expected Solid Content <u>9000</u>
			G. Dose Rate Through Drill String <u>800 MV/Hr</u>
			H. Expected Sample Length <u>1042"</u>

RCT* (HPT) <u>[Signature]</u>	RCT* (HPT) <u>[Signature]</u>
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(11) INFORMATION (include statement of laboratory tests to be performed.)

39

COPY

(12) Field Comments

1042" Sample, keeps water Added Above Sampler

(13) Laboratory Comments

#782

WHC-SD-WM-DP-184, REV. 1

(13) Point of Origin <u>4-107</u>	(14) Destination <u>2223</u>	(15) Sender Name (Sign and PRINT) <u>Charles R. Penzlin</u>	(16) Date/Time <u>2-09-96/1355h</u>	(17) Sender Comments
(18) Relinquished By (Sign and PRINT) <u>Charles R. Penzlin</u>	(19) Received By (Sign and PRINT) <u>David J. Kearns</u>	(20) Relinquished By (Sign and PRINT) <u>Charles R. Penzlin</u>	(21) Date/Time <u>2-09-96</u>	(22) Receiver Comments
(23) Relinquished By (Sign and PRINT) <u>David J. Kearns</u>	(24) Received By (Sign and PRINT) <u>Charles R. Penzlin</u>	(25) Relinquished By (Sign and PRINT) <u>Charles R. Penzlin</u>	(26) Date/Time <u>2-20-96</u>	(27) Receiver Comments
(28) Relinquished By (Sign and PRINT)	(29) Received By (Sign and PRINT)	(30) Relinquished By (Sign and PRINT)	(31) Date/Time	(32) Receiver Comments

(18) Seal Intact Upon Release?	(31) Seal Intact Upon Receipt?	(32) Seal Data Consistent with this Record?
☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No

Shipment No.	Cask Seal No.	Sample No.
☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No

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CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

Shipment Number 200W-08-TF (2) Sample Number 96-097A (3) Supervisor Danew J. Pearce
 Tank U-107 (5) Riser 7 (6) Segment 5A (7) Core 134 (8) Cask Serial Number 5068

(9) FIELD		(13) LABORATORY		(10) Shipment Description	
Top Dose Rate	<u>2.5 m/hr</u>	Work Package Number	<u>WS-95-00212</u>	Work Package Number	<u>1567</u>
Dose Rate	<u>3 m/hr</u>	Sampler Serial Number	<u>95-052</u>	Sampler Serial Number	<u>2-20-96 10:59</u>
Variable Contamination	<u>2.0</u>	Date and Time Sampler Unseated	<u>1070</u>	Date and Time Sampler Unseated	<u>90%</u>
	<u>1K</u>	Expected Liquid Content	<u>90%</u>	Expected Liquid Content	<u>970 MB/hr</u>
	<u>(Beta-Gamma)</u>	Expected Solid Content	<u>1/2 inch</u>	Expected Solid Content	
RCT* (HPT)	<u>(Signature)</u>	Dose Rate Through Drill String		Dose Rate Through Drill String	
RCT* (HPT)	<u>(Signature)</u>	Expected Sample Length		Expected Sample Length	

INFORMATION (include statement of laboratory tests to be performed.)

WHC-SD-WM-DP-184, REV. 1

Field Comments <u>Added 1: Thieme Bromide</u>		(34) Laboratory Comments <u>#793</u>	
Point of Origin <u>U-107</u>	(14) Destination <u>2225</u>	(15) Sender Name (Sign and PRINT) <u>W. J. Pearce</u>	(16) Date/Time <u>2/20/96 1440</u>
Relinquished By (Sign and PRINT) <u>W. J. Pearce</u>	(20) Received By (Sign and PRINT) <u>David S. Pearce</u>	(21) Date/Time <u>2/20/96 1445</u>	(22) Receiver Comments
Relinquished By (Sign and PRINT) <u>W. J. Pearce</u>	(24) Received By (Sign and PRINT) <u>W. J. Pearce</u>	(25) Date/Time <u>2-20-96</u>	(26) Receiver Comments
Relinquished By (Sign and PRINT)	(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments
(31) Seal Intact Upon Receipt?		(32) Seal Date Consistent with this Record?	

Sample No. ☐ No

Cask Seal No. ☐ No

Shipment No. ☐ No

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 20041-081F (2) Sample Number 96-0978 (3) Supervisor A. Harkey
 (4) Tank 4-107 (5) Riser 7 (6) Segment SB (7) Core 134 (8) Cask Serial Number SN#169

RADIATION SURVEY DATA:		(9) FIELD		(33) LABORATORY		(110) SHIPMENT DESCRIPTION	
Over Top Dose Rate	<u>40.5 uR/hr</u>			A. Work Package Number	<u>WS-95-002124</u>		
Side Dose Rate	<u>21 uR/hr</u>			B. Cask Seal Number	<u>223-96-1010</u>		
Bottom Dose Rate	<u>9 uR/hr</u>			C. Sampler Serial Number	<u>94-060</u>		
Smearable Contamination	<u>420 dpm</u>			D. Date and Time Sampler Unseated	<u>2-21-96, 010</u>		
	(Alpha)			E. Expected Liquid Content	<u>1080</u>		
	<u>4000 dpm</u>			F. Expected Solid Content	<u>9090</u>		
	(Beta-Gamma)			G. Dose Rate Through Drill String	<u>1.2 R/hr</u>		
RCT* (HPT)	<u>SL</u>	RCT* (HPT)	<u>SL</u>	H. Expected Sample Length	<u>1904 911</u>		
(Signature)		(Signature)					

(11) INFORMATION (Include statement of laboratory tests to be performed.)

WHC-SD-WM-DP-184, REV. 1

(12) Field Comments		(34) Laboratory Comments		(17) Sender Comments	
Lithium Bromide Added		#784			
Dariusz Jelen					
(13) Point of Origin	<u>W707</u>	(16) Date/Time	<u>2-23-96 1010</u>	(22) Receiver Comments	
(14) Destination	<u>2225</u>	(21) Date/Time	<u>2-23-96 1010</u>	(25) Receiver Comments	
(15) Relinquished By (Sign and PRINT)	<u>W. S. Praznik</u>	(24) Received By (Sign and PRINT)	<u>W. S. Praznik</u>	(29) Date/Time	<u>2-23-96 1010</u>
(23) Relinquished By (Sign and PRINT)	<u>W. S. Praznik</u>	(28) Received By (Sign and PRINT)	<u>W. S. Praznik</u>	(30) Receiver Comments	
(27) Relinquished By (Sign and PRINT)	<u>W. S. Praznik</u>	(29) Date/Time	<u>2-23-96 1010</u>		

(18) Seal Intact Upon Release?		(31) Seal Intact Upon Receipt?		(32) Seal Data Consistent with this Record?	
☒ Yes	☐ No	☐ Yes	☐ No	☐ Yes	☐ No
Shipment No.		Cask Seal No.		Sample No.	
☐ Vac ☐ N/A		☐ Vac ☐ N/A		☐ Vac ☐ N/A	

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 200W-08-TF (2) Sample Number 94-06-04-098 (3) Supervisor for they (4) Tank 4-107 (5) Riser 7 (6) Segment 6 (7) Core 134 (8) Cask Serial Number C 2012

Radiation Survey Data:

Over Top Dose Rate	<u>40.5 AE/HR</u>	(9) FIELD	(10) Shipment Description
Side Dose Rate	<u>40.5 AE/HR</u>	(11) LABORATORY	A. Work Package Number <u>W5-85-0021240</u>
Bottom Dose Rate	<u>40.5 AE/HR</u>		B. Cask Seal Number <u>94-06-04-098</u>
Smearable Contamination	<u>40.5 AE/HR</u>		C. Sampler Serial Number <u>94-062</u>
	<u>40.5 AE/HR</u>		D. Date and Time Sampler Unsealed <u>2-21-96, 0318</u>
	<u>40.5 AE/HR</u>		E. Expected Liquid Content <u>100%</u>
	<u>40.5 AE/HR</u>		F. Expected Solid Content <u>90%</u>
	<u>40.5 AE/HR</u>		G. Dose Rate Through Drill String <u>2.45E-4</u>
	<u>40.5 AE/HR</u>		H. Expected Sample Length <u>13 1/2'</u>

RCI* (HPT): SL (Signature) RCI* (HPT): for they (Signature)

(11) INFORMATION (includes statement of laboratory tests to be performed.)

72

COPY

WHC-SD-WM-DP-184, REV.

(12) Field Comments Lithium bromide water Added

(13) Point of Origin 0107-07 (14) Destination 222.5

(15) Sender Name (Sign and PRINT) R. J. Penzance (16) Date/Time 2-23-96/1010

(17) Sender Comments

(18) Seal Intact Upon Release? ☒ Yes ☐ No (19) Seal Intact Upon Receipt? ☐ Yes ☐ No

(20) Received By (Sign and PRINT) R. J. Penzance (21) Date/Time 2-23-96/1010

(22) Receiver Comments

(23) Relinquished By (Sign and PRINT) R. J. Penzance (24) Date/Time 2-23-96/1010

(25) Receiver Comments

(26) Relinquished By (Sign and PRINT) R. J. Penzance (27) Date/Time 2-23-96/1010

(28) Received By (Sign and PRINT) R. J. Penzance (29) Date/Time 2-23-96/1010

(30) Receiver Comments

(31) Seal Data Consistent with this Record? ☐ Yes ☐ No (32) Seal Data Consistent with this Record? ☐ Yes ☐ No

(33) Laboratory Comments #785

Shipment No. ☐ Yes ☐ No Cask Seal No. ☐ Yes ☐ No

Sample No. ☐ Yes ☐ No

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

COPI 1

(1) Shipment Number 206W-08-1F (2) Sample Number 96-098A (3) Supervisor Dave Zeline
 (4) Tank 4-107 (5) Riser 7 (6) Segment 6A (7) Core 134 (8) Cask Serial Number C 2015

Radiation Survey Data:		(9) FIELD	(33) LABORATORY	(10) Shipment Description
Over Top Dose Rate	<u>10.5 mR/hr</u>		<u>10.5 mR/hr</u>	A. Work Package Number <u>W5195/00.313</u>
Side Dose Rate	<u>2.1 mR/hr</u>		<u>2.3 mR/hr</u>	B. Cask Seal Number <u>1564</u>
Bottom Dose Rate	<u>2.7 mR/hr</u>		<u>2.7 mR/hr</u>	C. Sampler Serial Number <u>94-334</u>
Smearable Contamination	<u>120 APC</u>		<u>120 APC</u>	D. Date and Time Sampler Unseated <u>19:05 2-26-96</u>
	<u>1000 APC</u>		<u>1000 APC</u>	E. Expected Liquid Content <u>10%</u>
	<u>1000 APC</u>		<u>1000 APC</u>	F. Expected Solid Content <u>90%</u>
RCF* (HPT)	<u>0.000000</u>		<u>0.000000</u>	G. Dose Rate Through Drill String <u>150 mR/hr</u>
RCF* (HPT)	<u>0.000000</u>		<u>0.000000</u>	H. Expected Sample Length <u>19"</u>

(11) INFORMATION (Include statement of laboratory tests to be performed.)

Field Comments		Laboratory Comments		Seal Date Consistent with this Record?	
(12) Field Comments <u>Lith Br. added. Expect most of sample to be Lith Br.</u>		(34) Laboratory Comments <u>924</u>		(32) Seal Date Consistent with this Record?	
(13) Point of Origin <u>42787</u>	(14) Destination <u>2225</u>	(15) Sender Name (Sign and PRINT) <u>R.J. Pearson</u>	(16) Date/Time <u>2-27-96</u>	(17) Sender Comments	
(19) Relinquished By (Sign and PRINT) <u>R.J. Pearson</u>	(20) Received By (Sign and PRINT) <u>Dave Zeline</u>	(21) Date/Time <u>2-27-96</u>	(22) Receiver Comments		
(23) Relinquished By (Sign and PRINT) <u>Dave Zeline</u>	(24) Received By (Sign and PRINT) <u>R.J. Pearson</u>	(25) Date/Time <u>2-27-96</u>	(26) Receiver Comments		
(27) Relinquished By (Sign and PRINT)	(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments		
(18) Seal Intact Upon Release? ☒ Yes ☐ No	(31) Seal Intact Upon Receipt? ☒ Yes ☐ No	(32) Seal Date Consistent with this Record? ☒ Yes ☐ No		(33) Seal Date Consistent with this Record? ☒ Yes ☐ No	

WHC-SD-WM-DP-184, REV. 1

DISTRIBUTION: WHC-SD-WM-DP-184, REV. 1

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 100W-08TF (2) Sample Number 96-100 (3) Supervisor M. C. Jones

(4) Tank U-107 (5) Riser 2 (6) Segment 1 (7) Core 135 (8) Cask Serial Number SN-69

Radiation Survey Data:

(9) FIELD
Over Top Dose Rate .6 urem/hr
Side Dose Rate 30 urem/hr
Bottom Dose Rate 16 urem/hr
Smearable Contamination 420
(Alpha)
41,000

(Beta-Gamma)

RCT* D J Davidson
(HPT) (Signature)

(33) LABORATORY

2025 urem/hr
10 urem/hr
8 urem/hr
220 urem/hr
(Alpha)
2100 urem/hr
(Beta-Gamma)
J J Davidson
(Signature)

(10) Shipment Description

A. Work Package Number 45-95-00212
B. Cask Seal Number 10462
C. Sampler Serial Number 95-071
D. Date and Time Sampler Unseated 3/20/96 0135
E. Expected Liquid Content 100%
F. Expected Solid Content 0%
G. Dose Rate Through Drill String CRJHR
H. Expected Sample Length 12"

(11) INFORMATION (Include statement of laboratory tests to be performed.)

(12) Field Comments

X-RAY SHOWED ABOUT 4 1/2" IN SAMPLES

(34) Laboratory Comments

596T001667

Group 96000422

0001

WHC-SD-WM-DP-184, REV. 1

(13) Point of Origin

U-107

(14) Destination

222-S

(15) Sender Name (Sign and PRINT)

Robert J. Pearson for M. Jones

(16) Date/Time

4-15-1400

(17) Sender Comments

(19) Relinquished By (Sign and PRINT)

Robert J. Pearson

(20) Received By (Sign and PRINT)

McDunnigh

(21) Relinquished By (Sign and PRINT)

Robert J. Pearson

(22) Received By (Sign and PRINT)

McDunnigh

(23) Relinquished By (Sign and PRINT)

Robert J. Pearson

(24) Received By (Sign and PRINT)

McDunnigh

(25) Date/Time

4-1-96

(26) Receiver Comments

(27) Receiver Comments

(28) Receiver Comments

(29) Date/Time

4-1-96

(30) Receiver Comments

(18) Seal intact Upon Receipt?

Yes ☒ No ☐

(31) Seal intact Upon Receipt?

Yes ☒ No ☐

(32) Seal Data Consistent with this Record?

Yes ☒ No ☐

Shipment No.

Yes ☒ No ☐

Cask Seal No.

Yes ☒ No ☐

Sample No.

Yes ☒ No ☐

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 100W-08-1F (2) Sample Number 96-1008 (3) Supervisor M.C. Jones (8) Cask Serial Number SN-604

(4) Tank 4-107 (5) Riser 2 (6) Segment 1R (7) Core 135

(10) Shipment Description 45-95-00212

(11) FIELD

Radiation Survey Data:

Over Top Dose Rate 0.5 urem/hr

Side Dose Rate 5.2 urem/hr

Bottom Dose Rate 14 urem/hr

Smearable Contamination <20 (Alpha) 0.1000 (Beta-Gamma)

ACT* D. Jackson (HPT) RCT* OPR Mrazek (HPT)

(12) LABORATORY

A. Work Package Number 10422

B. Cask Seal Number 10422

C. Sampler Serial Number 3-26-96/1030

D. Date and Time Sampler Unseated 100%

E. Expected Liquid Content 0%

F. Expected Solid Content 1.5 R/HR

G. Dose Rate Through Drift String 19"

H. Expected Sample Length

(13) INFORMATION (include statement of laboratory tests to be performed.)

75

copy

(34) Laboratory Comments

1668

(12) Field Comments

X-RAY showed 18" in sampler

WHC-SD-WM-DP-184, REV. /

(13) Point of Origin 47107 (14) Destination 222-S (15) Sender Name (Sign and PRINT) W. J. Paznik for M. Jones (16) Date/Time 4-15-96 1400 (17) Sender Comments

(18) Relinquished By (Sign and PRINT) W. J. Paznik (20) Received By (Sign and PRINT) W. J. Paznik (21) Date/Time 4-15-96 1400 (22) Receiver Comments

(23) Relinquished By (Sign and PRINT) W. J. Paznik (25) Received By (Sign and PRINT) W. J. Paznik (26) Date/Time 4-15-96 1400 (27) Receiver Comments

(27) Relinquished By (Sign and PRINT) W. J. Paznik (28) Received By (Sign and PRINT) W. J. Paznik (30) Date/Time 4-15-96 1400 (30) Receiver Comments

(32) Seal Data Consistent with this Record?

(31) Seal Intact Upon Receipt? ☐ No ☒ Yes

(18) Seal Intact Upon Release? ☐ No ☒ Yes

Cask Seal No. ☐ No ☒ Yes

Sample No. ☐ No ☒ Yes

BC-6000-309 (C)

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

200w-08-TF

96-101

12 Sample Number

2

11-107

11 Shipment Number

4-107

(4) Tank

96-101

12 Sample Number

2

11-107

11 Shipment Number

4-107

(4) Tank

135

135

2

2

135

135

135

135

(10) Shipment Description

(13) LABORATORY

(9) FIELD

A. Work Package Number

1015 mR/HK

2.5 mrem/hr

B. Cask Seal Number

13 mR/HK

30 mrem/hr

C. Sampler Serial Number

1015 mR/HK

12 mrem/hr

D. Date and Time Samples Unloaded

220 0800 hrs

220 0800 hrs

E. Expected Liquid Content

220 0800 hrs

220 0800 hrs

F. Expected Solid Content

220 0800 hrs

220 0800 hrs

G. Dose Rate Through Drill String

220 0800 hrs

220 0800 hrs

H. Expected Sample Length

220 0800 hrs

220 0800 hrs

(Alpha)

(Alpha)

(Alpha)

(Beta Gamma)

(Beta Gamma)

(Beta Gamma)

(Signature)

(Signature)

(Signature)

1015 mR/HK

1015 mR/HK

1015 mR/HK

1015 mR/HK

1015 mR/HK

1015 mR/HK

1015 mR/HK

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WHC-SD-WM-DP-184, REV. /

(34) Laboratory Comments

1669

X-RAY showed sampler WAS EMPTY

(12) Field Comments

(116) Date/Time

4-19-1000

4-19-1000

4-19-1000

4-19-1000

4-19-1000

4-19-1000

(121) Date/Time

4-19-1000

4-19-1000

4-19-1000

4-19-1000

4-19-1000

4-19-1000

(125) Date/Time

4-19-1000

4-19-1000

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4-19-1000

4-19-1000

4-19-1000

(129) Date/Time

4-19-1000

4-19-1000

4-19-1000

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4-19-1000

4-19-1000

(17) Sender Comments

4-19-1000

4-19-1000

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4-19-1000

(22) Receiver Comments

4-19-1000

4-19-1000

4-19-1000

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4-19-1000

(26) Receiver Comments

4-19-1000

4-19-1000

4-19-1000

4-19-1000

4-19-1000

4-19-1000

(30) Receiver Comments

4-19-1000

4-19-1000

4-19-1000

4-19-1000

4-19-1000

4-19-1000

(32) Seal Date Consistent with 4th record?

4-19-1000

4-19-1000

4-19-1000

4-19-1000

4-19-1000

4-19-1000

(31) Seal Intact Upon Receipt?

4-19-1000

4-19-1000

4-19-1000

4-19-1000

4-19-1000

4-19-1000

(18) Seal Intact Upon Release?

4-19-1000

4-19-1000

4-19-1000

4-19-1000

4-19-1000

4-19-1000

(31) Seal Intact Upon Receipt?

4-19-1000

4-19-1000

4-19-1000

4-19-1000

4-19-1000

4-19-1000

(32) Seal Date Consistent with 4th record?

4-19-1000

4-19-1000

4-19-1000

4-19-1000

4-19-1000

4-19-1000

(18) Seal Intact Upon Release?

4-19-1000

4-19-1000

4-19-1000

4-19-1000

4-19-1000

4-19-1000

(31) Seal Intact Upon Receipt?

4-19-1000

4-19-1000

4-19-1000

4-19-1000

4-19-1000

4-19-1000

(32) Seal Date Consistent with 4th record?

4-19-1000

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number ADW-0877 (2) Sample Number 96-101A (3) Supervisor Daves (4) Tank U-107 (5) Riser 3 (6) Segment 2A (7) Core 135 (8) Cask Serial Number C2013

Radiation Survey Date: (9) FIELD (10) SHIPMENT DESCRIPTION

Over Top Dose Rate <u>0.6 mrem/hr</u>	(11) LABORATORY <u>0.5 mrem/hr</u>	A. Work Package Number <u>W5-95-00213</u>
Side Dose Rate <u>0.0 mrem/hr</u>	<u>10 mrem/hr</u>	B. Cask Seal Number <u>1553</u>
Bottom Dose Rate <u>10 mrem/hr</u>	<u>5 mrem/hr</u>	C. Sampler Serial Number <u>95-1515</u>
Smearable Contamination <u>420 DPM/100cm²</u> (Alpha)	<u>220 DPM</u>	D. Date and Time Sampler Unsealed <u>3-22-96 2055</u>
<u>21,000 DPM/100cm²</u> (Beta-Gamma)	<u>21,000 DPM</u>	E. Expected Liquid Content <u>10%</u>
RCT* <u>D. J. Nelson</u> (HPT) (Signature)	RCT* <u>DR Muelr</u> (HPT) (Signature)	F. Expected Solid Content <u>90%</u>
		G. Dose Rate Through Drill String <u>800 mrem/hr</u>
		H. Expected Sample Length <u>2' 2 inches</u>

(11) INFORMATION (Include statement of laboratory tests to be performed.)

(12) Field Comments

(34) Laboratory Comments

1670

WHC-SD-WM-DP-184, REV. 1

(13) Point of Origin <u>U-107</u>	(14) Destination <u>2235</u>	(15) Shipper Name (Sign and PRINT) <u>Plutonium Sealers</u>	(16) Date/Time <u>4-19-96</u>	(17) Sender Comments
(18) Released By (Sign and PRINT) <u>W. J. P. P. P.</u>	(20) Received By (Sign and PRINT) <u>W. J. P. P. P.</u>	(21) Date/Time <u>4-19-96</u>	(22) Receiver Comments	
(23) Relinquished By (Sign and PRINT) <u>W. J. P. P. P.</u>	(24) Received By (Sign and PRINT) <u>W. J. P. P. P.</u>	(25) Date/Time <u>4-19-96</u>	(26) Receiver Comments	
(27) Relinquished By (Sign and PRINT) <u>W. J. P. P. P.</u>	(28) Received By (Sign and PRINT) <u>W. J. P. P. P.</u>	(29) Date/Time <u>4-19-96</u>	(30) Receiver Comments	
(31) Seal Intact Upon Receipt? ☒ Yes ☐ No	(32) Seal Intact Upon Release? ☒ Yes ☐ No	(33) Seal Date Consistent with this Record? ☒ Yes ☐ No		

DISTRIBUTION: White - Office of Sample Management

Sample No. ☒ Yes ☐ No

Cask Seal No. ☒ Yes ☐ No

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

CUP
CUP-18-96

1 Shipment Number 200W-08-TF (2) Sample Number 96-101R (3) Supervisor Blair 2 Hall (4) Cask Serial Number C-2009
 1 Tank 107-U (5) Riser 2 (6) Segment 2R (7) Core 135

110 Shipment Description	
A. Work Package Number	<u>WS-95-002610</u>
B. Cask Seal Number	<u>1261</u>
C. Sampler Serial Number	<u>95-145S</u>
D. Date and Time Sampler Unseated	<u>12:50 PM 3-28-96</u>
E. Expected Liquid Content	<u>10%</u>
F. Expected Solid Content	<u>90%</u>
G. Dose Rate Through Drill String	<u>300 m/r</u>
H. Expected Sample Length	<u>19"</u>

11 INFORMATION (Include statement of laboratory tests to be performed.)

114 Field Comments		116 Laboratory Comments	
<p>1 Point of Origin <u>U107 107-U</u> (14) Destination <u>222-S</u></p> <p>1 Relinquished By (Sign and PRINT) <u>Blair 2 Hall</u> (15) Sender Name (Sign and PRINT) <u>Blair 2 Hall</u></p> <p>1 Relinquished By (Sign and PRINT) <u>Blair 2 Hall</u> (16) Date/Time <u>4-2-96</u></p> <p>1 Relinquished By (Sign and PRINT) <u>Blair 2 Hall</u> (17) Date/Time <u>4-2-96</u></p> <p>1 Relinquished By (Sign and PRINT) <u>Blair 2 Hall</u> (18) Date/Time <u>4-2-96</u></p> <p>1 Relinquished By (Sign and PRINT) <u>Blair 2 Hall</u> (19) Date/Time <u>4-2-96</u></p>		<p>(32) Seal Date Consistent with this Record? ☒ Yes ☐ No</p> <p>Cask Seal No. ☒ Yes ☐ No</p> <p>Sample No. ☒ Yes ☐ No</p>	

WHC-SD-WM-DP-184, REV. 1

PHOTOGRAPHS

WHC-SD-WM-DP-184, REV. 1

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U-107 Core 135 Segment 1

4-15-96

U-107 Core 135 Segment 1R

4-16-96

U-107 Core 135 Segment 2

4-8-96

U-101 Core 135 Segment 2A

4-16-96

U-107 Core 135 Segment 2R

4-8-96

U-10-7 Core 129 Segment 1R 2-13-96

U-107 Core 129 Segment #1

2/13/96

U-107 Core 129 Segment #2 2/13/96

U-107 Core 129 Segment 2R

2-13-96

U-107 Core 129 Segment #3

2/13/96

U-107 Core 129 Segment #3R

2/20/96

U-1C-7 Core 134 Segment #1

J-2396

U-10.7 Core 134 Segment #2

3-23-96

41-10.7 Core 134 Segment #3

2-27-96

U-107 Core 134 Segment #4

2-27-96

U-107 Core 134 Segment #5

2-27-96

U-107 Core 134 Segment #5A

2-27-96

U-107 Core 134 Segment #5B

2-27-96

U-107 Core 134 Segment #16

2-27-96

U-107 Core 134 Segment #6A

3-1-96

WHC-SD-WM-DP-184, REV. 1

SAMPLE HANDLING

WHC-SD-WM-DP-184, REV. 1

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LABCORE Data Entry Template for Worklist#

5652

Analyst:

EC

Instrument: BA000

Book #

NA

Method: LO-160-103 Rev/Mod

B-O

Worklist Comment: U-107 C129 SEG #1 RISER 9 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>19.99</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>500.00</u>	<u>N/A</u>	
96000085	U-107	3 SAMPLE	S96T000610	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>210</u>		ml
96000085	U-107	4 SAMPLE	S96T000610	0	DLIQWT01	SOLID	<u>N/A</u>	<u>266.8</u>		g
96000085	U-107	5 SAMPLE	S96T000610	0	EST.G/ML	SOLID	<u>N/A</u>	<u>1.27</u>		g/ml
96000085	U-107	6 SAMPLE	S96T000610	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
96000085	U-107	7 SAMPLE	S96T000610	0	LLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000085	U-107	8 SAMPLE	S96T000610	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>11-1004</u>		
96000085	U-107	9 SAMPLE	S96T000610	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		ml
96000085	U-107	10 SAMPLE	S96T000610	0	SLDWT-01	SOLID	<u>N/A</u>	<u>3.5</u>		g
96000085	U-107	11 SAMPLE	S96T000610	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
96000085	U-107	12 SAMPLE	S96T000610	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist #

5652

Analyst Signature

Date

2-16-96

✓

Analyst Signature

Date

2-16-96

Bernard Griffin II
2-20-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

5653

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod B-0

Worklist Comment: U-107 C129 SEG #2 RISER 9 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>19.99</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>500.00</u>	<u>N/A</u>	
96000085	U-107	3 SAMPLE	S96T000612	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>225</u>		ml
96000085	U-107	4 SAMPLE	S96T000612	0	DLIQWT01	SOLID	<u>N/A</u>	<u>323.5</u>		g
96000085	U-107	5 SAMPLE	S96T000612	0	EST.G/ML	SOLID	<u>N/A</u>	<u>1.21</u>		g/ml
96000085	U-107	6 SAMPLE	S96T000612	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
96000085	U-107	7 SAMPLE	S96T000612	0	LLIQWT01	SOLID	<u>N/A</u>	<u>55</u>		g
96000085	U-107	8 SAMPLE	S96T000612	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1004</u>		
96000085	U-107	9 SAMPLE	S96T000612	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		ml
96000085	U-107	10 SAMPLE	S96T000612	0	SLDWT-01	SOLID	<u>N/A</u>	<u>112.3</u>		g
96000085	U-107	11 SAMPLE	S96T000612	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
96000085	U-107	12 SAMPLE	S96T000612	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist #

5653

Analyst Signature

Date

Analyst Signature

Date

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

5654

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod B-0

Worklist Comment: U-107 C129 SEG #3 RISER 9 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>20.00</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>500.01</u>	<u>N/A</u>	
96000085	U-107	3 SAMPLE	S96T000614	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		ml
96000085	U-107	4 SAMPLE	S96T000614	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000085	U-107	5 SAMPLE	S96T000614	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/ml
96000085	U-107	6 SAMPLE	S96T000614	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
96000085	U-107	7 SAMPLE	S96T000614	0	LLIQWT01	SOLID	<u>N/A</u>	<u><10</u>		g
96000085	U-107	8 SAMPLE	S96T000614	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1004</u>		
96000085	U-107	9 SAMPLE	S96T000614	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		ml
96000085	U-107	10 SAMPLE	S96T000614	0	SLDWT-01	SOLID	<u>N/A</u>	<u>374.0</u>		g
96000085	U-107	11 SAMPLE	S96T000614	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
96000085	U-107	12 SAMPLE	S96T000614	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist #

5654

Analyst Signature EC Date 2-16-96

Analyst Signature EC Date 2-16-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

5655

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod B-O

Worklist Comment: U-107 C129 SEG # 1R RISER 9 EXTRUSION

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	<u>20</u>	<u>17.99</u>	<u>N/A</u>	
		2	INSTCHK02				EXTRUD01	SOLID	<u>500</u>	<u>500.00</u>	<u>N/A</u>	
96000085	U-107	3	SAMPLE	S96T000611	0		DLIQVOL1	SOLID	<u>N/A</u>	<u>O</u>		ml
96000085	U-107	4	SAMPLE	S96T000611	0		DLIQWT01	SOLID	<u>N/A</u>	<u>O</u>		g
96000085	U-107	5	SAMPLE	S96T000611	0		EST.G/ML	SOLID	<u>N/A</u>	<u>O</u>		g/ml
96000085	U-107	6	SAMPLE	S96T000611	0		EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
96000085	U-107	7	SAMPLE	S96T000611	0		LLIQWT01	SOLID	<u>N/A</u>	<u>O</u>		g
96000085	U-107	8	SAMPLE	S96T000611	0		NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1004</u>		
96000085	U-107	9	SAMPLE	S96T000611	0		SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		ml
96000085	U-107	10	SAMPLE	S96T000611	0		SLDWT-01	SOLID	<u>N/A</u>	<u>O</u>		g
96000085	U-107	11	SAMPLE	S96T000611	0		APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
96000085	U-107	12	SAMPLE	S96T000611	0		ORGVOL01	SOLID	<u>N/A</u>	<u>O</u>		ml

Final page for worklist #

5655

EC 2-16-96
Analyst Signature Date

Bernard D. Griffin II
2-20-96

✓ EC 2-16-96
Analyst Signature Date

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

5656

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod D-O

Worklist Comment: U-107 C129 SEG # 2R RISER 9 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>19.99</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>500.01</u>	<u>N/A</u>	
96000085	U-107	3 SAMPLE	S96T000613	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		mL
96000085	U-107	4 SAMPLE	S96T000613	0	DLQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000085	U-107	5 SAMPLE	S96T000613	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
96000085	U-107	6 SAMPLE	S96T000613	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
96000085	U-107	7 SAMPLE	S96T000613	0	LLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000085	U-107	8 SAMPLE	S96T000613	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1004</u>		
96000085	U-107	9 SAMPLE	S96T000613	0	SLDVOL01	SOLID	<u>N/A</u>	<u>N/A</u>		mL
96000085	U-107	10 SAMPLE	S96T000613	0	SLDWT-01	SOLID	<u>N/A</u>	<u>0</u>		g
96000085	U-107	11 SAMPLE	S96T000613	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
96000085	U-107	12 SAMPLE	S96T000613	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist #

5656

Analyst Signature

Date

Analyst Signature

Date

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

5800

Analyst: EE Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod B-O

Worklist Comment: U-107 C129 SEG # 3R RISER 9 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>20.00</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>500.01</u>	<u>N/A</u>	
96000085	U-107	3 SAMPLE	S96T000694	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		ml
96000085	U-107	4 SAMPLE	S96T000694	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000085	U-107	5 SAMPLE	S96T000694	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/ml
96000085	U-107	6 SAMPLE	S96T000694	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
96000085	U-107	7 SAMPLE	S96T000694	0	LLIQWT01	SOLID	<u>N/A</u>	<u><5</u>		g
96000085	U-107	8 SAMPLE	S96T000694	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>11-1004</u>		
96000085	U-107	9 SAMPLE	S96T000694	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		ml
96000085	U-107	10 SAMPLE	S96T000694	0	SLDWT-01	SOLID	<u>N/A</u>	<u>163.2</u>		g
96000085	U-107	11 SAMPLE	S96T000694	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
96000085	U-107	12 SAMPLE	S96T000694	0	ORGVO-01	SOLID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist #

5800

EE 2-20-96
Analyst Signature Date

EE 2-20-96
Analyst Signature Date

Bertrand Buffin II
2-20-96

Data Entry Comments:

WHC-SD-WM-DP-184, REV. |
LABCORE Data Entry Template for Worklist#

5854

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod B-0

Worklist Comment: U-107 C134 SEG # 1 RISER 7 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01		EXTRUD01	SOLID	<u>20</u>	<u>19.99</u>	<u>N/A</u>	
		2	INSTCHK02		EXTRUD01	SOLID	<u>500</u>	<u>500.01</u>	<u>N/A</u>	
96000085	U-107	3	SAMPLE	S96T000775	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>6</u>	ml
96000085	U-107	4	SAMPLE	S96T000775	0	DLIQWT01	SOLID	<u>N/A</u>	<u>P</u>	g
96000085	U-107	5	SAMPLE	S96T000775	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>	g/ml
96000085	U-107	6	SAMPLE	S96T000775	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>	
96000085	U-107	7	SAMPLE	S96T000775	0	LLIQWT01	SOLID	<u>N/A</u>	<u>0</u>	g
96000085	U-107	8	SAMPLE	S96T000775	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-604</u>	
96000085	U-107	9	SAMPLE	S96T000775	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>	ml
96000085	U-107	10	SAMPLE	S96T000775	0	SLDWT-01	SOLID	<u>N/A</u>	<u>0</u>	g
96000085	U-107	11	SAMPLE	S96T000775	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>	
96000085	U-107	12	SAMPLE	S96T000775	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>	ml

Final page for worklist # **5854**

EC 2-26-96
Analyst Signature Date

EC 2-26-96
Analyst Signature Date

Reviewed by [Signature] 2-27-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

5857

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod B-O

Worklist Comment: U-107 C134 SEG # 2 RISER 7 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>19.99</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>500.01</u>	<u>N/A</u>	
96000085	U-107	3 SAMPLE	S96T000778	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		ml
96000085	U-107	4 SAMPLE	S96T000778	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000085	U-107	5 SAMPLE	S96T000778	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/ml
96000085	U-107	6 SAMPLE	S96T000778	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
96000085	U-107	7 SAMPLE	S96T000778	0	LLIQWT01	SOLID	<u>N/A</u>	<u>25</u>		g
96000085	U-107	8 SAMPLE	S96T000778	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1004</u>		
96000085	U-107	9 SAMPLE	S96T000778	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		ml
96000085	U-107	10 SAMPLE	S96T000778	0	SLDWT-01	SOLID	<u>N/A</u>	<u>249.2</u>		g
96000085	U-107	11 SAMPLE	S96T000778	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
96000085	U-107	12 SAMPLE	S96T000778	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist #

5857

Analyst Signature

Date

Analyst Signature

Date

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

5861

Analyst:

Instrument: BA000

Book #

Method: LO-160-103 Rev/Mod

Worklist Comment: U-107 C134 SEG # 4 RISER 7 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	20	20.00	N/A	
		2 INSTCHK02			EXTRUD01	SOLID	500	500.00	N/A	
96000085	U-107	3 SAMPLE	S96T000781	0	DLIQVOL1	SOLID	N/A	0		ml
96000085	U-107	4 SAMPLE	S96T000781	0	DLIQWT01	SOLID	N/A	0		g
96000085	U-107	5 SAMPLE	S96T000781	0	EST.G/ML	SOLID	N/A	0		g/ml
96000085	U-107	6 SAMPLE	S96T000781	0	EXTRUD01	SOLID	N/A	complete		
96000085	U-107	7 SAMPLE	S96T000781	0	LLIQWT01	SOLID	N/A	0		g
96000085	U-107	8 SAMPLE	S96T000781	0	NOTEBOOK	SOLID	N/A	N-1004		
96000085	U-107	9 SAMPLE	S96T000781	0	SLDVOL01	SOLID	N/A	NA		ml
96000085	U-107	10 SAMPLE	S96T000781	0	SLDWT-01	SOLID	N/A	359.0		g
96000085	U-107	11 SAMPLE	S96T000781	0	APPEAR01	SOLID	N/A	complete		
96000085	U-107	12 SAMPLE	S96T000781	0	ORGVOL01	SOLID	N/A	0		ml

Final page for worklist #

5861

Analyst Signature

Date

2-27-96

Analyst Signature

Date

2-27-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

5863

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod B-0

Worklist Comment: U-107 C134 SEG # 5 RISER 7 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>20.01</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>500.00</u>	<u>N/A</u>	
96000085	U-107	3 SAMPLE	S96T000782	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		ml
96000085	U-107	4 SAMPLE	S96T000782	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000085	U-107	5 SAMPLE	S96T000782	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/ml
96000085	U-107	6 SAMPLE	S96T000782	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
96000085	U-107	7 SAMPLE	S96T000782	0	LLIQWT01	SOLID	<u>N/A</u>	<u><10</u>		g
96000085	U-107	8 SAMPLE	S96T000782	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1004</u>		
96000085	U-107	9 SAMPLE	S96T000782	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		ml
96000085	U-107	10 SAMPLE	S96T000782	0	SLDWT-01	SOLID	<u>N/A</u>	<u>109.5</u>		g
96000085	U-107	11 SAMPLE	S96T000782	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
96000085	U-107	12 SAMPLE	S96T000782	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist #

5863

EC 2-27-96
Analyst Signature Date

EC 2-27-96
Analyst Signature Date

Reviewed by
Gordon Giff
2-28-96

Data Entry Comments:

LABCORE Data Entry Template for Worklist#

5865

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod B-O

Worklist Comment: U-107 C134 SEG # 5A RISER 7 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>20.00</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>500.00</u>	<u>N/A</u>	
96000085	U-107	3 SAMPLE	S96T000783	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		ml
96000085	U-107	4 SAMPLE	S96T000783	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000085	U-107	5 SAMPLE	S96T000783	0	EST. G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/ml
96000085	U-107	6 SAMPLE	S96T000783	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
96000085	U-107	7 SAMPLE	S96T000783	0	LLIQWT01	SOLID	<u>N/A</u>	<u>50</u>		g
96000085	U-107	8 SAMPLE	S96T000783	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1004</u>		
96000085	U-107	9 SAMPLE	S96T000783	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		ml
96000085	U-107	10 SAMPLE	S96T000783	0	SLDWT-01	SOLID	<u>N/A</u>	<u>19.4</u>		g
96000085	U-107	11 SAMPLE	S96T000783	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
96000085	U-107	12 SAMPLE	S96T000783	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist #

5865

EC 2-28-96
Analyst Signature Date

EC 2-28-96
Analyst Signature Date

Reviewed by
Bentham
2-28-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

5866

Analyst:

Instrument: BA000

Book # NA

Method: LO-160-103 Rev/Mod

Worklist Comment: U-107 C134 SEG # 5B RISER 7 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01		EXTRUD01	SOLID	20	20.00	N/A	
		2	INSTCHK02		EXTRUD01	SOLID	500	500.01	N/A	
96000126	U-107	3	SAMPLE	S96T000784	0	DLIQVOL1	N/A	70		ml
96000126	U-107	4	SAMPLE	S96T000784	0	DLIQWT01	N/A	106.3		g
96000126	U-107	5	SAMPLE	S96T000784	0	EST.G/ML	N/A	1.51		g/ml
96000126	U-107	6	SAMPLE	S96T000784	0	EXTRUD01	N/A	complete		
96000126	U-107	7	SAMPLE	S96T000784	0	LLIQWT01	N/A	<5		g
96000126	U-107	8	SAMPLE	S96T000784	0	NOTEBOOK	N/A	N-1004		
96000126	U-107	9	SAMPLE	S96T000784	0	SLDVOL01	N/A	NA		ml
96000126	U-107	10	SAMPLE	S96T000784	0	SLDWT-01	N/A	0		g
96000126	U-107	11	SAMPLE	S96T000784	0	APPEAR01	N/A	complete		
96000126	U-107	12	SAMPLE	S96T000784	0	ORGVOL01	N/A	0		ml

Final page for worklist #

5866

Analyst Signature

Date

Analyst Signature

Date

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

5867

Analyst: CC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod B-O

Worklist Comment: U-107 C134 SEG # 6 RISER 7 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>20.01</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>500.01</u>	<u>N/A</u>	
96000126	U-107	3 SAMPLE	S96T000785	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		ml
96000126	U-107	4 SAMPLE	S96T000785	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000126	U-107	5 SAMPLE	S96T000785	0	EST. G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/ml
96000126	U-107	6 SAMPLE	S96T000785	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
96000126	U-107	7 SAMPLE	S96T000785	0	LLIQWT01	SOLID	<u>N/A</u>	<u>25</u>		g
96000126	U-107	8 SAMPLE	S96T000785	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1004</u>		
96000126	U-107	9 SAMPLE	S96T000785	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		ml
96000126	U-107	10 SAMPLE	S96T000785	0	SLDWT-01	SOLID	<u>N/A</u>	<u>0</u>		g
96000126	U-107	11 SAMPLE	S96T000785	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
96000126	U-107	12 SAMPLE	S96T000785	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist #

5867

ESL 2-28-96
Analyst Signature Date

ESL 2-28-96
Analyst Signature Date

Reviewed by
Bertrand Luff - II
2-28-96

Data Entry Comments:

LABCORE Data Entry Template for Worklist#

6049

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod B-0

Worklist Comment: U-107 C134 SEG # 6A RISER 7 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>20.00</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>500.01</u>	<u>N/A</u>	
96000126	U-107	3 SAMPLE	S96T000924	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>70</u>		ml
96000126	U-107	4 SAMPLE	S96T000924	0	DLIQWT01	SOLID	<u>N/A</u>	<u>89.6</u>		g
96000126	U-107	5 SAMPLE	S96T000924	0	EST.G/ML	SOLID	<u>N/A</u>	<u>1.28</u>		g/ml
96000126	U-107	6 SAMPLE	S96T000924	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
96000126	U-107	7 SAMPLE	S96T000924	0	LLIQWT01	SOLID	<u>N/A</u>	<u>16.8</u>		g
96000126	U-107	8 SAMPLE	S96T000924	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1004</u>		
96000126	U-107	9 SAMPLE	S96T000924	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		ml
96000126	U-107	10 SAMPLE	S96T000924	0	SLDWT-01	SOLID	<u>N/A</u>	<u>29.3.</u>		g
96000126	U-107	11 SAMPLE	S96T000924	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
96000126	U-107	12 SAMPLE	S96T000924	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist #

6049

EC 3-4-96
Analyst Signature Date

EC 3-4-96
Analyst Signature Date

Reviewed by
Berkman
3-4-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

7293

Analyst: CE Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod 80

Worklist Comment: U-107 C135 SEG # 1 RISER 2 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>20.00</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>500.03</u>	<u>N/A</u>	
96000422	U-107	3 SAMPLE	S96T001667	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>50</u>		mL
96000422	U-107	4 SAMPLE	S96T001667	0	DLIQWT01	SOLID	<u>N/A</u>	<u>94.1</u>		g
96000422	U-107	5 SAMPLE	S96T001667	0	EST.G/ML	SOLID	<u>N/A</u>	<u>1.88</u>		g/mL
96000422	U-107	6 SAMPLE	S96T001667	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
96000422	U-107	7 SAMPLE	S96T001667	0	LLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000422	U-107	8 SAMPLE	S96T001667	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1004</u>		
96000422	U-107	9 SAMPLE	S96T001667	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		mL
96000422	U-107	10 SAMPLE	S96T001667	0	SLDWT-01	SOLID	<u>N/A</u>	<u>1.4</u>		g
96000422	U-107	11 SAMPLE	S96T001667	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
96000422	U-107	12 SAMPLE	S96T001667	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist #

7293

Analyst Signature CE Date 4-18-96

Analyst Signature CE Date 4-18-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

7296

Analyst: CC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod BO

Worklist Comment: U-107 C135 SEG # 1R RISER 2 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>20.00</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>506</u>	<u>500.03</u>	<u>N/A</u>	
96000422	U-107	3 SAMPLE	S96T001668	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>250</u>		ml
96000422	U-107	4 SAMPLE	S96T001668	0	DLIQWT01	SOLID	<u>N/A</u>	<u>342.6</u>		g
96000422	U-107	5 SAMPLE	S96T001668	0	EST.G/ML	SOLID	<u>N/A</u>	<u>1.37</u>		g/ml
96000422	U-107	6 SAMPLE	S96T001668	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
96000422	U-107	7 SAMPLE	S96T001668	0	LLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000422	U-107	8 SAMPLE	S96T001668	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1004</u>		
96000422	U-107	9 SAMPLE	S96T001668	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		ml
96000422	U-107	10 SAMPLE	S96T001668	0	SLDWT-01	SOLID	<u>N/A</u>	<u>4.0</u>		g
96000422	U-107	11 SAMPLE	S96T001668	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
96000422	U-107	12 SAMPLE	S96T001668	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist #

7296

Analyst Signature CC Date 4-28-96

Analyst Signature CC Date 4-28-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WHC-SD-WM-DP-184, REV. I
LABCORE Data Entry Template for Worklist#

7297

Analyst: EL Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod B0

Worklist Comment: U-107 C135 SEG # 2 RISER 2 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>20.00</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>500.00</u>	<u>N/A</u>	
96000422	U-107	3 SAMPLE	S96T001669	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		ml
96000422	U-107	4 SAMPLE	S96T001669	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000422	U-107	5 SAMPLE	S96T001669	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/ml
96000422	U-107	6 SAMPLE	S96T001669	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
96000422	U-107	7 SAMPLE	S96T001669	0	LLIQWT01	SOLID	<u>N/A</u>	<u>30.1</u>		g
96000422	U-107	8 SAMPLE	S96T001669	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1004</u>		
96000422	U-107	9 SAMPLE	S96T001669	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		ml
96000422	U-107	10 SAMPLE	S96T001669	0	SLDWT-01	SOLID	<u>N/A</u>	<u>2.6</u>		g
96000422	U-107	11 SAMPLE	S96T001669	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
96000422	U-107	12 SAMPLE	S96T001669	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist #

7297

EL 4-9-96
Analyst Signature Date

EL 4-9-96
Analyst Signature Date

Bethany Giff II
4-9-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

7299

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod BO

Worklist Comment: U-107 C135 SEG # 2A RISER 2 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>20.00</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>500.03</u>	<u>N/A</u>	
96000422	U-107	3 SAMPLE	S96T001670	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>25</u>		mL
96000422	U-107	4 SAMPLE	S96T001670	0	DLIQWT01	SOLID	<u>N/A</u>	<u>41.5</u>		g
96000422	U-107	5 SAMPLE	S96T001670	0	EST.G/ML	SOLID	<u>N/A</u>	<u>1.66</u>		g/mL
96000422	U-107	6 SAMPLE	S96T001670	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
96000422	U-107	7 SAMPLE	S96T001670	0	LLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000422	U-107	8 SAMPLE	S96T001670	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1004</u>		
96000422	U-107	9 SAMPLE	S96T001670	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		mL
96000422	U-107	10 SAMPLE	S96T001670	0	SLDWT-01	SOLID	<u>N/A</u>	<u>58.7</u>		g
96000422	U-107	11 SAMPLE	S96T001670	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
96000422	U-107	12 SAMPLE	S96T001670	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist #

7299

Analyst Signature Date

Analyst Signature Date

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

7308

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod BO

Worklist Comment: U-107 C135 SEG # 2R RISER 2 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>20.01</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>500.01</u>	<u>N/A</u>	
96000422	U-107	3 SAMPLE	S96T001692	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		ml
96000422	U-107	4 SAMPLE	S96T001692	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000422	U-107	5 SAMPLE	S96T001692	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/ml
96000422	U-107	6 SAMPLE	S96T001692	0	EXTRUD01	SOLID	<u>N/A</u>	<u>Complete</u>		
96000422	U-107	7 SAMPLE	S96T001692	0	LLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
96000422	U-107	8 SAMPLE	S96T001692	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1004</u>		
96000422	U-107	9 SAMPLE	S96T001692	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		ml
96000422	U-107	10 SAMPLE	S96T001692	0	SLDWT-01	SOLID	<u>N/A</u>	<u>227.6</u>		g
96000422	U-107	11 SAMPLE	S96T001692	0	APPEAR01	SOLID	<u>N/A</u>	<u>Complete</u>		
96000422	U-107	12 SAMPLE	S96T001692	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist #

7308

Analyst Signature EC Date 4-9-96

Analyst Signature EC Date 4-9-96

Bertrand Griffin II
4-9-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

6276

Analyst: QAM Instrument: NONE Book # _____

Method: LA-504-101 Rev/Mod E-0

Worklist Comment: TK#U-107,CORE 129, SEG 1DL,2DL,(DRAINABLE LIQUID)

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
96000085	U-107	1 SAMPLE	S96T000665	0	FILTER02	LIQUID	N/A	COMPLETE		
96000085	U-107	2 SAMPLE	S96T000665	0	DOSE-02	LIQUID	N/A	1450		mrad/hour
96000085	U-107	3 SAMPLE	S96T000682	0	FILTER02	LIQUID	N/A	COMPLETE		
96000085	U-107	4 SAMPLE	S96T000682	0	DOSE-02	LIQUID	N/A	400		mrad/hour

Final page for worklist #

6276

Analyst Signature QAM Date 3-13-96

Analyst Signature PK Fuller Date 3/14/96

S96T000637 → S96T000665
641 → 682

Reviewed by PK Fuller 3/18/96

Data Entry Comments: HPT is Judy Morales

LABCORE Data Entry Template for Worklist#

6277

Analyst: JAM Instrument: NONE Book # _____

Method: LA-504-101 Rev/Mod E-O

Worklist Comment: TK#U-107,CORE C134,SEG 5A LL,5B DL,6A LL,6A DL, FILTERO2 RTS

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
96000126	U-107	1 SAMPLE	S96T001110	0	FILTERO2	LIQUID	N/A	<u>DONE</u>		
96000126	U-107	2 SAMPLE	S96T001110	0	DOSE-02	LIQUID	N/A	<u>15</u>		mrad/hour
96000126	U-107	3 SAMPLE	S96T001119	0	FILTERO2	LIQUID	N/A	<u>DONE</u>		
96000126	U-107	4 SAMPLE	S96T001119	0	DOSE-02	LIQUID	N/A	<u>1750</u>		mrad/hour
96000126	U-107	5 SAMPLE	S96T001120	0	FILTERO2	LIQUID	N/A	<u>DONE</u>		
96000126	U-107	6 SAMPLE	S96T001120	0	DOSE-02	LIQUID	N/A	<u>100</u>		mrad/hour
96000126	U-107	7 SAMPLE	S96T001121	0	FILTERO2	LIQUID	N/A	<u>DONE</u>		
96000126	U-107	8 SAMPLE	S96T001121	0	DOSE-02	LIQUID	N/A	<u>115</u>		mrad/hour

Final page for worklist #

6277

JAM 4-10-96
Analyst Signature Date

Keith Fuller 4/10/96
Analyst Signature Date

596T000 ¹¹⁰⁶ → 596T0001110 (4)
1107 → 1119 (14)
1108 → 1120 (4)
1109 → 1121 (4) *RLH*

Reviewed by RK Fuller
4/10/96

Data Entry Comments:

LABCORE Data Entry Template for Worklist#

8846

Analyst: QJM **Instrument:** H2O01 **Book #** _____

Method: LA-504-101 Rev/Mod E-D

Worklist Comment: U-107 C135 SEG.2 FILTER02 SKB

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
96000422	U-107	1 SAMPLE	S96T001866	0	FILTER02	LIQUID	N/A	<u>complete</u>		
96000422	U-107	2 SAMPLE	S96T001866	0	DOSE-02	LIQUID	N/A	<u>25</u>		mrad/hour

Final page for worklist #

8846

QJM 5-17-96
Analyst Signature **Date**

Susan Bu 5/17/96
Analyst Signature **Date**

S96T001865 → S96T001866

Data Entry Comments:

Reviewed by RK Field
5/17/96

WHC-SD-WM-DP-184, REV. 1

SAMPLE PREPARATIONS

WHC-SD-WM-DP-184, REV. 1

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LABCORE Data Entry Template for Worklist#

5882

Analyst: JKM Instrument: FUS01 SN355 Book # _____

Method: LA-549-141 Rev/Mod E-D

Worklist Comment: U-107 Core 129 Seg 1sc,2U,2L Fusion Digestion rkf

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>1</u>	<u>.250</u>	N/A	g/L
96000085	U-107	2 SAMPLE	S96T000684 0 F		FUSION01	SOLID	N/A	<u>1.8776</u>		g/L
		-46.94g → .250g								
96000085	U-107	3 SAMPLE	S96T000684 0		DOSE-02	SOLID	N/A	<u>4</u>		mrad/hour
96000085	U-107	4 DUP	S96T000684 0 F		FUSION01	SOLID	<u>1.8776</u>	<u>1.9380</u>	N/A	g/L
		-48.45g → .250g								
96000085	U-107	5 DUP	S96T000684 0		DOSE-02	SOLID	<u>4</u>	<u>5</u>	N/A	mrad/hour
96000085	U-107	6 SAMPLE	S96T000686 0 F		FUSION01	SOLID	N/A	<u>1.9164</u>		g/L
		-44.16g → .250g								
96000085	U-107	7 SAMPLE	S96T000686 0		DOSE-02	SOLID	N/A	<u>10</u>		mrad/hour
96000085	U-107	8 DUP	S96T000686 0 F		FUSION01	SOLID	<u>1.9164</u>	<u>2.1512</u>	N/A	g/L
		-53.78g → .250g								
96000085	U-107	9 DUP	S96T000686 0		DOSE-02	SOLID	<u>10</u>	<u>10</u>	N/A	mrad/hour
96000085	U-107	10 SAMPLE	S96T000687 0 F		FUSION01	SOLID	N/A	<u>1.8816</u>		g/L
		-47.04g → .250g								
96000085	U-107	11 SAMPLE	S96T000687 0		DOSE-02	SOLID	N/A	<u>5</u>		mrad/hour
96000085	U-107	12 DUP	S96T000687 0 F		FUSION01	SOLID	<u>1.8816</u>	<u>2.0716</u>	N/A	g/L
		-51.79g → .250g								
96000085	U-107	13 DUP	S96T000687 0		DOSE-02	SOLID	<u>5</u>	<u>6</u>	N/A	mrad/hour

Final page for worklist #

5882

Analyst Signature JKM Date 3-5-96

Analyst Signature RTH Date 3/6/96

S96T000683 → 684
644 → 686
647 → 687.

Reviewed by RK Felle
3/6/96

Data Entry Comments: 40ml HNDs < 1070 solids - All samples OK
HPT was Scott Corbally

LABCORE Data Entry Template for Worklist#

5883

Analyst: AM Instrument: FUS01 SN16355 Book # _____

Method: LA-549-141 Rev/Mod E-0

Worklist Comment: U-107 Core 129 Seg 3U,3L Fusion Digestion rkf

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>1</u>	<u>.250</u>	N/A	g/L
96000085	U-107	2 SAMPLE	S96T000688 0 F		FUSION01	SOLID	N/A	<u>1.9532</u>		g/L
96000085	U-107	3 SAMPLE	S96T000688 0		DOSE-02	SOLID	N/A	<u>4.5</u>		mrad/hour
96000085	U-107	4 DUP	S96T000688 0 F		FUSION01	SOLID	<u>1.9532</u>	<u>1.8716</u>	N/A	g/L
96000085	U-107	5 DUP	S96T000688 0		DOSE-02	SOLID	<u>4.5</u>	<u>4</u>	N/A	mrad/hour
96000085	U-107	6 SAMPLE	S96T000689 0 F		FUSION01	SOLID	N/A	<u>1.9072</u>		g/L
96000085	U-107	7 SAMPLE	S96T000689 0		DOSE-02	SOLID	N/A	<u>3.5</u>		mrad/hour
96000085	U-107	8 DUP	S96T000689 0 F		FUSION01	SOLID	<u>1.9072</u>	<u>1.9752</u>	N/A	g/L
96000085	U-107	9 DUP	S96T000689 0		DOSE-02	SOLID	<u>3.5</u>	<u>3.5</u>	N/A	mrad/hour

Final page for worklist #

5883

Analyst Signature AM Date _____

Analyst Signature PK Fuller Date 3-6-96

650 → 688

653 → 689

Reviewed by PK Fuller
3/6/96

Data Entry Comments:

40me HNDs, <19000000s - All samples & QC
HP7 - Scott Corbally

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

6417

Analyst: QAMInstrument: FUS01 SN16355

Book # _____

Method: LA-549-141 Rev/Mod E-O

Worklist Comment: TK#U-107,CORE 134,GRP# 126,SEG 2,3,4L, FUSION RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>1</u>	<u>.250</u>	N/A	g/L
96000126	U-107	2 SAMPLE	S96T001089 0 F		FUSION01	SOLID	N/A	<u>1.6932</u>		g/L
		<u>0.4233g</u> → <u>.2500</u>								
96000126	U-107	3 SAMPLE	S96T001089 0		DOSE-02	SOLID	N/A	<u>4</u>		mrad/hour
96000126	U-107	4 DUP	S96T001089 0 F		FUSION01	SOLID	<u>1.6932</u>	<u>1.8636</u>	N/A	g/L
		<u>0.4659g</u> → <u>.2500</u>								
96000126	U-107	5 DUP	S96T001089 0		DOSE-02	SOLID	<u>4</u>	<u>5</u>	N/A	mrad/hour
96000126	U-107	6 SAMPLE	S96T001090 0 F		FUSION01	SOLID	N/A	<u>2.2432</u>		g/L
		<u>0.5733g</u> → <u>.2500</u>								
96000126	U-107	7 SAMPLE	S96T001090 0		DOSE-02	SOLID	N/A	<u>12</u>		mrad/hour
96000126	U-107	8 DUP	S96T001090 0 F		FUSION01	SOLID	<u>2.2432</u>	<u>2.2516</u>	N/A	g/L
		<u>0.5579g</u> → <u>.2500</u>								
96000126	U-107	9 DUP	S96T001090 0		DOSE-02	SOLID	<u>12</u>	<u>12</u>	N/A	mrad/hour
96000126	U-107	10 SAMPLE	S96T001091 0 F		FUSION01	SOLID	N/A	<u>1.7412</u>		g/L
		<u>0.4353g</u> → <u>.2500</u>								
96000126	U-107	11 SAMPLE	S96T001091 0		DOSE-02	SOLID	N/A	<u>25</u>		mrad/hour
96000126	U-107	12 DUP	S96T001091 0 F		FUSION01	SOLID	<u>1.7412</u>	<u>1.6344</u>	N/A	g/L
		<u>0.4086g</u> → <u>.2500</u>								
96000126	U-107	13 DUP	S96T001091 0		DOSE-02	SOLID	<u>25</u>	<u>25</u>	N/A	mrad/hour

Final page for worklist #

6417

Analyst Signature QAMurphy Date 3-29-96Analyst Signature Suew Bee Date 4/8/96

S96T001055 → S96T001089 ⁸⁹ N/A
 1056 → 1090
 1057 → 1091

Reviewed by PK Fulk
4/8/96

Data Entry Comments:

All samples & QC - 40ml H₂O₂, <10% solids
 HPT - Scott Corbally

LABCORE Data Entry Template for Worklist#

6418

Analyst:

QAM

Instrument:

FUS01 *S96T001064*

Book #

Method: LA-549-141 Rev/Mod

E-0

Worklist Comment: TK#U-107,CORE 134,GRP# 126,SEG 4A,4B,5B,FUSION RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<i>1</i>	<i>.250</i>	<i>N/A</i>	g/L
96000126	U-107	2 SAMPLE <i>0.4648g</i>	S96T001092	<i>0 F</i>	FUSION01	SOLID	<i>N/A</i>	<i>1.8592</i>		g/L
96000126	U-107	3 SAMPLE <i>→ .250</i>	S96T001092	<i>0</i>	DOSE-02	SOLID	<i>N/A</i>	<i>16</i>		mrad/hour
96000126	U-107	4 DUP <i>0.4272g</i>	S96T001092	<i>0 F</i>	FUSION01	SOLID	<i>1.8592</i>	<i>1.7088</i>	<i>N/A</i>	g/L
96000126	U-107	5 DUP <i>→ .250</i>	S96T001092	<i>0</i>	DOSE-02	SOLID	<i>16</i>	<i>16</i>	<i>N/A</i>	mrad/hour
96000126	U-107	6 SAMPLE <i>0.4431g</i>	S96T001093	<i>0 F</i>	FUSION01	SOLID	<i>N/A</i>	<i>1.7724</i>		g/L
96000126	U-107	7 SAMPLE <i>→ .250</i>	S96T001093	<i>0</i>	DOSE-02	SOLID	<i>N/A</i>	<i>17</i>		mrad/hour
96000126	U-107	8 DUP <i>0.4660g</i>	S96T001093	<i>0 F</i>	FUSION01	SOLID	<i>1.7724</i>	<i>1.8650</i>	<i>N/A</i>	g/L
96000126	U-107	9 DUP <i>→ .250</i>	S96T001093	<i>0</i>	DOSE-02	SOLID	<i>17</i>	<i>19</i>	<i>N/A</i>	mrad/hour
96000126	U-107	10 SAMPLE <i>0.4513g</i>	S96T001094	<i>0 F</i>	FUSION01	SOLID	<i>N/A</i>	<i>1.8052</i>		g/L
96000126	U-107	11 SAMPLE <i>→ .250</i>	S96T001094	<i>0</i>	DOSE-02	SOLID	<i>N/A</i>	<i>45</i>		mrad/hour
96000126	U-107	12 DUP <i>0.4860g</i>	S96T001094	<i>0 F</i>	FUSION01	SOLID	<i>1.8052</i>	<i>1.9490</i>	<i>N/A</i>	g/L
96000126	U-107	13 DUP <i>→ .250</i>	S96T001094	<i>0</i>	DOSE-02	SOLID	<i>45</i>	<i>45</i>	<i>N/A</i>	mrad/hour

Final page for worklist #

6418

QAM *3-29-96*
Analyst Signature Date

James Be *4/08/96*
Analyst Signature Date

Data Entry Comments:

S96T001064 → S96T001092
1063 → 1093
1068
1058 → 1094
AD Samples of GC - 40 ml HNO₃, 5000 counts
HPT Scott Corbally

Reviewed by RK Felt
4/8/96

LABCORE Data Entry Template for Worklist#

6419

Analyst: QAM Instrument: FUS01 200035 Book # _____

Method: LA-549-141 Rev/Mod E-1

Worklist Comment: TK#U-107,CORE 134,GRP# 126,SEG 5U,5A,6A,COMP FUSION RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>1</u>	<u>.250</u>	N/A	g/L
96000126	U-107	2 SAMPLE <u>0.5150g</u>	S96T001095 0 F <u>→ .250g</u>		FUSION01	SOLID	N/A	<u>2.0600</u>		g/L
96000126	U-107	3 SAMPLE	S96T001095 0		DOSE-02	SOLID	N/A	<u>40</u>		mrad/hour
96000126	U-107 (nick)	4 DUP <u>0.4943</u>	S96T001095 0 F <u>→ .250g</u>		FUSION01	SOLID	<u>2.0600</u>	<u>1.8972</u>	N/A	g/L
96000126	U-107	5 DUP	S96T001095 0		DOSE-02	SOLID	<u>40</u>	<u>25</u>	N/A	mrad/hour
96000126	U-107	6 SAMPLE <u>0.4353g</u>	S96T001096 0 F <u>→ .250g</u>		FUSION01	SOLID	N/A	<u>1.7412</u>		g/L
96000126	U-107	7 SAMPLE	S96T001096 0		DOSE-02	SOLID	N/A	<u>15</u>		mrad/hour
96000126	U-107	8 DUP <u>0.4371g</u>	S96T001096 0 F <u>→ .250g</u>		FUSION01	SOLID	<u>1.7412</u>	<u>1.7488</u>	N/A	g/L
96000126	U-107	9 DUP	S96T001096 0		DOSE-02	SOLID	<u>15</u>	<u>15</u>	N/A	mrad/hour
96000126	U-107	10 SAMPLE <u>0.4841g</u>	S96T001097 0 F <u>→ .250g</u>		FUSION01	SOLID	N/A	<u>1.9564</u>		g/L
96000126	U-107	11 SAMPLE	S96T001097 0		DOSE-02	SOLID	N/A	<u>4</u>		mrad/hour
96000126	U-107	12 DUP <u>0.5043g</u>	S96T001097 0 F <u>→ .250g</u>		FUSION01	SOLID	<u>1.9564</u>	<u>2.0372</u>	N/A	g/L
96000126	U-107	13 DUP	S96T001097 0		DOSE-02	SOLID	<u>4</u>	<u>4</u>	N/A	mrad/hour
96000126	U-107	14 SAMPLE <u>0.4820g</u>	S96T001132 0 F <u>→ .250g</u>		FUSION01	SOLID	N/A	<u>1.9280</u>		g/L
96000126	U-107	15 SAMPLE	S96T001132 0		DOSE-02	SOLID	N/A	<u>15</u>		mrad/hour
96000126	U-107	16 DUP <u>0.4294g</u>	S96T001132 0 F <u>→ .250g</u>		FUSION01	SOLID	<u>1.9280</u>	<u>1.7196</u>	N/A	g/L
96000126	U-107	17 DUP	S96T001132 0		DOSE-02	SOLID	<u>15</u>	<u>15</u>	N/A	mrad/hour

S96T001068 → S96T001095 (Shimadzu, rocks, sludge)
1059 → 1096
1070 → 1097
1128 → 1132

Data Entry Comments:

in weight on 3/12/96 RT taken

All samples QC - 10ml HNO₃, <1% solids

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

6419

GROUP PROJECT S TYPE SAMPLE# R A -----TEST----- MATRIX ACTUAL FOUND DL UNIT

Final page for worklist #

6419

[Signature] 3-29-96
Analyst Signature Date

[Signature] 4/08/96 ✓
Analyst Signature Date

Reviewed by RK Fuller 4/8/96 ✓
Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

6535

Analyst:

QAM

Instrument: FUS01

SN16555

Book #

Method: LA-549-141 Rev/Mod

E-0

Worklist Comment: TK#U-107,CORE 129, SEG 3R,COMP FUSION01

RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>1</u>	<u>.250</u>	<u>N/A</u>	g/L
96000085	U-107	2 SAMPLE	S96T001153	0 F	FUSION01	SOLID	<u>N/A</u>	<u>2.2204</u>		g/L
		<u>0.5551g</u> → <u>.2500</u>	S96T001153	0	DOSE-02	SOLID	<u>N/A</u>	<u>6</u>		mrad/hour
96000085	U-107	3 SAMPLE								
96000085	U-107	4 DUP	S96T001153	0 F	FUSION01	SOLID	<u>2.2204</u>	<u>2.1140</u>	<u>N/A</u>	g/L
		<u>0.5285g</u> → <u>.2500</u>	S96T001153	0	DOSE-02	SOLID	<u>6</u>	<u>5</u>	<u>N/A</u>	mrad/hour
96000085	U-107	5 DUP								
96000085	U-107	6 SAMPLE	S96T001162	0 F	FUSION01	SOLID	<u>N/A</u>	<u>2.1712</u>		g/L
		<u>0.5428g</u> → <u>.2500</u>	S96T001162	0	DOSE-02	SOLID	<u>N/A</u>	<u>13</u>		mrad/hour
96000085	U-107	7 SAMPLE								
96000085	U-107	8 DUP	S96T001162	0 F	FUSION01	SOLID	<u>2.1712</u>	<u>2.1548</u>	<u>N/A</u>	g/L
		<u>0.5381g</u> → <u>.2500</u>	S96T001162	0	DOSE-02	SOLID	<u>13</u>	<u>12</u>	<u>N/A</u>	mrad/hour
96000085	U-107	9 DUP								

Final page for worklist #

6535

Analyst Signature

Date

QAM 3-29-96

Analyst Signature

Date

James Bu 4/28/96

S96T001143 → S96T001153

S96T001159 → S96T001162

Reviewed by R K Fulk
4/8/96

Data Entry Comments

All samples & QC - 40ml HNO₃, 10% solids
HPT - Scott Corbally

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8092

Analyst: QAM Instrument: FUS01 Book # _____

Method: LA-549-141 Rev/Mod F-0

Worklist Comment: U-107 C135 2RU QSA,2RU QSB,2A PUSH V FUSION01 SKB

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>1</u>	<u>250</u>	N/A	g/L
96000422	U-107	2 SAMPLE	S96T001879	0 F	FUSION01	SOLID	N/A	<u>2.1728</u>		g/L
			<u>.5432g</u>							
96000422	U-107	3 SAMPLE	S96T001879	0	DOSE-02	SOLID	N/A	<u>5</u>		mrad/hour
96000422	U-107	4 DUP	S96T001879	0 F	FUSION01	SOLID	<u>2.1728</u>	<u>2.1028</u>	N/A	g/L
			<u>.5257g</u>							
96000422	U-107	5 DUP	S96T001879	0	DOSE-02	SOLID	<u>5</u>	<u>5</u>	N/A	mrad/hour
96000422	U-107	6 SAMPLE	S96T001880	0 F	FUSION01	SOLID	N/A	<u>2.2372</u>		g/L
			<u>.5593g</u>							
96000422	U-107	7 SAMPLE	S96T001880	0	DOSE-02	SOLID	N/A	<u>8</u>		mrad/hour
96000422	U-107	8 DUP	S96T001880	0 F	FUSION01	SOLID	<u>2.2372</u>	<u>2.1076</u>	N/A	g/L
			<u>.5296g</u>							
96000422	U-107	9 DUP	S96T001880	0	DOSE-02	SOLID	<u>8</u>	<u>10</u>	N/A	mrad/hour
96000422	U-107	10 SAMPLE	S96T002136	0 F	FUSION01	SOLID	N/A	<u>2.1176</u>		g/L
			<u>.5294g</u>							
96000422	U-107	11 SAMPLE	S96T002136	0	DOSE-02	SOLID	N/A	<u>15</u>		mrad/hour
96000422	U-107	12 DUP	S96T002136	0 F	FUSION01	SOLID	<u>2.1176</u>	<u>2.0240</u>	N/A	g/L
			<u>.5060g</u>							
96000422	U-107	13 DUP	S96T002136	0	DOSE-02	SOLID	<u>15</u>	<u>15</u>	N/A	mrad/hour

Final page for worklist #

8092

QAM 5-13-96
Analyst Signature Date

Susan Bee 5/13/96
Analyst Signature Date

596T001873 → 596T001879
1874 → 1880
2133 → 2136

Data Entry Comments:

2136 Reviewed by DK Fulk
5/14/96

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8102

Analyst:

QAM

Instrument: FUS01

12116325

Book #

Method: LA-549-141 Rev/Mod

F-0

Worklist Comment: U-107 C135 2S,1U,1R FUSION01 SKB

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				FUSION01	SOLID	<u>1</u>	<u>250</u>	N/A	g/L
96000422	U-107	2	SAMPLE	S96T001868	0	F	FUSION01	SOLID	N/A	<u>2000</u>		g/L
96000422	U-107	3	SAMPLE	S96T001868	0		DOSE-02	SOLID	N/A	<u>40</u>		mrad/hour
96000422	U-107	4	DUP	S96T001868	0	F	FUSION01	SOLID	<u>2000</u>	<u>2000</u>	N/A	g/L
96000422	U-107	5	DUP	S96T001868	0		DOSE-02	SOLID	<u>40</u>	<u>35</u>	N/A	mrad/hour
96000422	U-107	6	SAMPLE	S96T002134	0	F	FUSION01	SOLID	N/A	<u>2000</u>		g/L
96000422	U-107	7	SAMPLE	S96T002134	0		DOSE-02	SOLID	N/A	<u>20</u>		mrad/hour
96000422	U-107	8	DUP	S96T002134	0	F	FUSION01	SOLID	<u>2000</u>	<u>1166</u>	N/A	g/L
96000422	U-107	9	DUP	S96T002134	0		DOSE-02	SOLID	<u>20</u>	<u>20</u>	N/A	mrad/hour
96000422	U-107	10	SAMPLE	S96T002135	0	F	FUSION01	SOLID	N/A	<u>2000</u>		g/L
96000422	U-107	11	SAMPLE	S96T002135	0		DOSE-02	SOLID	N/A	<u>15</u>		mrad/hour
96000422	U-107	12	DUP	S96T002135	0	F	FUSION01	SOLID	<u>2000</u>	<u>2000</u>	N/A	g/L
96000422	U-107	13	DUP	S96T002135	0		DOSE-02	SOLID	<u>15</u>	<u>15</u>	N/A	mrad/hour

Final page for worklist #

8102

QAM
Analyst Signature

5-5-96
Date

Suzan Bu
Analyst Signature

5/13/96
Date

596T001868 → 1868

2131 → 2134

2132 → 2135

Reviewed by DK Felle
5/14/96

Data Entry Comments:

S96T002131 - 7.5 - Insufficient sample
40ml con HNO₃ <10% solids

LABCORE Data Entry Template for Worklist#

5885

Analyst: QAM Instrument: FUS01 SN16355 Book # _____

Method: LA-504-101 Rev/Mod E-D

Worklist Comment: U-107 Core 129 Seg 2U,2L Water Digestion rkf

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP				H2ODIG01	SOLID	<u>1</u> <u>.100</u>	N/A	g/L
96000085	U-107	2 SAMPLE	S96T000690	0 W		H2ODIG01	SOLID	<u>N/A</u> <u>5.1330</u>		g/L
		- 5133g → .100								
96000085	U-107	3 SAMPLE	S96T000690	0	DOSE-02	SOLID	<u>N/A</u> <u>8</u>			mrad/hour
96000085	U-107	4 DUP	S96T000690	0 W		H2ODIG01	SOLID	<u>5.1530</u> <u>4.760</u>	N/A	g/L
		- 4765g → .100								
96000085	U-107	5 DUP	S96T000690	0	DOSE-02	SOLID	<u>8</u> <u>7</u>		N/A	mrad/hour
96000085	U-107	6 SAMPLE	S96T000691	0 W		H2ODIG01	SOLID	<u>N/A</u> <u>4.760</u>		g/L
		- 4769g → .100								
96000085	U-107	7 SAMPLE	S96T000691	0	DOSE-02	SOLID	<u>N/A</u> <u>5</u>			mrad/hour
96000085	U-107	8 DUP	S96T000691	0 W		H2ODIG01	SOLID	<u>4.760</u> <u>4.7210</u>	N/A	g/L
		- 4721g → .100								
96000085	U-107	9 DUP	S96T000691	0	DOSE-02	SOLID	<u>5</u> <u>3.5</u>		N/A	mrad/hour

Final page for worklist #

5885

Analyst Signature: QAMurphy Date: 3-5-96

Analyst Signature: PKFalk Date: 3/6/96

644 → 690
647 → 691

Reviewed by PKFalk
3/6/96

Data Entry Comments:

HPT was Scott Corbally

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

5886

Analyst: QAM Instrument: FUS01 SN16355 Book # _____

Method: LA-504-101 Rev/Mod E-0

Worklist Comment: U-107 Core 129 Seg 3U,3L Water Digestion rkf

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2O01G01	SOLID	<u>1</u>	<u>.100</u>	N/A	g/L
96000085	U-107	2 SAMPLE	S96T000692	0 W	H2O01G01	SOLID	N/A	<u>5.4540</u>		g/L
96000085	U-107	3 SAMPLE	S96T000692	0	DOSE-02	SOLID	N/A	<u>3.5</u>		mrads/hour
96000085	U-107	4 DUP	S96T000692	0 W	H2O01G01	SOLID	<u>5.4540</u>	<u>6.3590</u>	N/A	g/L
96000085	U-107	5 DUP	S96T000692	0	DOSE-02	SOLID	<u>3.5</u>	<u>4</u>	N/A	mrads/hour
96000085	U-107	6 SAMPLE	S96T000693	0 W	H2O01G01	SOLID	N/A	<u>5.2500</u>		g/L
96000085	U-107	7 SAMPLE	S96T000693	0	DOSE-02	SOLID	N/A	<u>3.5</u>		mrads/hour
96000085	U-107	8 DUP	S96T000693	0 W	H2O01G01	SOLID	<u>5.2500</u>	<u>5.4300</u>	N/A	g/L
96000085	U-107	9 DUP	S96T000693	0	DOSE-02	SOLID	<u>3.5</u>	<u>3.5</u>	N/A	mrads/hour

Final page for worklist #

5886

QAMurphy 3-5-96
Analyst Signature Date

RLH 3/6/96
Analyst Signature Date

650 → 692
653 → 693

Reviewed by LK Fells
3/6/96

Data Entry Comments:

HPT was Scott Corbally

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

6422

Analyst:

QAM

Instrument:

H2001

596355

Book #

Method: LA-504-101 Rev/Mod

E-D

Worklist Comment: TK#U-107,CORE 134,GRP# 126,SEG 2,3, H2ODIG RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP				H2ODIG01	SOLID	<i>1</i>	<i>.100</i>	<i>N/A</i> g/L
96000126	U-107	2 SAMPLE	S96T001071 0 W			H2ODIG01	SOLID	<i>N/A</i>	<i>5.9880</i>	g/L
		<i>0.5488g → .1000</i>								
96000126	U-107	3 SAMPLE	S96T001071 0			DOSE-02	SOLID	<i>N/A</i>	<i>10</i>	mrad/hour
96000126	U-107	4 DUP	S96T001071 0 W			H2ODIG01	SOLID	<i>5.4880</i>	<i>5.4980</i>	<i>N/A</i> g/L
		<i>0.5498g → .1000</i>								
96000126	U-107	5 DUP	S96T001071 0			DOSE-02	SOLID	<i>10</i>	<i>7.5</i>	<i>N/A</i> mrad/hour
96000126	U-107	6 SAMPLE	S96T001072 0 W			H2ODIG01	SOLID	<i>N/A</i>	<i>1.9050</i>	g/L
		<i>0.4905g → .1000</i>								
96000126	U-107	7 SAMPLE	S96T001072 0			DOSE-02	SOLID	<i>N/A</i>	<i>10</i>	mrad/hour
96000126	U-107	8 DUP	S96T001072 0 W			H2ODIG01	SOLID	<i>4.9050</i>	<i>4.7620</i>	<i>N/A</i> g/L
		<i>0.4762g → .1000</i>								
96000126	U-107	9 DUP	S96T001072 0			DOSE-02	SOLID	<i>10</i>	<i>17.5</i>	<i>N/A</i> mrad/hour

Final page for worklist #

6422

Analyst Signature

Date

Analyst Signature

Date

596T001055 → 596T001071
1056 → 1072

Reviewed by PK Field
4/8/96

Data Entry Comments:

HPT- Scott Corbally

LABCORE Data Entry Template for Worklist#

6423

Analyst:

QAM

Instrument:

ACD01 SX1637

Book #

Method: LA-504-101 Rev/Mod E-0

Worklist Comment: TK#U-107,CORE 134,GRP# 126,SEG 4L,4A, H2ODIG RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2ODIG01	SOLID	<u>1</u>	<u>.100</u>	N/A	g/L
96000126	U-107	2 SAMPLE <u>0.4921g</u>	S96T001073 0 W <u>→ .100g</u>		H2ODIG01	SOLID	N/A	<u>4.9210</u>		g/L
96000126	U-107	3 SAMPLE	S96T001073 0		DOSE-02	SOLID	N/A	<u>30</u>		mrad/hour
96000126	U-107	4 DUP <u>0.4555g</u>	S96T001073 0 W <u>→ .100g</u>		H2ODIG01	SOLID	<u>4.9210</u>	<u>4.5550</u>	N/A	g/L
96000126	U-107	5 DUP	S96T001073 0		DOSE-02	SOLID	<u>30</u>	<u>25</u>	N/A	mrad/hour
96000126	U-107	6 SAMPLE <u>0.5415g</u>	S96T001074 0 W <u>→ .100g</u>		H2ODIG01	SOLID	N/A	<u>5.4150</u>		g/L
96000126	U-107	7 SAMPLE	S96T001074 0		DOSE-02	SOLID	N/A	<u>25</u>		mrad/hour
96000126	U-107	8 DUP <u>0.5186g</u>	S96T001074 0 W <u>→ .100g</u>		H2ODIG01	SOLID	<u>5.4150</u>	<u>5.1860</u>	N/A	g/L
96000126	U-107	9 DUP	S96T001074 0		DOSE-02	SOLID	<u>25</u>	<u>25</u>	N/A	mrad/hour

Final page for worklist #

6423

QAM 3-24-96
Analyst Signature Date

Susan Bai 4/03/96
Analyst Signature Date

S96T001057 → S96T001073
1064 → 1074

pkf

Reviewed by pkf
4/8/96

Data Entry Comments:

HPT- Scott Corbally

LABCORE Data Entry Template for Worklist#

6425

Analyst: QAM Instrument: H2001 SN16355 Book # _____

Method: LA-504-101 Rev/Mod 2-0

Worklist Comment: TK#U-107,CORE 134,GRP# 126,SEG 4B,5B, H2ODIG RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2ODIG01	SOLID	<u>1</u>	<u>.100</u>	N/A	g/L
96000126	U-107	2 SAMPLE <u>0.4575g</u>	S96T001075 0 W <u>→ .1001</u>		H2ODIG01	SOLID	N/A	<u>4.5750</u>		g/L
96000126	U-107	3 SAMPLE	S96T001075 0		DOSE-02	SOLID	N/A	<u>25</u>		mrad/hour
96000126	U-107	4 DUP <u>0.4917g</u>	S96T001075 0 W <u>→ .1001</u>		H2ODIG01	SOLID	<u>4.5750</u>	<u>4.970</u>	N/A	g/L
96000126	U-107	5 DUP	S96T001075 0		DOSE-02	SOLID	<u>25</u>	<u>25</u>	N/A	mrad/hour
96000126	U-107	6 SAMPLE <u>0.5168g</u>	S96T001076 0 W <u>→ .1001</u>		H2ODIG01	SOLID	N/A	<u>5.1680</u>		g/L
96000126	U-107	7 SAMPLE	S96T001076 0		DOSE-02	SOLID	N/A	<u>15</u>		mrad/hour
96000126	U-107	8 DUP <u>0.4976g</u>	S96T001076 0 W <u>→ .1001</u>		H2ODIG01	SOLID	<u>5.1680</u>	<u>4.9760</u>	N/A	g/L
96000126	U-107	9 DUP	S96T001076 0		DOSE-02	SOLID	<u>15</u>	<u>15</u>	N/A	mrad/hour

Final page for worklist #

6425

Analyst Signature QAM Date 3-28-96

Analyst Signature Simon Bui Date 4/08/96

S96T001065 → S96T001075
1058 → 1076

RH46

Reviewed by RH46
4/8/96

Data Entry Comments HPT - Scott Corbally

LABCORE Data Entry Template for Worklist#

6426

Analyst: QJM

Instrument: ACD01

506355

Book # _____

Method: LA-504-101 Rev/Mod

E-0

Worklist Comment: TK#U-107,CORE 134,GRP# 126,SEG 5U,5A, H2ODIG RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP				H2ODIG01	SOLID	<u>1</u>	<u>1.00</u>	N/A g/L
96000126	U-107	2 SAMPLE	S96T001077 0 W			H2ODIG01	SOLID	N/A	<u>5.6570</u>	g/L
		<u>0.5657g</u> → <u>.1000</u>								
96000126	U-107	3 SAMPLE	S96T001077 0			DOSE-02	SOLID	N/A	<u>22.5</u>	mrad/hour
96000126	U-107	4 DUP	S96T001077 0 W			H2ODIG01	SOLID	<u>5.6570</u>	<u>5.3380</u>	N/A g/L
		<u>0.5338g</u> → <u>.1000</u>								
96000126	U-107	5 DUP	S96T001077 0			DOSE-02	SOLID	<u>22.5</u>	<u>15</u>	N/A mrad/hour
96000126	U-107	6 SAMPLE	S96T001078 0 W			H2ODIG01	SOLID	N/A	<u>5.8340</u>	g/L
		<u>0.5334g</u> → <u>.1000</u>								
96000126	U-107	7 SAMPLE	S96T001078 0			DOSE-02	SOLID	N/A	<u>15</u>	mrad/hour
96000126	U-107	8 DUP	S96T001078 0 W			H2ODIG01	SOLID	<u>5.8340</u>	<u>5.6610</u>	N/A g/L
		<u>0.5661g</u> → <u>.1000</u>								
96000126	U-107	9 DUP	S96T001078 0			DOSE-02	SOLID	<u>15</u>	<u>15</u>	N/A mrad/hour

Final page for worklist #

6426

Analyst Signature

Date

Analyst Signature

Date

S96T001068 → S96T001077 (Granular) rocks, lumps
1059 → 1078 sludge

RH

Reviewed by PK
4/8/96

Data Entry Comments:

W. Hughes 3/27/96 PK

HPT-Scott Corbally

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

6427

Analyst: GM

Instrument: H2001 SN10355

Book # _____

Method: LA-504-101 Rev/Mod E-0

Worklist Comment: TK#U-107,CORE 134,GRP# 126,SEG 6A,COMP H2ODIG RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2001G01	SOLID	<u>1</u>	<u>100</u>	N/A	g/L
96000126	U-107	2 SAMPLE <u>0.4730g</u>	S96T001079 0 W <u>→ .1001</u>		H2001G01	SOLID	N/A	<u>4.7300</u>		g/L
96000126	U-107	3 SAMPLE	S96T001079 0		DOSE-02	SOLID	N/A	<u>10</u>		mrad/hour
96000126	U-107	4 DUP <u>0.4773g</u>	S96T001079 0 W <u>→ .1001</u>		H2001G01	SOLID	<u>4.7300</u>	<u>4.7730</u>	N/A	g/L
96000126	U-107	5 DUP	S96T001079 0		DOSE-02	SOLID	<u>10</u>	<u>5</u>	N/A	mrad/hour
96000126	U-107	6 SAMPLE <u>0.4835g</u>	S96T001129 0 W <u>→ .1001</u>		H2001G01	SOLID	N/A	<u>4.8350</u>		g/L
96000126	U-107	7 SAMPLE	S96T001129 0		DOSE-02	SOLID	N/A	<u>10</u>		mrad/hour
96000126	U-107	8 DUP <u>0.4786g</u>	S96T001129 0 W <u>→ .1001</u>		H2001G01	SOLID	<u>4.8350</u>	<u>4.7860</u>	N/A	g/L
96000126	U-107	9 DUP	S96T001129 0		DOSE-02	SOLID	<u>10</u>	<u>15</u>	N/A	mrad/hour

Final page for worklist #

6427

Analyst Signature GM

Date 3-29-96

Analyst Signature Supm Bu

Date 4/08/96

596T001070 → 596T001079 (Liquid Sludge)
1128 → 1129

R/H

Reviewed by RK Felt
4/8/96

Data Entry Comments:

HPT - Scott Corbally

LABCORE Data Entry Template for Worklist#

6537

Analyst:

[Signature]

Instrument: H2001 *SN 16359*

Book # _____

Method: LA-504-101 Rev/Mod *E-0*

Worklist Comment: TK#U-107,CORE 129,SEG 3R,COMP H2ODIG01 RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2ODIG01	SOLID	<i>1</i>	<i>100</i>	N/A	g/L
96000085	U-107	2 SAMPLE <i>0.5574g → .100g</i>	S96T001144 0 W		H2ODIG01	SOLID	N/A	<i>5.5740</i>		g/L
96000085	U-107	3 SAMPLE	S96T001144 0		DOSE-02	SOLID	N/A	<i>10</i>		mrad/hour
96000085	U-107	4 DUP <i>0.5690g → .100g</i>	S96T001144 0 W		H2ODIG01	SOLID	<i>5.5740</i>	<i>5.6900</i>	N/A	g/L
96000085	U-107	5 DUP	S96T001144 0		DOSE-02	SOLID	<i>10</i>	<i>10</i>	N/A	mrad/hour
96000085	U-107	6 SAMPLE <i>0.5575g → .100g</i>	S96T001160 0 W		H2ODIG01	SOLID	N/A	<i>5.5750</i>		g/L
96000085	U-107	7 SAMPLE	S96T001160 0		DOSE-02	SOLID	N/A	<i>15</i>		mrad/hour
96000085	U-107	8 DUP <i>0.5268g → .100g</i>	S96T001160 0 W		H2ODIG01	SOLID	<i>5.5750</i>	<i>5.2680</i>	N/A	g/L
96000085	U-107	9 DUP	S96T001160 0		DOSE-02	SOLID	<i>15</i>	<i>15</i>	N/A	mrad/hour

Final page for worklist #

6537

[Signature]
Analyst Signature Date

[Signature] *4/08/96*
Analyst Signature Date

S96T001143 → S96T001144
S96T001154 → S96T001160

Reviewed by P. K. Feller
1/8/96

Data Entry Comments

HPT- Scott Corbally

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8104

Analyst:

SAAM

Instrument: H2001

Book #

Method: LA-504-101 Rev/Mod

E-0

Worklist Comment: U-107 C135 2RA,2RB,2A H2ODIG01 SKB

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2001G01	SOLID	<i>1</i>	<i>100</i>	N/A	g/L
96000422	U-107	2 SAMPLE	S96T001875	0 W	H2001G01	SOLID	N/A	<i>5.4480</i>		g/L
96000422	U-107	3 SAMPLE	S96T001875	0	DOSE-02	SOLID	N/A	<i>5</i>		mrad/hour
96000422	U-107	4 DUP	S96T001875	0 W	H2001G01	SOLID	<i>5.4480</i>	<i>5.2870</i>	N/A	g/L
96000422	U-107	5 DUP	S96T001875	0	DOSE-02	SOLID	<i>5</i>	<i>5</i>	N/A	mrad/hour
96000422	U-107	6 SAMPLE	S96T001876	0 W	H2001G01	SOLID	N/A	<i>5.8530</i>		g/L
96000422	U-107	7 SAMPLE	S96T001876	0	DOSE-02	SOLID	N/A	<i>5</i>		mrad/hour
96000422	U-107	8 DUP	S96T001876	0 W	H2001G01	SOLID	<i>5.8530</i>	<i>5.7610</i>	N/A	g/L
96000422	U-107	9 DUP	S96T001876	0	DOSE-02	SOLID	<i>5</i>	<i>10</i>	N/A	mrad/hour
96000422	U-107	10 SAMPLE	S96T002160	0 W	H2001G01	SOLID	N/A	<i>5.4600</i>		g/L
96000422	U-107	11 SAMPLE	S96T002160	0	DOSE-02	SOLID	N/A	<i>20</i>		mrad/hour
96000422	U-107	12 DUP	S96T002160	0 W	H2001G01	SOLID	<i>5.4600</i>	<i>5.3180</i>	N/A	g/L
96000422	U-107	13 DUP	S96T002160	0	DOSE-02	SOLID	<i>30</i>	<i>20</i>	N/A	mrad/hour

Final page for worklist #

8104

SAAM
Analyst Signature

5-13-96
Date

Susan B
Analyst Signature

5/13/96
Date

Data Entry Comments:

596T001873
1874
8133

→ 596T001875
→ 1876
→ 8160

Reviewed by R. Kelle 5/14/96

LABCORE Data Entry Template for Worklist#

5884

Analyst: QAM

Instrument: FUS01 SW16355

Book # WHC1A/SLW/WHC0105
WHC2/SLW/WHC202

Method: LA-505-159 Rev/Mod D-O

Worklist Comment: U-107 Core 129 Seg 2U,2L,3U,3L Acid Digestion rkf

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			ACIDIG01	SOLID	<u>1</u>	<u>.050</u>	N/A	g/L
		2 STD-PREP			ACIDIG01	SOLID	<u>20</u>	<u>20</u>	N/A	g/L
96000085	U-107	3 SAMPLE	S96T000788 0 A		ACIDIG01	SOLID	N/A	<u>4.3000</u>		g/L
		<u>.2150g → .0500</u>								
96000085	U-107	4 SAMPLE	S96T000788 0		DOSE-02	SOLID	N/A	<u>8</u>		mrad/hour
96000085	U-107	5 DUP	S96T000788 0 A		ACIDIG01	SOLID	<u>4.3000</u>	<u>4.6120</u>	N/A	g/L
		<u>.2306g → .0500</u>								
96000085	U-107	6 DUP	S96T000788 0		DOSE-02	SOLID	<u>8</u>	<u>7</u>	N/A	mrad/hour
96000085	U-107	7 SPK	S96T000788 0 A		ACIDIG01	SOLID	<u>20</u>	<u>20</u>	N/A	g/L
		<u>.2258g → .0500</u>								
96000085	U-107	8 SPK	S96T000788 0		DOSE-02	SOLID	N/A	<u>6</u>	N/A	mrad/hour
96000085	U-107	9 SAMPLE	S96T000789 0 A		ACIDIG01	SOLID	N/A	<u>4.4040</u>		g/L
		<u>.2202g → .0500</u>								
96000085	U-107	10 SAMPLE	S96T000789 0		DOSE-02	SOLID	N/A	<u>3.5</u>		mrad/hour
96000085	U-107	11 DUP	S96T000789 0 A		ACIDIG01	SOLID	<u>4.4040</u>	<u>4.2180</u>	N/A	g/L
		<u>.2104g → .0500</u>								
96000085	U-107	12 DUP	S96T000789 0		DOSE-02	SOLID	<u>3.5</u>	<u>3</u>	N/A	mrad/hour
96000085	U-107	13 SAMPLE	S96T000790 0 A		ACIDIG01	SOLID	N/A	<u>4.0480</u>		g/L
		<u>.2024g → .0500</u>								
96000085	U-107	14 SAMPLE	S96T000790 0		DOSE-02	SOLID	N/A	<u>1.5</u>		mrad/hour
96000085	U-107	15 DUP	S96T000790 0 A		ACIDIG01	SOLID	<u>4.0480</u>	<u>4.6160</u>	N/A	g/L
		<u>.2323g → .0500</u>								
96000085	U-107	16 DUP	S96T000790 0		DOSE-02	SOLID	<u>1.5</u>	<u>1.5</u>	N/A	mrad/hour
96000085	U-107	17 SAMPLE	S96T000791 0 A		ACIDIG01	SOLID	N/A	<u>3.9140</u>		g/L
		<u>.1957g → .0500</u>								
96000085	U-107	18 SAMPLE	S96T000791 0		DOSE-02	SOLID	N/A	<u>1.5</u>		mrad/hour

Data Entry Comments:

644 → 788
647 → 789
650 → 790
653 → 791

1070 solids
HPT - Scott Corbally

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

5884

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
96000085	U-107	19 DUP	S96T000791	0 A	ACID1G01	SOLID	3.9146	3.9660	N/A	g/L
96000085	U-107	20 DUP	S96T000791	0	DOSE-02	SOLID	1.5	1	N/A	mrad/hour

Final page for worklist #

5884

Q. Murphy 3-5-96
Analyst Signature Date

R. Fuller 3/6/96
Analyst Signature Date

644 → 788
647 → 789
650 → 790
653 → 791

Reviewed by RK Fuller
3/6/96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

6420

Analyst: QAM

Instrument: ACD01

Book #

Method: LA-505-159 Rev/Mod D-0

Worklist Comment: TK#U-107,CORE 134,GRP# 126,SEG 2,3,4L,4A,4B ACIDIG RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			ACIDIG01	SOLID	<u>1</u>	<u>050</u>	N/A	g/L
		2 STD-PREP			ACIDIG01	SOLID	<u>20</u>	<u>20</u>	N/A	g/L
96000126	U-107	3 SAMPLE	S96T001080	0 A	ACIDIG01	SOLID	N/A	<u>5.0480</u>		g/L
		<u>0.2524g → .0501</u>								
96000126	U-107	4 SAMPLE	S96T001080	0	DOSE-02	SOLID	N/A	<u>.5</u>		mrad/hour
96000126	U-107	5 DUP	S96T001080	0 A	ACIDIG01	SOLID	<u>5.0480</u>	<u>5.9240</u>	N/A	g/L
		<u>0.2962g → .0501</u>								
96000126	U-107	6 DUP	S96T001080	0	DOSE-02	SOLID	<u>.5</u>	<u>3</u>	N/A	mrad/hour
96000126	U-107	7 SPK	S96T001080	0 A	ACIDIG01	SOLID	<u>20</u>	<u>20</u>	N/A	g/L
		<u>0.2560g → .0501</u>								
96000126	U-107	8 SPK	S96T001080	0	DOSE-02	SOLID	<u>NA</u>	<u>3</u>	N/A	mrad/hour
96000126	U-107	9 SAMPLE	S96T001081	0 A	ACIDIG01	SOLID	N/A	<u>5.3060</u>		g/L
		<u>0.2653g → .0501</u>								
96000126	U-107	10 SAMPLE	S96T001081	0	DOSE-02	SOLID	N/A	<u>5</u>		mrad/hour
96000126	U-107	11 DUP	S96T001081	0 A	ACIDIG01	SOLID	<u>5.3060</u>	<u>5.1240</u>	N/A	g/L
		<u>0.2562g → .0501</u>								
96000126	U-107	12 DUP	S96T001081	0	DOSE-02	SOLID	<u>5</u>	<u>6</u>	N/A	mrad/hour
96000126	U-107	13 SAMPLE	S96T001082	0	ACIDIG01	SOLID	N/A	<u>5.6420</u>		g/L
		<u>0.2821g → .0501</u>								
96000126	U-107	14 SAMPLE	S96T001082	0	DOSE-02	SOLID	N/A	<u>24</u>		mrad/hour
96000126	U-107	15 DUP	S96T001082	0	ACIDIG01	SOLID	<u>5.6420</u>	<u>5.4780</u>	N/A	g/L
		<u>0.2794g → .0501</u>								
96000126	U-107	16 DUP	S96T001082	0	DOSE-02	SOLID	<u>24</u>	<u>15</u>	N/A	mrad/hour
96000126	U-107	17 SAMPLE	S96T001083	0 A	ACIDIG01	SOLID	N/A	<u>5.0090</u>		g/L
		<u>0.2502g → .0501</u>								
96000126	U-107	18 SAMPLE	S96T001083	0	DOSE-02	SOLID	N/A	<u>20</u>		mrad/hour

Data Entry Comments:

<190 solids
HPT - Scott Corbally

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

6420

GROUP	PROJECT	S TYPE	SAMPLE#	R A -----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
96000126	U-107	19 DUP 0.2611g → .0501	S96T001083 0	ACIDIG01	SOLID	5.0040	5.2220	N/A	g/L
96000126	U-107	20 DUP	S96T001083 0	DOSE-02	SOLID	15	10	N/A	mrad/hour
96000126	U-107	21 SAMPLE 0.2828g → .0501	S96T001084 0 A	ACIDIG01	SOLID	N/A	5.6560		g/L
96000126	U-107	22 SAMPLE	S96T001084 0	DOSE-02	SOLID	N/A	12		mrad/hour
96000126	U-107	23 DUP 0.2809g → .0501	S96T001084 0 A	ACIDIG01	SOLID	5.1660	5.1680	N/A	g/L
96000126	U-107	24 DUP	S96T001084 0	DOSE-02	SOLID	12	12	N/A	mrad/hour

Final page for worklist #

6420

[Signature] 3-28-96
Analyst Signature Date

[Signature] 4/03/96
Analyst Signature Date

S96T001055 → S96T001080
1056 → 1081
1057 → 1082
1064 → 1083
1065 → 1084

R/ft

Reviewed by RK Fulle
4/8/96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

6421

Analyst:

JAM

Instrument:

ACD01

SN116355

Book #

WHC19/JWJWHC1A05
WHC21/JWJWHC2A02

Method: LA-505-159 Rev/Mod

D-O

Worklist Comment: TK#U-107,CORE 134,GRP# 126,SEG 5B,5U,5A,6A,COMP ACIDIG RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			ACIDIG01	SOLID	<u>1</u>	<u>050</u>	N/A	g/L
		2 STD-PREP			ACIDIG01	SOLID	<u>20</u>	<u>20</u>	N/A	g/L
96000126	U-107	3 SAMPLE	S96T001085	0 A	ACIDIG01	SOLID	N/A	<u>5.0980</u>		g/L
		<u>0.2549g</u>								
96000126	U-107	4 SAMPLE	S96T001085	0	DOSE-02	SOLID	N/A	<u>16</u>		mrad/hour
96000126	U-107	5 DUP	S96T001085	0 A	ACIDIG01	SOLID	<u>5.0980</u>	<u>5.3020</u>	N/A	g/L
		<u>0.2701g</u>								
96000126	U-107	6 DUP	S96T001085	0	DOSE-02	SOLID	<u>16</u>	<u>19</u>	N/A	mrad/hour
96000126	U-107	7 SPK	S96T001085	0 A	ACIDIG01	SOLID	<u>20</u>	<u>20</u>	N/A	g/L
		<u>0.2673g</u>								
96000126	U-107	8 SPK	S96T001085	0	DOSE-02	SOLID	<u>N/A</u>	<u>29</u>	N/A	mrad/hour
96000126	U-107	9 SAMPLE	S96T001086	0 A	ACIDIG01	SOLID	N/A	<u>5.4900</u>		g/L
		<u>0.2745g</u>								
96000126	U-107	10 SAMPLE	S96T001086	0	DOSE-02	SOLID	N/A	<u>21</u>		mrad/hour
96000126	U-107	11 DUP	S96T001086	0 A	ACIDIG01	SOLID	<u>5.4900</u>	<u>4.9680</u>	N/A	g/L
		<u>0.2484g</u>								
96000126	U-107	12 DUP	S96T001086	0	DOSE-02	SOLID	<u>21</u>	<u>25</u>	N/A	mrad/hour
96000126	U-107	13 SAMPLE	S96T001087	0 A	ACIDIG01	SOLID	N/A	<u>5.7880</u>		g/L
		<u>0.2844g</u>								
96000126	U-107	14 SAMPLE	S96T001087	0	DOSE-02	SOLID	N/A	<u>9</u>		mrad/hour
96000126	U-107	15 DUP	S96T001087	0 A	ACIDIG01	SOLID	<u>5.7880</u>	<u>4.5700</u>	N/A	g/L
		<u>0.2285g</u>								
96000126	U-107	16 DUP	S96T001087	0	DOSE-02	SOLID	<u>9</u>	<u>7</u>	N/A	mrad/hour
96000126	U-107	17 SAMPLE	S96T001088	0 A	ACIDIG01	SOLID	N/A	<u>5.5180</u>		g/L
		<u>0.2759g</u>								
96000126	U-107	18 SAMPLE	S96T001088	0	DOSE-02	SOLID	N/A	<u>5</u>		mrad/hour

Data Entry Comments:

<170 Solids
HPT- Scott Corbally

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

6421

GROUP	PROJECT	S TYPE	SAMPLE#	R A -----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
96000126	U-107	19 DUP C. 2633g → .0501	S96T001088 0 A	ACID1G01	SOLID	5.5180	5.2460	N/A	g/L
96000126	U-107	20 DUP	S96T001088 0	DOSE-02	SOLID	7	3	N/A	mrad/hour
96000126	U-107	21 SAMPLE C. 2324g → .0501	S96T001130 0 A	ACID1G01	SOLID	N/A	4.6980		g/L
96000126	U-107	22 SAMPLE	S96T001130 0	DOSE-02	SOLID	N/A	7		mrad/hour
96000126	U-107	23 DUP C. 2271g → .0501	S96T001130 0 A	ACID1G01	SOLID	4.6480	4.5420	N/A	g/L
96000126	U-107	24 DUP	S96T001130 0	DOSE-02	SOLID	7	10	N/A	mrad/hour

Final page for worklist #

6421

W. Murphy 3-28-96
Analyst Signature Date

Susan Bee 4/08/96
Analyst Signature Date

596T001058 → 596T001085
1068 → 1086 (GRANULAR, ROCKY, LUMPY, SLUDGE)
1059 → 1087
1076 → 1088
1128 → 1130
R/H/L

Reviewed by R K Feller
4/8/96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

6536

Analyst:

QAM

Instrument: ACD01

SN1635

Book #

WHC19/J6JWHC1A05
WHC2/J6JWHC2A02

Method: LA-505-159 Rev/Mod

D-0

Worklist Comment: TK#U-107,CORE 129,SEG 3R,COMP ACIDIG01 RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			ACIDIG01	SOLID	<u>1</u>	<u>D50</u>	N/A	g/L
		2 STD-PREP			ACIDIG01	SOLID	<u>20</u>	<u>20</u>	N/A	g/L
96000085	U-107	3 SAMPLE	S96T001152 0 A		ACIDIG01	SOLID	N/A	<u>5.3700</u>		g/L
		<u>0.2685g → .0501</u>	S96T001152 0		DOSE-02	SOLID	N/A	<u>3</u>		mrad/hour
96000085	U-107	5 DUP	S96T001152 0 A		ACIDIG01	SOLID	<u>5.3700</u>	<u>5.9100</u>	N/A	g/L
		<u>0.2953g → .0501</u>	S96T001152 0		DOSE-02	SOLID	<u>3</u>	<u>4</u>	N/A	mrad/hour
96000085	U-107	7 SPK	S96T001152 0 A		ACIDIG01	SOLID	<u>20</u>	<u>20</u>	N/A	g/L
		<u>0.2902g → .0501</u>	S96T001152 0		DOSE-02	SOLID	<u>14</u>	<u>4</u>	N/A	mrad/hour
96000085	U-107	9 SAMPLE	S96T001161 0 A		ACIDIG01	SOLID	N/A	<u>5.3380</u>		g/L
		<u>0.2694g → .0501</u>	S96T001161 0		DOSE-02	SOLID	N/A	<u>5</u>		mrad/hour
96000085	U-107	11 DUP	S96T001161 0		ACIDIG01	SOLID	<u>5.3380</u>	<u>5.0540</u>	N/A	g/L
		<u>0.2527g → .0501</u>	S96T001161 0		DOSE-02	SOLID	<u>5</u>	<u>8</u>	N/A	mrad/hour

Final page for worklist #

6536

QAM 3-28-96
Analyst Signature Date

Susan Ben 4/08/96
Analyst Signature Date

596T001143 → 596T001152

596T001159 → 596T001161

Data Entry Comments:

SPK solids
HPT- Scott Corbally

Reviewed by PK Full
4/8/96

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8103

Analyst: QAM Instrument: ACD01 Book # _____

Method: LA-505-159 Rev/Mod D-C

Worklist Comment: U-107 C135 2RA,2RB,2A ACIDIG01 SKB

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			ACIDIG01	SOLID	<u>1</u>	<u>.080</u>	N/A	g/L
		2 STD-PREP			ACIDIG01	SOLID	<u>20</u>	<u>20</u>	N/A	g/L
96000422	U-107	3 SAMPLE	S96T001877	0 A	ACIDIG01	SOLID	N/A	<u>5.2740</u>		g/L
		.2637g → .0501								
96000422	U-107	4 SAMPLE	S96T001877	0	DOSE-02	SOLID	N/A	<u>5</u>		mrad/hour
96000422	U-107	5 DUP	S96T001877	0 A	ACIDIG01	SOLID	<u>5.2740</u>	<u>5.0820</u>	N/A	g/L
		.2541g → .0501								
96000422	U-107	6 DUP	S96T001877	0	DOSE-02	SOLID	<u>5</u>	<u>2.5</u>	N/A	mrad/hour
96000422	U-107	7 SPK	S96T001877	0 A	ACIDIG01	SOLID	<u>20</u>	<u>20</u>	N/A	g/L
		.2769g → .0501								
96000422	U-107	8 SPK	S96T001877	0	DOSE-02	SOLID	<u>NA</u>	<u>4</u>	N/A	mrad/hour
96000422	U-107	9 SAMPLE	S96T001878	0 A	ACIDIG01	SOLID	N/A	<u>5.4080</u>		g/L
		.2704g → .0501								
96000422	U-107	10 SAMPLE	S96T001878	0	DOSE-02	SOLID	N/A	<u>5</u>		mrad/hour
96000422	U-107	11 DUP	S96T001878	0 A	ACIDIG01	SOLID	<u>5.4080</u>	<u>5.6540</u>	N/A	g/L
		.2827g → .0501								
96000422	U-107	12 DUP	S96T001878	0	DOSE-02	SOLID	<u>5</u>	<u>5</u>	N/A	mrad/hour
96000422	U-107	13 SAMPLE	S96T002161	0 A	ACIDIG01	SOLID	N/A	<u>5.0860</u>		g/L
		.2543g → .0501								
96000422	U-107	14 SAMPLE	S96T002161	0	DOSE-02	SOLID	N/A	<u>10</u>		mrad/hour
96000422	U-107	15 DUP	S96T002161	0 A	ACIDIG01	SOLID	<u>5.0860</u>	<u>5.4300</u>	N/A	g/L
		.2715g → .0501								
96000422	U-107	16 DUP	S96T002161	0	DOSE-02	SOLID	<u>10</u>	<u>10</u>	N/A	mrad/hour

S96T001873 → S96T001877
1874 1898
2133 2166

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8103

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
-------	---------	--------	---------	-----	----------------	--------	--------	-------	----	------

Final page for worklist #

8103

Q Murphy 5-13-96
Analyst Signature Date

Gron Bu 5/13/96
Analyst Signature Date

Data Entry Comments:

Reviewed by QK Fuller
5/14/96

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8209

Analyst: QAM

Instrument: ACD01 SVI 6355

Book # _____

Method: LA-505-159 Rev/Mod D-O

Worklist Comment: U-107 C134 S2,S3,S4L,S4QA,S4QB ACIDIG01 SKB

RUSH

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			ACIDIG01	SOLID	<u>1</u>	<u>.050</u>	N/A	g/L
		2 STD-PREP			ACIDIG01	SOLID	<u>20</u>	<u>20</u>	N/A	g/L
96000126	U-107	3 SAMPLE	S96T002284	0 A	ACIDIG01	SOLID	N/A	<u>5.1500</u>		g/L
		<u>.2575g</u> → <u>.0500</u>								
96000126	U-107	4 SAMPLE	S96T002284	0	DOSE-02	SOLID	N/A	<u>20</u>		mrads/hour
96000126	U-107	5 DUP	S96T002284	0 A	ACIDIG01	SOLID	<u>5.1500</u>	<u>5.3420</u>	N/A	g/L
		<u>.2696g</u> → <u>.0500</u>								
96000126	U-107	6 DUP	S96T002284	0	DOSE-02	SOLID	<u>20</u>	<u>20</u>	N/A	mrads/hour
96000126	U-107	7 SPK	S96T002284	0 A	ACIDIG01	SOLID	<u>20</u>	<u>20</u>	N/A	g/L
		<u>.2790g</u> → <u>.0500</u>								
96000126	U-107	8 SPK	S96T002284	0	DOSE-02	SOLID	N/A	<u>20</u>	N/A	mrads/hour
96000126	U-107	9 SAMPLE	S96T002285	0 A	ACIDIG01	SOLID	N/A	<u>5.0580</u>		g/L
		<u>.2529g</u> → <u>.0500</u>								
96000126	U-107	10 SAMPLE	S96T002285	0	DOSE-02	SOLID	N/A	<u>20</u>		mrads/hour
96000126	U-107	11 DUP	S96T002285	0 A	ACIDIG01	SOLID	<u>5.0580</u>	<u>5.0590</u>	N/A	g/L
		<u>.2527g</u> → <u>.0500</u>								
96000126	U-107	12 DUP	S96T002285	0	DOSE-02	SOLID	<u>20</u>	<u>20</u>	N/A	mrads/hour
96000126	U-107	13 SAMPLE	S96T002286	0 A	ACIDIG01	SOLID	N/A	<u>5.4480</u>		g/L
		<u>.2724g</u> → <u>.0500</u>								
96000126	U-107	14 SAMPLE	S96T002286	0	DOSE-02	SOLID	N/A	<u>35</u>		mrads/hour
96000126	U-107	15 DUP	S96T002286	0 A	ACIDIG01	SOLID	<u>5.4480</u>	<u>5.5080</u>	N/A	g/L
		<u>.2749g</u> → <u>.0500</u>								
96000126	U-107	16 DUP	S96T002286	0	DOSE-02	SOLID	<u>35</u>	<u>35</u>	N/A	mrads/hour
96000126	U-107	17 SAMPLE	S96T002287	0 A	ACIDIG01	SOLID	N/A	<u>4.9600</u>		g/L
		<u>.2480g</u> → <u>.0500</u>								
96000126	U-107	18 SAMPLE	S96T002287	0	DOSE-02	SOLID	N/A	<u>50</u>		mrads/hour

Data Entry Comments:

5790 counts

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8209

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
96000126	U-107	19 DUP .2788g	S96T002287 0 A → .050g		ACIDIG01	SOLID	1.9660	5.5760	N/A	g/L
96000126	U-107	20 DUP	S96T002287 0		DOSE-02	SOLID	50	50	N/A	mrad/hour
96000126	U-107	21 SAMPLE .2983g	S96T002288 0 A → .050g		ACIDIG01	SOLID	N/A	5.9660		g/L
96000126	U-107	22 SAMPLE	S96T002288 0		DOSE-02	SOLID	N/A	30		mrad/hour
96000126	U-107	23 DUP .2864g	S96T002288 0 A → .050g		ACIDIG01	SOLID	5.9660	5.7280	N/A	g/L
96000126	U-107	24 DUP	S96T002288 0		DOSE-02	SOLID	30	25	N/A	mrad/hour
96000126	U-107	25 SPK .2931g	S96T002288 0 → .050g		ACIDIG01	SOLID	20	20	N/A	D.F. 5-15-96 g/L (AM)
96000126	U-107	26 SPK	S96T002288 0		DOSE-02	SOLID	NA	55	N/A	mrad/hour

Final page for worklist #

8209

[Signature]
Analyst Signature Date 5-16-96

[Signature]
Analyst Signature Date 5/17/96

596T001053 → 596T002284
1056 → 2285
1057 → 2286
1064 → 2287
1065 → 2288

Data Entry Comments:

Reviewed by *[Signature]*
5/17/96

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WHC-SD-WM-DP-184, REV. 1

INORGANIC ANALYSES

WHC-SD-WM-DP-184, REV. 1

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Requestor: 550

Bulk Density Worksheet

Date: 8-20-96

Tank: V-107
 Core: 135
 Seg: 13A
 Auger:

Tank:
 Core:
 Seg:
 Auger:

Tank:
 Core:
 Seg:
 Auger:

Tank:
 Core:
 Seg:
 Auger:

Start Time: 7:00 AM End Time: 7:30 AM
 Homogenization Time (Min): 56
 Net Weight: 9813
 Initial Weight: 60 ml
 Final Weight: 23.28
 Net Weight: 1183 g
 Net Weight: 4.9 g

Start Time: 7:00 AM End Time: 7:30 AM
 Homogenization Time (Min): 56
 Net Weight: 9813
 Initial Weight: 60 ml
 Final Weight: 23.28
 Net Weight: 1183 g
 Net Weight: 4.9 g

Start Time: 7:00 AM End Time: 7:30 AM
 Homogenization Time (Min): 56
 Net Weight: 9813
 Initial Weight: 60 ml
 Final Weight: 23.28
 Net Weight: 1183 g
 Net Weight: 4.9 g

Start Time: 7:00 AM End Time: 7:30 AM
 Homogenization Time (Min): 56
 Net Weight: 9813
 Initial Weight: 60 ml
 Final Weight: 23.28
 Net Weight: 1183 g
 Net Weight: 4.9 g

Start Time: 7:00 AM End Time: 7:30 AM
 Homogenization Time (Min): 56
 Net Weight: 9813
 Initial Weight: 60 ml
 Final Weight: 23.28
 Net Weight: 1183 g
 Net Weight: 4.9 g

Start Time: 7:00 AM End Time: 7:30 AM
 Homogenization Time (Min): 56
 Net Weight: 9813
 Initial Weight: 60 ml
 Final Weight: 23.28
 Net Weight: 1183 g
 Net Weight: 4.9 g

Start Time: 7:00 AM End Time: 7:30 AM
 Homogenization Time (Min): 56
 Net Weight: 9813
 Initial Weight: 60 ml
 Final Weight: 23.28
 Net Weight: 1183 g
 Net Weight: 4.9 g

Start Time: 7:00 AM End Time: 7:30 AM
 Homogenization Time (Min): 56
 Net Weight: 9813
 Initial Weight: 60 ml
 Final Weight: 23.28
 Net Weight: 1183 g
 Net Weight: 4.9 g

Start Time: 7:00 AM End Time: 7:30 AM
 Homogenization Time (Min): 56
 Net Weight: 9813
 Initial Weight: 60 ml
 Final Weight: 23.28
 Net Weight: 1183 g
 Net Weight: 4.9 g

Start Time: 7:00 AM End Time: 7:30 AM
 Homogenization Time (Min): 56
 Net Weight: 9813
 Initial Weight: 60 ml
 Final Weight: 23.28
 Net Weight: 1183 g
 Net Weight: 4.9 g

Start Time: 7:00 AM End Time: 7:30 AM
 Homogenization Time (Min): 56
 Net Weight: 9813
 Initial Weight: 60 ml
 Final Weight: 23.28
 Net Weight: 1183 g
 Net Weight: 4.9 g

Start Time: 7:00 AM End Time: 7:30 AM
 Homogenization Time (Min): 56
 Net Weight: 9813
 Initial Weight: 60 ml
 Final Weight: 23.28
 Net Weight: 1183 g
 Net Weight: 4.9 g

Appearance/Narrative: SI
 Bk Dev: 7/14/96 188 188

Appearance/Narrative:

Appearance/Narrative:

SI
 7/14/96
 188
 188

LABCORE Data Entry Template for Worklist#

6053

Analyst: KCH Instrument: BA001 Book # 133X116-A

Method: LA-510-112 Rev/Mod C-3

Worklist Comment: U-107 SPG-01 RUN DIRECT. RCJ-

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			SPG-01	LIQUID	<u>1.398</u>	<u>1.373</u>	<u>N/A</u>	Sp.G.
96000085	U-107	2 SAMPLE	S96T000637	0	SPG-01	LIQUID	<u>N/A</u>	<u>1.381</u>	<u>0.010</u>	Sp.G.
96000085	U-107	3 SAMPLE	S96T000641	0	SPG-01	LIQUID	<u>N/A</u>	<u>1.435</u>	<u>0.010</u>	Sp.G.

Final page for worklist #

6053

Analyst Signature

Date

Analyst Signature

Date

Reviewed RW Schoder 3/18/96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SPECIFIC GRAVITY ANALYSIS

1.84373 g

2.04859 g

1.91672 g

2.12420 g

STO

STP

1.81818 g

2.02562 g

1.87798 g

2.00296 g

5967000
637

5967000
639

1.91572 g

2.07125 g

1.89005 g

2.06506 g

5967000
641

5967000
641

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

SPECIFIC GRAVITY : LA-510-112 (C-3)

		STANDARD	STANDARD
STANDARD	Gross Weight (W2)	2.0486	2.1242
	Tare Weight (W1)	1.8437	1.9167
6053	Weight of Solution (W2-W1)	0.20486	0.20748
	Volume of Solution μL	150.1700	150.1700
SPG-01	Specific Gravity	1.3642	1.3816
	Specific Gravity (Average)	1.3729	
LIQUID			
133N16A			
Gross Weight (W2) = Wt. of vial + cap + cotton + solution			
Tare Weight (W1) = Wt. of vial + cap + cotton			
Specific Gravity = $[(W2-W1) * 1000 \mu\text{L}/\text{mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$			
v RESULT v			
Specific Gravity Average =		1.373	

Data Entry by: <i>RTS</i>	Date: 03/13/96
Approved by: <i>RW Schroeder</i>	Date: 3/18/96

Form 510112L1 Rev. 1.1

Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-184, REV. 1

SPECIFIC GRAVITY : LA-510-112 (C-3)

		SAMPLE	REPLICATE
SAMPLE 6053 SPG-01	Gross Weight (W2)	2.0256	
	Tare Weight (W1)	1.8182	
	Weight of Solution (W2-W1)	0.20744	0
	Volume of Solution μ L	150.1700	
	Specific Gravity	1.3814	NA
LIQUID			
S95T000637			
Gross Weight (W2) = Wt. of vial + cap + cotton + solution			
Tare Weight (W1) = Wt. of vial + cap + cotton			
K. HIGBEE			
Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$			
03/12/96	v RESULT v		
	Specific Gravity =	1.381	

Data Entry by:	RTS	Date:	03/13/96
Approved by:	RW Scholden	Date:	3/18/96

Form 510112L1 Rev. 1.1

Page 1 of 1

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PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-184, REV. 1

SPECIFIC GRAVITY : LA-510-112 (C-3)

		SAMPLE	REPLICATE
SAMPLE 6053 SPG-01	Gross Weight (W2)	2.0830	
	Tare Weight (W1)	1.8780	
	Weight of Solution (W2-W1)	0.20498	0
	Volume of Solution μ L	150.1700	
	Specific Gravity	1.3650	NA
LIQUID			
S95T000637/DUP			
Gross Weight (W2) = Wt. of vial + cap + cotton + solution			
Tare Weight (W1) = Wt. of vial + cap + cotton			
K. HIGBEE	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L}/\text{mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
03/12/96	v RESULT v		
	Specific Gravity =	1.365	

Data Entry by:

RTS

Date: 03/13/96

Approved by:

RW Schoed

Date: 3/18/96

Form 510112L1 Rev. 1.1

Page 1 of 1

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PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-184, REV. 1

SPECIFIC GRAVITY : LA-510-112 (C-3)

		SAMPLE	REPLICATE
SAMPLE	Gross Weight (W2)	2.0313	
	Tare Weight (W1)	1.8157	
6053	Weight of Solution (W2-W1)	0.21553	0
	Volume of Solution μL	150.1700	
SPG-01	Specific Gravity	1.4352	NA
LIQUID			
S95T000641			
	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
	Tare Weight (W1) = Wt. of vial + cap + cotton		
K. HIGBEE	Specific Gravity = $[(W2-W1) \cdot 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} \cdot 1.000 \text{ g/mL}]$		
03/12/96	∇ RESULT ∇		
	Specific Gravity =	1.435	

Data Entry by:

RTS

Date:

03/13/96

Approved by:

RW Scholch

Date:

3/18/96

Form 510112L1 Rev. 1.1

Page 1 of 1

164

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-184, REV. 1

SPECIFIC GRAVITY : LA-510-112 (C-3)

		SAMPLE	REPLICATE
SAMPLE	Gross Weight (W2)	2.0954	
	Tare Weight (W1)	1.8861	
	6053 Weight of Solution (W2-W1)	0.20927	0
	Volume of Solution μ L	150.1700	
	SPG-01 Specific Gravity	1.3936	NA
LIQUID			
S95T000641/DUP			
	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
	Tare Weight (W1) = Wt. of vial + cap + cotton		
K. HIGBEE	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
03/12/96	v RESULT v		
	Specific Gravity =	1.394	

Data Entry by:	RTS	Date:	03/13/96
Approved by:	RW Schreder	Date:	3/18/96

Form 510112L1 Rev. 1.1

Page 1 of 1

165

LABCORE Data Entry Template for Worklist#

6523

Analyst: SMF Instrument: BA001 _____ Book # 133 N16-N

Method: LA-510-112 Rev/Mod C-3

Worklist Comment: U-107 AND S-102 SPG. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			SPG-01	LIQUID		<u>1.366</u>	<u>N/A</u>	Sp.G.
96000126	U-107	2 SAMPLE	S96T001107 0		SPG-01	LIQUID	<u>N/A</u>	<u>1.437</u>		Sp.G.
96000126	U-107	3 DUP	S96T001107 0		SPG-01	LIQUID	<u>1.437</u>	<u>1.419</u>	<u>N/A</u>	Sp.G.
96000094	S102	4 SAMPLE	S96T001125 0		SPG-01	LIQUID	<u>N/A</u>	<u>1.452</u>		Sp.G.
96000094	S102	5 DUP	S96T001125 0		SPG-01	LIQUID	<u>1.452</u>	<u>1.489</u>	<u>N/A</u>	Sp.G.

Final page for worklist # 6523

Lisa M. Julten 3-18-96
Analyst Signature Date
1715

[Signature] 3-19-96
Analyst Signature Date
Approved by H Anastro 3-19-96

STD 133N16-A

STD DUP

S96T001107 + DUP

S96T001125 + DUP

Tare 1.33282g

1.35331g

1.30605g

1.36727g

1.31619g

1.35348g

Gross 1.53787g

1.55857g

1.52150g

1.58036g

1.53428g

1.57715g

Temp S102: 15017ml

15017ml

15017ml

15017ml

15017ml

15017ml

Data Entry Comments: STD & SAMPLE SIZE: 15017ml

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

SPECIFIC GRAVITY : LA-510-112 (C-3)

Type		STANDARD	STANDARD
STANDARD	Gross Weight (W2)	1.5379	1.5586
Work List	Tare Weight (W1)	1.3328	1.3533
6523	Weight of Solution (W2-W1)	0.20505	0.20526
Test Code	Volume of Solution μ L	150.1700	150.1700
SPG-01	Specific Gravity	1.3655	1.3669
Matrix	Specific Gravity (Average)	1.3662	
LIQUID			
Sample #			
STD			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
BA001	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst			
SMF	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L}/\text{mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
Date			
03/18/96	v RESULT v		
Time	Specific Gravity Average =	1.366	
05:15 PM			

Data Entry by: <i>Barry J. Hannon</i>	Date: 03/19/96
Approved by: <i>Hannon</i>	Date: 3-19-96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

SPECIFIC GRAVITY : LA-510-112 (C-3)

Type		SAMPLE	REPLICATE
SAMPLE	Gross Weight (W2)	1.5219	
Work List	Tare Weight (W1)	1.3061	
6523	Weight of Solution (W2-W1)	0.21585	0
Test Code	Volume of Solution μ L	150.1700	
SPG-01	Specific Gravity	1.4374	NA
Matrix			
LIQUID			
Sample #			
S96T001107			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
BA001	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst			
SMF	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L}/\text{mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
Date			
03/18/96	v RESULT v		
Time	Specific Gravity =	1.437	
05:15 PM			

Data Entry by: <i>Day</i>	Date: 03/19/96
Approved by: <i>H Anastor</i>	Date: 3-19-96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

SPECIFIC GRAVITY : LA-510-112 (C-3)

Type		DUPLICATE	REPLICATE
DUPLICATE	Gross Weight (W2)	1.5804	
Work List	Tare Weight (W1)	1.3673	
6523	Weight of Solution (W2-W1)	0.21309	0
Test Code	Volume of Solution μL	150.1700	
SPG-01	Specific Gravity	1.4190	NA
Matrix			
LIQUID			
Sample #			
S96T001107 DUP			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
BA001	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst			
SMF	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
Date			
03/18/96	v RESULT v		
Time	Specific Gravity =	1.419	
05:15 PM			

Data Entry by: <i>Don Hester</i>	Date: 03/19/96
Approved by: <i>Hester</i>	Date: 3-19-96

BCORE Data Entry Template for Worklist#

7984

Anal: KNT Instrument: BA001 Book # 133/116-A
Meth: 1-51-110 Rev/Mod C-3
Work: Sample S-107 & U-107 SPG RUN IN DUPLICATE. RCJ

GROUP	SLOT	TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			SPG-01	LIQUID	<u>1.398</u>	<u>1.375</u>	<u>N/A</u>	Sp.G.
96000	107	2 SAMPLE	S96T001785	0	SPG-01	LIQUID	<u>N/A</u>	<u>1.28</u>	<u>0.01</u>	Sp.G.
96000	107	3 DUP	S96T001785	0	SPG-01	LIQUID	<u>1.28</u>	<u>1.23</u>	<u>N/A</u>	Sp.G.
96000	107	4 SAMPLE	S96T001790	0	SPG-01	LIQUID	<u>N/A</u>	<u>1.25</u>	<u>0.01</u>	Sp.G.
96000	107	5 SP	S96T001790	0	SPG-01	LIQUID	<u>1.25</u>	<u>1.24</u>	<u>N/A</u>	Sp.G.
96000	107	6 SAMPLE	S96T001865	0	SPG-01	LIQUID	<u>N/A</u>	<u>1.03</u>	<u>0.01</u>	Sp.G.
96000	107	7 SP	S96T001865	0	SPG-01	LIQUID	<u>1.03</u>	<u>1.03</u>	<u>N/A</u>	Sp.G.

Final page for worklist #

7984

Kim Thomas 4-24-96
Anal Date

RH66 4-25-96
Analyst Signature Date

Reviewed RW Schroeder
4/26/96

BEST AVAILABLE COPY

Date: 04/23/96

Unit: (SPG = STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-184, REV. 1

SPECIFIC GRAVITY : LA-510-112 (C-3)

Type		STANDARD	STANDARD
STANDARD	Gross Weight (W2)	2.1277	2.0757
Work Item	Tare Weight (W1)	1.9247	1.8657
7984	Weight of Solution (W2-W1)	0.203	0.21
Test Code	Volume of Solution μ L	150.1700	150.1700
S[G-01	Specific Gravity	1.3518	1.3984
Matrix	Specific Gravity (Average)	1.3751	
LIQUID			
Sample			
STD			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
BA001	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst			
knt	Specific Gravity = $[(W2-W1) \cdot 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} \cdot 1.000 \text{ g/mL}]$		
Date			
04/24/96	v RESULT v		
	Specific Gravity Average =	1.375	

Data Entry by:	RTS	Date:	04/25/96
Approved by:	RW Schmechel	Date:	4/26/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-184, REV. 1

SPECIFIC GRAVITY : LA-510-112 (C-3)

		SAMPLE	REPLICATE
SAMPLE	Gross Weight (W2)	2.0275	
Work List	Tare Weight (W1)	1.8432	
7984	Weight of Solution (W2-W1)	0.1843	0
Test Code	Volume of Solution μ L	150.1700	
S[G-01	Specific Gravity	1.2273	NA
Matrix			
LIQUID			
Sample #			
S96T001785			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
BA001	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst			
knt	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
Date			
04/24/96	v RESULT v		
Time	Specific Gravity =	1.227	

Data Entry by:	RTS	Date:	04/25/96
Approved by:	RW Schroeder	Date:	4/26/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-184, REV. |

SPECIFIC GRAVITY : LA-510-112 (C-3)

		SAMPLE	REPLICATE
SAMPLE	Gross Weight (W2)	2.0525	
Worklist	Tare Weight (W1)	1.8684	
7984	Weight of Solution (W2-W1)	0.1841	0
Test Code	Volume of Solution μ L	150.1700	
SG-01	Specific Gravity	1.2259	NA
Matrix			
LIQUID			
Sample			
S96T001785/DUP			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
BA001	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst			
knt	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
Date	v RESULT v		
04/24/96	Specific Gravity =	1.226	

Data Entry by:	RTS	Date:	04/25/96
Approved by:	Rw. Schroeder	Date:	4/26/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-184, REV. /

SPECIFIC GRAVITY : LA-510-112 (C-3)

		SAMPLE	REPLICATE
SAMPLE	Gross Weight (W2)	2.1102	
Work List	Tare Weight (W1)	1.9224	
7984	Weight of Solution (W2-W1)	0.1878	0
Test Code	Volume of Solution μ L	150.1700	
S[G-01	Specific Gravity	1.2506	NA
Mark			
LIQUID			
Sampler			
S96T001790			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
BA001	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst			
knt	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L}/\text{mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g}/\text{mL}]$		
Date			
04/24/96	v RESULT v		
File	Specific Gravity =	1.251	

Data Entry by:	<i>RTS</i>	Date:	04/25/96
Approved by:	<i>Rw. Schroeder</i>	Date:	4/26/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-184, REV. I

SPECIFIC GRAVITY : LA-510-112 (C-3)

		SAMPLE	REPLICATE
SAMPLE	Gross Weight (W2)	2.0413	
Worklist	Tare Weight (W1)	1.8555	
7984	Weight of Solution (W2-W1)	0.1858	0
Test Code	Volume of Solution μ L	150.1700	
SIG-01	Specific Gravity	1.2373	NA
Matrix			
LIQUID			
Sample			
S96T001790/DUP			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
BA001	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst			
knt	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
DATE			
04/24/96	v RESULT v		
Time	Specific Gravity =	1.237	

Data Entry by:	RTS	Date:	04/25/96
Approved by:	R. W. Schroeder	Date:	4/26/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-184, REV. /

SPECIFIC GRAVITY : LA-510-112 (C-3)

		SAMPLE	REPLICATE
SAMPLE	Gross Weight (W2)	2.0684	
Work List	Tare Weight (W1)	1.9133	
7984	Weight of Solution (W2-W1)	0.1551	0
Test Code	Volume of Solution μ L	150.1700	
SG-01	Specific Gravity	1.0328	NA
Matrix			
LIQUID			
Sample #			
S96T001865			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
BA001	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst			
knt	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
Date			
04/24/96	v RESULT v		
Time	Specific Gravity =	1.033	

Data Entry by:	<i>RTS</i>	Date:	04/25/96
Approved by:	<i>Rui Schneider</i>	Date:	4/26/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-184, REV. 1

SPECIFIC GRAVITY : LA-510-112 (C-3)

		SAMPLE	REPLICATE
SAMPLE	Gross Weight (W2)	1.9539	
Wt. of vial + cap + cotton	Tare Weight (W1)	1.7996	
7984	Weight of Solution (W2-W1)	0.1543	0
Volume of Solution μ L		150.1700	
SG-01	Specific Gravity	1.0275	NA
Match			
LIQUID			
Sample			
S96T001865/DUP			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
BA001	Tare Weight (W1) = Wt. of vial + cap + cotton		
knt	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
Date			
04/24/96	∇ RESULT ∇		
Time	Specific Gravity =	1.028	

Data Entry by:	RTS	Date:	04/25/96
Approved by:	BW Schreder	Date:	4/26/96

LABCORE Data Entry Template for Worklist#

8440

Analyst: ADP Instrument: BA001 Book # 133N16A

Method: LA-510-112 Rev/Mod C-3

Worklist Comment: U-107 SPG. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			SPG-01	LIQUID	<u>1.40</u>	<u>1.380</u>	<u>1.371</u>	RWS 5/14/96
96000422	U-107	2 SAMPLE	S96T002140	0	SPG-01	LIQUID	<u>N/A</u>	<u>1.470</u>	<u>0.01</u>	Sp.G.
96000422	U-107	3 DUP	S96T002140	0	SPG-01	LIQUID	<u>1.470</u>	<u>1.392</u>	<u>N/A</u>	Sp.G.
96000422	U-107	4 SAMPLE	S96T002141	0	SPG-01	LIQUID	<u>N/A</u>	<u>1.474</u>	<u>0.01</u>	Sp.G.
96000422	U-107	5 DUP	S96T002141	0	SPG-01	LIQUID	<u>1.474</u>	<u>1.412</u>	<u>N/A</u>	Sp.G.
96000422	U-107	6 SAMPLE	S96T002142	0	SPG-01	LIQUID	<u>N/A</u>	<u>1.665</u>	<u>0.01</u>	Sp.G.
96000422	U-107	7 DUP	S96T002142	0	SPG-01	LIQUID	<u>1.665</u>	<u>1.373</u>	<u>N/A</u>	Sp.G.

Final page for worklist #

8440

See Attached
Analyst Signature Date

Ediel 5-14-96
Analyst Signature Date

Ediel & approved Raj Schuch
5/14/96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8440

Analyst: ADP Instrument: BA001 Book # 133N164

Method: LA-510-112 Rev/Mod C-3

Worklist Comment: U-107 SPG. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			SPG-01	LIQUID		<u>1.380</u>	<u>N/A</u>	Sp.G.
96000422	U-107	2 SAMPLE	S96T002140	0	SPG-01	LIQUID	<u>N/A</u>	<u>1.470</u>		Sp.G.
96000422	U-107	3 SAMPLE	S96T002141	0	SPG-01	LIQUID	<u>N/A</u>			Sp.G.
96000422	U-107	4 SAMPLE	S96T002142	0	SPG-01	LIQUID	<u>N/A</u>			Sp.G.

Final page for worklist #

8440

Adrian P. Smith
Analyst Signature Date 5-10-96

Analyst Signature Date

Data Entry Comments:

4266

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-184, REV. 1

SPECIFIC GRAVITY : LA-510-112 (C-3)

		Standard	STANDARD
Standard	Gross Weight (W2)	1.9802	2.0369
	Tare Weight (W1)	1.8428	1.8997
8440	Weight of Solution (W2-W1)	0.1374	0.1372
	Volume of Solution μL	100.1200	100.1200
SpG-01	Specific Gravity	1.3724	1.3704
	Specific Gravity (Average)	1.3714	
LIQUID			
133N16A			
BA001	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
	Tare Weight (W1) = Wt. of vial + cap + cotton		
AD Purinton	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
05/10/96	v RESULT v		
	Specific Gravity Average =	1.371	

Data Entry by:	RWS	Date:	05/14/96
Approved by:	RW Schwardt	Date:	5/14/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-184, REV. I

SPECIFIC GRAVITY : LA-510-112 (C-3)

		SAMPLE	REPLICATE
SAMPLE	Gross Weight (W2)	2.0416	
Weight (W1)	Tare Weight (W1)	1.8944	
8440	Weight of Solution (W2-W1)	0.1472	0
Test Code	Volume of Solution μ L	100.1200	
SPG-01	Specific Gravity	1.4702	NA
Matrix			
LIQUID			
Sample			
S96T002140			
BA001	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
	Tare Weight (W1) = Wt. of vial + cap + cotton		
ADP	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
Date	v RESULT v		
05/10/96	Specific Gravity =	1.470	

Data Entry by:	<i>RWS</i>	Date:	05/14/96
Approved by:	<i>Rui Schmitt</i>	Date:	5/14/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-184, REV. 1

SPECIFIC GRAVITY : LA-510-112 (C-3)

		SAMPLE/DUP	REPLICATE
SAMPLE/DUP	Gross Weight (W2)	2.0434	
	Tare Weight (W1)	1.9040	
8440	Weight of Solution (W2-W1)	0.1394	0
	Volume of Solution μ L	100.1200	
SPG-01	Specific Gravity	1.3923	NA
Matrix			
LIQUID			
Sample			
S96T002140			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
BA001	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst			
ADP	Specific Gravity = $[(W2-W1) \times 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} \times 1.000 \text{ g/mL}]$		
05/10/96	∇ RESULT ∇		
	Specific Gravity =	1.392	

Data Entry by:	<i>RWS</i>	Date:	05/14/96
Approved by:	<i>RWS</i>	Date:	5/14/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-184, REV. 1

SPECIFIC GRAVITY : LA-510-112 (C-3)

		SAMPLE	REPLICATE
SAMPLE	Gross Weight (W2)	2.0161	
Worm LEP	Tare Weight (W1)	1.8685	
8440	Weight of Solution (W2-W1)	0.1476	0
Test Code	Volume of Solution µL	100.1200	
SPG-01	Specific Gravity	1.4742	NA
Water			
LIQUID			
Sample			
S96T002141			
Instructions for use	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
BA001	Tare Weight (W1) = Wt. of vial + cap + cotton		
Notes			
ADP	Specific Gravity = [(W2-W1) * 1000 µL/mL] / [Vol. of Solution µL * 1.000 g/mL]		
DATE			
05/10/96	✓ RESULT ✓		
Unit	Specific Gravity =	1.474	

Data Entry by:	<i>RWS</i>	Date:	05/14/96
Approved by:	<i>Paul Schneider</i>	Date:	5/14/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

SPECIFIC GRAVITY : LA-510-112 (C-3)

		SAMPLE/DUP	REPLICATE
SAMPLE/DUP	Gross Weight (W2)	2.0132	
Wt. of vial + cap + cotton	Tare Weight (W1)	1.8718	
8440	Weight of Solution (W2-W1)	0.1414	0
Test Code	Volume of Solution μ L	100.1200	
SPG-01	Specific Gravity	1.4123	NA
Matrix			
LIQUID			
Sample			
S96T002141			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
BA001	Tare Weight (W1) = Wt. of vial + cap + cotton		
ADP	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
Date			
05/10/96	v RESULT v		
	Specific Gravity =	1.412	

Data Entry by:	<i>DW S</i>	Date:	05/14/96
Approved by:	<i>DW Schneider</i>	Date:	5/14/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

SPECIFIC GRAVITY : LA-510-112 (C-3)

		SAMPLE	REPLICATE
SAMPLE	Gross Weight (W2)	2.0296	
Work list	Tare Weight (W1)	1.8629	
8440	Weight of Solution (W2-W1)	0.1667	0
Test code	Volume of Solution μ L	100.1200	
SPG-01	Specific Gravity	1.6650	NA
Vial			
LIQUID			
Sample			
S96T002142			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
BA001	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analysis	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L}/\text{mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g}/\text{mL}]$		
ADP			
05/10/96	v RESULT v		
Time	Specific Gravity =	1.665	

Data Entry by:	<i>PW Schwedler</i>	Date:	05/14/96
Approved by:	<i>PW Schwedler</i>	Date:	5/14/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

SPECIFIC GRAVITY : LA-510-112 (C-3)

SAMPLE/DUP	Gross Weight (W2)	SAMPLE/DUP	REPLICATE
Wt. of vial + cap	2.0004		
Tare Weight (W1)	1.8629		
8440 Weight of Solution (W2-W1)	0.1375		0
Volume of Solution μL	100.1200		
SPG-01 Specific Gravity	1.3734		NA
LIQUID			
Sample			
S96T002142			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
BA001	Tare Weight (W1) = Wt. of vial + cap + cotton		
ADP	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
05/10/96	∇ RESULT ∇		
	Specific Gravity =	1.373	

Data Entry by:	<i>RWS</i>	Date:	05/14/96
Approved by:	<i>Rui Schneider</i>	Date:	5/14/96

LABCORE Data Entry Template for Worklist#

8729

Analyst: R/K Instrument: BA001 Book # 133116 AMethod: LA-510-112 Rev/Mod C-3Worklist Comment: U-107 & HERTING FOR SPG-01 RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			SPG-01	LIQUID	<u>1.39755</u>	<u>1.362</u>	<u>N/A</u>	Sp.G.
96000583	HERTING	2 SAMPLE	S96R000357	0	SPG-01	LIQUID	<u>N/A</u>	<u>1.160</u>	<u>0.01</u>	Sp.G.
96000583	HERTING	3 DUP	S96R000357	0	SPG-01	LIQUID	<u>1.160</u>	<u>1.1780</u>	<u>N/A</u>	Sp.G.
96000126	U-107	4 SAMPLE	S96T001121	0	SPG-01	LIQUID	<u>N/A</u>	<u>1.026</u>	<u>0.01</u>	Sp.G.
96000126	U-107	5 DUP	S96T001121	0	SPG-01	LIQUID	<u>1.026</u>	<u>1.009</u>	<u>N/A</u>	Sp.G.

Final page for worklist #

8729

Rob King 5/30/96
Analyst Signature Date

Ray Hammett 5-30-96
Analyst Signature Date

Approved Ray Schmechel
6/03/96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

SPECIFIC GRAVITY : LA-510-112 (C-3)

Type		STANDARD	STANDARD
STANDARD	Gross Weight (W2)	2.0136	2.0183
Work List	Tare Weight (W1)	1.8083	1.8144
8729	Weight of Solution (W2-W1)	0.2053	0.2039
Test Code	Volume of Solution μ L	150.1700	150.1700
SPG-01	Specific Gravity	1.3671	1.3578
Matrix	Specific Gravity (Average)	1.3625	
LIQUID			
Sample #			
STD			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
BA001	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst			
RWK	Specific Gravity = $[(W2-W1) \cdot 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} \cdot 1.000 \text{ g/mL}]$		
Date			
05/30/96	v RESULT v		
Time	Specific Gravity Average =	1.362	
04:15 PM			

Data Entry by: <i>Deey Hammett</i>	Date: 05/30/96
Approved by: <i>RW Schneider</i>	Date: 6/3/96

~~WHC-SD-WM-DP-184, REV. 1.1~~ *VS*

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-184, REV. 1

SPECIFIC GRAVITY : LA-510-112 (C-3)

Type		SAMPLE	REPLICATE
SAMPLE	Gross Weight (W2)	2.0448	
Work List	Tare Weight (W1)	1.8907	
8729	Weight of Solution (W2-W1)	0.1541	0
Test Code	Volume of Solution μ L	150.1700	
SPG-01	Specific Gravity	1.0262	NA
Matrix			
LIQUID			
Sample #			
S96R001121			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
BA001	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst			
RWK	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
Date			
05/30/96	$\checkmark$ RESULT $\checkmark$		
Time	Specific Gravity =	1.026	
04:15 PM			

Data Entry by: <i>[Signature]</i>	Date: 05/30/96
Approved by: <i>[Signature]</i>	Date: 6/5/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-184, REV. 1

SPECIFIC GRAVITY : LA-510-112 (C-3)

Type		DUPLICATE	REPLICATE
DUPLICATE	Gross Weight (W2)	2.0195	
Work List	Tare Weight (W1)	1.8680	
8729	Weight of Solution (W2-W1)	0.1515	0
Test Code	Volume of Solution μ L	150.1700	
SPG-01	Specific Gravity	1.0089	NA
Matrix			
LIQUID			
Sample #			
S96R001121 DUP			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
BA001	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst			
RWK	Specific Gravity = $[(W2-W1) \times 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} \times 1.000 \text{ g/mL}]$		
Date			
05/30/96	$\checkmark$ RESULT $\checkmark$		
Time	Specific Gravity =	1.009	
04:15 PM			

Data Entry by: <i>Dan Hammond</i>	Date: 05/30/96
Approved by: <i>RW Schorch</i>	Date: 5/03/96
Form 510112L1 Rev. 1.1	Page 1 of 1

THE FOLLOWING ANALYSES WERE RERUN AND INCLUDED IN THE DATA PACKAGE, BUT THE RESULTS HAVE NOT BEEN REPORTED IN THE FINAL SUMMARY REPORTS.

LABCORE Data Entry Template for Worklist#

6606

Analyst: ASD Instrument: BA001 Book # 133 N 16-A

Method: LA-510-112 Rev/Mod C-3

Worklist Comment: AN107,U105,& U107 SPG. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			SPG-01	LIQUID	<u>1.3976</u>	<u>1.437</u>	<u>N/A</u>	Sp.G.
96000108	AN-107 GRAB	2 SAMPLE	S96T000722 0		SPG-01	LIQUID	<u>N/A</u>	<u>.979</u>	<u>0.01</u>	Sp.G.
96000108	AN-107 GRAB	3 DUP.	S96T000722 0		SPG-01	LIQUID	<u>.974</u>	<u>1.028</u>	<u>N/A</u>	Sp.G.
96000092	U-105 (R)	4 SAMPLE	S96T001018 0		SPG-01	LIQUID	<u>N/A</u>	<u>.990</u>	<u>0.01</u>	Sp.G.
96000092	U-105 (R)	5 DUP	S96T001018 0		SPG-01	LIQUID	<u>.990</u>	<u>.987</u>	<u>N/A</u>	Sp.G.
96000126	U-107	6 SAMPLE	S96T001106 0		SPG-01	LIQUID	<u>N/A</u>	<u>1.000</u>	<u>0.01</u>	Sp.G.
96000126	U-107	7 DUP	S96T001106 0		SPG-01	LIQUID	<u>1.000</u>	<u>0.982</u>	<u>N/A</u>	Sp.G. <i>RWS 4-1-96</i>
96000126	U-107	8 SAMPLE	S96T001108 0		SPG-01	LIQUID	<u>N/A</u>	<u>1.047</u>	<u>0.01</u>	Sp.G.
96000126	U-107	9 DUP	S96T001108 0		SPG-01	LIQUID	<u>1.047</u>	<u>1.064</u>	<u>N/A</u>	Sp.G.
96000126	U-107	10 SAMPLE	S96T001109 0		SPG-01	LIQUID	<u>N/A</u>	<u>1.058</u>	<u>0.01</u>	Sp.G.
96000126	U-107	11 DUP	S96T001109 0		SPG-01	LIQUID	<u>1.058</u>	<u>1.066</u>	<u>N/A</u>	Sp.G.

Final page for worklist #

6606

Anthony P. Pantoja
Analyst Signature Date 3-28-96

RH
Analyst Signature Date 3/29/96

DATA
NOT USED
IN PACKAGE

12630
12631
Reviewed & rejected
RWS Schroeder
4-1-96

Data Entry Comments:

Results rejected due to batch LCS failure.
RWS 4-1-96

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SD

0.0000

1.0000

2.0000

.1449

103.5%

1.0000

2.0000

.1429

102.1%

S96T000722 SAM

1.0000

1.0000

0.0980

S96T000722 Dup

1.0000

2.0000

0.0979

CAL

END

S96T001018 SAM

1.0000

1.0000

0.0991

S96T001018 Dup

1.0000

2.0000

0.0988

WHC-SD-WM-OP-164, REV. 1

S96T001106 SAM

1.0000

1.0000

0.1001

S96T001106 Dup

1.0000

0.0983

S96T001108 SAM

1.0000

1.0000

0.1048

S96T001108 Dup

1.0000

2.0000

0.1065

S96T001109 SAM

1.0000

2.0000

0.1059

S96T001109 Dup

1.0000

2.0000

0.1067

UNRECOVERABLE COPY

DATA
NOT USED
IN PACKAGE

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-184, REV. 1

SPECIFIC GRAVITY : LA-510-112 (C-3)

		STANDARD	STANDARD
STANDARD	Gross Weight (W2)	2.0097	2.0265
	Tare Weight (W1)	1.8648	1.8836
6606	Weight of Solution (W2-W1)	0.1449	0.1429
	Volume of Solution μL	100.1200	100.1200
SPG-01	Specific Gravity	1.4473	1.4273
	Specific Gravity (Average)	1.4373	

LIQUID

STD/133N16A

Gross Weight (W2) = Wt. of vial + cap + cotton + solution

Tare Weight (W1) = Wt. of vial + cap + cotton

ANTHONY PURINTON Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$

03/28/96

v RESULT v

Specific Gravity Average =

1.437

DATA
NOT USED
IN PACKAGE

Data Entry by:	Date:	03/29/96
Approved by:	Date:	

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-184, REV. 1

SPECIFIC GRAVITY : LA-510-112 (C-3)

		SAMPLE	REPLICATE
SAMPLE 6606 SPG-01	Gross Weight (W2)	1.9751	
	Tare Weight (W1)	1.8771	
	Weight of Solution (W2-W1)	0.098	0
	Volume of Solution μ L	100.1200	
	Specific Gravity	0.9788	NA
LIQUID			
S96T000722			
Gross Weight (W2) = Wt. of vial + cap + cotton + solution			
Tare Weight (W1) = Wt. of vial + cap + cotton			
ANTHONY PURINTON		Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$	
03/28/96	v RESULT v		
	Specific Gravity =	0.979	

DATA
NOT USED
IN PACKAGE

Data Entry by:	Date:	03/29/96
Approved by:	Date:	

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-184, REV. /

SPECIFIC GRAVITY : LA-510-112 (C-3)

SAMPLE/DUP	Gross Weight (W2)	SAMPLE/DUP	REPLICATE
6606	Tare Weight (W1)	2.0049	
	Weight of Solution (W2-W1)	1.9020	
	Volume of Solution μL	0.1029	0
SPG-01	Specific Gravity	100.1200	
		1.0278	NA

LIQUID	
S96T000722	
	Gross Weight (W2) = Wt. of vial + cap + cotton + solution
	Tare Weight (W1) = Wt. of vial + cap + cotton
ANTHONY PURINTON	Specific Gravity = $[(W2-W1) \cdot 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} \cdot 1.000 \text{ g/mL}]$
03/28/96	$\checkmark$ RESULT $\checkmark$
	Specific Gravity = 1.028

DATA
NOT USED
IN PACKAGE

Data Entry by:	Date:	03/29/96
Approved by:	Date:	

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-184, REV. I

SPECIFIC GRAVITY : LA-510-112 (C-3)

		SAMPLE	REPLICATE
SAMPLE	Gross Weight (W2)	1.9831	
	Tare Weight (W1)	1.8840	
6606	Weight of Solution (W2-W1)	0.0991	0
	Volume of Solution μL	100.1200	
SPG-01	Specific Gravity	0.9898	NA
LIQUID			
S96T001018			
	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
	Tare Weight (W1) = Wt. of vial + cap + cotton		
ANTHONY PURINTON	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L}/\text{mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g}/\text{mL}]$		
03/28/96	v RESULT v		
	Specific Gravity =	0.990	

DATA
NOT USED
IN PACKAGE

Data Entry by:	Date:	03/29/96
Approved by:	Date:	

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-184, REV. I

SPECIFIC GRAVITY : LA-510-112 (C-3)

		SAMPLE/DUP	REPLICATE
SAMPLE/DUP Wt 6606 e SPG-01 Wt LIQUID Sample S96T001018 Instrum An ANTHONY PURINTON 03/28/96 Time	Gross Weight (W2)	2.0079	
	Tare Weight (W1)	1.9091	
	Weight of Solution (W2-W1)	0.0988	0
	Volume of Solution μ L	100.1200	
	Specific Gravity	0.9868	NA
Gross Weight (W2) = Wt. of vial + cap + cotton + solution Tare Weight (W1) = Wt. of vial + cap + cotton Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$			
v RESULT v			
Specific Gravity =		0.987	

DATA
NOT USED
IN PACKAGE

Data Entry by:	Date:	03/29/96
Approved by:	Date:	

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-184, REV. |

SPECIFIC GRAVITY : LA-510-112 (C-3)

		SAMPLE	REPLICATE
SAMPLE	Gross Weight (W2)	1.9809	
	Tare Weight (W1)	1.8808	
6606	Weight of Solution (W2-W1)	0.1001	0
	Volume of Solution μL	100.1200	
SPG-01	Specific Gravity	0.9998	NA
LIQUID			
S96T001106			
Gross Weight (W2) = Wt. of vial + cap + cotton + solution			
Tare Weight (W1) = Wt. of vial + cap + cotton			
Specific Gravity = $[(W2-W1) * 1000 \mu\text{L}/\text{mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$			
v RESULT v			
Specific Gravity =		1.000	

DATA
NOT USED
IN PACKAGE

Data Entry by:	Date:	03/29/96
Approved by:	Date:	

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-184, REV. 1

SPECIFIC GRAVITY : LA-510-112 (C-3)

		SAMPLE/DUP	REPLICATE
SAMPLE/DUP	Gross Weight (W2)	1.8908	
6606	Tare Weight (W1)	1.7925	
	Weight of Solution (W2-W1)	0.0983	0
	Volume of Solution μ L	100.1200	
SPG-01	Specific Gravity	0.9818	NA
LIQUID			
S96T001106			
Gross Weight (W2) = Wt. of vial + cap + cotton + solution			
Tare Weight (W1) = Wt. of vial + cap + cotton			
Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$			
v RESULT v			
Specific Gravity =		0.982	

DATA NOT USED IN PACKAGE

Data Entry by:	Date:	03/29/96
Approved by:	Date:	

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-184, REV. 1

SPECIFIC GRAVITY : LA-510-112 (C-3)

		SAMPLE	REPLICATE
SAMPLE	Gross Weight (W2)	1.9392	
	Tare Weight (W1)	1.8344	
6606	Weight of Solution (W2-W1)	0.1048	0
	Volume of Solution μ L	100.1200	
SPG-01	Specific Gravity	1.0467	NA

LIQUID

S96T001108

Gross Weight (W2) = Wt. of vial + cap + cotton + solution

Tare Weight (W1) = Wt. of vial + cap + cotton

ANTHONY PURINTON

Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$

03/28/96

v RESULT v

Specific Gravity = 1.047

DATA
NOT USED
IN PACKAGE

Data Entry by:

Date:

03/29/96

Approved by:

Date:

Form 510112L1 Rev. 1.1

201

Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-184, REV. |

SPECIFIC GRAVITY : LA-510-112 (C-3)

		SAMPLE/DUP	REPLICATE
SAMPLE/DUP	Gross Weight (W2)	2.0341	
	Tare Weight (W1)	1.9276	
6606	Weight of Solution (W2-W1)	0.1065	0
	Volume of Solution μ L	100.1200	
SPG-01	Specific Gravity	1.0637	NA
LIQUID			
S96T001108			
Gross Weight (W2) = Wt. of vial + cap + cotton + solution			
Tare Weight (W1) = Wt. of vial + cap + cotton			
ANTHONY PURINTON Specific Gravity = $[(W2-W1) * 1000 \mu\text{L}/\text{mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g}/\text{mL}]$			
03/28/96	v RESULT v		
	Specific Gravity =	1.064	

DATA
NOT USED
IN PACKAGE

Data Entry by:	Date:	03/29/96
Approved by:	Date:	

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-184, REV. I

SPECIFIC GRAVITY : LA-510-112 (C-3)

		SAMPLE	REPLICATE
SAMPLE 6606 SPG-01 LIQUID S96T001109 ANTHONY PURINTON 03/28/96	Gross Weight (W2)	2.0274	
	Tare Weight (W1)	1.9215	
	Weight of Solution (W2-W1)	0.1059	0
	Volume of Solution μ L	100.1200	
	Specific Gravity	1.0577	NA
Gross Weight (W2) = Wt. of vial + cap + cotton + solution Tare Weight (W1) = Wt. of vial + cap + cotton Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L}] = 1.058$			
v RESULT v			
Specific Gravity =		1.058	

 DATA
 NOT USED
 IN PROGRESS

Data Entry by:	Date:	03/29/96
Approved by:	Date:	

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-184, REV.1

SPECIFIC GRAVITY : LA-510-112 (C-3)

		SAMPLE/DUP	REPLICATE
SAMPLE/DUP	Gross Weight (W2)	2.0240	
	Tare Weight (W1)	1.9173	
6606	Weight of Solution (W2-W1)	0.1067	0
	Volume of Solution μL	100.1200	
SPG-01	Specific Gravity	1.0657	NA
LIQUID			
S96T001109			
Gross Weight (W2) = Wt. of vial + cap + cotton + solution			
Tare Weight (W1) = Wt. of vial + cap + cotton			
Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$			
03/28/96	v RESULT v		
	Specific Gravity =	1.066	

DATA
NOT USED
IN PACKAGE

Data Entry by:	Date:	03/29/96
Approved by:	Date:	

WHC QCHISTORY TABLE EDIT SCREEN

Sample# Group#		Assc Y Sample ID Customer							
Worklist# 6606		WL Comment AN107,U105,& U107 SPG. RCJ							
Test	Matrx	Type	Actual	Found	Yield	STAT	AnaIDate		User
SPG-01	LIQUI	STD	1.3976	1.437	102.8191	NEW	03/28/96	0852	adp
SPG-01	LIQUI	DUP	.979	1.028	4.8829	NEW	03/28/96	0852	adp
SPG-01	LIQUI	DUP	.990	.987	0.3035	NEW	03/28/96	0852	adp
SPG-01	LIQUI	DUP	1.000	9.82	63.0314	NEW	03/28/96	0852	adp
SPG-01	LIQUI	DUP	1.047	1.064	1.6106	NEW	03/28/96	0852	adp
SPG-01	LIQUI	DUP	1.058	1.066	0.7533	NEW	03/28/96	0852	adp

Save(F12) End(F3)

Incorrect

Rw Schueden 4-1-96

DATA
NOT USED
IN PRODUCTION

WHC QCHISTORY TABLE EDIT SCREEN

Sample# Group#		Assc Y Sample ID Customer						
Worklist# 6606		WL Comment AN107,U105,& U107 SPG. RCJ						
Test	Matrx	Type	Actual	Found	Yield	STAT	AnalDate	User
SPG-01	LIQUI	STD	1.3976	1.437	102.8191	NEW	03/28/96 0852	adp
SPG-01	LIQUI	DUP	.979	1.028	4.8829	NEW	03/28/96 0852	adp
SPG-01	LIQUI	DUP	.990	.987	0.3035	NEW	03/28/96 0852	adp
SPG-01	LIQUI	DUP	1.000	1.982	1.8163	NEW	03/28/96 0852	adp
SPG-01	LIQUI	DUP	1.047	1.064	1.6106	NEW	03/28/96 0852	adp
SPG-01	LIQUI	DUP	1.058	1.066	0.7533	NEW	03/28/96 0852	adp

Save(F12) End(F3)

Correct

RWS

4-1-96

RWS
4-1-96

DATA
NOT USED
IN PACKAGE

LABCORE Data Entry Template for Worklist#

6687

Analyst: R. G Instrument: PH01 Book # 79N8

Method: LA-211-102 Rev/Mod C-0

Worklist Comment: U-107 FOR OH- RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK			OH-01	LIQUID	<u>1</u>	<u><42</u> 2500	<u>RWS</u> N/A	<u>4/16/96</u> ug/mL
		2 STD			OH-01	LIQUID	<u>16640</u>	<u>1.60^{EC4}</u>	N/A	ug/mL
96000085	U-107	3 SAMPLE	S96T000665	0	OH-01	LIQUID	<u>N/A</u>	<u>2.75^{EC4}</u>	<u>2.50^{EC3}</u>	ug/mL
96000085	U-107	4 DUP	S96T000665	0	OH-01	LIQUID	<u>2.75^{EC4}</u>	<u>2.91^{EC4}</u>	N/A	ug/mL
96000085	U-107	5 SAMPLE	S96T000682	0	OH-01	LIQUID	<u>N/A</u>	<u>2.50^{EC4}</u>	<u>2.50^{EC3}</u>	ug/mL
96000085	U-107	6 DUP	S96T000682	0	OH-01	LIQUID	<u>2.50^{EC4}</u>	<u>2.47^{EC4}</u>	N/A	ug/mL

Final page for worklist #

6687

Rae Ann Green 4-15-96
Analyst Signature Date
Rae Ann Green 4-16-96

R. Jones 4-16-96
Analyst Signature Date

Reviewed & edited
Rw Schroeder 4/16/96

Data Entry Comments:

.2005 M HNO₃ Titrant

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

calibration data
 date 96-04-16
 pH(S) 1 7.00
 pH(S) 2 10.00
 t.cal. 24.0 °C
 slope(rel) .977
 U(as) -12.5 mV
 electr. input 1
 =====

Blank

date 96-04-16 time 21:16
 GET pH 12 # 301
 Id.#1 0000000
 Id.#2 .2005
 pH(init) 4.29
 V/ml pH
 EP1 .011 3.55
 stop volt. reached
 =====

date 96-04-16 time 21:17
 GET pH 12 # 301
 .10ml/div dPH=1/div
 start V .000 ml

OH (AUTO) : LA-211-102 (C-0)

OH (AUTO) : LA-211-102 (C-0)		Blank
Blank	Sample Size (mL) SS	3.000
Work List	Concentration of HNO3 (Molarity)	0.2005
6687	HNO3 Titrant at OH end-point in mL	0.000
Test Code	Dilution Factor DF	1
OH-01	Concentration of OH in Sample (Molarity)	0.00E+00
Matrix	OH in Sample in µg/mL (PPM)	0.00E+00
Liquid		
Sample	Detection Limit = 125µg / SS * DF	
BLNK		
Instrument Code	Detection Limit (µg/mL)	4.17E+01
Analysis	OH Molarity = ((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
RAGreen	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
04/16/96		
Time		
		Blank
	Concentration of OH in Sample (Molarity)	0.00E+00
	OH in Sample in µg/mL (PPM)	<42
The Result is < Detection Limit		

Data Entry by: *PWS* Date: 04/16/96
 Approved by: *D.W. Schmeck* Date: 4/16/96
 Form 211102_1 Rev. 1.3 Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

SFD .050ml

date 96-04-16 time 21:29
 GET pH 12 # 303
 Id.#1 0000000
 Id.#2 .2005
 pH(init) 11.67
 V/ml pH
 EP1 .234 9.82
 EP2 .384 6.59
 stop volt. reached
 =====

date 96-04-16 time 21:35
 GET pH 12 # 303
 .10ml/div dppH=1/div
 start V .000 ml

OH (AUTO) : LA-211-102 (C-0)

		STANDARD
STANDARD	Sample Size (mL) SS	0.050
Worklist	Concentration of HNO3 (Molarity)	0.2005
6687	HNO3 Titrant at OH end-point in mL	0.234
Test Code	Dilution Factor DF	1
OH-01	Concentration of OH in Sample (Molarity)	9.38E-01
Matrix	OH in Sample in µg/mL (PPM)	1.60E+04
LIQUID		
Sample#		
79N8		
Instrument Code		
Analyst	OH Molarity = ((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
RAG	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
Date	04/15/96	
Time	03:15 AM	
		STANDARD
	Concentration of OH in Sample (Molarity)	9.38E-01
	OH in Sample in µg/mL (PPM)	1.60E+04

Data Entry by: *[Signature]* Date: 04/16/96
 Approved by: *[Signature]* Date: 4/16/96
 Form 211102_1 Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

date 96-04-17 time 01:22
 GET pH 12 # 304
 .10ml/div dRH=1/div
 start V .000 ml

date 96-04-17 time 01:22
 GET pH 12 # 304
 Id.#1 000665
 Id.#2 .2005
 pH(init) 11.99
 V/ml pH
 EP1 .404 10.31
 EP2 .545 9.35
 EP3 .661 8.67
 EP4 .683 7.63
 EP5 .902 5.44
 stop V reached

OH (AUTO) : LA-211-102 (C-0)

		SAMPLE
type	Sample Size (mL) SS	0.050
SAMPLE	Concentration of HNO3 (Molarity)	0.2005
WorkList	HNO3 Titrant at OH end-point in mL	0.404
6687	Dilution Factor DF	1
testCode	Concentration of OH in Sample (Molarity)	1.62E+00
OH-01	OH in Sample in µg/mL (PPM)	2.75E+04
Matrix		
LIQUID		
Sample#	Detection Limit = 125µg / SS * DF	
S96T000665		
Instrument Code	Detection Limit (µg/mL)	2.50E+03
Analyst	OH Molarity = ((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
RAG		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/((1000mL/L))	
04/15/96		
Time		
03:15 AM		
		SAMPLE
	Concentration of OH in Sample (Molarity)	1.62E+00
	OH in Sample in µg/mL (PPM)	2.75E+04

Data Entry by: *[Signature]* Date: 04/16/96
 Approved by: *[Signature]* Date: 4/16/96
 Form 211102_1 Rev. 1.3 Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

date 96-04-17 time 01:35
 GET pH 12 # 305
 .10mL/div 4eH=1/div
 start V .000 ml

date 96-04-17 time 01:35
 GET pH 12 # 305
 Id.#1 000665
 Id.#2 .2005
 pH(init) 11.86
 V/ml pH
 EP1 .427 10.27
 EP2 .667 8.24
 EP3 .842 6.02
 EP4 .937 5.16
 stop V reached
 =====

OH (AUTO) : LA-211-102 (C-0)

		DUPLICATE
Sample Size (mL) SS		0.050
Concentration of HNO3 (Molarity)		0.2005
HNO3 Titrant at OH end-point in mL		0.427
Dilution Factor DF		1
Concentration of OH in Sample (Molarity)		1.71E+00
OH in Sample in µg/mL (PPM)		2.91E+04
Matrix		
LIQUID		
Sample #	Detection Limit = 125µg / SS * DF	
S96T000665DUP		
Recurrent Code	Detection Limit (µg/mL)	2.50E+03
Analyst	OH Molarity = ((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
RAG		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
04/15/96		
Time		
03:15 AM		
		DUPLICATE
Concentration of OH in Sample (Molarity)		1.71E+00
OH in Sample in µg/mL (PPM)		2.91E+04

Data Entry by: *[Signature]* Date: 04/16/96
 Approved by: *[Signature]* Date: 4/16/96
 Form 211102_1 Rev. 1.3 Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

date 96-04-17 time 03:05
GET pH 12 # 306
.10ml/div 4pH=1/div
start V .000 ml

date 96-04-17 time 01:49
GET pH 12 # 306
Id.#1 000682
Id.#2 .2005
pH(init) 11.87
W/ml pH
EP1 .367 10.24
EP2 .590 8.22
EP3 .647 7.55
EP4 .929 4.99
stop V reached
=====

OH (AUTO) : LA-211-102 (C-0)

		SAMPLE
Sample Size (mL) SS		0.050
Concentration of HNO3 (Molarity)		0.2005
HNO3 Titrant at OH end-point in mL		0.367
Dilution Factor DF		1
Concentration of OH in Sample (Molarity)		1.47E+00
OH in Sample in µg/mL (PPM)		2.50E+04

LIQUID	
Sample #	Detection Limit = 125µg / SS * DF
S96T000682	
Detection Code	Detection Limit (µg/mL)
	2.50E+03

Analyst	OH Molarity = ((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor
RAG	
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))
04/15/96	
Time	
03:15 AM	
	SAMPLE
Concentration of OH in Sample (Molarity)	1.47E+00
OH in Sample in µg/mL (PPM)	2.50E+04

Data Entry by: *[Signature]* Date: 04/16/96
Approved by: *[Signature]* Date: 4/16/96

WHC-SD-WM-DP-184, REV. I

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

date 96-04-17 time 03:22
GET pH 12 # 307
.10ml/div dSH=1/div
start V .000 ml

date 96-04-17 time 03:17
GET pH 12 # 307
Id.#1 000682
Id.#2 .2005
pH(init) 11.81
V/ml pH
EP1 .363 10.40
EP2 .604 7.98
EP3 .881 4.95
stop V reached
=====

OH (AUTO) : LA-211-102 (C-0)

		DUPLICATE
Type	Sample Size (mL) SS	0.050
DUPLICATE	Concentration of HNO3 (Molarity)	0.2005
Worklist	HNO3 Titrant at OH end-point in mL	0.363
6687	Dilution Factor DF	1
Test Code	Concentration of OH in Sample (Molarity)	1.46E+00
OH-01	OH in Sample in µg/mL (PPM)	2.47E+04
Matrix		
LIQUID		
Sample#	Detection Limit = 125µg / SS * DF	
S96T000682DUP		
Payment Code	Detection Limit (µg/mL)	2.50E+03
Analyst	OH Molarity = ((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
RAG		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
04/15/96		
Time		
03:15 AM		
	DUPLICATE	
	Concentration of OH in Sample (Molarity)	1.46E+00
	OH in Sample in µg/mL (PPM)	2.47E+04

Data Entry by: *[Signature]* Date: 04/16/96
Approved by: *[Signature]* Date: 4/16/96
Form 211102_1 Rev. 1.3 Page 1 of 1

LABCORE Data Entry Template for Worklist#

7581

Analyst: Ry Instrument: PH01 Book # 79N8

Method: LA-211-102 Rev/Mod C-0

Worklist Comment: U-107 OH'S RUN IN DUPLICATE. RCJ

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK				OH-01	LIQUID	<u>1</u>	<u>42</u>	<u>N/A</u>	ug/ml
		2	STD				OH-01	LIQUID	<u>1.664e⁴</u>	<u>1.60e⁴</u>	<u>N/A</u>	ug/ml
96000126	U-107	3	SAMPLE	S96T001110	0		OH-01	LIQUID	<u>N/A</u>	<u>3.58e²</u>	<u>6.25e²</u>	ug/ml
96000126	U-107	4	DUP	S96T001110	0		OH-01	LIQUID	<u>4.25</u>	<u>N/A</u>	<u>N/A</u>	ug/ml
96000126	U-107	5	SAMPLE	S96T001119	0		OH-01	LIQUID	<u>N/A</u>	<u>2.59e⁴</u>	<u>1.25e³</u>	ug/ml
96000126	U-107	6	DUP	S96T001119	0		OH-01	LIQUID	<u>2.59e⁴</u>	<u>2.56e⁴</u>	<u>N/A</u>	ug/ml
96000126	U-107	7	SAMPLE	S96T001120	0		OH-01	LIQUID	<u>N/A</u>	<u>6.14e³</u>	<u>1.25e³</u>	ug/ml
96000126	U-107	8	DUP	S96T001120	0		OH-01	LIQUID	<u>6.14e³</u>	<u>6.24e³</u>	<u>N/A</u>	ug/ml
96000126	U-107	9	SAMPLE	S96T001121	0		OH-01	LIQUID	<u>N/A</u>	<u>4.60e³</u>	<u>1.25e³</u>	ug/ml
96000126	U-107	10	DUP	S96T001121	0		OH-01	LIQUID	<u>4.60e³</u>	<u>4.43e³</u>	<u>N/A</u>	ug/ml

Final page for worklist #

7581

Rae Ann Green 4-14-96
Analyst Signature Date

Rae Ann Green 4/15/96
Analyst Signature Date

Reviewed & Edited Rae Ann Green
4/16/96

2005 M HNO₃ Titrant

Data Entry Comments:

Sample # S96T001110 used, all sample in process
used max sample size available of 200ml - unable to run duplicate

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Blank

```

date 96-04-15 time 20:51
GET pH # 278
Id.#1 0.012
Id.#2 0.005
pH(init) 5.75
      V/ml      pH
EP1      .006      4.71
stop volt.reached

```

Calibration

```

calibration data
date      96-04-15
pH(S) 1   7.00
pH(S) 2   10.00
t.cal.     24.0 °C
slope(rel) .988
U(as)      -5.4 mV
electr. input 1

```

BEST AVAILABLE COPY

OH (AUTO) : LA-211-102 (C-G)		BLANK
Type	Sample Size (mL) SS	3.000
BLANK	Concentration of HNO3 (Molarity)	0.2005
Work List	HNO3 Titrant at OH end-point in mL	0.006
7581	Dilution Factor DF	1
Test Code	Concentration of OH in Sample (Molarity)	4.01E-04
OH-01	OH in Sample in µg/mL (PPM)	6.82E+00
Matrix		
LIQUID		
Sample #	Detection Limit = 125µg / SS * DF	
79N8		
Instrument Code	Detection Limit (µg/mL)	4.17E+01
Analyst	OH Molarity = ((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
RA GREEN		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
04/14/96		
Time		BLANK
	Concentration of OH in Sample (Molarity)	4.01E-04
	OH in Sample in µg/mL (PPM)	<42
	The Result is < Detection Limit	

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

date 96-04-15 time 22:46
 GET pH 12 # 283
 Id.#1 000000
 Id.#2 .2005
 pH(init) 11.75
 V/ml pH
 EP1 .234 9.85
 EP2 .307 6.63
 EP3 .456 3.17
 stop volt.reached
 =====

date 96-04-15 time 23:01
 GET pH 12 # 283
 .10ml/div dPH=1/div
 start V .000 ml

BEST AVAILABLE COPY

OH (AUTO) : LA-211-102 (C-0)

		STANDARD
Sample Type	Sample Size (mL) SS	0.050
STANDARD	Concentration of HNO3 (Molarity)	0.2005
Work List	HNO3 Titrant at OH end-point in mL	0.234
7581	Dilution Factor DF	1
Test Code	Concentration of OH in Sample (Molarity)	9.38E-01
OH-01	OH in Sample in µg/mL (PPM)	1.60E+04
Matrix		
LIQUID		
Sample #		
79N8		
Instrument Code		
Analyst	OH Molarity = ((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
RA GREEN		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
04/14/96		
Time		
		STANDARD
Concentration of OH in Sample (Molarity)		9.38E-01
OH in Sample in µg/mL (PPM)		1.60E+04

Data Entry by: *newright* Date: 04/15/96
 Approved by: *rw Schneider* Date: 4/16/96
 Form 211102_1 Rev. 1.3 Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

200ml
 S96T00110
 Sample
 date 96-04-15 time 23:28
 GET pH 12 # 285
 Id.#1 0000110
 Id.#2 .2005
 pH(init) 10.13
 V/ml pH
 EP1 .021 8.04
 stop volt.reached
 =====

date 96-04-15 time 23:28
 GET pH 12 # 285
 .10ml/div 2pH=1/div
 start V .000 ml

BEST AVAILABLE COPY

OH (AUTO) : LA-211-102 (C-0)

		SAMPLE
Type	Sample Size (mL) SS	0.200
SAMPLE	Concentration of HNO3 (Molarity)	0.2005
World List	HNO3 Titrant at OH end-point in mL	0.021
7581	Dilution Factor DF	1
Test Code	Concentration of OH in Sample (Molarity)	2.11E-02
OH-01	OH in Sample in µg/mL (PPM)	3.58E+02
Matrix		
LIQUID		
Sample #	Detection Limit = 125µg / SS * DF	
S96T001110		
Instrument Code	Detection Limit (µg/mL)	6.25E+02
Analyst		
RA GREEN		
Date		
04/14/96		
Time		
		SAMPLE
Concentration of OH in Sample (Molarity)		2.11E-02
OH in Sample in µg/mL (PPM)		<625
The Result is < Detection Limit		

Data Entry by: *RA Green* Date: 04/15/96
 Approved by: *RW Edwards* Date: 4/16/96
 Form 211102_1 Rev. 1.3 Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

OH (AUTO) : LA-211-102 (C-0)

		SAMPLE
Type	Sample Size (mL) S3	0.100
SAMPLE	Concentration of HNO3 (Molarity)	0.2005
World List	HNO3 Titrant at OH end-point in mL	0.759
7581	Dilution Factor DF	1
Test Code	Concentration of OH in Sample (Molarity)	1.52E+00
OH-01	OH in Sample in µg/mL (PPM)	2.59E+04
Matrix		
LIQUID		
Sample #	Detection Limit = 125µg / SS * DF	
S96T001119		
Instrument Code	Detection Limit (µg/mL)	1.52E+00
Analyst		
RA GREEN		
Date		
04/14/96		
Time		
		SAMPLE
Concentration of OH in Sample (Molarity)		1.52E+00
OH in Sample in µg/mL (PPM)		2.59E+04

Data Entry by: *Ken Light* Date: *04/16/96*
 Approved by: *BW Schreder* Date: *4/16/96*
 Form 211102_1 Rev. 1.3 Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

OH (AUTO) : LA-211-102 (C-0)

		DUPLICATE
Type	Sample Size (mL) SS	0.100
DUPLICATE	Concentration of HNO ₃ (Molarity)	0.2005
Work List	HNO ₃ Titrant at OH end-point in mL	0.750
7581	Dilution Factor DF	1
Test Code	Concentration of OH in Sample (Molarity)	1.50E+00
OH-01	OH in Sample in µg/mL (PPM)	2.56E+04
Matrix		
LIQUID		
Sample #	Detection Limit = 125µg / SS * DF	
S96T001119		
Instrument Code	Detection Limit (µg/mL)	1.25E+00
Analyst	OH Molarity = ((mL HNO ₃)*(M HNO ₃))/Sample Size in mL*Dilution Factor	
RA GREEN		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000 mL/L))	
04/14/96		
Time		
		DUPLICATE
Concentration of OH in Sample (molarity)		1.50E+00
OH in Sample in µg/mL (PPM)		2.56E+04

Data Entry by: *newlight* Date: *4/16/96*
Approved by: *RW Schuler* Date: *4/16/96*
Form 211102_1 Rev. 1.3 Page 10

WHC-SD-WM-DP-184, REV. I

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

date 96-04-16 time 00:51
 GET pH 12 # 291
 Id.#1 000119-120
 Id.#2 .2005
 pH(init) 11.48
 V/ml .180
 EP1 .163
 EP2 .191
 stop volt. reached
 =====

date 96-04-16 time 00:55
 GET pH 12 # 291
 .10ml/div Δ pH=1/div
 start V .000 ml

BEST AVAILABLE COPY

OH (AUTO) : LA-211-102 (C-0)

		Sample
Type	Sample Size (mL) SS	0.100
Sample	Concentration of HNO3 (Molarity)	0.2005
Work List	HNO3 Titrant at OH end-point in mL	0.180
7581	Dilution Factor DF	1
Test Code	Concentration of OH in Sample (Molarity)	3.61E-01
OH-01	OH in Sample in µg/mL (PPM)	6.14E+03
Matrix		
Liquid		
Sample #	Detection Limit = 125µg / SS * DF	
S96T001120		
Instrument Code	Detection Limit (µg/mL)	1.25E+03
Analysis	OH Molarity = ((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
RA Green		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
04/14/96		
Time		
		Sample
Concentration of OH in Sample (Molarity)		3.61E-01
OH in Sample in µg/mL (PPM)		6.14E+03

Data Entry by: *RWS* Date: 04/16/96
 Approved by: *RW Schaefer* Date: 4/16/96
 Form 211102_1 Rev. 1.3 Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

date 96-04-16 time 01:02
 GET pH 12 # 292
 Id.#1 000120
 Id.#2 .2005
 pH(init) 11.55
 W/ml pH
 EP1 .183 8.40
 stop volt.reached
 =====

date 96-04-16 time 01:03
 GET pH 12 # 292
 .10ml/div Δ pH=1/div
 start V .000 ml

BEST AVAILABLE COPY

OH (AUTO) : LA-211-102 (C-0)

Type	Sample Size (mL) SS
DUPLICATE	Concentration of HNO ₃ (Molarity)
Work List	HNO ₃ Titrant at OH end-point in mL
7581	Dilution Factor DF
Test Code	Concentration of OH in Sample (Molarity)
OH-01	OH in Sample in μ g/mL (PPH)
Matrix	
LIQUID	
Sample	Detection Limit = 125 μ g / SS * DF
S96T001120	
Instrument Codes	Detection Limit (ug/mL)
Analyst	OH Molarity = ((mL HNO ₃) * (M HNO ₃)) / Sample Size in mL
RA GREEN	
Date	OH in μ g/mL = (OH MOLARITY * 17.0g/mole) * ((1000000) / SS)
04/14/96	
Time	
	Concentration of OH in Sample (Molarity)
	OH in Sample in μ g/mL (PPH)

Data Entry by:

Approved by:

Form 211102_1 Rev. 1.3

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

100 ml
S96T00121

date 96-04-16 time 01:11
GET pH 12 # 293
Id.#1 000121
Id.#2 .2005
pH(init) 11.40
V/ml pH
EP1 .135 6.68
stop volt.reached
=====

date 96-04-16 time 01:11
GET pH 12 # 293
.10ml/div dPH=1/div
start V .000 ml

BEST AVAILABLE COPY

OH (AUTO) : LA-211-102 (C-0)

Type	Sample Size (mL) S3	
SAMPLE	Concentration of HNO3 (Molarity)	
Work List	HNO3 Titrant at OH end-point in mL	
7581	Dilution Factor DF	
Test Code	Concentration of OH in Sample (Molarity)	
OH-01	OH in Sample in µg/mL (PPM)	
Matrix		
LIQUID		
Sample #	Detection Limit = 125µg / SC * DF	
S96T001121		
Instrument Code	Detection Limit (µg/mL)	
Analyst	OH Molarity = ((mL HNO3) * (Molarity)) / Sample Size	
RA GREEN		
Date	OH in µg/mL = (OH MOLARITY * 17.0g/mole) * ((100 / Sample Size))	
04/14/96		
Time		
	Concentration of OH in Sample (Molarity)	
	OH in Sample in µg/mL (PPM)	

Data Entry by: *RA Green* Date: *4/16/96*Approved by: *RW Schneider* Date: *4/16/96*

Form 211102_1 Rev. 1.3

WHC-SD-WM-DP-184, REV. I

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

.100ml
 S96T000121
 Dup
 date 96-04-16 time 01:17
 GET pH 12 # 294
 Id.#1 000121
 Id.#2 .2005
 pH(init) 11.43
 V/ml pH
 EP1 .130 8.06
 stop volt. reached
 =====

date 96-04-16 time 01:18
 GET pH 12 # 294
 .10ml/div dPH=1/div
 start V .000 ml

BEST AVAILABLE COPY

OH (AUTO) : LA-211-102 (C-0)

Type	Sample Size (mL) SS
DUPLICATE	Concentration of HNO3 (Molarity)
Work List	HNO3 Titrant at OH end-point (mL)
7581	Dilution Factor DF
Test Code	Concentration of OH in Sample (Molarity)
OH-01	OH in Sample in µg/mL (PPM)
Matrix	
LIQUID	
Sample #	Detection Limit = 125µg / SS * DF
S96T001121	
Instrument Code	Detection Limit (µg/mL)
Analyst	OH Molarity = (mL HNO3) * (Molarity of HNO3) / Sample Size (mL)
RA GREEN	
Date	OH in µg/mL = (OH MOLARITY * 17.01 (g/mole)) * ((1000 / Sample Size (mL)))
04/14/96	
Time	
	Concentration of OH in Sample (Molarity)
	OH in Sample in µg/mL (PPM)

Data Entry by: *neufight* Date: *4/16/96*
 Approved by: *RW Schaefer*
 Form 211102_1 Rev. 1.3

LABCORE Data Entry Template for Worklist#

8426

Analyst: Ry Instrument: PH01 Book # 79N8

Method: LA-211-102 Rev/Mod C-0

Worklist Comment: U-107 OH. RCJ use 0.050 ml Sample size

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK			OH-01	LIQUID	<u>1</u>	<u><42</u>	<u>2.50^{e3}</u>	RWS 5/24/96 ug/mL
		2 STD			OH-01	LIQUID	<u>1.66^{e4}</u>	<u>1.65^{e4}</u>	<u>N/A</u>	ug/mL
96000422	U-107	3 SAMPLE	S96T002140	0	OH-01	LIQUID	<u>N/A</u>	<u>2.52^{e4}</u>	<u>2.50^{e3}</u>	ug/mL
96000422	U-107	4 DUP	S96T002140	0	OH-01	LIQUID	<u>2.52^{e4}</u>	<u>2.49^{e4}</u>	<u>N/A</u>	ug/mL
96000422	U-107	5 SAMPLE	S96T002141	0	OH-01	LIQUID	<u>N/A</u>	<u>2.27^{e4}</u>	<u>2.50^{e3}</u>	ug/mL
96000422	U-107	6 DUP	S96T002141	0	OH-01	LIQUID	<u>2.27^{e4}</u>	<u>2.81^{e4}</u>	<u>N/A</u>	ug/mL
96000422	U-107	7 SAMPLE	S96T002142	0	OH-01	LIQUID	<u>N/A</u>	<u>2.51^{e4}</u>	<u>2.50^{e3}</u>	ug/mL
96000422	U-107	8 DUP	S96T002142	0	OH-01	LIQUID	<u>2.51^{e4}</u>	<u>2.58^{e4}</u>	<u>N/A</u>	ug/mL

Final page for worklist #

8426

Racynn Green 5-24-96
Analyst Signature Date

R. Allen 5-24-96
Analyst Signature Date

14550

Approved R. Schmidt
5/24/96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WHC-SD-WM-DP-184, REV. /

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

date 96-05-23 time 23:53
GET pH 12 # 137
Id.#1 00000
Id.#2 .2005
pH(init) 5.02
V/ml pH
EP1 .009 4.08
stop volt.reached
=====

date 96-05-23 time 23:54
GET pH 12 # 137
.10ml/div ΔpH=1/div
start V .000 ml

OH (AUTO) : LA-211-102 (C-0)

OH (AUTO) : LA-211-102 (C-0)		BLANK
Type	Sample Size (mL) SS	3.000
BLANK	Concentration of HNO3 (Molarity)	0.2005
Work List	HNO3 Titrant at OH end-point in mL	0.000
8426	Dilution Factor DF	1
Test Code	Concentration of OH in Sample (Molarity)	0.00E+00
OH-01	OH in Sample in µg/mL (PPM)	0.00E+00
Matrix		
Liquid		
Sample #	Detection Limit = 125µg / SS * DF	
BLNK		
Instrument Code	Detection Limit (µg/mL)	4.17E+01
Analyst	OH Molarity = ((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
RA Green		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
05/24/96		
Time		
		BLANK
	Concentration of OH in Sample (Molarity)	0.00E+00
	OH in Sample in µg/mL (PPM)	<42
The Result is < Detection Limit		

Data Entry by: *RA Green* Date: 05/24/96
Approved by: *R. W. Johnson* Date: 5/24/96
Form 211102_1 Rev. 1.3 Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

date 96-05-23 time 23:46
 GET pH 12 # 133
 Id.#1 00000
 Id.#2 .2005
 pH(init) 11.69
 V/ml pH
 EP1 .242 9.81
 EP2 .313 7.05
 stop volt.reached
 =====

OH (AUTO) : LA-211-102 (C-0)

		STANDARD
Type	Sample Size (mL) SS	0.050
STANDARD	Concentration of HNO3 (Molarity)	0.2005
Work List	HNO3 Titrant at OH end-point in mL	0.242
8426	Dilution Factor DF	1
Test Code	Concentration of OH in Sample (Molarity)	9.70E-01
OH-01	OH in Sample in µg/mL (PPM)	1.65E+04
Matrix		
LIQUID		
Sample #		
STD		
Instrument Code		
PH-01		
Analyst	OH Molarity = ((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
rag		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
05/24/96		
Time		
		STANDARD
Concentration of OH in Sample (Molarity)		9.70E-01
OH in Sample in µg/mL (PPM)		1.65E+04

Data Entry by: B. J. S. Date: 05/24/96
 Approved by: B. J. Schneider Date: 5/24/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

date 96-05-24 time 02:16
GET pH 12 # 139
•10mL/div ΔpH=1/div
start V .000 ml

date 96-05-24 time 02:14
GET pH 12 # 139
Id.#1 002140
Id.#2 .2005
pH(init) 11.98
V/ml pH
EP1 .369 10.27
EP2 .575 8.25
stop volt.reached
=====

OH (AUTO) : LA-211-102 (C-0)

		SAMPLE
Type	Sample Size (mL) SS	0.050
SAMPLE	Concentration of HNO3 (Molarity)	0.2005
Work List	HNO3 Titrant at OH end-point in mL	0.369
8426	Dilution Factor DF	1
Test Code	Concentration of OH in Sample (Molarity)	1.48E+00
OH-01	OH in Sample in µg/mL (PPM)	2.52E+04
Matrix		
LIQUID		
Sample #	Detection Limit = 125µg / SS * DF	
S96T002140		
Instrument Code	Detection Limit (µg/mL)	2.50E+03
PH-01		
Analyst	OH Molarity = (mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
rag		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
05/24/96		
Time		
		SAMPLE
Concentration of OH in Sample (Molarity)		1.48E+00
OH in Sample in µg/mL (PPM)		2.52E+04

Data Entry by: *RWS* Date: 05/24/96
Approved by: *RW Schmolze* Date: 5/24/96
Form 211102_1 Rev. 1.3 Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

date 96-05-24 time 03:27
 GET pH 12 # 140
 .10mL/div ΔpH=1/div
 start V .000 ml

date 96-05-24 time 02:26
 GET pH 12 # 140
 Id.#1 002140
 Id.#2 .2005
 pH(init) 11.91
 V/ml pH
 EP1 .365 10.28
 EP2 .566 8.34
 EP3 .716 6.06
 stop volt.reached

OH (AUTO) : LA-211-102 (C-0)

		SAMPLE/DUP
Type	Sample Size (mL) SS	0.050
SAMPLE/DUP	Concentration of HNO3 (Molarity)	0.2005
Work List	HNO3 Titrant at OH end-point in mL	0.365
8426	Dilution Factor DF	1
Test Codes	Concentration of OH in Sample (Molarity)	1.46E+00
OH-01	OH in Sample in µg/mL (PPM)	2.49E+04
Matrix		
LIQUID		
Sample #	Detection Limit = 125µg / SS * DF	
S96T002140		
Instrument Code	Detection Limit (µg/mL)	2.50E+03
PH-01		
Analyst	OH Molarity = ((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
rag		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
05/24/96		
Time		
		SAMPLE/DUP
Concentration of OH in Sample (Molarity)		1.46E+00
OH in Sample in µg/mL (PPM)		2.49E+04

Data Entry by:	<i>KLW</i>	Date:	05/24/96
Approved by:	<i>KLW</i>	Date:	5/24/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

OH (AUTO) : LA-211-102 (C-0)

		SAMPLE
Type	Sample Size (mL) SS	0.050
SAMPLE	Concentration of HNO3 (Molarity)	0.2005
Work List	HNO3 Titrant at OH end-point in mL	0.406
8426	Dilution Factor DF	1
Test Code	Concentration of OH in Sample (Molarity)	1.63E+00
OH-01	OH in Sample in µg/mL (PPM)	2.77E+04
Matrix		
LIQUID		
Sample #	Detection Limit = 125µg / SS * DF	
S96T002141		
Instrument Code	Detection Limit (µg/mL)	2.50E+03
PH-01		
Analyst	OH Molarity = ((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
rag		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
05/24/96		
Time		
		SAMPLE
Concentration of OH in Sample (Molarity)		1.63E+00
OH in Sample in µg/mL (PPM)		2.77E+04

Data Entry by:	<i>RWS</i>	Date:	05/24/96
Approved by:	<i>RWS Schneider</i>	Date:	5/24/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

date 96-05-24 time 03:38
 GET pH 12 # 145
 .18mL/div 4pH=1/div
 start V .0000 ml

date 96-05-24 time 03:31
 GET pH 12 # 145
 Id.#1 002142
 Id.#2 .2005
 pH(init) 11.90
 V/ml pH
 EP1 .368 10.25
 EP2 .566 8.18
 stop volt.reached
 =====

OH (AUTO) : LA-211-102 (C-0)

		SAMPLE
Type	Sample Size (mL) SS	0.050
SAMPLE	Concentration of HNO3 (Molarity)	0.2005
Work List #	HNO3 Titrant at OH end-point in mL	0.368
8426	Dilution Factor DF	1
Test Code	Concentration of OH in Sample (Molarity)	1.48E+00
OH-01	OH in Sample in µg/mL (PPM)	2.51E+04
Matrix		
LIQUID		
Sample #	Detection Limit = 125µg / SS * DF	
S96T002142		
Instrument Code	Detection Limit (µg/mL)	2.50E+03
PH-01		
Analyst	OH Molarity = ((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
rag		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
05/24/96		
Time		
		SAMPLE
Concentration of OH in Sample (Molarity)		1.48E+00
OH in Sample in µg/mL (PPM)		2.51E+04

Data Entry by:

PWS

Date: 05/24/96

Approved by:

RW Schneider

Date: 5/24/96

Form 211102_1 Rev. 1.3

Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

date 96-05-24 time 02:48
GET pH 12 # 142
.10ml/div dH=1/div
start V .000 ml

date 96-05-24 time 02:48
GET pH 12 # 142
Id.#1 002141
Id.#2 .2005
pH(init) 11.96
V/ml pH
EP1 .412 10.34
EP2 .640 8.49
EP3 .773 6.31
EP4 .846 5.69
stop volt.reached
=====

OH (AUTO) : LA-211-102 (C-0)

		SAMPLE/DUP
Type	Sample Size (mL) SS	0.050
SAMPLE/DUP	Concentration of HNO3 (Molarity)	0.2005
Work List	HNO3 Titrant at OH end-point in mL	0.412
8426	Dilution Factor DF	1
Test Code	Concentration of OH in Sample (Molarity)	1.65E+00
OH-01	OH in Sample in µg/mL (PPM)	2.81E+04
Matrix		
LIQUID		
Sample #	Detection Limit = 125µg / SS * DF	
S96T002141		
Instrument Code	Detection Limit (µg/mL)	2.50E+03
PH-01		
Analyst	OH Molarity = ((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
rag		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
05/24/96		
Time		
		SAMPLE/DUP
Concentration of OH in Sample (Molarity)		1.65E+00
OH in Sample in µg/mL (PPM)		2.81E+04

Data Entry by: *RWS* Date: 05/24/96
Approved by: *Dwi Schneider* Date: 5/24/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

date 96-05-24 time 03:21
 GET pH 12 # 144
 .10mL/div deH=1/div
 start V .000 ml

date 96-05-24 time 03:08
 GET pH 12 # 144
 Id.#1 002142
 Id.#2 .2005
 pH(init) 11.95
 V/ml pH
 EP1 .379 10.25
 EP2 .582 8.20
 EP3 .650 6.85
 stop volt.reached

OH (AUTO) : LA-211-102 (C-0)

		SAMPLE/DUP
Type	Sample Size (mL) SS	0.050
SAMPLE/DUP	Concentration of HNO3 (Molarity)	0.2005
Work List	HNO3 Titrant at OH end-point in mL	0.379
8426	Dilution Factor DF	1
Test Code	Concentration of OH in Sample (Molarity)	1.52E+00
OH-01	OH in Sample in µg/mL (PPM)	2.58E+04
Matrix		
LIQUID		
Sample #	Detection Limit = 125µg / SS * DF	
S96T002142		
Instrument Code	Detection Limit (µg/mL)	2.50E+03
PH-01		
Analyst	OH Molarity = ((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
rag		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
05/24/96		
Time		
		SAMPLE/DUP
	Concentration of OH in Sample (Molarity)	1.52E+00
	OH in Sample in µg/mL (PPM)	2.58E+04

Data Entry by: *RWS* Date: 05/24/96
 Approved by: *RWS* Date: 5/24/96
 Form 211102_1 Rev. 1.3 Page 1 of 1

LABCORE Data Entry Template for Worklist#

9008

Analyst: rag Instrument: PH01 Book # 79NB

Method: LA-211-102 Rev/Mod C-0

Worklist Comment: U-107 AND AY-102 OH. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			OH-01	LIQUID		$1.66e^{+4}$	N/A	ug/mL
		2 BLNK			OH-01	LIQUID	1	$2.42e^{+2}$	N/A	ug/mL
96000422	U-107	3 SAMPLE	S96T001866	0	OH-01	LIQUID	N/A	$1.23e^{+3}$	$2.50e^{+2}$	ug/mL
96000422	U-107	4 DUP	S96T001866	0	OH-01	LIQUID	$1.23e^{+3}$	$1.28e^{+3}$	N/A	ug/mL
96000663	AY-102 GRAB	5 SAMPLE	S96T002850	0	OH-01	LIQUID	N/A	$4.36e^{+2}$	$1.25e^{+2}$	ug/mL
96000663	AY-102 GRAB	6 DUP	S96T002850	0	OH-01	LIQUID	$4.36e^{+2}$	$4.70e^{+2}$	N/A	ug/mL
96000663	AY-102 GRAB	7 SAMPLE	S96T002851	0	OH-01	LIQUID	N/A	$3.85e^{+2}$	$1.25e^{+2}$	ug/mL
96000663	AY-102 GRAB	8 DUP	S96T002851	0	OH-01	LIQUID	$3.85e^{+2}$	$3.65e^{+2}$	N/A	ug/mL
96000663	AY-102 GRAB	9 SAMPLE	S96T002852	0	OH-01	LIQUID	N/A	$4.74e^{+2}$	$1.25e^{+2}$	ug/mL
96000663	AY-102 GRAB	10 DUP	S96T002852	0	OH-01	LIQUID	$4.74e^{+2}$	$4.50e^{+2}$	N/A	ug/mL

Final page for worklist # 9008

Analyst Signature _____ Date _____

Leah Conlin 5/28/96
Analyst Signature Date

Reviewed R. Schuch 5/28/96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

9008

Analyst: RS Instrument: PH01 Book # 79N8

Method: LA-211-102 Rev/Mod C.O

Worklist Comment: U-107 AND AY-102 OH. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			OH-01	LIQUID			N/A	ug/mL
96000422	U-107	2 SAMPLE	S96T001866	0	OH-01	LIQUID	N/A			ug/mL
96000422	U-107	3 DUP	S96T001866	0	OH-01	LIQUID			N/A	ug/mL
96000663	AY-102 GRAB	4 SAMPLE	S96T002850	0	OH-01	LIQUID	N/A			ug/mL
96000663	AY-102 GRAB	5 DUP	S96T002850	0	OH-01	LIQUID			N/A	ug/mL
96000663	AY-102 GRAB	6 SAMPLE	S96T002851	0	OH-01	LIQUID	N/A			ug/mL
96000663	AY-102 GRAB	7 DUP	S96T002851	0	OH-01	LIQUID			N/A	ug/mL
96000663	AY-102 GRAB	8 SAMPLE	S96T002852	0	OH-01	LIQUID	N/A			ug/mL
96000663	AY-102 GRAB	9 DUP	S96T002852	0	OH-01	LIQUID			N/A	ug/mL

Final page for worklist #

9008

Rae Ann Green 5-27-96
Analyst Signature Date

Analyst Signature Date

Data Entry Comments: .2006 M HNO₃ titrant

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

OH (AUTO) : LA-211-102 (C-0)

		STANDARD
Type	Sample Size (mL) SS	0.050
STANDARD	Concentration of HNO3 (Molarity)	0.2005
Work List	HNO3 Titrant at OH end-point in mL	0.243
9008	Dilution Factor DF	1
Test Code	Concentration of OH in Sample (Molarity)	9.74E-01
OH-01	OH in Sample in µg/mL (PPM)	1.66E+04
Matrix		
LIQUID		
Sample #		
Instrument Code		
Analyst	OH Molarity = ((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
R A GREEN		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
05/27/96		
Time		
11:55 AM	Concentration of OH in Sample (Molarity)	9.74E-01
	OH in Sample in µg/mL (PPM)	1.66E+04

Data Entry by:	<i>Frank Boulton</i>	Date:	05/27/96
Approved by:	<i>W. Schroeder</i>	Date:	5/28/96

Form 211102_1 Rev. 1.3

Page 1 of 1

WHC-SD-WM-DP-184, REV. 1

OH (AUTO) : LA-211-102 (C-0)

		BLANK
Type	Sample Size (mL) SS	3.000 0.500
BLANK	Concentration of HNO3 (Molarity)	0.2005
Work List	HNO3 Titrant at OH end-point in mL	6.000 0.040
9008	Dilution Factor DF	1
Test Code	Concentration of OH in Sample (Molarity)	4.01E-03
OH-01	OH in Sample in µg/mL (PPM)	6.82E+01

RWS 5/28/96

RWS 5/28/96

Matrix		
LIQUID		
Sample #	Detection Limit = 125µg / SS * DF	
Instrument Code	Detection Limit (µg/mL)	2.50E+02

42 RWS 5/28/96

Analyst	OH Molarity = ((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
RA GREEN		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
05/27/96		
Time		
11:55 AM	Concentration of OH in Sample (Molarity)	4.01E-03
	OH in Sample in µg/mL (PPM)	<42 250

The Result is < Detection Limit

RWS 5/28/96

Data Entry by:	<i>[Signature]</i>	Date:	05/27/96
Approved by:	<i>[Signature]</i>	Date:	5/28/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-184, REV. 1

OH (AUTO) : LA-211-102 (C-0)

OH (AUTO) : LA-211-102 (C-0)		SAMPLE
Type	Sample Size (mL) SS	0.500
SAMPLE	Concentration of HNO3 (Molarity)	0.2005
Work List	HNO3 Titrant at OH end-point in mL	0.181
9008	Dilution Factor DF	1
Test Code	Concentration of OH in Sample (Molarity)	7.26E-02
OH-01	OH in Sample in µg/mL (PPM)	1.23E+03
Matrix		
LIQUID		
Sample #	Detection Limit = 125µg / SS * DF	
S96T001866		
Instrument Code	Detection Limit (µg/mL)	2.50E+02
Analyst	OH Molarity = ((mL HNO3)*(M HNO3))/Sample Size in mL*Dilution Factor	
RA GREEN		
Date	OH in µg/mL = (OH MOLARITY)*((17.0g/mole)*((1000000µg/g)/(1000mL/L))	
05/27/96		
Time		SAMPLE
11:55 AM	Concentration of OH in Sample (Molarity)	7.26E-02
	OH in Sample in µg/mL (PPM)	1.23E+03

Data Entry by:	<i>Frank Green</i>	Date:	05/27/96
Approved by:	<i>RW Schmidt</i>	Date:	5/28/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

WHC-SD-WM-DP-184, REV. 1

OH (AUTO) : LA-211-102 (C-0)

		DUPLICATE
Type	Sample Size (mL) SS	0.500
DUPLICATE	Concentration of HNO ₃ (Molarity)	0.2005
Work List	HNO ₃ Titrant at OH end-point in mL	0.188
9008	Dilution Factor DF	1
Test Code	Concentration of OH in Sample (Molarity)	7.54E-02
OH-01	OH in Sample in µg/mL (PPM)	1.28E+03
Matrix		
LIQUID		
Sample #	Detection Limit = 125µg / SS * DF	
S96T001866		
Instrument Code	Detection Limit (µg/mL)	2.50E+02
Analyst	OH Molarity = ((mL HNO ₃)*(M HNO ₃))/Sample Size in mL*Dilution Factor	
R A GREEN		
Date	OH in µg/mL = (OH MOLARITY)*(17.0g/mole)*((1000000µg/g)/(1000mL/L))	
05/27/96		
Time		
11:55 AM		
	Concentration of OH in Sample (Molarity)	7.54E-02
	OH in Sample in µg/mL (PPM)	1.28E+03

Data Entry by:	<i>[Signature]</i>	Date:	05/27/96
Approved by:	<i>[Signature]</i>	Date:	5/28/96

WHC-SD-WM-DP-184, REV. 1

BLK

calibration data
 date 96-05-27
 pH(S) 1 7.00
 pH(S) 2 10.00
 t.cal. 24.0 °C
 slope(rel) .967
 U(as) -7.3 mV
 electr. input 1

STD

date 96-05-27 time 09:22
 GET pH 12 # 151
 Id.#1 00000
 Id.#2 .2005
 pH(init) 11.79
 V/ml pH
 EP1 .243 9.89
 EP2 .313 7.08
 stop volt.reached
 =====

date 96-05-27 time 09:22
 GET pH 12 # 151
 .10ml/div dPH=1/div
 start V .000 ml

date 96-05-27 time 09:24
 GET pH 12 # 152
 Id.#1 00000
 Id.#2 .2005
 pH(init) 5.27
 V/ml pH
 EP1 .010 4.35
 stop volt.reached

date 96-05-27 time 09:24
 GET pH 12 # 152
 .10ml/div dPH=1/div
 start V .000 ml

BEST AVAILABLE COPY

WHC-SD-WM-DP-184, REV. 1

S96T001866

date 96-05-27 time 09:39
 GET pH 12 # 153
 Id.#1 001866
 Id.#2 .2005
 pH(init) 11.66
 V/ml pH
 EP1 .181 10.44
 EP2 .305 9.15
 EP3 .483 6.79
 EP4 .820 4.42
 stop V reached

date 96-05-27 time 09:43
 GET pH 12 # 153
 .10ml/div dPH=1/div
 start V .000 ml

S96T001866
Dup

date 96-05-27 time 09:55
 GET pH 12 # 154
 Id.#1 001866
 Id.#2 .2005
 pH(init) 11.54
 V/ml pH
 EP1 .188 10.54
 EP2 .321 9.17
 EP3 .516 6.88
 EP4 .864 4.40
 stop V reached

date 96-05-27 time 09:56
 GET pH 12 # 154
 .10ml/div dPH=1/div
 start V .000 ml

BEST AVAILABLE COPY

LABCORE Data Entry Template for Worklist#

6770

Analyst: JLF Instrument: PH01 _____ Book # 144N/6E

Method: LA-212-106 Rev/Mod AD

Worklist Comment: U-107 PH'S. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STDPH			PH-01	LIQUID	<u>9.18</u>	<u>9.140</u>	<u>N/A</u>	pH
96000085	U-107	2 SAMPLE	S96T000665	0	PH-01	LIQUID	<u>N/A</u>	<u>13.916</u>	<u>0.01</u>	pH
96000085	U-107	3 DUP	S96T000665	0	PH-01	LIQUID	<u>13.916</u>	<u>13.893</u>	<u>N/A</u>	pH
96000085	U-107	4 SAMPLE	S96T000682	0	PH-01	LIQUID	<u>N/A</u>	<u>13.895</u>	<u>0.01</u>	pH
96000085	U-107	5 DUP	S96T000682	0	PH-01	LIQUID	<u>13.895</u>	<u>13.897</u>	<u>N/A</u>	pH

Final page for worklist #

6770

Jessie S. Husby 4-9-96
Analyst Signature Date

Frank Conlin 4-10-96
Analyst Signature Date

Reviewed RW Schuch
4/10/96

Data Entry Comments:

LABCORE Data Entry Template for Worklist#

7582

Analyst: BJS Instrument: PH01 27 Book # 144 N16-E

Method: LA-212-106 Rev/Mod A-0

Worklist Comment: U-107 PH RUN IN DUPLICATE. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STDPH			PH-01	LIQUID	<u>9.18</u>	<u>9.19</u>	<u>N/A</u>	pH
96000126	U-107	2 SAMPLE	S96T001110	0	PH-01	LIQUID	<u>N/A</u>	<u>12.42</u>	<u>0.01</u>	pH
96000126	U-107	3 DUP	S96T001110	0	PH-01	LIQUID	<u>12.42</u>	<u>12.43</u>	<u>N/A</u>	pH
96000126	U-107	4 SAMPLE	S96T001119	0	PH-01	LIQUID	<u>N/A</u>	<u>12.82</u>	<u>0.01</u>	pH
96000126	U-107	5 DUP	S96T001119	0	PH-01	LIQUID	<u>12.82</u>	<u>12.87</u>	<u>N/A</u>	pH
96000126	U-107	6 SAMPLE	S96T001120	0	PH-01	LIQUID	<u>N/A</u>	<u>12.64</u>	<u>0.01</u>	pH
96000126	U-107	7 DUP	S96T001120	0	PH-01	LIQUID	<u>12.64</u>	<u>12.58</u>	<u>N/A</u>	pH
96000126	U-107	8 SAMPLE	S96T001121	0	PH-01	LIQUID	<u>N/A</u>	<u>12.84</u>	<u>0.01</u>	pH
96000126	U-107	9 DUP	S96T001121	0	PH-01	LIQUID	<u>12.84</u>	<u>12.78</u>	<u>N/A</u>	pH

Final page for worklist #

7582

B. Ann Green 4-1496
Analyst Signature Date
20:30

RE Wright 4/15/96
Analyst Signature Date

Reviewed RW Johnson
4/16/96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8428

Analyst: RJ Instrument: PH01 Book # 14416-D

Method: LA-212-106 Rev/Mod A-0

Worklist Comment: U-107 PH. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STDPH			PH-01	LIQUID	<u>8.00</u>	<u>7.99</u>	<u>N/A</u>	pH
96000422	U-107	2 SAMPLE	S96T002140	0	PH-01	LIQUID	<u>N/A</u>	<u>12.82</u>	<u>8.01</u>	pH
96000422	U-107	3 DUP	S96T002140	0	PH-01	LIQUID	<u>12.82</u>	<u>12.85</u>	<u>N/A</u>	pH
96000422	U-107	4 SAMPLE	S96T002141	0	PH-01	LIQUID	<u>N/A</u>	<u>12.70</u>	<u>8.01</u>	pH
96000422	U-107	5 DUP	S96T002141	0	PH-01	LIQUID	<u>12.70</u>	<u>12.69</u>	<u>N/A</u>	pH
96000422	U-107	6 SAMPLE	S96T002142	0	PH-01	LIQUID	<u>N/A</u>	<u>13.50</u>	<u>8.01</u>	pH
96000422	U-107	7 DUP	S96T002142	0	PH-01	LIQUID	<u>13.50</u>	<u>13.48</u>	<u>N/A</u>	pH

Final page for worklist #

8428

R. J. Green 5-12-96
Analyst Signature Date

R. J. Green 5-15-96
Analyst Signature Date

Approved 5/13/96
R. J. Green

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist#

8913

Analyst: K. J. J.

Instrument: PH01

Book # 22411607

Method: LA-212-106 Rev/Mod

Worklist Comment: C-106 AY-102 PH. RCJ U 107

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STDPH		PH-01	LIQUID	<u>9.00</u>	<u>8.00</u>	<u>N/A</u>	pH
96000422	U-107	2	SAMPLE	S96T001866	0	PH-01	LIQUID	<u>N/A</u>	<u>12.67</u>	<u>0.01</u> pH
96000422	U-107	3	DUP	S96T001866	0	PH-01	LIQUID	<u>12.67</u>	<u>12.69</u>	<u>N/A</u> pH
96000638	C-106 GRAB	4	SAMPLE	S96T002770	0	PH-01	LIQUID	<u>N/A</u>	<u>11.71</u>	<u>0.01</u> pH
96000638	C-106 GRAB	5	DUP	S96T002770	0	PH-01	LIQUID	<u>11.71</u>	<u>11.69</u>	<u>N/A</u> pH
96000638	C-106 GRAB	6	SAMPLE	S96T002771	0	PH-01	LIQUID	<u>N/A</u>	<u>11.71</u>	<u>0.01</u> pH
96000638	C-106 GRAB	7	DUP	S96T002771	0	PH-01	LIQUID	<u>11.71</u>	<u>11.69</u>	<u>N/A</u> pH
96000648	C-106 GRAB	8	SAMPLE	S96T002829	0	PH-01	LIQUID	<u>N/A</u>	<u>11.80</u>	<u>0.01</u> pH
96000648	C-106 GRAB	9	DUP	S96T002829	0	PH-01	LIQUID	<u>11.80</u>	<u>11.79</u>	<u>N/A</u> pH
96000648	C-106 GRAB	10	SAMPLE	S96T002830	0	PH-01	LIQUID	<u>N/A</u>	<u>11.91</u>	<u>0.01</u> pH
96000648	C-106 GRAB	11	DUP	S96T002830	0	PH-01	LIQUID	<u>11.91</u>	<u>11.90</u>	<u>N/A</u> pH

Final page for worklist #

8913

Analyst Signature K. J. J. Date 5-19-96

Analyst Signature K. J. J. Date 5-19-96

Approved P. J. Schmitt 5/20/96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 6322

Analyst: CCB Instrument: IC00 IC01 Book# 133A/22

Method: LA-533-105 Rev/Mod 1-1

Worklist Comment: U-107 @IC-01. RCJ

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	CCB				@IC-QC	QC		
2	CCV				@IC-QC	QC		
3	BLNK-PREP				@IC-01	SOLID		
4	SAMPLE	S96T000690	0	W	@IC-01	SOLID	96000085	U-107
		Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
5	DUP	S96T000690	0	W	@IC-01	SOLID		
6	SPK	S96T000690	0	W	@IC-01	SOLID		
7	SAMPLE	S96T000691	0	W	@IC-01	SOLID	96000085	U-107
		Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
8	DUP	S96T000691	0	W	@IC-01	SOLID		

Final page for worklist # 6322

Analyst Signature

Date

Analyst Signature

Date

Data Entry Comments:

LABCORE Completed Worklist Report for Worklist# 6322

Analyst: wgb

Instrument: IC01

Book# 133N9A

Method: A533105 Rev/Mod D-1

Worklist Comment: U-107 @IC-01. RCJ

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1	CCB	0	②IC-QC F	QC	1	<1.30e-2		ug/mL
1	CCB	0	②IC-QC CL	QC	1	<1.70e-2		ug/mL
1	CCB	0	②IC-QC NO2	QC	1	<1.07e-1		ug/mL
1	CCB	0	②IC-QC BR	QC	1	<1.26e-1		ug/mL
1	CCB	0	②IC-QC NO3	QC	1	<1.40e-1		ug/mL
1	CCB	0	②IC-QC P04	QC	1	<1.19e-1		ug/mL
1	CCB	0	②IC-QC S04	QC	1	<1.36e-1		ug/mL
1	CCB	0	②IC-QC OXALATE2	QC	1	<1.05e-1		ug/mL
2	CCV	0	②IC-QC F	QC	59	5.82e+01	98.644 % Recovery	
2	CCV	0	②IC-QC CL	QC	79	7.44e+01	94.177 % Recovery	
2	CCV	0	②IC-QC NO2	QC	537	5.25e+02	97.765 % Recovery	
2	CCV	0	②IC-QC BR	QC	575	5.55e+02	96.522 % Recovery	
2	CCV	0	②IC-QC NO3	QC	614	6.05e+02	98.534 % Recovery	
2	CCV	0	②IC-QC P04	QC	546	5.28e+02	96.703 % Recovery	
2	CCV	0	②IC-QC S04	QC	631	6.14e+02	97.306 % Recovery	
2	CCV	0	②IC-QC OXALATE2	QC	509	5.12e+02	100.589 % Recovery	
3	BLNK-PREP	0	②IC-01 F-02	SOLID	1	<1.30e-2		ug/g
3	BLNK-PREP	0	②IC-01 CL-02	SOLID	1	3.30e-2	0.033	ug/g
3	BLNK-PREP	0	②IC-01 NO2-02	SOLID	1	<1.07e-1		ug/g
3	BLNK-PREP	0	②IC-01 BR-02	SOLID	1	<1.26e-1		ug/g
3	BLNK-PREP	0	②IC-01 NO3-02	SOLID	1	<1.40e-1		ug/g
3	BLNK-PREP	0	②IC-01 P04-02	SOLID	1	<1.19e-1		ug/g
3	BLNK-PREP	0	②IC-01 S04-02	SOLID	1	<1.36e-1		ug/g
3	BLNK-PREP	0	②IC-01 OXALATE2	SOLID	1	<1.05e-1		ug/g
4	SAMPLE	S96T000690	0 W ②IC-01 F-02	SOLID	N/A	4.670e+02	103.900	ug/g
4	REJECT	S96T000690	0 W ②IC-01 F-02	SOLID	N/A	4.670e+02		ug/g
4	SAMPLE	S96T000690	0 W ②IC-01 CL-02	SOLID	N/A	4.603e+03	135.800	ug/g
4	REJECT	S96T000690	0 W ②IC-01 CL-02	SOLID	N/A	4.603e+03		ug/g
4	SAMPLE	S96T000690	0 W ②IC-01 NO2-02	SOLID	N/A	5.148e+04	854.900	ug/g
4	REJECT	S96T000690	0 W ②IC-01 NO2-02	SOLID	N/A	5.148e+04		ug/g
4	SAMPLE	S96T000690	0 W ②IC-01 BR-02	SOLID	N/A	1007.000	1007.000	ug/g
4	REJECT	S96T000690	0 W ②IC-01 BR-02	SOLID	N/A	1.006e+03		ug/g
4	SAMPLE	S96T000690	0 W ②IC-01 NO3-02	SOLID	N/A	1.354e+05	1118.000	ug/g
4	REJECT	S96T000690	0 W ②IC-01 NO3-02	SOLID	N/A	1.354e+05		ug/g
4	SAMPLE	S96T000690	0 W ②IC-01 P04-02	SOLID	N/A	3.213e+04	949.600	ug/g
4	REJECT	S96T000690	0 W ②IC-01 P04-02	SOLID	N/A	3.213e+04		ug/g
4	SAMPLE	S96T000690	0 W ②IC-01 S04-02	SOLID	N/A	4.954e+03	1086.000	ug/g
4	REJECT	S96T000690	0 W ②IC-01 S04-02	SOLID	N/A	4.954e+03		ug/g
4	SAMPLE	S96T000690	0 W ②IC-01 OXALATE2	SOLID	N/A	9.874e+03	838.900	ug/g
4	REJECT	S96T000690	0 W ②IC-01 OXALATE2	SOLID	N/A	9.874e+03		ug/g
5	DUP	S96T000690	0 W ②IC-01 F-02	SOLID	4.67e+02	4.16e+02	11.552	RFD

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 6322

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
5 DUP	S96T000690	0 W	IC-01	CL-02	SOLID	4.60e+03	4.54e+03	1.313 RPD
5 DUP	S96T000690	0 W	IC-01	NO2-02	SOLID	5.15e+04	4.92e+04	4.568 RPD
5 DUP	S96T000690	0 W	IC-01	BR-02	SOLID	<1.01e3	<1.08e3	RPD
5 DUP	S96T000690	0 W	IC-01	NO3-02	SOLID	1.35e+05	1.27e+05	6.107 RPD
5 DUP	S96T000690	0 W	IC-01	PO4-02	SOLID	3.21e+04	2.63e+04	19.863 RPD
5 DUP	S96T000690	0 W	IC-01	SO4-02	SOLID	4.95e+03	5.03e+03	1.603 RPD
5 DUP	S96T000690	0 W	IC-01	OXALATE2	SOLID	9.87e+03	8.92e+03	10.112 RPD
6 SPK	S96T000690	0 W	IC-01	F-02	SOLID	59	4.24e+01	71.864 % Recovery
6 SPK	S96T000690	0 W	IC-01	CL-02	SOLID	79	7.31e+01	92.532 % Recovery
6 SPK	S96T000690	0 W	IC-01	NO2-02	SOLID	537	5.37e+02	100.000 % Recovery
6 SPK	S96T000690	0 W	IC-01	BR-02	SOLID	575	5.42e+02	94.261 % Recovery
6 SPK	S96T000690	0 W	IC-01	NO3-02	SOLID	614	6.51e+02	106.026 % Recovery
6 SPK	S96T000690	0 W	IC-01	PO4-02	SOLID	546	5.09e+02	93.223 % Recovery
6 SPK	S96T000690	0 W	IC-01	SO4-02	SOLID	631	5.94e+02	94.136 % Recovery
6 SPK	S96T000690	0 W	IC-01	OXALATE2	SOLID	509	5.03e+02	98.821 % Recovery
7 SAMPLE	S96T000691	0 W	IC-01	F-02	SOLID	N/A	3.001e+02	184.500 ug/g
7 REJECT	S96T000691	0 W	IC-01	F-02	SOLID	N/A	3.001e+02	ug/g
7 SAMPLE	S96T000691	0 W	IC-01	CL-02	SOLID	N/A	2.069e+03	241.200 ug/g
7 REJECT	S96T000691	0 W	IC-01	CL-02	SOLID	N/A	2.069e+03	ug/g
7 SAMPLE	S96T000691	0 W	IC-01	NO2-02	SOLID	N/A	2.280e+04	1519.000 ug/g
7 REJECT	S96T000691	0 W	IC-01	NO2-02	SOLID	N/A	2.280e+04	ug/g
7 SAMPLE	S96T000691	0 W	IC-01	BR-02	SOLID	N/A	1.788e+03	1788.000 ug/g
7 REJECT	S96T000691	0 W	IC-01	BR-02	SOLID	N/A	1.788e+03	ug/g
7 SAMPLE	S96T000691	0 W	IC-01	NO3-02	SOLID	N/A	3.177e+05	1985.000 ug/g
7 REJECT	S96T000691	0 W	IC-01	NO3-02	SOLID	N/A	3.177e+05	ug/g
7 SAMPLE	S96T000691	0 W	IC-01	PO4-02	SOLID	N/A	7.124e+03	1687.000 ug/g
7 REJECT	S96T000691	0 W	IC-01	PO4-02	SOLID	N/A	7.124e+03	ug/g
7 SAMPLE	S96T000691	0 W	IC-01	SO4-02	SOLID	N/A	4.650e+03	1929.000 ug/g
7 REJECT	S96T000691	0 W	IC-01	SO4-02	SOLID	N/A	4.650e+03	ug/g
7 SAMPLE	S96T000691	0 W	IC-01	OXALATE2	SOLID	N/A	2.925e+03	1490.000 ug/g
7 REJECT	S96T000691	0 W	IC-01	OXALATE2	SOLID	N/A	2.925e+03	ug/g
8 DUP	S96T000691	0 W	IC-01	F-02	SOLID	3.00e+02	2.91e+02	3.046 RPD
8 DUP	S96T000691	0 W	IC-01	CL-02	SOLID	2.07e+03	1.78e+03	15.065 RPD
8 DUP	S96T000691	0 W	IC-01	NO2-02	SOLID	2.28e+04	2.04e+04	11.111 RPD
8 DUP	S96T000691	0 W	IC-01	BR-02	SOLID	<1.79e3	<1.81e3	RPD
8 DUP	S96T000691	0 W	IC-01	NO3-02	SOLID	3.18e+05	5.71e+05	56.918 RPD
8 DUP	S96T000691	0 W	IC-01	PO4-02	SOLID	7.12e+03	6.96e+03	2.273 RPD
8 DUP	S96T000691	0 W	IC-01	SO4-02	SOLID	4.65e+03	4.88e+03	4.827 RPD
8 DUP	S96T000691	0 W	IC-01	OXALATE2	SOLID	2.92e+03	2.78e+03	4.912 RPD

Final page for worklist# 6322

Analyst Signature

Date

Analyst Signature

Date

H. Anastor
Reviewer Signature4-22-96
Date

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				28-Mar-96	
Worklist#: 6322				Data File: 6322MAR.CSV					
	Seq	Type	Sample #	Seq#	Data File	Sample Name	Dilution		
-	=>	1 CCB		-	1 96031821.d01	INST. BLANK	1.00		
	=>	2 CCV			2 96031821.d02	133N9-A STAND	101.00		
	=>	3 BLNK-PREP			3 96031821.d03	PREP-BLANK	1.00		
	=>	4 SAMPLE	S96T000690		4 96031821.d04	S96T000690 SAMP	101.00		
	=>	5 DUP	S96T000690		5 96031821.d05	S96T000690 SAMP	41.00		
	=>	6 SPK	S96T000690		6 96031821.d06	S96T000690 DUP.	41.00		
	=>	7 SAMPLE	S96T000691		7 96031841.d07	S96T000690 SPIK	41.00		
	=>	8 DUP	S96T000691		8 96031841.d11	S96T000691 SAMP	67.67		
					8 96031841.d12	S96T000691 DUP.	67.67		
+				+					

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

=====

Sample Name:	INST. BLANK	Date:	03/18/1996 19:47:07				
Data File :	C:\DX\DATA\96031821.d01	WHC-SD-WM-DP-184, REV. 1					
Method :	C:\DX\METHOD\KIT.MET						
ACI Address:	1	System:	1	Inject#:	1	Detector:	CDM-1
Analyst	V. Smith 3/28/96						
		Column:	AG4A/AS4A anion column				

=====

Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 1 3150 5Hz 0.00 10.50 100

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
---------	----------	----------------	---------------------	--------	------	----------	--------

Totals 0.000 0 0

File: 96031821.d01 Sample: INST. BLANK

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 249 TO 258.

```

=====
Sample Name: 133N9-A STANDARD          Date: 03/18/1996 20:00:26
Data File  : C:\DX\DATA\96031821.d02   WHC-SD-WM-DP-184, REV. 1
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 2      Detector: CDM-1
Analyst    :                          Column: AG4A/AS4A anion column
=====

```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101    3150   5Hz   0.00 10.50      100
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	105	503	2	
2	1.05	fluoride	58.242	2576	11352	2	0.32
4	1.61	chloride	74.364	2093	9233	1	0.42
5	1.93	nitrite	524.752	9102	47314	1	-0.69
6	2.89	bromide	555.281	5318	33100	1	2.84
7	3.30	nitrate	605.446	6136	47346	1	5.10
8	4.75	phosphate	527.501	1726	21013	1	1.71
9	6.19	sulfate	614.105	4510	63187	1	1.75
10	8.16	oxalate	512.086	2279	41325	1	2.68
Totals			3471.776	33845	274374		

File: 96031821.d02 Sample: 133N9-A STANDARD

```
=====
Sample Name:  PREP-BLANK                      Date: 03/18/1996 20:16:49
Data File   :  C:\DX\DATA\96031821.d03        WHC-SD-WM-DP-184, REV.1
Method      :  C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 3           Detector: CDM-1
Analyst     :                               Column: AG4A/AS4A anion column
=====
```

```
=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
=====
```

```
External          1          1  3150  5Hz   0.00 10.50         100
=====
```

```
***** Peak Report: All Peaks *****
```

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.33		0.000	63	569	1	
2	1.62	chloride	0.033	47	301	1	1.25
Totals			0.033	110	870		

File: 96031821.d03 Sample: PREP-BLANK

```

=====
Sample Name:  S96T000690 SAMPLE                      Date: 03/18/1996 20:30:26
Data File   :  C:\DX\DATA\96031821.d04
Method      :  C:\DX\METHOD\KIT.MET                  WHC-SD-WM-DP-184, REV. 1
ACI Address: 1 System: 1 Inject#: 4                   Detector: CDM-1
Analyst     :                               Column: AG4A/AS4A anion column
=====

```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101    3150  5Hz   0.00 10.50        100
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	61	350	2	
2	1.10	fluoride	2.830	75	299	2	4.76
3	1.17		0.000	120	684	2	
4	1.61	chloride	24.150	624	2896	1	0.42
5	1.92	nitrite	260.882	4125	22299	1	-1.03
6	3.29	nitrate	671.029	6887	52851	1	4.88
7	4.75	phosphate	181.485	501	6165	1	1.71
8	6.24	sulfate	42.473	138	2061	1	2.63
9	8.16	oxalate	52.273	190	3698	1	2.68
Totals			1235.123	12723	91302		

File: 96031821.d04 Sample: S96T000690 SAMPLE

```

=====
Sample Name:  S96T000690 SAMPLE                      Date: 03/18/1996 20:50:14
Data File   :  C:\DX\DATA\96031821.d05                WHC-SD-WM-DP-184, REV. \
Method      :  C:\DX\METHOD\KIT.MET
ACI Address :  1 System: 1 Inject#: 5                  Detector: CDM-1
Analyst     :                      Column: AG4A/AS4A anion column
=====

```

Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 41 3150 5Hz 0.00 10.50 100

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	151	835	2	
2	1.10	fluoride	2.397	213	905	2	4.76
3	1.17		0.000	350	2321	2	
4	1.60	chloride	23.629	1482	7182	1	0.00
5	1.92	nitrite	264.235	10888	59355	1	-1.03
6	3.25	nitrate	695.140	17321	142485	1	3.40
7	4.75	phosphate	164.906	1305	15789	1	1.71
8	6.19	sulfate	25.427	254	4186	1	1.75
9	8.16	oxalate	50.683	491	9601	1	2.68
Totals			1226.418	32454	242659		

File: 96031821.d05 Sample: S96T000690 SAMPLE

```

=====
Sample Name:  S96T000690 DUP.                Date: 03/18/1996 21:08:03
Data File   :  C:\DX\DATA\96031821.d06       WHC-SD-WM-DP-184, REV. I
Method      :  C:\DX\METHOD\KIT.MET
ACI Address :  1 System: 1 Inject#: 6         Detector: CDM-1
Analyst     :                               Column: AG4A/AS4A anion column
=====

```

Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 41 3150 5Hz 0.00 10.50 100

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	132	746	2	
2	1.10	fluoride	1.982	181	703	2	4.76
3	1.18		0.000	325	2114	2	
4	1.60	chloride	21.610	1392	6554	1	0.00
5	1.92	nitrite	234.462	9762	52349	1	-1.03
6	3.25	nitrate	604.418	15178	122882	1	3.61
7	4.75	phosphate	125.114	930	11582	1	1.71
8	6.19	sulfate	23.951	226	3803	1	1.75
9	8.16	oxalate	42.507	415	7962	1	2.68
Totals			1054.044	28542	208694		

File: 96031821.d06 Sample: S96T000690 DUP.

Sample Name: S96T000690 SPIKE

Date: 03/18/1996 21:20:11

Data File : C:\DX\DATA\96031841.d07

WHC-SB-WM-OP-184, REV.1

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 7

Detector: CDM-1

Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	41	3150	5Hz	0.00	10.50		100

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	196	843	1	
2	1.05	fluoride	19.350	2351	9220	1	0.32
3	1.60	chloride	52.864	3449	16412	1	0.00
4	1.93	nitrite	478.956	20723	110420	1	-0.69
5	2.88	bromide	216.612	5262	31728	1	2.37
6	3.22	nitrate	955.358	23191	199919	1	2.55
7	4.72	phosphate	368.324	3026	37517	1	1.14
8	6.19	sulfate	263.214	4796	66915	1	1.75
9	8.11	oxalate	251.875	2573	50275	1	2.01
Totals			2606.554	65567	523248		

File: 96031841.d07 Sample: S96T000690 SPIKE

Sample Name: S96T000691 SAMPLE	Date: 03/18/1996 23:49:55
Data File : C:\DX\DATA\96031841.d11	WHC-SD-WM-DP-184, REV.1
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 11	Detector: CDM-1
Analyst :	Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	67.67	3150	5Hz	0.00	10.50		100

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	77	379	1	
2	1.09	fluoride	1.431	38	162	2	4.13
3	1.17		0.000	45	144	2	
4	1.61	chloride	9.868	380	1719	1	0.42
5	1.93	nitrite	108.720	2475	13008	1	-0.69
6	3.23	nitrate	1515.227	22327	191570	1	2.97
7	4.75	phosphate	33.975	48	598	1	1.71
8	6.19	sulfate	22.177	67	1073	1	1.75
9	8.16	oxalate	13.951	61	1144	1	2.68
Totals			1705.349	25517	209797		

File: 96031841.d11 Sample: S96T000691 SAMPLE

```

=====
Sample Name:  S96T000691 DUP.                      Date: 03/19/1996 00:02:00
Data File   :  C:\DX\DATA\96031841.d12              WHC-SD-WM-DP-184, REV. I
Method      :  C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 12                 Detector: CDM-1
Analyst     :                               Column: AG4A/AS4A anion column
=====

```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          67.67  3150  5Hz   0.00 10.50      100
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	125	666	2	
2	1.09	fluoride	1.372	32	145	2	3.49
3	1.17		0.000	37	119	2	
4	1.61	chloride	8.415	325	1449	1	0.42
5	1.92	nitrite	96.301	2104	11264	1	-1.03
6	3.19	nitrate	2697.032	37947	359356	1	1.70
7	4.75	phosphate	32.847	44	526	1	1.71
8	6.19	sulfate	23.036	68	1209	1	1.75
9	8.16	oxalate	13.137	57	1045	1	2.68
Totals			2872.139	40739	375778		

File: 96031841.d12 Sample: S96T000691 DUP.

LABCORE Data Entry Template for Worklist# 6327

Analyst: SRM Instrument: IC00 _____ Book# 133N9-A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: U-107 @IC-01. RCJ *Water digestate have visible solids please filter
+ also filter blank + standard. Use 41 DF JPIF*

S Type	Sample#	R A	Test	Matrix	Group#	Project
1	CCB		@IC-QC	QC		
2	CCV		@IC-QC	QC		
3	BLNK-PREP		@IC-01	SOLID		
4	SAMPLE	S96T000692 0 W	@IC-01	SOLID	96000085	U-107
		Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02				
5	DUP	S96T000692 0 W	@IC-01	SOLID		
6	SPK	S96T000692 0 W	@IC-01	SOLID		
7	SAMPLE	S96T000693 0 W	@IC-01	SOLID	96000085	U-107
		Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02				
8	DUP	S96T000693 0 W	@IC-01	SOLID		

Final page for worklist # 6327

S. Novio 3-14-96
Analyst Signature Date

Analyst Signature Date

Expanded
Friskell
Updated 3/18/96 N. Smith

Data Entry Comments:

LABCORE Completed Worklist Report for Worklist# 6327

Analyst: srm

Instrument: IC01

Book# 133N9-A

Method: 1A-533-105 Rev/Mod D-1

Worklist Comment: U-107 @IC-01. RCJ

Seq Type	Sample# R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 CCB	0	•IC-QC F	QC	1	<1.30e-2		ug/mL
1 CCB	0	•IC-QC CL	QC	1	<1.70e-2		ug/mL
1 CCB	0	•IC-QC NO2	QC	1	<1.07e-1		ug/mL
1 CCB	0	•IC-QC BR	QC	1	<1.26e-1		ug/mL
1 CCB	0	•IC-QC NO3	QC	1	<1.40e-1		ug/mL
1 CCB	0	•IC-QC PO4	QC	1	<1.19e-1		ug/mL
1 CCB	0	•IC-QC SO4	QC	1	<1.36e-1		ug/mL
1 CCB	0	•IC-QC OXALATE2	QC	1	<1.05e-1		ug/mL
2 CCV	0	•IC-QC F	QC	59	6.01e+01	101.860 % Recovery	
2 CCV	0	•IC-QC CL	QC	79	7.46e+01	94.430 % Recovery	
2 CCV	0	•IC-QC NO2	QC	537	5.39e+02	100.370 % Recovery	
2 CCV	0	•IC-QC BR	QC	575	5.76e+02	100.170 % Recovery	
2 CCV	0	•IC-QC NO3	QC	614	6.24e+02	101.630 % Recovery	
2 CCV	0	•IC-QC PO4	QC	546	5.46e+02	100.000 % Recovery	
2 CCV	0	•IC-QC SO4	QC	631	6.39e+02	101.270 % Recovery	
2 CCV	0	•IC-QC OXALATE2	QC	509	5.45e+02	107.070 % Recovery	
3 BLNK-PREP	0	•IC-01 F-02	SOLID	1	<1.30e-2		ug/g
3 BLNK-PREP	0	•IC-01 CL-02	SOLID	1	6.10e-02	6.000e-002	ug/g
3 BLNK-PREP	0	•IC-01 NO2-02	SOLID	1	<1.07e-1		ug/g
3 BLNK-PREP	0	•IC-01 BR-02	SOLID	1	<1.26e-1		ug/g
3 BLNK-PREP	0	•IC-01 NO3-02	SOLID	1	5.18e-01	0.520	ug/g
3 BLNK-PREP	0	•IC-01 PO4-02	SOLID	1	<1.20e-1		ug/g
3 BLNK-PREP	0	•IC-01 SO4-02	SOLID	1	<1.36e-1		ug/g
3 BLNK-PREP	0	•IC-01 OXALATE2	SOLID	1	<1.05e-1		ug/g
4 SAMPLE	S96T000692 0 W	•IC-01 F-02	SOLID	N/A	6.520e+02	161.300	ug/g
4 SAMPLE	S96T000692 0 W	•IC-01 CL-02	SOLID	N/A	2.238e+03	210.900	ug/g
4 SAMPLE	S96T000692 0 W	•IC-01 NO2-02	SOLID	N/A	2.780e+04	1.328e+003	ug/g
4 SAMPLE	S96T000692 0 W	•IC-01 BR-02	SOLID	N/A	1.563e+03	1.563e+003	ug/g
4 SAMPLE	S96T000692 0 W	•IC-01 NO3-02	SOLID	N/A	5.662e+05	1.736e+003	ug/g
4 SAMPLE	S96T000692 0 W	•IC-01 PO4-02	SOLID	N/A	7.861e+03	1.488e+003	ug/g
4 SAMPLE	S96T000692 0 W	•IC-01 SO4-02	SOLID	N/A	6.217e+03	1.686e+003	ug/g
4 SAMPLE	S96T000692 0 W	•IC-01 OXALATE2	SOLID	N/A	1.959e+03	1.303e+003	ug/g
5 DUP	S96T000692 0 W	•IC-01 F-02	SOLID	6.52e+02	6.83e+02	4.640	RPD
5 DUP	S96T000692 0 W	•IC-01 CL-02	SOLID	2.24e+03	2.66e+03	17.140	RPD
5 DUP	S96T000692 0 W	•IC-01 NO2-02	SOLID	2.78e+04	3.18e+04	13.420	RPD
5 DUP	S96T000692 0 W	•IC-01 BR-02	SOLID	<1.56e3	<1.59e3		RPD
5 DUP	S96T000692 0 W	•IC-01 NO3-02	SOLID	5.66e+05	5.27e+05	7.140	RPD
5 DUP	S96T000692 0 W	•IC-01 PO4-02	SOLID	7.86e+03	8.48e+03	7.590	RPD
5 DUP	S96T000692 0 W	•IC-01 SO4-02	SOLID	6.22e+03	6.41e+03	3.010	RPD
5 DUP	S96T000692 0 W	•IC-01 OXALATE2	SOLID	1.96e+03	<1.33e3		RPD
6 SPK	S96T000692 0 W	•IC-01 F-02	SOLID	59	60.212	102.050 % Recovery	

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 6327

Seq Type	Sample# R A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	896T000692 0 W	②IC-01 CL-02	SOLID	79	76.639	97.010 % Recovery	
6 SPK	896T000692 0 W	②IC-01 NO2-02	SOLID	537	540.562	100.660 % Recovery	
6 SPK	896T000692 0 W	②IC-01 BR-02	SOLID	575	553.463	96.250 % Recovery	
6 SPK	896T000692 0 W	②IC-01 NO3-02	SOLID	614	602.645	98.150 % Recovery	
6 SPK	896T000692 0 W	②IC-01 PO4-02	SOLID	546	493.658	90.410 % Recovery	
6 SPK	896T000692 0 W	②IC-01 SO4-02	SOLID	631	610.602	96.770 % Recovery	
6 SPK	896T000692 0 W	②IC-01 OXALATE2	SOLID	509	532.940	104.700 % Recovery	
7 SAMPLE	896T000693 0 W	②IC-01 F-02	SOLID	N/A	1.676e+02	167.600 ug/g	
7 SAMPLE	896T000693 0 W	②IC-01 CL-02	SOLID	N/A	3.729e+03	219.100 ug/g	
7 SAMPLE	896T000693 0 W	②IC-01 NO2-02	SOLID	N/A	2.771e+04	1.379e+003 ug/g	
7 SAMPLE	896T000693 0 W	②IC-01 BR-02	SOLID	N/A	1.624e+03	1.624e+003 ug/g	
7 SAMPLE	896T000693 0 W	②IC-01 NO3-02	SOLID	N/A	4.998e+05	1.803e+003 ug/g	
7 SAMPLE	896T000693 0 W	②IC-01 PO4-02	SOLID	N/A	7.251e+03	1.545e+003 ug/g	
7 SAMPLE	896T000693 0 W	②IC-01 SO4-02	SOLID	N/A	6.442e+03	1.752e+003 ug/g	
7 SAMPLE	896T000693 0 W	②IC-01 OXALATE2	SOLID	N/A	1.353e+03	1.353e+003 ug/g	
8 DUP	896T000693 0 W	②IC-01 F-02	SOLID	<1.68e2	<1.62e2	RPD	
8 DUP	896T000693 0 W	②IC-01 CL-02	SOLID	3.73e+03	2.18e+03	52.450 RPD	
8 DUP	896T000693 0 W	②IC-01 NO2-02	SOLID	2.77e+04	2.70e+04	2.560 RPD	
8 DUP	896T000693 0 W	②IC-01 BR-02	SOLID	<1.62e3	<1.57e3	RPD	
8 DUP	896T000693 0 W	②IC-01 NO3-02	SOLID	5.00e+05	5.43e+05	8.250 RPD	
8 DUP	896T000693 0 W	②IC-01 PO4-02	SOLID	7.25e+03	6.84e+03	5.820 RPD	
8 DUP	896T000693 0 W	②IC-01 SO4-02	SOLID	6.44e+03	6.01e+03	6.910 RPD	
8 DUP	896T000693 0 W	②IC-01 OXALATE2	SOLID	<1.35e3	<1.31e3	RPD	

Final page for worklist# 6327

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

Neil Smith 3/19/96
Reviewer Signature _____ Date _____

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				18-Mar-96	
Worklist#: 6327				Data File: 6327MAR.CSV					
	Seq	Type	Sample #	Seq#	Data File	Sample Name	Dilution		
-	=>	1 CCB		-	1 96031341.d01	BLANK	1.00		
	=>	2 CCV			96031341.d02	BLANK (FILTERE	1.00		
	=>	3 BLNK-PREP		2	96031361.d01	STANDARD 133N9-	101.00		
	=>	4 SAMPLE	S96T000692		96031361.d02	STANDARD 133N9-	101.00		
	=>	5 DUP	S96T000692	3	96031361.d03	PREP BLANK	1.00		
	=>	6 SPK	S96T000692		96031361.d04	S96T000692 FILT	101.00		
	=>	7 SAMPLE	S96T000693	4	96031361.d05	S96T000692 FILT	67.67		
	=>	8 DUP	S96T000693	5	96031361.d06	S96T000692 DUP	67.67		
				6	96031361.d07	S96T000692 SPIK	67.67		
					96031361.d08	S96T000693 FILT	101.00		
				7	96031361.d09	S96T000693 FILT	67.67		
				8	96031361.d10	S96T000693 DUP	67.67		
+				+					

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

=====

Sample Name: BLANK	Date: 03/14/1996 08:43:09
Data File : C:\DX\DATA\96031341.d01	WHC-SD-WM-DP-184, REV. 1
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1	System: 1 Inject#: 1
Analyst : <i>Vol Smith</i>	Detector: CDM-1
	Column: AG4A/AS4A anion column

=====

Calibration Volume Dilution Points Rate Start Stop Area Reject

External	1	1	3150	5Hz	0.00	10.50	100
----------	---	---	------	-----	------	-------	-----

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	3.61		0.000	22	139	1	
Totals			0.000	22	139		

File: 96031341.d01 Sample: BLANK

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES *262* TO *273*.

Sample Name: BLANK (FILTERED)

Date: 03/14/1996 08:56:00

Data File : C:\DX\DATA\96031341.d02

WHC-SD-WM-DP-184, REV. 1

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 2

Detector: CDM-1

Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3150	5Hz	0.00	10.50		100

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.19		0.000	23	145	1	
2	1.65	chloride	0.022	28	112	1	3.33
Totals			0.022	51	257		

File: 96031341.d02 Sample: BLANK (FILTERED)

```

=====
Sample Name: STANDARD 133N9-A      Date: 03/14/1996 09:44:02
Data File  : C:\DX\DATA\96031361.d01  WHC-SD-WM-DP-184, REV. 1
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 1      Detector: CDM-1
Analyst    :                          Column: AG4A/AS4A anion column
=====

```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
=====
External          1          101    3150  5Hz   0.00 10.50      100
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	70	325	2	
2	1.06	fluoride	60.066	2597	12119	2	3.92
3	1.65	chloride	74.622	2042	9669	1	2.92
4	1.99	nitrite	538.851	8791	49086	1	2.22
5	3.08	bromide	576.416	5082	34988	1	-0.32
6	3.52	nitrate	623.892	5884	48699	1	4.45
7	4.85	phosphate	546.440	1775	22284	1	2.18
8	6.40	sulfate	638.591	4577	65520	1	1.75
9	8.43	oxalate	545.056	2189	43975	1	2.60
Totals			3603.934	33006	286665		

File: 96031361.d01 Sample: STANDARD 133N9-A

```

=====
Sample Name: STANDARD 133N9-A FILTERED      Date: 03/14/1996 10:02:23
Data File  : C:\DX\DATA\96031361.d02        WHC-SD-WM-DP-184, REV. |
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 2          Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====

```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
=====
External          1          101    3150 5Hz   0.00 10.50          100
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	77	354	2	
2	1.06	fluoride	60.081	2597	12123	2	3.92
3	1.42		0.000	39	252	2	
4	1.65	chloride	74.641	2096	9671	1	2.92
5	1.99	nitrite	534.752	8866	48683	1	2.22
6	3.07	bromide	566.576	5064	34345	1	-0.54
7	3.51	nitrate	642.662	6070	50287	1	4.25
8	4.85	phosphate	541.101	1763	22044	1	2.18
9	6.35	sulfate	636.194	3834	65256	1	0.90
10	8.43	oxalate	543.141	2176	43816	1	2.60
Totals			3599.149	32582	286830		

File: 96031361.d02 Sample: STANDARD 133N9-A FILTERED

```
=====
Sample Name: PREP BLANK                      Date: 03/14/1996 10:17:37
Data File  : C:\DX\DATA\96031361.d03        WHC-SD-WM-DP-184, REV. \
Method     : C:\DX\METHOD\KIT.MET
ACT Address: 1 System: 1 Inject#: 3          Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3150	5Hz	0.00	10.50		100

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.34		0.000	58	552	1	
2	1.66	chloride	0.061	97	619	1	3.75
3	3.57	nitrate	0.518	144	1070	1	6.03
Totals			0.578	299	2241		

File: 96031361.d03 Sample: PREP BLANK

Sample Name: S96T000692 FILTERED

Date: 03/14/1996 13:28:05

Data File : C:\DX\DATA\96031361.d04

Method : C:\DX\METHOD\KIT.MET

WHC-SD-WM-DP-184, REV. 1

ACI Address: 1 System: 1 Inject#: 4

Detector: CDM-1

Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3150	5Hz	0.00	10.50		100

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	72	343	1	
2	1.09	fluoride	4.936	44	205	2	6.54
3	1.18		0.000	41	135	2	
4	1.63	chloride	12.800	332	1488	1	2.08
5	1.97	nitrite	163.198	2262	12260	1	1.20
6	3.34	nitrate	3226.608	29855	285700	1	-0.89
7	4.85	phosphate	57.776	44	513	1	2.18
8	6.40	sulfate	46.632	79	1296	1	1.75
Totals			3511.949	32729	301939		

File: 96031361.d04 Sample: S96T000692 FILTERED

```

=====
Sample Name: S96T000692 FILTERED      Date: 03/14/1996 13:43:21
Data File  : C:\DX\DATA\96031361.d05   WHC-SD-WM-DP-184, REV. I
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 5      Detector: CDM-1
Analyst    :      Column: AG4A/AS4A anion column
=====

```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
=====
External          1      67.67   3150  5Hz   0.00 10.50      100
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	108	517	2	
2	1.09	fluoride	3.556	58	284	2	6.54
3	1.19		0.000	60	204	2	
4	1.63	chloride	12.204	467	2197	1	2.08
5	1.97	nitrite	151.601	3305	18426	1	0.85
6	3.29	nitrate	3088.209	42083	429457	1	-2.27
7	4.85	phosphate	42.873	67	787	1	2.18
8	6.40	sulfate	33.905	109	1721	1	1.75
9	8.48	oxalate	10.683	20	350	1	3.25
Totals			3343.030	46277	453942		

File: 96031361.d05 Sample: S96T000692 FILTERED

```

=====
Sample Name: S96T000692 DUP FILTERED      Date: 03/14/1996 14:03:45
Data File  : C:\DX\DATA\96031361.d06
Method     : C:\DX\METHOD\KIT.MET        WHC-SD-WM-DP-184, REV. 1
ACI Address: 1 System: 1 Inject#: 6        Detector: CDM-1
Analyst    :                             Column: AG4A/AS4A anion column
=====

```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          67.67  3150  5Hz  0.00 10.50          100
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	103	495	1	
2	1.09	fluoride	3.660	65	317	2	7.19
3	1.18		0.000	71	239	2	
4	1.63	chloride	14.257	551	2599	1	1.67
5	1.97	nitrite	170.569	3851	21195	1	0.85
6	3.29	nitrate	2822.239	38500	386572	1	-2.27
7	4.85	phosphate	45.429	79	956	1	2.18
8	6.40	sulfate	34.348	125	1791	1	1.75
Totals			3090.503	43344	414164		

File: 96031361.d06 Sample: S96T000692 DUP FILTERED

=====

Sample Name:	S96T000692 SPIKE FILTERED	Date:	03/14/1996 14:16:18
Data File :	C:\DX\DATA\96031361.d07		
Method :	C:\DX\METHOD\KIT.MET		WHC-SD-WM-DP-184, REV. 1
ACI Address:	1 System: 1 Inject#: 7		Detector: CDM-1
Analyst :	Column: AG4A/AS4A anion column		

=====

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
-------------	--------	----------	--------	------	-------	------	------	--------

External	1	67.67	3150	5Hz	0.00	10.50		100
----------	---	-------	------	-----	------	-------	--	-----

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
---------	----------	----------------	---------------------	--------	------	----------	--------

1	0.90		0.000	190	892	2	
2	1.06	fluoride	43.682	2705	13243	2	3.92
3	1.63	chloride	63.311	2513	12341	1	1.67
4	1.97	nitrite	511.791	12977	71267	1	0.85
5	2.98	bromide	368.815	5674	33294	1	-3.56
6	3.27	nitrate	3494.370	47824	497894	1	-2.87
7	4.83	phosphate	372.172	1819	22690	1	1.61
8	6.35	sulfate	441.310	4618	67735	1	0.90
9	8.37	oxalate	365.671	2210	44035	1	1.95

Totals			5661.121	80529	763391		
--------	--	--	----------	-------	--------	--	--

File: 96031361.d07 Sample: S96T000692 SPIKE FILTERED

```
=====
Sample Name: S96T000693 FILTERED          Date: 03/14/1996 14:32:26
Data File  : C:\DX\DATA\96031361.d08      WHC-SD-WM-DP-184, REV. |
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 8        Detector: CDM-1
Analyst    :                             Column: AG4A/AS4A anion column
=====
```

Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 101 3150 5Hz 0.00 10.50 100

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	50	292	1	
2	1.18		0.000	33	181	1	
3	1.63	chloride	11.472	291	1315	1	2.08
4	1.97	nitrite	143.973	1921	10382	1	0.85
5	3.34	nitrate	2356.289	22483	202270	1	-0.89
6	6.40	sulfate	43.787	69	992	1	1.75
Totals			2555.521	24847	215433		

File: 96031361.d08 Sample: S96T000693 FILTERED

```

=====
Sample Name: S96T000693 FILTERED      Date: 03/14/1996 14:49:59
Data File  : C:\DX\DATA\96031361.d09  WHC-SD-WM-DP-184, REV. (
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 9      Detector: CDM-1
Analyst    :                          Column: AG4A/AS4A anion column
=====

```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
=====
External          1          67.67  3150  5Hz   0.00 10.50          100
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	93	535	2	
2	1.10		0.000	60	251	2	
3	1.19		0.000	100	688	2	
4	1.63	chloride	19.576	776	3642	1	1.67
5	1.96	nitrite	145.486	3223	17533	1	0.51
6	3.29	nitrate	2623.975	36287	355494	1	-2.27
7	4.85	phosphate	38.067	37	470	1	2.18
8	6.40	sulfate	33.821	114	1707	1	1.75
Totals			2860.925	40691	380320		

File: 96031361.d09 Sample: S96T000693 FILTERED

```

=====
Sample Name: S96T000693 DUP FILTERED      Date: 03/14/1996 15:07:01
Data File  : C:\DX\DATA\96031361.d10
Method     : C:\DX\METHOD\KIT.MET        WHC-SD-WM-DP-184, REV. |
ACI Address: 1 System: 1 Inject#: 10      Detector: CDM-1
Analyst    :                            Column: AG4A/AS4A anion column
=====

```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1         67.67   3150  5Hz   0.00 10.50      100
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	99	527	1	
2	1.11		0.000	31	106	2	
3	1.18		0.000	61	198	2	
4	1.63	chloride	11.825	459	2123	1	1.67
5	1.96	nitrite	146.435	3246	17671	1	0.51
6	3.28	nitrate	2950.775	40719	407119	1	-2.67
7	4.83	phosphate	37.064	31	404	1	1.61
8	6.40	sulfate	32.618	106	1515	1	1.75
Totals			3178.718	44752	429664		

File: 96031361.d10 Sample: S96T000693 DUP FILTERED

LABCORE Data Entry Template for Worklist# 6622

Analyst: KRQ Instrument: IC00

Book# 133N9-C

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: U-107 IC. nds

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 CCB			@IC-QC	QC		
2 CCV			@IC-QC	QC		
3 SAMPLE	S96T000682 0		@IC-01	LIQUID	96000085	U-107
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
4 DUP	S96T000682 0		@IC-01	LIQUID		
5 SPK	S96T000682 0		@IC-01	LIQUID		
6 SAMPLE	S96T000665 0		@IC-01	LIQUID	96000085	U-107
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
7 DUP	S96T000665 0		@IC-01	LIQUID		

Final page for worklist # 6622

Analyst Signature KRQ Date 4/2/96

Analyst Signature _____ Date _____

Data Entry Comments:

LABCORE Completed Worklist Report for Worklist# 6622

Analyst: krq

Instrument: IC01

Book# 1331490

Method: EA-533/05 Rev/Mod D-1

Worklist Comment: U-107 IC. nds

Seq Type	Sample# R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 CCB	0	②IC-QC F	QC	1	<1.30e-2		ug/mL
1 CCB	0	②IC-QC CL	QC	1	<1.70e-2		ug/mL
1 CCB	0	②IC-QC NO2	QC	1	<1.07e-1		ug/mL
1 CCB	0	②IC-QC BR	QC	1	<1.26e-1		ug/mL
1 CCB	0	②IC-QC NO3	QC	1	<1.40e-1		ug/mL
1 CCB	0	②IC-QC P04	QC	1	<1.19e-1		ug/mL
1 CCB	0	②IC-QC S04	QC	1	<1.36e-1		ug/mL
1 CCB	0	②IC-QC OXALATE2	QC	1	<1.05e-1		ug/mL
2 CCV	0	②IC-QC F	QC	59	6.07e+01	102.881 % Recovery	
2 CCV	0	②IC-QC CL	QC	79	7.77e+01	98.354 % Recovery	
2 CCV	0	②IC-QC NO2	QC	534	5.45e+02	102.060 % Recovery	
2 CCV	0	②IC-QC BR	QC	575	5.73e+02	99.652 % Recovery	
2 CCV	0	②IC-QC NO3	QC	614	6.29e+02	102.443 % Recovery	
2 CCV	0	②IC-QC P04	QC	546	5.40e+02	98.901 % Recovery	
2 CCV	0	②IC-QC S04	QC	631	6.38e+02	101.109 % Recovery	
2 CCV	0	②IC-QC OXALATE2	QC	504	5.21e+02	103.373 % Recovery	
3 SAMPLE	S96T000682 0	②IC-01 F-02	LIQUID	<u>N/A</u>	4.990e+02	53.830	ug/mL
3 REJECT	S96T000682 0	②IC-01 F-02	LIQUID	<u>N/A</u>	4.990e+02		ug/mL
3 SAMPLE	S96T000682 0	②IC-01 CL-02	LIQUID	<u>N/A</u>	7.742e+03	70.400	ug/mL
3 REJECT	S96T000682 0	②IC-01 CL-02	LIQUID	<u>N/A</u>	7.742e+03		ug/mL
3 SAMPLE	S96T000682 0	②IC-01 NO2-02	LIQUID	<u>N/A</u>	9.395e+04	443.100	ug/mL
3 REJECT	S96T000682 0	②IC-01 NO2-02	LIQUID	<u>N/A</u>	9.395e+04		ug/mL
3 SAMPLE	S96T000682 0	②IC-01 BR-02	LIQUID	<u>N/A</u>	5.218e+02	521.800	ug/mL
3 REJECT	S96T000682 0	②IC-01 BR-02	LIQUID	<u>N/A</u>	5.218e+02		ug/mL
3 SAMPLE	S96T000682 0	②IC-01 NO3-02	LIQUID	<u>N/A</u>	2.207e+05	579.700	ug/mL
3 REJECT	S96T000682 0	②IC-01 NO3-02	LIQUID	<u>N/A</u>	2.207e+05		ug/mL
3 SAMPLE	S96T000682 0	②IC-01 P04-02	LIQUID	<u>N/A</u>	3.699e+03	492.400	ug/mL
3 REJECT	S96T000682 0	②IC-01 P04-02	LIQUID	<u>N/A</u>	3.699e+03		ug/mL
3 SAMPLE	S96T000682 0	②IC-01 S04-02	LIQUID	<u>N/A</u>	6.374e+03	562.800	ug/mL
3 REJECT	S96T000682 0	②IC-01 S04-02	LIQUID	<u>N/A</u>	6.374e+03		ug/mL
3 SAMPLE	S96T000682 0	②IC-01 OXALATE2	LIQUID	<u>N/A</u>	5.305e+02	434.800	ug/mL
3 REJECT	S96T000682 0	②IC-01 OXALATE2	LIQUID	<u>N/A</u>	5.305e+02		ug/mL
4 DUP	S96T000682 0	②IC-01 F-02	LIQUID	4.99e+02	4.96e+02	0.603	RPD
4 DUP	S96T000682 0	②IC-01 CL-02	LIQUID	7.74e+03	7.67e+03	0.909	RPD
4 DUP	S96T000682 0	②IC-01 NO2-02	LIQUID	9.40e+04	9.38e+04	0.213	RPD
4 DUP	S96T000682 0	②IC-01 BR-02	LIQUID	<5.22e2	<5.22e2		RPD
4 DUP	S96T000682 0	②IC-01 NO3-02	LIQUID	2.21e+05	2.21e+05	0.000	RPD
4 DUP	S96T000682 0	②IC-01 P04-02	LIQUID	3.70e+03	3.48e+03	6.128	RPD
4 DUP	S96T000682 0	②IC-01 S04-02	LIQUID	6.37e+03	6.28e+03	1.423	RPD
4 DUP	S96T000682 0	②IC-01 OXALATE2	LIQUID	5.30e+02	5.18e+02	2.290	RPD
5 SPK	S96T000682 0	②IC-01 F-02	LIQUID	59	5.03e+01	85.254 % Recovery	

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 6622

Seq Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
5 SPK	S96T000682	0		•IC-01	CL-02	LIQUID	79	8.25+01	104.430 % Recovery
5 SPK	S96T000682	0		•IC-01	NO2-02	LIQUID	534	5.29+02	99.064 % Recovery
5 SPK	S96T000682	0		•IC-01	BR-02	LIQUID	575	5.55+02	96.522 % Recovery
5 SPK	S96T000682	0		•IC-01	NO3-02	LIQUID	614	5.70+02	92.834 % Recovery
5 SPK	S96T000682	0		•IC-01	PO4-02	LIQUID	546	5.31+02	97.253 % Recovery
5 SPK	S96T000682	0		•IC-01	SO4-02	LIQUID	631	6.17+02	97.781 % Recovery
5 SPK	S96T000682	0		•IC-01	OXALATE2	LIQUID	504	5.10+02	101.190 % Recovery
6 SAMPLE	S96T000665	0		•IC-01	F-02	LIQUID	N/A	4.575+02	53.830 ug/mL
6 REJECT	S96T000665	0		•IC-01	F-02	LIQUID	N/A	4.575+02	ug/mL
6 SAMPLE	S96T000665	0		•IC-01	CL-02	LIQUID	N/A	7.199+03	70.400 ug/mL
6 REJECT	S96T000665	0		•IC-01	CL-02	LIQUID	N/A	7.199+03	ug/mL
6 SAMPLE	S96T000665	0		•IC-01	NO2-02	LIQUID	N/A	8.827+04	443.100 ug/mL
6 REJECT	S96T000665	0		•IC-01	NO2-02	LIQUID	N/A	8.827+04	ug/mL
6 SAMPLE	S96T000665	0		•IC-01	BR-02	LIQUID	N/A	5.218+02	521.800 ug/mL
6 REJECT	S96T000665	0		•IC-01	BR-02	LIQUID	N/A	5.218+02	ug/mL
6 SAMPLE	S96T000665	0		•IC-01	NO3-02	LIQUID	N/A	2.036+05	579.700 ug/mL
6 REJECT	S96T000665	0		•IC-01	NO3-02	LIQUID	N/A	2.036+05	ug/mL
6 SAMPLE	S96T000665	0		•IC-01	PO4-02	LIQUID	N/A	3.534+03	492.400 ug/mL
6 REJECT	S96T000665	0		•IC-01	PO4-02	LIQUID	N/A	3.534+03	ug/mL
6 SAMPLE	S96T000665	0		•IC-01	SO4-02	LIQUID	N/A	5.940+03	562.800 ug/mL
6 REJECT	S96T000665	0		•IC-01	SO4-02	LIQUID	N/A	5.940+03	ug/mL
6 SAMPLE	S96T000665	0		•IC-01	OXALATE2	LIQUID	N/A	5.658+02	434.800 ug/mL
6 REJECT	S96T000665	0		•IC-01	OXALATE2	LIQUID	N/A	5.658+02	ug/mL
7 DUP	S96T000665	0		•IC-01	F-02	LIQUID	4.58+02	4.51+02	1.540 RPD
7 DUP	S96T000665	0		•IC-01	CL-02	LIQUID	7.20+03	7.33+03	1.789 RPD
7 DUP	S96T000665	0		•IC-01	NO2-02	LIQUID	8.83+04	8.94+04	1.238 RPD
7 DUP	S96T000665	0		•IC-01	BR-02	LIQUID	<5.22+2	<5.22+2	RPD
7 DUP	S96T000665	0		•IC-01	NO3-02	LIQUID	2.04+05	2.09+05	2.421 RPD
7 DUP	S96T000665	0		•IC-01	PO4-02	LIQUID	3.53+03	3.74+03	5.777 RPD
7 DUP	S96T000665	0		•IC-01	SO4-02	LIQUID	5.94+03	6.18+03	3.960 RPD
7 DUP	S96T000665	0		•IC-01	OXALATE2	LIQUID	5.66+02	6.87+02	19.314 RPD

Final page for worklist# 6622

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

[Signature] 4/19/96
Reviewer Signature _____ Date _____

Reuploaded to correct upload program problem. JPK

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				15-Apr-96	
Worklist#: 6622				Data File: 6622APR.CSV					
	Seq	Type	Sample #	Seq#	Data File	Sample Name	Dilution		
-	=>	1 CCB		-	2 96040251.d04	CCV 133N9-C	101.00		
	=>	2 CCV			1 96030881.d01	BLANK	1.00		
	=>	3 SAMPLE	S96T000682		3 96030881.d02	S96T000682 SAMPL	4141.00		
	=>	4 DUP	S96T000682		4 96030881.d03	S96T000682 DUP	4141.00		
	=>	5 SPK	S96T000682		5 96030881.d04	S96T000682 SPIKE	4141.00		
	=>	6 SAMPLE	S96T000665		6 96030881.d05	S96T000665 SAMPL	4141.00		
	=>	7 DUP	S96T000665		7 96030881.d06	S96T000665 DUP	4141.00		
+				+					

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

=====

Sample Name: BLANK	Date: 04/02/1996 03:25:49
Data File : C:\DX\DATA\96030881.d01	WHC-SD-WM-DP-184, REV. I
Method : C:\DX\METHOD\AUTOMEL.met	
ACI Address: 1 System: 1 Inject#: 1	Detector: CDM-1
Analyst : <i>[Signature]</i>	Column: AG4A/AS4A anion column

=====

=====

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3150	5Hz	0.00	10.50	100	

=====

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
Totals			0.000	0	0		

=====

File: 96030881.d01 Sample: BLANK

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 278 TO 285

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=====
Sample Name: CCV 133N9-C                               Date: 04/02/1996 02:32:30
Data File  : C:\DX\DATA\96040251.d04
Method     : C:\DX\METHOD\KIT.MET                     WHC-SD-WM-DP-184, REV. I
ACI Address: 1 System: 1 Inject#: 4                     Detector: CDM-1
Analyst    :                                           Column: AG4A/AS4A anion column
=====

```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101    3150  5Hz   0.00 10.50      100

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	61	272	2	
2	1.06	fluoride	60.688	2662	11847	2	0.95
3	1.60	chloride	77.665	2096	9653	1	0.00
4	1.92	nitrite	545.368	9292	49278	1	-1.03
5	2.88	bromide	573.108	5488	34231	1	-0.69
6	3.28	nitrate	629.118	6424	49332	1	-2.67
7	4.67	phosphate	540.112	1654	21558	1	0.00
8	6.19	sulfate	638.094	4745	65794	1	1.75
9	8.11	oxalate	521.246	2113	42081	1	2.01
Totals			3585.398	34536	284044		

File: 96040251.d04 Sample: CCV 133N9-C

```

=====
Sample Name: S96T000682 SAMPLE                      Date: 04/02/1996 03:39:01
Data File  : C:\DX\DATA\96030881.d02                WHC-SD-WM-DP-184, REV.1
Method     : C:\DX\METHOD\AUTOMEL.met
ACI Address: 1 System: 1 Inject#: 2                  Detector: CDM-1
Analyst    :                                          Column: AG4A/AS4A anion column
=====

```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
=====
External          1          4141    3150  5Hz   0.00 10.50      100
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	416	2434	2	
2	1.11	fluoride	499.044	620	2142	2	5.40
3	1.17		0.000	1168	7987	2	
4	1.59	chloride	7742.103	4731	24100	1	-0.83
5	1.92	nitrite	93952.114	38015	221012	1	-1.03
6	3.15	nitrate	220674.294	50346	501449	1	0.21
7	4.69	phosphate	3699.219	187	2277	1	0.57
8	6.19	sulfate	6373.956	892	13998	1	1.75
9	8.16	oxalate	530.497	25	504	1	2.68
Totals			333471.227	96400	775903		

File: 96030881.d02 Sample: S96T000682 SAMPLE

```

=====
Sample Name: S96T000682 DUP      Date: 04/02/1996 03:52:13
Data File  : C:\DX\DATA\96030881.d03      WHC-SD-WM-DP-184, REV. |
Method     : C:\DX\METHOD\AUTOMEL.met
ACI Address: 1 System: 1 Inject#: 3      Detector: CDM-1
Analyst    :      Column: AG4A/AS4A anion column
=====

```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          4141  3150  5Hz  0.00 10.50          100
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	406	2366	2	
2	1.11	fluoride	495.952	613	2127	2	5.40
3	1.17		0.000	1149	7961	2	
4	1.59	chloride	7672.506	4784	23875	1	-0.42
5	1.93	nitrite	93849.775	38140	220758	1	-0.69
6	3.15	nitrate	220664.772	50169	501424	1	0.21
7	4.69	phosphate	3481.919	172	2052	1	0.57
8	6.19	sulfate	6282.827	886	13763	1	1.75
9	8.21	oxalate	517.714	24	479	1	3.36
Totals			332965.465	96344	774803		

File: 96030881.d03 Sample: S96T000682 DUP

```

=====
Sample Name: S96T000682 SPIKE                      Date: 04/02/1996 04:05:25
Data File  : C:\DX\DATA\96030881.d04              WHC-SD-WM-DP-184, REV.1
Method     : C:\DX\METHOD\AUTOMEL.met
ACI Address: 1 System: 1 Inject#: 4                Detector: CDM-1
Analyst    :                                     Column: AG4A/AS4A anion column
=====

```

Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 4141 3150 5Hz 0.00 10.50 100

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	437	2197	2	
2	1.07	fluoride	2526.926	2476	12038	2	1.59
3	1.17		0.000	1279	8480	2	
4	1.59	chloride	11068.550	6795	35025	1	-0.83
5	1.93	nitrite	115290.868	47310	274443	1	-0.69
6	2.87	bromide	22370.415	5689	32488	1	2.02
7	3.13	nitrate	243667.246	55474	564377	1	-0.21
8	4.67	phosphate	25100.069	1874	24674	1	0.00
9	6.19	sulfate	31262.104	5738	79363	1	1.75
10	8.11	oxalate	21088.734	2158	41513	1	2.01
Totals			472374.913	129231	1074598		

File: 96030881.d04 Sample: S96T000682 SPIKE

Sample Name: S96T000665 SAMPLE

Date: 04/02/1996 04:18:39

Data File : C:\DX\DATA\96030881.d05

WHC-SD-WM-DP-184, REV.1

Method : C:\DX\METHOD\AUTOMEL.met

ACI Address: 1 System: 1 Inject#: 5

Detector: CDM-1

Analyst : Column: AG4A/AS4A anion column

Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 4141 3150 5Hz 0.00 10.50 100

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	389	2249	2	
2	1.11	fluoride	457.548	565	1942	2	5.40
3	1.18		0.000	1095	7479	2	
4	1.59	chloride	7198.510	4486	22346	1	-0.42
5	1.92	nitrite	88267.132	35559	206961	1	-1.03
6	3.16	nitrate	203641.323	46590	456523	1	0.64
7	4.69	phosphate	3533.886	191	2106	1	0.57
8	6.19	sulfate	5940.353	773	12878	1	1.75
9	8.16	oxalate	565.813	27	574	1	2.68
Totals			309604.564	89675	713058		

File: 96030881.d05 Sample: S96T000665 SAMPLE

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Sample Name: S96T000665 DUP                      Date: 04/02/1996 04:31:51
Data File  : C:\DX\DATA\96030881.d06             WHC-SD-WM-DP-184, REV. |
Method     : C:\DX\METHOD\AUTOMEL.met
ACI Address: 1 System: 1 Inject#: 6                Detector: CDM-1
Analyst    :                                     Column: AG4A/AS4A anion column
=====

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Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          4141  3150  5Hz  0.00 10.50      100
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	394	2271	2	
2	1.11	fluoride	451.111	573	1911	2	5.40
3	1.18		0.000	1113	7654	2	
4	1.59	chloride	7333.448	4593	22781	1	-0.42
5	1.93	nitrite	89368.950	36923	209678	1	-0.69
6	3.15	nitrate	209047.490	47432	470636	1	0.42
7	4.69	phosphate	3742.597	197	2322	1	0.57
8	6.19	sulfate	6181.084	827	13500	1	1.75
9	8.21	oxalate	687.112	34	814	1	3.36
Totals			316811.793	92086	731566		

File: 96030881.d06 Sample: S96T000665 DUP

LABCORE Data Entry Template for Worklist# 7493

Analyst: Jim 4-18-96 96041801.D09 → D01 133N9-E
JIF VLM Instrument: IC00 SLOT Book# 13302-D Jim 04-18-96
Method: LA-533-105 Rev/Mod D-1

Worklist Comment: U-107 FOR @IC-01 RTS!

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 CCB			@IC-QC	QC		
2 CCV			@IC-QC	QC		
3 BLNK-PREP			@IC-01	SOLID		
4 SAMPLE	S96T001071 0 W		@IC-01	SOLID	96000126	U-107
	Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02					
5 DUP	S96T001071 0 W		@IC-01	SOLID		
6 SPK	S96T001071 0 W		@IC-01	SOLID		
7 SAMPLE	S96T001072 0 W		@IC-01	SOLID	96000126	U-107
	Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02					
8 DUP	S96T001072 0 W		@IC-01	SOLID		

Final page for worklist # 7493

Jim 4-18-96
Jim 4-18-96 Analyst Signature Date

Valerie Mason 04-18-96
Valerie Mason Analyst Signature Date

Exported 7493ap.csv

Inshell

uploaded 5/4/96 JMF

Fix NO3
fixed labels.
CS rejected not validated 5/6/96 JMF

Data Entry Comments:

LABCORE Completed Worklist Report for Worklist# 7493

Analyst: VLM

Instrument: IC01

Book# 13309E

Method: WA-533-105 Rev/Mod D-1

Worklist Comment: U-107 FOR @IC-01 RTS!

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1	CCB	0	@IC-QC F	QC	1	<1.30e-2		ug/mL
1	CCB	0	@IC-QC CL	QC	1	<1.70e-2		ug/mL
1	CCB	0	@IC-QC NO2	QC	1	<1.07e-1		ug/mL
1	CCB	0	@IC-QC BR	QC	1	<1.26e-1		ug/mL
1	CCB	0	@IC-QC NO3	QC	1	3.65e-01	0.365	ug/mL
1	CCB	0	@IC-QC PO4	QC	1	<1.19e-1		ug/mL
1	CCB	0	@IC-QC SO4	QC	1	<1.36e-1		ug/mL
1	CCB	0	@IC-QC OKALATE2	QC	1	<1.05e-1		ug/mL
2	CCV	0	@IC-QC F	QC	5.90e01	5.69e+01	96.441 % Recovery	
2	CCV	0	@IC-QC CL	QC	7.90e01	7.63e+01	96.582 % Recovery	
2	CCV	0	@IC-QC NO2	QC	5.75e02	5.69e+02	98.785 % Recovery	
2	CCV	0	@IC-QC BR	QC	5.75e02	5.65e+02	98.261 % Recovery	
2	CCV	0	@IC-QC NO3	QC	6.14e02	5.96e+02	97.068 % Recovery	
2	CCV	0	@IC-QC PO4	QC	5.46e02	5.11e+02	93.590 % Recovery	
2	CCV	0	@IC-QC SO4	QC	6.31e02	6.20e+02	98.257 % Recovery	
2	CCV	0	@IC-QC OKALATE2	QC	5.37e02	5.37e+02	100.000 % Recovery	
3	BLNK-PREP	0	@IC-01 F-02	SOLID	1	<1.30e-2		ug/g
3	BLNK-PREP	0	@IC-01 CL-02	SOLID	1	<1.70e-2		ug/g
3	BLNK-PREP	0	@IC-01 NO2-02	SOLID	1	<1.07e-1		ug/g
3	BLNK-PREP	0	@IC-01 BR-02	SOLID	1	<1.26e-1		ug/g
3	BLNK-PREP	0	@IC-01 NO3-02	SOLID	1	3.86e-01	0.386	ug/g
3	BLNK-PREP	0	@IC-01 PO4-02	SOLID	1	<1.19e-1		ug/g
3	BLNK-PREP	0	@IC-01 SO4-02	SOLID	1	<1.36e-1		ug/g
3	BLNK-PREP	0	@IC-01 OKALATE2	SOLID	1	<1.05e-1		ug/g
4	SAMPLE	S96T001071	0 W @IC-01 F-02	SOLID	N/A	< 2.392e+02	239.300	ug/g
4	SAMPLE	S96T001071	0 W @IC-01 CL-02	SOLID	N/A	< 1.412e+03	312.900	ug/g
4	SAMPLE	S96T001071	0 W @IC-01 NO2-02	SOLID	N/A	< 1.622e+04	1970.000	ug/g
4	REJECT	S96T001071	0 W @IC-01 BR-02	SOLID	N/A	< 2.319e+03		ug/g
4	SAMPLE	S96T001071	0 W @IC-01 NO3-02	SOLID	N/A	< 6.503e+05	2574.000	ug/g
4	SAMPLE	S96T001071	0 W @IC-01 PO4-02	SOLID	N/A	< 1.165e+04	2189.000	ug/g
4	SAMPLE	S96T001071	0 W @IC-01 SO4-02	SOLID	N/A	< 6.307e+03	2501.000	ug/g
4	SAMPLE	S96T001071	0 W @IC-01 OKALATE2	SOLID	N/A	< 1.932e+03	1932.000	ug/g
5	DUP	S96T001071	0 W @IC-01 F-02	SOLID	<2.39e2	<2.39e2		RPD
5	DUP	S96T001071	0 W @IC-01 CL-02	SOLID	1.41e+03	1.30e+03	8.118	RPD
5	DUP	S96T001071	0 W @IC-01 NO2-02	SOLID	1.62e+04	1.62e+04	0.000	RPD
5	DUP	S96T001071	0 W @IC-01 BR-02	SOLID	<2.32e3	<2.31e3		RPD
5	DUP	S96T001071	0 W @IC-01 NO3-02	SOLID	6.50e+05	6.44e+05	0.927	RPD
5	DUP	S96T001071	0 W @IC-01 PO4-02	SOLID	1.16e+04	1.20e+04	3.390	RPD
5	DUP	S96T001071	0 W @IC-01 SO4-02	SOLID	6.31e+03	6.35e+03	0.632	RPD
5	DUP	S96T001071	0 W @IC-01 OKALATE2	SOLID	<1.93e3	2.58e+03		RPD
6	SPK	S96T001071	0 W @IC-01 F-02	SOLID	5.90e01	5.87e+01	99.492 % Recovery	

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 7493

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S96T001071	0 W	QIC-01	CL-02	SOLID	7.90e01	7.20e+01	91.139 % Recovery
6 SPK	S96T001071	0 W	QIC-01	NO2-02	SOLID	5.76e02	5.47e+02	94.965 % Recovery
6 SPK	S96T001071	0 W	QIC-01	BR-02	SOLID	5.75e02	5.35e+02	93.043 % Recovery
6 SPK	S96T001071	0 W	QIC-01	NO3-02	SOLID	6.14e02	6.16e+02	100.326 % Recovery
6 SPK	S96T001071	0 W	QIC-01	PO4-02	SOLID	5.46e02	4.78e+02	87.546 % Recovery
6 SPK	S96T001071	0 W	QIC-01	SO4-02	SOLID	6.31e02	5.87e+02	93.027 % Recovery
6 SPK	S96T001071	0 W	QIC-01	OXALATE2	SOLID	5.37e02	5.43e+02	101.117 % Recovery
7 SAMPLE	S96T001072	0 W	QIC-01	F-02	SOLID	N/A	< 2.677e+02	267.600 ug/g
7 SAMPLE	S96T001072	0 W	QIC-01	CL-02	SOLID	N/A	2.256e+03	350.100 ug/g
7 SAMPLE	S96T001072	0 W	QIC-01	NO2-02	SOLID	N/A	2.373e+04	2203.000 ug/g
7 REJECT	S96T001072	0 W	QIC-01	BR-02	SOLID	N/A	< 2.594e+03	ug/g
7 SAMPLE	S96T001072	0 W	QIC-01	NO3-02	SOLID	N/A	5.533e+05	2881.000 ug/g
7 SAMPLE	S96T001072	0 W	QIC-01	PO4-02	SOLID	N/A	1.336e+04	2448.000 ug/g
7 SAMPLE	S96T001072	0 W	QIC-01	SO4-02	SOLID	N/A	8.858e+03	2799.000 ug/g
7 SAMPLE	S96T001072	0 W	QIC-01	OXALATE2	SOLID	N/A	3.113e+03	2162.000 ug/g
8 DUP	S96T001072	0 W	QIC-01	F-02	SOLID	<2.68e2	<2.76e2	RPD
8 DUP	S96T001072	0 W	QIC-01	CL-02	SOLID	2.26e+03	2.40e+03	6.009 RPD
8 DUP	S96T001072	0 W	QIC-01	NO2-02	SOLID	2.37e+04	2.56e+04	7.708 RPD
8 DUP	S96T001072	0 W	QIC-01	BR-02	SOLID	<2.59e3	<2.67e3	RPD
8 DUP	S96T001072	0 W	QIC-01	NO3-02	SOLID	5.53e+05	5.35e+05	3.309 RPD
8 DUP	S96T001072	0 W	QIC-01	PO4-02	SOLID	1.34e+04	1.43e+04	6.498 RPD
8 DUP	S96T001072	0 W	QIC-01	SO4-02	SOLID	8.86e+03	1.00e+04	12.089 RPD
8 DUP	S96T001072	0 W	QIC-01	OXALATE2	SOLID	3.11e+03	3.48e+03	11.229 RPD

Final page for worklist# 7493

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

James Joyce 5/7/96
Reviewer Signature _____ Date _____

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				06-May-96			
Worklist#: 7493				Data File: 7493AP.CSV							
		Seq	Type	Sample #	Seq#		Data File	Sample Name	Dilution		
-	=>	1	CCB	S96T001071 S96T001071 S96T001071 S96T001071 S96T001072 S96T001072 S96T001072	-	1	96041801.d01	INSTR BLANK	1.00		
	=>	2	CCV			2	96041801.d02	133N9-E STD	101.00		
	=>	3	BLNK-PREP				96041801.d03	133N9-E STD	101.00		
	=>	4	SAMPLE			3	96041801.d04	PREP BLANK	1.00		
	=>	5	DUP			4	96041801.d05	S96T001071 SAMPL	101.00		
	=>	6	SPK			5	96041801.d06	S96T001071 DUP	101.00		
	=>	7	SAMPLE			6	96041801.d07	S96T001071 SPIKE	101.00		
	=>	8	DUP			7	96041801.d08	S96T001072 SAMPL	101.00		
					8	96041801.d09	S96T001072 DUP	101.00			
+					+						

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)


```
Record (10) QC posted.  
Record (11) QC posted.  
Record (12) QC posted.  
Record (13) QC posted.  
Record (14) QC posted.  
Record (15) QC posted.  
Record (16) QC posted.  
Record (17) QC posted.  
Record (18) QC posted.  
Record (19) QC posted.  
Record (20) QC posted.  
Record (21) QC posted.  
Record (22) QC posted.  
Record (23) QC posted.  
Record (24) QC posted.  
Record (25) Result LESS than detection; Storing anyway...  
Record (25) Sample#(S96T001071) Param(F-02) Result posted.  
Record (26) Sample#(S96T001071) Param(CL-02) Result posted.  
Record (27) Sample#(S96T001071) Param(N02-02) Result posted.
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Keys(F5) NextPage(Page Dn) PrevPage(Page Up) Help(F2) >

HELP -- LogFile Viewer

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Record (44) QC posted.
Record (45) QC posted.
Record (46) QC posted.
Record (47) QC posted.
Record (48) QC posted.
Record (49) Sample#(S96T001072) Param(F-02) Result posted.
Record (50) Sample#(S96T001072) Param(CL-02) Result posted.
Record (51) Sample#(S96T001072) Param(NO2-02) Result posted.
Record (52) Result LESS than detection; Storing anyway...
Record (52) Sample#(S96T001072) Param(BR-02) Result posted.
Record (53) Sample#(S96T001072) Param(NO3-02) Result posted.
Record (54) Sample#(S96T001072) Param(PO4-02) Result posted.
Record (55) Sample#(S96T001072) Param(SO4-02) Result posted.
Record (56) Sample#(S96T001072) Param(OXALATE2) Result posted.
NOTICE: No ND Result entries required for @IC-01/SOLID Sample# S96T001072...
Record (57) QC posted.
Record (58) QC posted.
Record (59) QC posted.
Record (60) QC posted.
```

Keys(F5) NextPage(Page Dn) PrevPage(Page Up) Help(F2) >

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Sample Name: INSTR BLANK	Date: 04/18/1996 11:13:44
Data File : C:\DX\DATA\96041801.d01	
Method : C:\DX\METHOD\KIT.MET	WHC-SD-WM-DP-184, REV.1
ACI Address: 1 System: 1 Inject#: 1	Detector: CDM-1
Analyst :	Column: AG4A/AS4A anion column

=====

Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 1 3150 5Hz 0.00 10.50 100

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	3.19	nitrate	0.365	46	273	1	-5.44
Totals			0.365	46	273		

File: 96041801.d01 Sample: INSTR BLANK

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 291 TO 299.

Sample Name: 133N9-E STD

Date: 04/18/1996 11:31:04

Data File : C:\DX\DATA\96041801.d02

WHC-SD-WM-DP-184, REV. 1

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 2

Detector: CDM-1

Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3150	5Hz	0.00	10.50		100

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	84	366	2	
2	1.06	fluoride	56.917	2375	11084	2	0.95
3	1.57	chloride	76.272	2062	9476	1	-2.08
4	1.86	nitrite	569.382	9409	51567	1	-4.12
5	2.75	bromide	565.118	5505	33724	1	-0.60
6	3.13	nitrate	596.376	6414	46587	1	-0.11
7	4.48	phosphate	511.048	1619	20303	1	-4.00
8	5.76	sulfate	619.775	4765	63803	1	-5.26
9	7.52	oxalate	537.175	2289	43394	1	-5.37
Totals			3532.063	34521	280304		

File: 96041801.d02 Sample: 133N9-E STD