OCTOBER 27, 2011

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FINAL REPORT FOR THE SAMPLES RECEIVED IN OCTOBER, 2011, FOR SAF F02-007

Document No.: 20111615 Rev.0
SDG: 222S20111615

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Advanced Technologies and Laboratories International, Inc.

Date Published
October 27, 2011

Prepared for:

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Prepared by:

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222-S LAB

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Julie Osborn, October 27, 2011
J.A. Osborn, Project Manager

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222-S LABORATORY

FINAL REPORT FOR THE SAMPLES RECEIVED IN SEPTEMBER, 2011, FOR SAF F02-007

1.0 INTRODUCTION

This final report presents the result for the twenty-four resin soil samples collected on June 28, 2011 and July 1, 2011. The samples were analyzed in accordance with Sampling Authorization Form (SAF) F02-007 and ATL-MP-1011; *ATL Quality Assurance Project Plan for 222-S Laboratory* (QAPP). The following attachments are included in this report.

Attachment 1	Data Summary Report
Attachment 2	Holding Time Report
Attachment 3	Receipt Paperwork

2.0 SAMPLE RECEIPT AND HANDLING

The samples were received on October 12, 2011, in good condition and with adequate paperwork.

3.0 ANALYTICAL RESULTS SUMMARY

The Data Summary Report (Attachment 1) presents the final analytical results for those analytes requested in the SAF. The "Det Limit" column in Attachment 1 contains the method detection limit (MDL).

In Attachment 1, the column labeled "A#" indicates the aliquot class or the method used for sample preparation before analysis. Since the preparation for cyanide is included in the analysis procedure, this column is left blank.

The "Qual Flags" column in Attachment 1 contains data qualifier flags that are defined as follows:

- "B" is applied to sample concentrations that are greater than the MDL but less than the estimated quantitation limit (EQL).
- "N" indicates that the matrix spike (MS) or matrix spike duplicate (MSD) recovery failed to me the criteria in the QAPP.
- "X" is a user defined flag. In this report it was included to indicate a matrix interference problem with the samples, as discussed in Section 4.0.

Manual calculations using rounded results from the Data Summary Report or result calculation forms may differ slightly from the actual results derived from the raw data.

4.0 CYANIDE

The cyanide analysis by distillation and spectrophotometry was performed on the solid resin samples. The SW-846 holding time of 14 days was missed for all samples. The holding time

was exceeded by approximately three months when the samples were received at the 222-S Laboratory on October 12, 2011. All QC requirements of the laboratory QAPP were met, except those discussed below.

Three of the four method blanks included in the analytical batch had results that were slightly above the method detection limit, but below the quantitation limit. All of the positive blank results were less than 5% of the potentially affected sample results, so no qualifier flag was applied and no reanalysis was required.

Two MS and two MSD samples were included in the analytical batch. The recovery for one of the two MS samples was outside of the acceptance range indicated in the QAPP. The recovery for the second MS met the criteria, but the recovery of the associated MSD failed low and the relative percent difference between the MS and MSD failed to meet the acceptance criteria in the QAPP. It is the laboratory's opinion that the spike failures are due to the anion resin bead matrix of the samples, as discussed below. The analysis of the spiked samples was repeated using the Ethylenediaminetetraacetic acid (EDTA) procedure. The recovery of the spikes was improved, but no cyanide was reported for the samples. It is the laboratory's opinion that reporting the water distillation results will provide conservative estimates of the sample results; although they may be biased low, as indicated by low spike recoveries.

Due to the matrix complexity of these resin samples, neither the water distillation procedure (LA-695-102) nor the EDTA procedure (LA-695-103) are effective for obtaining accurate values for the cyanide in these samples. The water distillation procedure is able to remove part of the cyanide from the resin beads; but the EDTA method does not seem to pull any cyanide off the beads at all. Without more information of the brand name and type of the anion exchange beads, we cannot go further in our investigation of the recovery failures. Recoveries for the continuing calibration verification and low level standards were within the acceptance ranges, indicating instrument functionality is sufficient and working properly for analysis.

5.0 PROCEDURES

Table 1 lists the analytical procedure used for analysis of this sample.

Table 1. Analytical Procedures.

Analysis	Preparation Method	Analysis Procedure
Cyanide	LA-695-102 Rev. M-0 SW-846 9010C	LA-695-102 Rev. M-0 SW-846 9014

6.0 REFERENCES

ATL-MP-1011, 2011, *ATL Quality Assurance Project Plan for 222-S Laboratory*, Rev. 10-A, Applied Technologies and Laboratories International, Inc., Richland, Washington.

Sampling Authorization Form F02-007; 100-KR-4 Pump & Treat – Spent Resin Waste Designation, 2011, CH2M Hill, Plateau Remediation Company, Richland, Washington.

SW-846, 1986, *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods,* Third Edition, as amended, U.S. Environmental Protection Agency, Washington, D.C.

Attachment 1

DATA SUMMARY REPORT

OCTOBER 27, 2011

27-oct-2011 11:58:54
WSCF Diversion FY-2012 RL30
Data Summary Report

Customer Group	Customer Sample ID	SAMPLE_R	CAS #	ANALYTE	RESULT_UNIT	STANDARD	BLANK	RESULT	DUPLICATE	AVERAGE	RPD	SPK_REC	Det Limit	COUNT_ERR	Flags
222S20111615	B2F1N1	S11M000554	57-12-5	Cyanide	ug/g	102	<4.00E-03	3.45	n/a	n/a	n/a	n/a	0.193	n/a	XN
222S20111615	B2F1N2	S11M000555	57-12-5	Cyanide	ug/g	102	4.70E-03	1.44	n/a	n/a	n/a	n/a	0.196	n/a	BXN
222S20111615	B2F1P1	S11M000556	57-12-5	Cyanide	ug/g	102	4.70E-03	11.1	n/a	n/a	n/a	n/a	0.194	n/a	XN
222S20111615	B2F1P2	S11M000557	57-12-5	Cyanide	ug/g	102	4.70E-03	1.67	n/a	n/a	n/a	n/a	0.194	n/a	BXN
222S20111615	B2F1P3	S11M000558	57-12-5	Cyanide	ug/g	102	4.70E-03	7.12	6.57	6.84	8.03	77.2	0.194	n/a	XN
222S20111615	B2F1P4	S11M000559	57-12-5	Cyanide	ug/g	102	4.70E-03	3.04	n/a	n/a	n/a	n/a	0.195	n/a	XN
222S20111615	B2F1P5	S11M000560	57-12-5	Cyanide	ug/g	102	4.70E-03	0.800	n/a	n/a	n/a	n/a	0.195	n/a	BXN
222S20111615	B2F1P6	S11M000561	57-12-5	Cyanide	ug/g	102	4.70E-03	1.86	n/a	n/a	n/a	n/a	0.195	n/a	BXN
222S20111615	B2F8K0	S11M000544	57-12-5	Cyanide	ug/g	103	4.89E-03	0.523	n/a	n/a	n/a	n/a	0.195	n/a	BXN
222S20111615	B2F8K1	S11M000545	57-12-5	Cyanide	ug/g	102	<4.00E-03	0.424	n/a	n/a	n/a	n/a	0.194	n/a	BXN
222S20111615	B2F8K2	S11M000546	57-12-5	Cyanide	ug/g	102	<4.00E-03	0.749	n/a	n/a	n/a	n/a	0.194	n/a	BXN
222S20111615	B2F8K3	S11M000547	57-12-5	Cyanide	ug/g	102	<4.00E-03	1.43	n/a	n/a	n/a	n/a	0.195	n/a	BXN
222S20111615	B2F8K4	S11M000548	57-12-5	Cyanide	ug/g	102	<4.00E-03	0.983	n/a	n/a	n/a	n/a	0.194	n/a	BXN
222S20111615	B2F8K5	S11M000549	57-12-5	Cyanide	ug/g	102	<4.00E-03	0.831	n/a	n/a	n/a	n/a	0.194	n/a	BXN
222S20111615	B2F8K6	S11M000550	57-12-5	Cyanide	ug/g	102	<4.00E-03	0.655	n/a	n/a	n/a	n/a	0.195	n/a	BXN
222S20111615	B2F8K7	S11M000551	57-12-5	Cyanide	ug/g	102	<4.00E-03	0.820	n/a	n/a	n/a	n/a	0.194	n/a	BXN
222S20111615	B2F8K8	S11M000552	57-12-5	Cyanide	ug/g	102	<4.00E-03	0.720	n/a	n/a	n/a	n/a	0.195	n/a	BXN
222S20111615	B2F8K9	S11M000553	57-12-5	Cyanide	ug/g	102	<4.00E-03	0.748	n/a	n/a	n/a	n/a	0.192	n/a	BXN
222S20111615	B2F8L0	S11M000538	57-12-5	Cyanide	ug/g	103	4.89E-03	0.781	0.700	0.740	10.8	23.7	0.195	n/a	BXN
222S20111615	B2F8L1	S11M000539	57-12-5	Cyanide	ug/g	103	4.89E-03	0.702	n/a	n/a	n/a	n/a	0.196	n/a	BXN
222S20111615	B2F8L2	S11M000540	57-12-5	Cyanide	ug/g	103	4.89E-03	0.574	n/a	n/a	n/a	n/a	0.193	n/a	BXN
222S20111615	B2F8L3	S11M000541	57-12-5	Cyanide	ug/g	103	4.89E-03	0.557	n/a	n/a	n/a	n/a	0.196	n/a	BXN
222S20111615	B2F8L4	S11M000542	57-12-5	Cyanide	ug/g	103	4.89E-03	1.07	n/a	n/a	n/a	n/a	0.194	n/a	BXN
222S20111615	B2F8L5	S11M000543	57-12-5	Cyanide	ug/g	103	4.89E-03	0.966	n/a	n/a	n/a	n/a	0.193	n/a	BXN

NA = Not Analyzed, ND = Not Detected

X - Comment

N - Spike Outside Range

B - Estimated

Attachment 2

HOLDING TIME REPORT

Hold Time Report - Sample Group 20111615

Holding Time	Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Holding Time Missed
07/12/11 08:34	20111615	S11M000544	SOLID	Cyanide - SW846 9014	Distillation - SW846 9010C	06/28/11 08:34	10/12/11 12:30	N/A	10/18/11 16:00	Y
07/12/11 08:45	20111615	S11M000545	SOLID	Cyanide - SW846 9014	Distillation - SW846 9010C	06/28/11 08:45	10/12/11 12:30	N/A	10/18/11 16:00	Y
07/12/11 08:57	20111615	S11M000551	SOLID	Cyanide - SW846 9014	Distillation - SW846 9010C	06/28/11 08:57	10/12/11 12:30	N/A	10/18/11 16:00	Y
07/12/11 09:20	20111615	S11M000553	SOLID	Cyanide - SW846 9014	Distillation - SW846 9010C	06/28/11 09:20	10/12/11 12:30	N/A	10/18/11 16:00	Y
07/12/11 09:35	20111615	S11M000552	SOLID	Cyanide - SW846 9014	Distillation - SW846 9010C	06/28/11 09:35	10/12/11 12:30	N/A	10/18/11 16:00	Y
07/12/11 09:45	20111615	S11M000539	SOLID	Cyanide - SW846 9014	Distillation - SW846 9010C	06/28/11 09:45	10/12/11 12:30	N/A	10/18/11 16:00	Y
07/12/11 10:05	20111615	S11M000550	SOLID	Cyanide - SW846 9014	Distillation - SW846 9010C	06/28/11 10:05	10/12/11 12:30	N/A	10/18/11 16:00	Y
07/12/11 10:15	20111615	S11M000538	SOLID	Cyanide - SW846 9014	Distillation - SW846 9010C	06/28/11 10:15	10/12/11 12:30	N/A	10/18/11 16:00	Y
07/12/11 10:30	20111615	S11M000540	SOLID	Cyanide - SW846 9014	Distillation - SW846 9010C	06/28/11 10:30	10/12/11 12:30	N/A	10/18/11 16:00	Y
07/12/11 10:45	20111615	S11M000547	SOLID	Cyanide - SW846 9014	Distillation - SW846 9010C	06/28/11 10:45	10/12/11 12:30	N/A	10/18/11 16:00	Y
07/12/11 10:55	20111615	S11M000549	SOLID	Cyanide - SW846 9014	Distillation - SW846 9010C	06/28/11 10:55	10/12/11 12:30	N/A	10/18/11 16:00	Y
07/12/11 11:05	20111615	S11M000546	SOLID	Cyanide - SW846 9014	Distillation - SW846 9010C	06/28/11 11:05	10/12/11 12:30	N/A	10/18/11 16:00	Y
07/12/11 11:15	20111615	S11M000548	SOLID	Cyanide - SW846 9014	Distillation - SW846 9010C	06/28/11 11:15	10/12/11 12:30	N/A	10/18/11 16:00	Y
07/12/11 11:30	20111615	S11M000542	SOLID	Cyanide - SW846 9014	Distillation - SW846 9010C	06/28/11 11:30	10/12/11 12:30	N/A	10/18/11 16:00	Y
07/12/11 11:44	20111615	S11M000543	SOLID	Cyanide - SW846 9014	Distillation - SW846 9010C	06/28/11 11:44	10/12/11 12:30	N/A	10/18/11 16:00	Y
07/12/11 11:50	20111615	S11M000541	SOLID	Cyanide - SW846 9014	Distillation - SW846 9010C	06/28/11 11:50	10/12/11 12:30	N/A	10/18/11 16:00	Y
07/15/11 08:15	20111615	S11M000561	SOLID	Cyanide - SW846 9014	Distillation - SW846 9010C	07/01/11 08:15	10/12/11 12:30	N/A	10/18/11 16:00	Y
07/15/11 08:25	20111615	S11M000556	SOLID	Cyanide - SW846 9014	Distillation - SW846 9010C	07/01/11 08:25	10/12/11 12:30	N/A	10/18/11 16:00	Y
07/15/11 08:30	20111615	S11M000559	SOLID	Cyanide - SW846 9014	Distillation - SW846 9010C	07/01/11 08:30	10/12/11 12:30	N/A	10/18/11 16:00	Y
07/15/11 08:40	20111615	S11M000558	SOLID	Cyanide - SW846 9014	Distillation - SW846 9010C	07/01/11 08:40	10/12/11 12:30	N/A	10/18/11 16:00	Y
07/15/11 08:45	20111615	S11M000557	SOLID	Cyanide - SW846 9014	Distillation - SW846 9010C	07/01/11 08:45	10/12/11 12:30	N/A	10/18/11 16:00	Y
07/15/11 08:50	20111615	S11M000555	SOLID	Cyanide - SW846 9014	Distillation - SW846 9010C	07/01/11 08:50	10/12/11 12:30	N/A	10/18/11 16:00	Y
07/15/11 09:00	20111615	S11M000560	SOLID	Cyanide - SW846 9014	Distillation - SW846 9010C	07/01/11 09:00	10/12/11 12:30	N/A	10/18/11 16:00	Y
07/21/11 09:10	20111615	S11M000554	SOLID	Cyanide - SW846 9014	Distillation - SW846 9010C	07/07/11 09:10	10/12/11 12:30	N/A	10/18/11 16:00	Y

Attachment 3

RECEIPT PAPERWORK

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	LO-090-101 Rev E.E.0

Date Samples Received: 10.12.11 Group #: 20111615

Number of Samples: 24

Sample Custodian: RTSteele RTSteele

Sample Custodian to Complete:

Action	Yes	No	N/A	Comments
RSA/COC provided?	✓			
RSR provided?			✓	
Verify GKI is complete	✓	✓		☑ In Project File RTSteele Found.
Check that outer custody seal is intact, if present			✓	
Record cooler temperature in centigrade, as appropriate			✓	☐ Check if no cooler and/or no ice
Samples are intact and in good condition	✓			If No, provide comments on back
Verify that COC or RSA is accurate and complete, containing the following information:				
• Client name and client sample number	✓			
• Date and time of sampling	✓			
• Sampling location or origin	✓			
• Container type, size, and number	✓			
• Preservatives (if used) are noted on the COC/RSA and sample bottle			✓	
• Analysis request is clear	✓			
• Signature of persons relinquishing and receiving samples	✓			
• Date and/or time of sample custody exchange	✓			
Verify that sample numbers on containers match the COC and/or RSA	✓			
Samples stored properly (e.g., refrigeration)	✓			

Notify the PM immediately if any problems are noted. (Any "No" checked requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? yes PM Initials: JPR Date 10-12-11

If No, comment on communication and resolution:

Other Comments:

A-6005-342 (REV 2)

OCTOBER 27, 2011

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. F02-007-SHIPPED Page 1 of 2

Collector: BECAN / ROMO	Contact/Requestor: Heather Medley Heather_A_Medley@rl.gov	Telephone No. 372-1488 MSIN S3-30 FAX (509) 372-0456
SAF No.: F02-007	Sample Origin: ~~KWY-10 & KW6-11~~ KX7-11 10-12-11	Purchase Order/Charge Code: 401630/ES20
Project Title: 100-KR-4 PUMP & TREAT - SPENT RESIN WASTE DESIGNATION	Logbook/ Work Package No.: N/A	Ice Chest No.: 6105-296 Temp.: N/A
Shipped To (Lab): 222-S	Method of Shipment: Govt. vehicle	Bill of Lading/Air Bill No.: N/A
Protocol	Data Turnaround: 3 weeks	Parts and Return No.: N/A

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B2F8L0	S11M000538	OS	06-28-11	10:15	1/ 500mL	Cyanide (Total) 335.2	None
B2F8L1	539	OS	06-28-11	09:45	1/ 500mL	Cyanide (Total) 335.2	None
B2F8L2	540	OS	06-28-11	10:30	1/ 500mL	Cyanide (Total) 335.2	None
B2F8L3	541	OS	06-28-11	11:50	1/ 500mL	Cyanide (Total) 335.2	None
B2F8L4	542	OS	06-28-11	11:30	1/ 500mL	Cyanide (Total) 335.2	None
B2F8L5	543	OS	06-28-11	11:44	1/ 500mL	Cyanide (Total) 335.2	None
B2F8K0	544	OS	06-28-11	08:34	1/ 500mL	Cyanide (Total) 335.2	None
B2F8K1	545	OS	06-28-11	08:45	1/ 500mL	Cyanide (Total) 335.2	None
B2F8K2	546	OS	06-28-11	11:05	1/ 500mL	Cyanide (Total) 335.2	None
B2F8K3	547	OS	06-28-11	10:45	1/ 500mL	Cyanide (Total) 335.2	None

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ◯ Yes ◯ No

LO# 112563

SPECIAL INSTRUCTIONS: GRP# 20111615

Hold Time

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
[signature]		[signature]	OCT 12 2011 1220	L.D. Wall CHPRC	L.D. Wall	[signature]	OCT 12 2011 1220
L.D. Wall CHPRC	L.D. Wall	[signature]	OCT 12 2011 1230	RTSteele [signature] ATL			OCT 12 2011 1230
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

OCTOBER 27, 2011

Assembler	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. No. #2F02-007-SHIPPED Page 2 of 2
Collector: Becan/Romo	Contact/Requestor: Heather Medley Heather _A_Medley@rl.gov	Telephone No. 372-1488 MSIN S3-30 FAX (509) 372-0456
SAF No.: F02-007	Sample Origin: KX7-11	Purchase Order/Charge Code: 401630/ES20
Project Title: 100-KP-4 PUMP & TREAT - SPENT RESIN WASTE DESIGNATION	Logbook/ Work Package No.: N/A	Ice Chest No.: GWS-296 Temp.: N/A
Shipped To (Lab): 222-S	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol	Data Turnaround: 3 weeks	Parts and Return No.: N/A

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B2F8K4	S11M000548	OS	06-28-11	11:15	1/ 500mL	Cyanide (Total) 335.2	None
B2F8K5	549	OS	06-28-11	10:55	1/ 500mL	Cyanide (Total) 335.2	None
B2F8K6	550	OS	06-28-11	10:05	1/ 500mL	Cyanide (Total) 335.2	None
B2F8K7	551	OS	06-28-11	08:57	1/ 500mL	Cyanide (Total) 335.2	None
B2F8K8	552	OS	06-28-11	09:35	1/ 500mL	Cyanide (Total) 335.2	None
B2F8K9	553	OS	06-28-11	09:20	1/ 500mL	Cyanide (Total) 335.2	None

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ◯ Yes ◯ No

SPECIAL INSTRUCTIONS: Grp # 20111615

Hold Time

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
[signature]	OCT 12 2011 1220	L.D. Wall CHPRC [signature]	OCT 12 2011 1220
L.D. Wall CHPRC [signature]	OCT 12 2011 1230	RHeegle Rlitted ATL	OCT 12 2011 1230

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

OCTOBER 27, 2011

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. F02-007-SHIPPED

Page 1 of 1

Assembler		
Collector: Romo	Contact/Requestor: Heather Medley Heather_A_Medley@rl.gov	Telephone No. 372-1488 MSIN S3-30 FAX (509) 372-0456
SAF No.: F02-007	Sample Origin: KWY-10 & KW6-11	Purchase Order/Charge Code: 401630/ES20
Project Title: 100-KR-4 PUMP & TREAT - SPENT RESIN WASTE DESIGNATION	Logbook/ Work Package No.: N/A	Ice Chest No.: GWS-2916 Temp.: N/A
Shipped To (Lab): 222-S	Method of Shipment: Govt. vehicle	Bill of Lading/Air Bill No.: N/A
Protocol	Data Turnaround: 3 weeks	Parts and Return No.: N/A

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B2F1N1	S11M000554	OS	7-7-11	09:10	1/ 500mL	Cyanide (Total) 335.2	None
B2F1N2	555	OS	7-1-11	08:50	1/ 500mL	Cyanide (Total) 335.2	None
B2F1P1	556	OS	7-1-11	08:25	1/ 500mL	Cyanide (Total) 335.2	None
B2F1P2	557	OS	7-1-11	08:45	1/ 500mL	Cyanide (Total) 335.2	None
B2F1P3	558	OS	7-1-11	08:40	1/ 500mL	Cyanide (Total) 335.2	None
B2F1P4	559	OS	7-1-11	08:30	1/ 500mL	Cyanide (Total) 335.2	None
B2F1P5	560	OS	7-1-11	09:00	1/ 500mL	Cyanide (Total) 335.2	None
B2F1P6	561	OS	7-1-11	08:15	1/ 500mL	Cyanide (Total) 335.2	None

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ◯ Yes ◯ No

WO# 112628 10/12/11

SPECIAL INSTRUCTIONS: GRP# 20111615

Hold Time

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
			OCT 12 2011 1200	L.D. Wall CHPRC		L.D. Wall	OCT 12 2011 1200
L.D. Wall CHPRC		L.D. Wall	OCT 12 2011 1230			RTSteele	OCT 12 2011 1230
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)