

Daily Analysis Runlog For Sequence/QC Batch ID # LB95221

Review By		Review On				
SubDirectory		LB95221		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP64319,WP64320,WP64321,WP64322,WP64323,WP64324,WP64325				
ICV Standard		W1542				
CCV Standard		WP64326				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP64328,WP59958,WP60878				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	05/09/18 11:21		OK
2	5.0PPBCN	5.0PPBCN	CAL2	05/09/18 11:21		OK
3	10PPBCN	10PPBCN	CAL3	05/09/18 11:21		OK
4	50PPBCN	50PPBCN	CAL4	05/09/18 11:21		OK
5	100PPBCN	100PPBCN	CAL5	05/09/18 11:21		OK
6	250PPBCN	250PPBCN	CAL6	05/09/18 11:21		OK
7	500PPBCN	500PPBCN	CAL7	05/09/18 11:21		OK
8	ICV1	ICV1	ICV	05/09/18 13:44		OK
9	ICB1	ICB1	ICB	05/09/18 13:44		OK
10	CCV1	CCV1	CCV	05/09/18 13:44		OK
11	CCB1	CCB1	CCB	05/09/18 13:44		OK
12	PB109083BL	PB109083BL	MB	05/09/18 13:44		OK
13	PB109083BS	PB109083BS	LCS	05/09/18 13:44		OK
14	LOWPB109083	LOWPB109083	SAM	05/09/18 13:44		OK
15	HIGHPB109083	HIGHPB109083	SAM	05/09/18 13:44		OK
16	J1585-02	FMS-SOIL-1	SAM	05/09/18 13:44		OK
17	J1585-02DUP	FMS-SOIL-1DUP	DUP	05/09/18 13:44		OK
18	J1585-02MS	FMS-SOIL-1MS	MS	05/09/18 13:44		OK
19	J1585-02MSD	FMS-SOIL-1MSD	MSD	05/09/18 13:52		OK
20	J1585-12	FMS-SOIL-2	SAM	05/09/18 13:52		OK
21	J2669-05	SU-02-050818	SAM	05/09/18 13:52		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB95221

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SubDirectory		LB95221		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP64319,WP64320,WP64321,WP64322,WP64323,WP64324,WP64325				
ICV Standard		W1542				
CCV Standard		WP64326				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP64328,WP59958,WP60878				
22	CCV2	CCV2	CCV	05/09/18 13:52		OK
23	CCB2	CCB2	CCB	05/09/18 13:52		OK
24	J2803-01	LS-OILY-STONE	SAM	05/09/18 13:52		OK
25	J2805-01	WC-11(10-15)D3	SAM	05/09/18 13:52		OK
26	J2805-03	WC-12(5-10)I4	SAM	05/09/18 13:52		OK
27	J2806-01	CS-OILY-STONE	SAM	05/09/18 13:52		OK
28	J2807-01	BLACK-BROWN-SO	SAM	05/09/18 13:52		OK
29	J2807-06	RED-BLACK-CONCF	SAM	05/09/18 13:52		OK
30	J2807-09	CONCRETE-FOOTIN	SAM	05/09/18 13:59		OK
31	PB109084BL	PB109084BL	MB	05/09/18 13:59		OK
32	PB109084BS	PB109084BS	LCS	05/09/18 13:59		OK
33	J2811-02	TP-4A	SAM	05/09/18 13:59		OK
34	CCV3	CCV3	CCV	05/09/18 13:59		OK
35	CCB3	CCB3	CCB	05/09/18 13:59		OK
36	J2811-02DUP	TP-4ADUP	DUP	05/09/18 13:59		OK
37	J2811-02MS	TP-4AMS	MS	05/09/18 13:59		OK
38	J2811-02MSD	TP-4AMSD	MSD	05/09/18 13:59		OK
39	J2811-05	TP-6A	SAM	05/09/18 13:59		OK
40	J2811-08	TP-6B	SAM	05/09/18 13:59		OK
41	CCV4	CCV4	CCV	05/09/18 14:03		OK
42	CCB4	CCB4	CCB	05/09/18 14:03		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB95221	Date Received:	
Client Sample ID:	HIGHPB109083	SDG No.:	LB95221
Lab Sample ID:	HIGHPB109083	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.49		1	0.003		0.005	mg/L		05/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/8/2018 12:00:00 AM
Project:	LB95221	Date Received:	5/8/2018 12:00:00 AM
Client Sample ID:	FMS-SOIL-1	SDG No.:	LB95221
Lab Sample ID:	J1585-02	Matrix:	Solid
Level (low/med):	low	% Solid:	93.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.071	J	1	0.034		0.26	mg/Kg	05/09/2018	05/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/8/2018 12:00:00 AM
Project:	LB95221	Date Received:	5/8/2018 12:00:00 AM
Client Sample ID:	FMS-SOIL-2	SDG No.:	LB95221
Lab Sample ID:	J1585-12	Matrix:	Solid
Level (low/med):	low	% Solid:	93.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.018	U	1	0.034		0.26	mg/Kg	05/09/2018	05/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/8/2018 12:00:00 AM
Project:	LB95221	Date Received:	5/8/2018 12:00:00 AM
Client Sample ID:	SU-02-050818	SDG No.:	LB95221
Lab Sample ID:	J2669-05	Matrix:	Solid
Level (low/med):	low	% Solid:	88

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.11	J	1	0.036		0.27	mg/Kg	05/09/2018	05/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/8/2018 12:00:00 AM
Project:	LB95221	Date Received:	5/8/2018 12:00:00 AM
Client Sample ID:	LS-OILY-STONE	SDG No.:	LB95221
Lab Sample ID:	J2803-01	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.041	J	1	0.031		0.24	mg/Kg	05/09/2018	05/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/8/2018 12:00:00 AM
Project:	LB95221	Date Received:	5/8/2018 12:00:00 AM
Client Sample ID:	WC-11(10-15)D3	SDG No.:	LB95221
Lab Sample ID:	J2805-01	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.038	J	1	0.032		0.24	mg/Kg	05/09/2018	05/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/8/2018 12:00:00 AM
Project:	LB95221	Date Received:	5/8/2018 12:00:00 AM
Client Sample ID:	WC-12(5-10)I4	SDG No.:	LB95221
Lab Sample ID:	J2805-03	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.16	J	1	0.032		0.24	mg/Kg	05/09/2018	05/09/2018	9012B

Report of Analysis

Client:		Date Collected:	5/8/2018 12:00:00 AM
Project:	LB95221	Date Received:	5/8/2018 12:00:00 AM
Client Sample ID:	CS-OILY-STONE	SDG No.:	LB95221
Lab Sample ID:	J2806-01	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.021	U	1	0.032		0.25	mg/Kg	05/09/2018	05/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/8/2018 12:00:00 AM
Project:	LB95221	Date Received:	5/8/2018 12:00:00 AM
Client Sample ID:	BLACK-BROWN-SOIL	SDG No.:	LB95221
Lab Sample ID:	J2807-01	Matrix:	Solid
Level (low/med):	low	% Solid:	75.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.38		1	0.043		0.33	mg/Kg	05/09/2018	05/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/8/2018 12:00:00 AM
Project:	LB95221	Date Received:	5/8/2018 12:00:00 AM
Client Sample ID:	RED-BLACK-CONCRETE-SLAB	SDG No.:	LB95221
Lab Sample ID:	J2807-06	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.068	J	1	0.031		0.24	mg/Kg	05/09/2018	05/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/8/2018 12:00:00 AM
Project:	LB95221	Date Received:	5/8/2018 12:00:00 AM
Client Sample ID:	CONCRETE-FOOTING	SDG No.:	LB95221
Lab Sample ID:	J2807-09	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.072	J	1	0.031		0.23	mg/Kg	05/09/2018	05/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/7/2018 12:00:00 AM
Project:	LB95221	Date Received:	5/8/2018 12:00:00 AM
Client Sample ID:	TP-4A	SDG No.:	LB95221
Lab Sample ID:	J2811-02	Matrix:	Solid
Level (low/med):	low	% Solid:	90.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.32		1	0.035		0.27	mg/Kg	05/09/2018	05/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/8/2018 12:00:00 AM
Project:	LB95221	Date Received:	5/8/2018 12:00:00 AM
Client Sample ID:	TP-6A	SDG No.:	LB95221
Lab Sample ID:	J2811-05	Matrix:	Solid
Level (low/med):	low	% Solid:	89.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.33		1	0.035		0.26	mg/Kg	05/09/2018	05/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/8/2018 12:00:00 AM
Project:	LB95221	Date Received:	5/8/2018 12:00:00 AM
Client Sample ID:	TP-6B	SDG No.:	LB95221
Lab Sample ID:	J2811-08	Matrix:	Solid
Level (low/med):	low	% Solid:	87.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.25	J	1	0.035		0.27	mg/Kg	05/09/2018	05/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB95221	Date Received:	
Client Sample ID:	LOWPB109083	SDG No.:	LB95221
Lab Sample ID:	LOWPB109083	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.01		1	0.003		0.005	mg/L		05/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB95221	Date Received:	
Client Sample ID:	LOWPB109083	SDG No.:	LB95221
Lab Sample ID:	LOWPB109083	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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Color Before:	Clarity Before:	Texture:
Color After:	Clarity After:	Artifacts:
Comments:		

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N = Spiked sample recovery not within control limits



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95221

SDG No.: LB95221

Contract: _____

Lab Code: CHEM

Case No.: LB95221

SAS No.: LB95221

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1	Cyanide	0.088	0.099	88.9		85 - 115		05/09/2018	13:44	lb95221



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95221

SDG No.: LB95221

Contract: _____ Lab Code: CHEM

Case No.: LB95221

SAS No.: LB95221

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Cyanide	0.24	0.25	96		90 - 110		05/09/2018	13:44	lb95221
CCV2	Cyanide	0.25	0.25	100		90 - 110		05/09/2018	13:52	lb95221
CCV3	Cyanide	0.26	0.25	104		90 - 110		05/09/2018	13:59	lb95221
CCV4	Cyanide	0.26	0.25	104		90 - 110		05/09/2018	14:03	lb95221



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95221 **SDG No.:** LB95221
Contract: **Lab Code:** CHEM **Case No.:** LB95221 **SAS No.:** LB95221

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00044	+/-0.005	U		0.005		05/09/2018	13:44	lb95221



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95221

SDG No.: LB95221

Contract:

Lab Code: CHEM

Case No.: LB95221

SAS No.: LB95221

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00017	+/-0.005	U		0.005		05/09/2018	13:44	lb95221
CCB2	Cyanide	0.00045	+/-0.005	U		0.005		05/09/2018	13:52	lb95221
CCB3	Cyanide	0.00086	+/-0.005	U		0.005		05/09/2018	13:59	lb95221
CCB4	Cyanide	0.00058	+/-0.005	U		0.005		05/09/2018	14:03	lb95221



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95221

SDG No.: LB95221

Contract: Lab Code: CHEM

Case No.: LB95221

SAS No.: LB95221

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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GENCHEM
- 3b -
PREPARATION BLANK SUMMARY

Client: LB95221

SDG No.: LB95221

Instrument: Konelab 20

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB109083BL	Cyanide	SOLID		Batch Number:		PB109083		Prep Date:	05/09/2018	
		0.026	<0.24	U		0.24		05/09/2018	13:44	lb95221
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB109084BL	Cyanide	SOLID		Batch Number:		PB109084		Prep Date:	05/09/2018	
		0.001	<0.25	U		0.25		05/09/2018	13:59	lb95221



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB95221 level: low sdg no.: LB95221
contract: lab code: CHEM case no.: LB95221 sas no.: LB95221
matrix: Solid sample id: J1585-02 client id: FMS-SOIL-1MS
Percent Solids for Sample: 93.3 Spiked ID: J1585-02MS Percent Solids for Spike Sample: 93.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.6		0.071	J	2.1	73	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95221 level: low sdg no.: LB95221
contract: lab code: CHEM case no.: LB95221 sas no.: LB95221
matrix: Solid sample id: J1585-02 client id: FMS-SOIL-1MSD
Percent Solids for Sample: 93.3 Spiked ID: J1585-02MSD Percent Solids for Spike Sample: 93.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.6		0.071	J	2.1	73	*	



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB95221 level: low sdg no.: LB95221
contract: lab code: CHEM case no.: LB95221 sas no.: LB95221
matrix: Solid sample id: J2811-02 client id: TP-4AMS
Percent Solids for Sample: 90.2 Spiked ID: J2811-02MS Percent Solids for Spike Sample: 90.2

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.3		0.32		2.2	90		

GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95221 level: low sdg no.: LB95221
contract: lab code: CHEM case no.: LB95221 sas no.: LB95221
matrix: Solid sample id: J2811-02 client id: TP-4AMSD
Percent Solids for Sample: 90.2 Spiked ID: J2811-02MSD Percent Solids for Spike Sample: 90.2

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.5		0.32		2.1	104		

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DUPLICATE SAMPLE SUMMARY

Client: LB95221 Level: LOW SDG No.: LB95221
Contract: _____ Lab Code: CHEM Case No.: LB95221 SAS No.: LB95221
Matrix: Solid Sample ID: J1585-02 Client ID: FMS-SOIL-1DUP
Percent Solids for Sample: 93.3 Duplicate ID J1585-02DUP Percent Solids for Spike Sample: 93.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.071	J	0.031	U	200.0	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB95221 **Level:** LOW **SDG No.:** LB95221
Contract: **Lab Code:** CHEM **Case No.:** LB95221 **SAS No.:** LB95221
Matrix: Solid **Sample ID:** J1585-02MS **Client ID:** FMS-SOIL-1MSD
Percent Solids for Sample: 93.3 **Duplicate ID** J1585-02MSD **Percent Solids for Spike Sample:** 93.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.6		1.6		0		

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DUPLICATE SAMPLE SUMMARY

Client: LB95221 **Level:** LOW **SDG No.:** LB95221
Contract: **Lab Code:** CHEM **Case No.:** LB95221 **SAS No.:** LB95221
Matrix: Solid **Sample ID:** J2811-02 **Client ID:** TP-4ADUP
Percent Solids for Sample: 90.2 **Duplicate ID** J2811-02DUP **Percent Solids for Spike Sample:** 90.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.32		0.31		3		

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DUPLICATE SAMPLE SUMMARY

Client: LB95221 **Level:** LOW **SDG No.:** LB95221
Contract: **Lab Code:** CHEM **Case No.:** LB95221 **SAS No.:** LB95221
Matrix: Solid **Sample ID:** J2811-02MS **Client ID:** TP-4AMSD
Percent Solids for Sample: 90.2 **Duplicate ID** J2811-02MSD **Percent Solids for Spike Sample:** 90.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.3		2.5		8		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB95221

SDG No.: LB95221

Contract:

Lab Code: CHEM

Case No.: LB95221

SAS No.: LB95221

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB109083BS Cyanide	mg/Kg	4.9	4.4		89.8	85 - 115	



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB95221

SDG No.: LB95221

Contract:

Lab Code: CHEM

Case No.: LB95221

SAS No.: LB95221

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB109084BS Cyanide	mg/Kg	5	4.5		90	85 - 115	
