

Daily Analysis Runlog For Sequence/QC Batch ID # LB95533

Review By		Review On				
SubDirectory		LB95533		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP64699,WP64700,WP64701,WP64702,WP64703,WP64704,WP64705				
ICV Standard		W1542				
CCV Standard		WP64706				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP64708,WP64695,WP64696				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	05/22/18 08:18		OK
2	5.0PPBCN	5.0PPBCN	CAL2	05/22/18 08:19		OK
3	10PPBCN	10PPBCN	CAL3	05/22/18 08:19		OK
4	50PPBCN	50PPBCN	CAL4	05/22/18 08:19		OK
5	100PPBCN	100PPBCN	CAL5	05/22/18 08:19		OK
6	250PPBCN	250PPBCN	CAL6	05/22/18 08:19		OK
7	500PPBCN	500PPBCN	CAL7	05/22/18 08:19		OK
8	ICV1	ICV1	ICV	05/22/18 13:08		OK
9	ICB1	ICB1	ICB	05/22/18 13:08		OK
10	CCV1	CCV1	CCV	05/22/18 13:08		OK
11	CCB1	CCB1	CCB	05/22/18 13:08		OK
12	PB109560BL	PB109560BL	MB	05/22/18 13:08		OK
13	PB109560BS	PB109560BS	LCS	05/22/18 13:08		OK
14	J2675-09	HR-05-052118-A	SAM	05/22/18 13:08		OK
15	J2675-09DUP	HR-05-052118-ADUP	DUP	05/22/18 13:08		OK
16	J2675-09MS	HR-05-052118-AMS	MS	05/22/18 13:08		OK
17	J2675-09MSD	HR-05-052118-AMSD	MSD	05/22/18 13:08		OK
18	J2675-11	HR-05-052118-B	SAM	05/22/18 13:08		OK
19	J2679-19	EO-01-052118-A	SAM	05/22/18 13:16		OK
20	J2679-23	EO-01-052118-C	SAM	05/22/18 13:16		OK
21	CCV2	CCV2	CCV	05/22/18 13:16		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB95533

Review By		Review On				
SubDirectory		LB95533		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP64699,WP64700,WP64701,WP64702,WP64703,WP64704,WP64705				
ICV Standard		W1542				
CCV Standard		WP64706				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP64708,WP64695,WP64696				
22	CCB2	CCB2	CCB	05/22/18 13:16		OK
23	J3053-01	FK-GF-02-019-A	SAM	05/22/18 13:16		OK
24	J3053-03	FK-GF-02-019-B	SAM	05/22/18 13:16		OK
25	J3054-01	FK-GF-01-006-A	SAM	05/22/18 13:16		OK
26	J3054-03	FK-GF-01-006-B	SAM	05/22/18 13:16		OK
27	PB109561BL	PB109561BL	MB	05/22/18 13:16		OK
28	PB109561BS	PB109561BS	LCS	05/22/18 13:16		OK
29	J3055-01	PHASE-1	SAM	05/22/18 13:16		OK
30	J3055-01DUP	PHASE-1DUP	DUP	05/22/18 13:23		OK
31	J3055-01MS	PHASE-1MS	MS	05/22/18 13:23		OK
32	J3055-01MSD	PHASE-1MSD	MSD	05/22/18 13:23		OK
33	CCV3	CCV3	CCV	05/22/18 13:23		OK
34	CCB3	CCB3	CCB	05/22/18 13:23		OK
35	J3055-05	PHASE-2	SAM	05/22/18 13:23		OK
36	J3055-09	PHASE-3	SAM	05/22/18 13:23		OK
37	J3056-01	TP-1	SAM	05/22/18 13:23		OK
38	J3056-05	TP-2	SAM	05/22/18 13:23		OK
39	J3058-01	VNJ-229	SAM	05/22/18 13:23		OK
40	J2679-21	EO-01-052118-B	SAM	05/22/18 13:27		OK
41	CCV4	CCV4	CCV	05/22/18 13:48		OK
42	CCB4	CCB4	CCB	05/22/18 13:48		OK



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Report of Analysis

Client:		Date Collected:	5/21/2018 12:00:00 AM
Project:	LB95533	Date Received:	5/21/2018 12:00:00 AM
Client Sample ID:	HR-05-052118-A	SDG No.:	LB95533
Lab Sample ID:	J2675-09	Matrix:	Solid
Level (low/med):	low	% Solid:	94.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.044	J	1	0.034		0.25	mg/Kg	05/22/2018	05/22/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/21/2018 12:00:00 AM
Project:	LB95533	Date Received:	5/21/2018 12:00:00 AM
Client Sample ID:	HR-05-052118-B	SDG No.:	LB95533
Lab Sample ID:	J2675-11	Matrix:	Solid
Level (low/med):	low	% Solid:	89.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.054	J	1	0.035		0.27	mg/Kg	05/22/2018	05/22/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/21/2018 12:00:00 AM
Project:	LB95533	Date Received:	5/21/2018 12:00:00 AM
Client Sample ID:	EO-01-052118-A	SDG No.:	LB95533
Lab Sample ID:	J2679-19	Matrix:	Solid
Level (low/med):	low	% Solid:	90.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	1.1		1	0.035		0.26	mg/Kg	05/22/2018	05/22/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/21/2018 12:00:00 AM
Project:	LB95533	Date Received:	5/21/2018 12:00:00 AM
Client Sample ID:	EO-01-052118-B	SDG No.:	LB95533
Lab Sample ID:	J2679-21	Matrix:	Solid
Level (low/med):	low	% Solid:	91.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.061	J	1	0.034		0.26	mg/Kg	05/22/2018	05/22/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/21/2018 12:00:00 AM
Project:	LB95533	Date Received:	5/21/2018 12:00:00 AM
Client Sample ID:	EO-01-052118-C	SDG No.:	LB95533
Lab Sample ID:	J2679-23	Matrix:	Solid
Level (low/med):	low	% Solid:	91.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.11	J	1	0.035		0.26	mg/Kg	05/22/2018	05/22/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/21/2018 12:00:00 AM
Project:	LB95533	Date Received:	5/21/2018 12:00:00 AM
Client Sample ID:	FK-GF-02-019-A	SDG No.:	LB95533
Lab Sample ID:	J3053-01	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	0.095	J	1	0.036		0.27	mg/Kg	05/22/2018	05/22/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/21/2018 12:00:00 AM
Project:	LB95533	Date Received:	5/21/2018 12:00:00 AM
Client Sample ID:	FK-GF-02-019-B	SDG No.:	LB95533
Lab Sample ID:	J3053-03	Matrix:	Solid
Level (low/med):	low	% Solid:	88.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.077	J	1	0.037		0.28	mg/Kg	05/22/2018	05/22/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/21/2018 12:00:00 AM
Project:	LB95533	Date Received:	5/21/2018 12:00:00 AM
Client Sample ID:	FK-GF-01-006-A	SDG No.:	LB95533
Lab Sample ID:	J3054-01	Matrix:	Solid
Level (low/med):	low	% Solid:	89.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.085	J	1	0.037		0.28	mg/Kg	05/22/2018	05/22/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/21/2018 12:00:00 AM
Project:	LB95533	Date Received:	5/21/2018 12:00:00 AM
Client Sample ID:	FK-GF-01-006-B	SDG No.:	LB95533
Lab Sample ID:	J3054-03	Matrix:	Solid
Level (low/med):	low	% Solid:	88.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.088	J	1	0.035		0.27	mg/Kg	05/22/2018	05/22/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/21/2018 12:00:00 AM
Project:	LB95533	Date Received:	5/21/2018 12:00:00 AM
Client Sample ID:	PHASE-1	SDG No.:	LB95533
Lab Sample ID:	J3055-01	Matrix:	Solid
Level (low/med):	low	% Solid:	90.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.046	J	1	0.035		0.26	mg/Kg	05/22/2018	05/22/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/21/2018 12:00:00 AM
Project:	LB95533	Date Received:	5/21/2018 12:00:00 AM
Client Sample ID:	PHASE-2	SDG No.:	LB95533
Lab Sample ID:	J3055-05	Matrix:	Solid
Level (low/med):	low	% Solid:	90.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.056	J	1	0.035		0.27	mg/Kg	05/22/2018	05/22/2018	9012B

Report of Analysis

Client:		Date Collected:	5/21/2018 12:00:00 AM
Project:	LB95533	Date Received:	5/21/2018 12:00:00 AM
Client Sample ID:	PHASE-3	SDG No.:	LB95533
Lab Sample ID:	J3055-09	Matrix:	Solid
Level (low/med):	low	% Solid:	91

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.042	J	1	0.035		0.26	mg/Kg	05/22/2018	05/22/2018	9012B

Report of Analysis

Client:		Date Collected:	5/21/2018 12:00:00 AM
Project:	LB95533	Date Received:	5/21/2018 12:00:00 AM
Client Sample ID:	TP-1	SDG No.:	LB95533
Lab Sample ID:	J3056-01	Matrix:	Solid
Level (low/med):	low	% Solid:	78.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.43		1	0.04		0.3	mg/Kg	05/22/2018	05/22/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/21/2018 12:00:00 AM
Project:	LB95533	Date Received:	5/21/2018 12:00:00 AM
Client Sample ID:	TP-2	SDG No.:	LB95533
Lab Sample ID:	J3056-05	Matrix:	Solid
Level (low/med):	low	% Solid:	84.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.1	J	1	0.037		0.28	mg/Kg	05/22/2018	05/22/2018	9012B

Report of Analysis

Client:		Date Collected:	5/21/2018 12:00:00 AM
Project:	LB95533	Date Received:	5/21/2018 12:00:00 AM
Client Sample ID:	VNJ-229	SDG No.:	LB95533
Lab Sample ID:	J3058-01	Matrix:	Solid
Level (low/med):	low	% Solid:	90.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.17	J	1	0.035		0.27	mg/Kg	05/22/2018	05/22/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/21/2018 12:00:00 AM
Project:	LB95533	Date Received:	5/21/2018 12:00:00 AM
Client Sample ID:	VNJ-229	SDG No.:	LB95533
Lab Sample ID:	J3058-01	Matrix:	Solid
Level (low/med):	low	% Solid:	90.5

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: LB95533

SDG No.: LB95533

Contract: _____

Lab Code: CHEM

Case No.: LB95533

SAS No.: LB95533

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	0.097	0.099	98		85 - 115		05/22/2018	13:08	lb95533



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95533

SDG No.: LB95533

Contract: _____ Lab Code: CHEM

Case No.: LB95533

SAS No.: LB95533

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		05/22/2018	13:08	lb95533
CCV2	Cyanide	0.24	0.25	96		90 - 110		05/22/2018	13:16	lb95533
CCV3	Cyanide	0.24	0.25	96		90 - 110		05/22/2018	13:23	lb95533
CCV4	Cyanide	0.26	0.25	104		90 - 110		05/22/2018	13:48	lb95533



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95533

SDG No.: LB95533

Contract:

Lab Code: CHEM

Case No.: LB95533

SAS No.: LB95533

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.0012	+/-0.005	U		0.005		05/22/2018	13:08	lb95533

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00083	+/-0.005	U		0.005		05/22/2018	13:08	lb95533
CCB2	Cyanide	0.0021	+/-0.005	U		0.005		05/22/2018	13:16	lb95533
CCB3	Cyanide	0.0013	+/-0.005	U		0.005		05/22/2018	13:23	lb95533
CCB4	Cyanide	0.0009	+/-0.005	U		0.005		05/22/2018	13:48	lb95533



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95533

SDG No.: LB95533

Contract: Lab Code: CHEM

Case No.: LB95533

SAS No.: LB95533

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: LB95533

SDG No.: LB95533

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
PB109560BL	Cyanide	SOLID		Batch Number:		PB109560		Prep Date:	05/22/2018	
		0.031	<0.25	U		0.25		05/22/2018	13:08	lb95533
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB109561BL	Cyanide	SOLID		Batch Number:		PB109561		Prep Date:	05/22/2018	
		0.022	<0.25	U		0.25		05/22/2018	13:16	lb95533



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB95533 level: low sdg no.: LB95533
contract: lab code: CHEM case no.: LB95533 sas no.: LB95533
matrix: Solid sample id: J2675-09 client id: HR-05-052118-AMS
Percent Solids for Sample: 94.7 Spiked ID: J2675-09MS Percent Solids for Spike Sample: 94.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.1		0.044	J	2.1	98		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95533 level: low sdg no.: LB95533
contract: lab code: CHEM case no.: LB95533 sas no.: LB95533
matrix: Solid sample id: J2675-09 client id: HR-05-052118-AMSD
Percent Solids for Sample: 94.7 Spiked ID: J2675-09MSD Percent Solids for Spike Sample: 94.7

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.1		0.044	J	2.1	98		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB95533 level: low sdg no.: LB95533
contract: lab code: CHEM case no.: LB95533 sas no.: LB95533
matrix: Solid sample id: J3055-01 client id: PHASE-1MS
Percent Solids for Sample: 90.9 Spiked ID: J3055-01MS Percent Solids for Spike Sample: 90.9

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.1		0.046	J	2.1	98		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95533 level: low sdg no.: LB95533
contract: lab code: CHEM case no.: LB95533 sas no.: LB95533
matrix: Solid sample id: J3055-01 client id: PHASE-1MSD
Percent Solids for Sample: 90.9 Spiked ID: J3055-01MSD Percent Solids for Spike Sample: 90.9

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.1		0.046	J	2.1	98		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB95533 **Level:** LOW **SDG No.:** LB95533
Contract: **Lab Code:** CHEM **Case No.:** LB95533 **SAS No.:** LB95533
Matrix: Solid **Sample ID:** J2675-09 **Client ID:** HR-05-052118-ADUP
Percent Solids for Sample: 94.7 **Duplicate ID** J2675-09DUP **Percent Solids for Spike Sample:** 94.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.044	J	0.058	J	27	*	

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB95533 **Level:** LOW **SDG No.:** LB95533
Contract: **Lab Code:** CHEM **Case No.:** LB95533 **SAS No.:** LB95533
Matrix: Solid **Sample ID:** J2675-09MS **Client ID:** HR-05-052118-AMSD
Percent Solids for Sample: 94.7 **Duplicate ID** J2675-09MSD **Percent Solids for Spike Sample:** 94.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.1		2.1		0		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB95533 **Level:** LOW **SDG No.:** LB95533
Contract: **Lab Code:** CHEM **Case No.:** LB95533 **SAS No.:** LB95533
Matrix: Solid **Sample ID:** J3055-01 **Client ID:** PHASE-1DUP
Percent Solids for Sample: 90.9 **Duplicate ID** J3055-01DUP **Percent Solids for Spike Sample:** 90.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.046	J	0.059	J	25	*	

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95533 **Level:** LOW **SDG No.:** LB95533
Contract: **Lab Code:** CHEM **Case No.:** LB95533 **SAS No.:** LB95533
Matrix: Solid **Sample ID:** J3055-01MS **Client ID:** PHASE-1MSD
Percent Solids for Sample: 90.9 **Duplicate ID** J3055-01MSD **Percent Solids for Spike Sample:** 90.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.1		2.1		0		



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB95533

SDG No.: LB95533

Contract:

Lab Code: CHEM

Case No.: LB95533

SAS No.: LB95533

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB109560BS Cyanide	mg/Kg	5	4.8		96	85 - 115	

