

Daily Analysis Runlog For Sequence/QC Batch ID # LB92175

Review By

Review On

SubDirectory

LB92175

Test :

Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP60338,WP60339,WP60340,WP60341,WP60342,WP60343,WP60344				
ICV Standard		W1541				
CCV Standard		WP60345				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP60349,WP59958,WP60150				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	12/14/17 12:29		OK
2	5.0PPBCN	5.0PPBCN	CAL2	12/14/17 12:29		OK
3	10PPBCN	10PPBCN	CAL3	12/14/17 12:29		OK
4	50PPBCN	50PPBCN	CAL4	12/14/17 12:29		OK
5	100PPBCN	100PPBCN	CAL5	12/14/17 12:29		OK
6	250PPBCN	250PPBCN	CAL6	12/14/17 12:29		OK
7	500PPBCN	500PPBCN	CAL7	12/14/17 12:29		OK
8	ICV1	ICV1	ICV	12/14/17 16:19		OK
9	ICB1	ICB1	ICB	12/14/17 16:19		OK
10	CCV1	CCV1	CCV	12/14/17 16:20		OK
11	CCB1	CCB1	CCB	12/14/17 16:20		OK
12	PB105044BL	PB105044BL	MB	12/14/17 16:20		OK
13	PB105044BS	PB105044BS	LCS	12/14/17 16:20		OK
14	LOWPB105044	LOWPB105044	SAM	12/14/17 16:20		OK
15	HIGHPB105044	HIGHPB105044	SAM	12/14/17 16:27		OK
16	I6908-01	1	SAM	12/14/17 16:27		OK
17	I6908-01DUP	1DUP	DUP	12/14/17 16:27		OK
18	I6908-01MS	1MS	MS	12/14/17 16:27		OK
19	I6908-01MSD	1MSD	MSD	12/14/17 16:27		OK
20	I6908-03	2	SAM	12/14/17 16:27		OK
21	I6908-05	3	SAM	12/14/17 16:27		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB92175

Review By			Review On			
SubDirectory		LB92175		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP60338,WP60339,WP60340,WP60341,WP60342,WP60343,WP60344				
ICV Standard		W1541				
CCV Standard		WP60345				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP60349,WP59958,WP60150				
22	CCV2	CCV2	CCV	12/14/17 16:27		OK
23	CCB2	CCB2	CCB	12/14/17 16:27		OK
24	I6908-07	4	SAM	12/14/17 16:27		OK
25	I6908-09	5	SAM	12/14/17 16:27		OK
26	I6908-11	6	SAM	12/14/17 16:32		OK
27	I6908-13	7	SAM	12/14/17 16:32		OK
28	PB105045BL	PB105045BL	MB	12/14/17 16:32		OK
29	PB105045BS	PB105045BS	LCS	12/14/17 16:32		OK
30	I6678-01	JC-01-121317	SAM	12/14/17 16:32		OK
31	I6678-01DUP	JC-01-121317DUP	DUP	12/14/17 16:32		OK
32	I6678-01MS	JC-01-121317MS	MS	12/14/17 16:38		OK
33	I6678-01MSD	JC-01-121317MSD	MSD	12/14/17 16:38		OK
34	CCV3	CCV3	CCV	12/14/17 16:38		OK
35	CCB3	CCB3	CCB	12/14/17 16:38		OK
36	I6679-03	HR-05-121317-A	SAM	12/14/17 16:38		OK
37	I6679-05	HR-05-121317-B	SAM	12/14/17 16:44		OK
38	I6679-07	HR-05-121317-C	SAM	12/14/17 16:44		OK
39	I6889-02	GIS-1(0-3)	SAM	12/14/17 16:44		OK
40	I6889-04	T-1(0-3)	SAM	12/14/17 16:44		OK
41	CCV4	CCV4	CCV	12/14/17 16:44		OK
42	CCB4	CCB4	CCB	12/14/17 16:44		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB92175	Date Received:	
Client Sample ID:	HIGHPB105044	SDG No.:	LB92175
Lab Sample ID:	HIGHPB105044	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	0.47		1	0.003		0.005	mg/L		12/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/13/2017 12:00:00 AM
Project:	LB92175	Date Received:	12/13/2017 12:00:00 AM
Client Sample ID:	JC-01-121317	SDG No.:	LB92175
Lab Sample ID:	I6678-01	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	0.24	J	1	0.036		0.27	mg/Kg	12/14/2017	12/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/13/2017 12:00:00 AM
Project:	LB92175	Date Received:	12/13/2017 12:00:00 AM
Client Sample ID:	HR-05-121317-A	SDG No.:	LB92175
Lab Sample ID:	I6679-03	Matrix:	Solid
Level (low/med):	low	% Solid:	91.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.043	J	1	0.034		0.25	mg/Kg	12/14/2017	12/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/13/2017 12:00:00 AM
Project:	LB92175	Date Received:	12/13/2017 12:00:00 AM
Client Sample ID:	HR-05-121317-B	SDG No.:	LB92175
Lab Sample ID:	I6679-05	Matrix:	Solid
Level (low/med):	low	% Solid:	91.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.035	J	1	0.034		0.26	mg/Kg	12/14/2017	12/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/13/2017 12:00:00 AM
Project:	LB92175	Date Received:	12/13/2017 12:00:00 AM
Client Sample ID:	HR-05-121317-C	SDG No.:	LB92175
Lab Sample ID:	I6679-07	Matrix:	Solid
Level (low/med):	low	% Solid:	88.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.18	J	1	0.036		0.27	mg/Kg	12/14/2017	12/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/13/2017 12:00:00 AM
Project:	LB92175	Date Received:	12/13/2017 12:00:00 AM
Client Sample ID:	GIS-1(0-3)	SDG No.:	LB92175
Lab Sample ID:	I6889-02	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	0.031	U	1	0.035		0.27	mg/Kg	12/14/2017	12/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/13/2017 12:00:00 AM
Project:	LB92175	Date Received:	12/13/2017 12:00:00 AM
Client Sample ID:	T-1(0-3)	SDG No.:	LB92175
Lab Sample ID:	I6889-04	Matrix:	Solid
Level (low/med):	low	% Solid:	87.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.024	U	1	0.036		0.28	mg/Kg	12/14/2017	12/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/13/2017 12:00:00 AM
Project:	LB92175	Date Received:	12/13/2017 12:00:00 AM
Client Sample ID:	1	SDG No.:	LB92175
Lab Sample ID:	I6908-01	Matrix:	Solid
Level (low/med):	low	% Solid:	92.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.069	J	1	0.035		0.27	mg/Kg	12/14/2017	12/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/13/2017 12:00:00 AM
Project:	LB92175	Date Received:	12/13/2017 12:00:00 AM
Client Sample ID:	2	SDG No.:	LB92175
Lab Sample ID:	I6908-03	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	0.1	J	1	0.033		0.25	mg/Kg	12/14/2017	12/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/13/2017 12:00:00 AM
Project:	LB92175	Date Received:	12/13/2017 12:00:00 AM
Client Sample ID:	3	SDG No.:	LB92175
Lab Sample ID:	I6908-05	Matrix:	Solid
Level (low/med):	low	% Solid:	91.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.073	J	1	0.034		0.26	mg/Kg	12/14/2017	12/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/13/2017 12:00:00 AM
Project:	LB92175	Date Received:	12/13/2017 12:00:00 AM
Client Sample ID:	4	SDG No.:	LB92175
Lab Sample ID:	I6908-07	Matrix:	Solid
Level (low/med):	low	% Solid:	89.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.075	J	1	0.036		0.27	mg/Kg	12/14/2017	12/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/13/2017 12:00:00 AM
Project:	LB92175	Date Received:	12/13/2017 12:00:00 AM
Client Sample ID:	5	SDG No.:	LB92175
Lab Sample ID:	I6908-09	Matrix:	Solid
Level (low/med):	low	% Solid:	89.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.14	J	1	0.036		0.27	mg/Kg	12/14/2017	12/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/13/2017 12:00:00 AM
Project:	LB92175	Date Received:	12/13/2017 12:00:00 AM
Client Sample ID:	6	SDG No.:	LB92175
Lab Sample ID:	I6908-11	Matrix:	Solid
Level (low/med):	low	% Solid:	89.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.034	U	1	0.036		0.27	mg/Kg	12/14/2017	12/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/13/2017 12:00:00 AM
Project:	LB92175	Date Received:	12/13/2017 12:00:00 AM
Client Sample ID:	7	SDG No.:	LB92175
Lab Sample ID:	I6908-13	Matrix:	Solid
Level (low/med):	low	% Solid:	87.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.08	J	1	0.036		0.27	mg/Kg	12/14/2017	12/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB92175	Date Received:	
Client Sample ID:	LOWPB105044	SDG No.:	LB92175
Lab Sample ID:	LOWPB105044	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	0.0096		1	0.003		0.005	mg/L		12/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB92175	Date Received:	
Client Sample ID:	LOWPB105044	SDG No.:	LB92175
Lab Sample ID:	LOWPB105044	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: LB92175

SDG No.: LB92175

Contract: _____

Lab Code: CHEM

Case No.: LB92175

SAS No.: LB92175

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1	Cyanide	0.096	0.099	97	0	85 - 115		12/14/2017	16:19	LB92175



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92175

SDG No.: LB92175

Contract: _____ Lab Code: CHEM

Case No.: LB92175

SAS No.: LB92175

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Cyanide	0.24	0.25	96	0	90 - 110		12/14/2017	16:20	LB92175
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		12/14/2017	16:27	LB92175
CCV3	Cyanide	0.25	0.25	100	0	90 - 110		12/14/2017	16:38	LB92175
CCV4	Cyanide	0.25	0.25	100	0	90 - 110		12/14/2017	16:44	LB92175



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92175

SDG No.: LB92175

Contract:

Lab Code: CHEM

Case No.: LB92175

SAS No.: LB92175

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00021	+/-0.005	U		0.005		12/14/2017	16:19	LB92175

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00014	+/-0.005	U		0.005		12/14/2017	16:20	LB92175
CCB2	Cyanide	0.00034	+/-0.005	U		0.005		12/14/2017	16:27	LB92175
CCB3	Cyanide	0.00018	+/-0.005	U		0.005		12/14/2017	16:38	LB92175
CCB4	Cyanide	0.00019	+/-0.005	U		0.005		12/14/2017	16:44	LB92175



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92175

SDG No.: LB92175

Contract: Lab Code: CHEM

Case No.: LB92175

SAS No.: LB92175

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: LB92175

SDG No.: LB92175

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
PB105044BL	Cyanide	SOLID		Batch Number:		PB105044		Prep Date:	12/14/2017	
		0.0062	<0.25	U		0.25		12/14/2017	16:20	LB92175
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB105045BL	Cyanide	SOLID		Batch Number:		PB105045		Prep Date:	12/14/2017	
		0.0012	<0.25	U		0.25		12/14/2017	16:32	LB92175



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB92175 level: low sdg no.: LB92175
contract: lab code: CHEM case no.: LB92175 sas no.: LB92175
matrix: Solid sample id: I6678-01 client id: JC-01-121317MS
Percent Solids for Sample: 90.5 Spiked ID: I6678-01MS Percent Solids for Spike Sample: 90.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.8		0.24	J	2.1	74	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB92175 level: low sdg no.: LB92175
contract: lab code: CHEM case no.: LB92175 sas no.: LB92175
matrix: Solid sample id: I6678-01 client id: JC-01-121317MSD
Percent Solids for Sample: 90.5 Spiked ID: I6678-01MSD Percent Solids for Spike Sample: 90.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.8		0.24	J	2.1	74	*	



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB92175 level: low sdg no.: LB92175
contract: lab code: CHEM case no.: LB92175 sas no.: LB92175
matrix: Solid sample id: I6908-01 client id: 1MS
Percent Solids for Sample: 92.2 Spiked ID: I6908-01MS Percent Solids for Spike Sample: 92.2

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.7		0.069	J	2.1	78		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB92175 level: low sdg no.: LB92175
contract: lab code: CHEM case no.: LB92175 sas no.: LB92175
matrix: Solid sample id: I6908-01 client id: 1MSD
Percent Solids for Sample: 92.2 Spiked ID: I6908-01MSD Percent Solids for Spike Sample: 92.2

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.6		0.069	J	2.1	73	*	

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB92175 **Level:** LOW **SDG No.:** LB92175
Contract: **Lab Code:** CHEM **Case No.:** LB92175 **SAS No.:** LB92175
Matrix: Solid **Sample ID:** I6678-01 **Client ID:** JC-01-121317DUP
Percent Solids for Sample: 90.5 **Duplicate ID** I6678-01DUP **Percent Solids for Spike Sample:** 90.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.24	J	0.23	J	4		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB92175 Level: LOW SDG No.: LB92175
Contract: _____ Lab Code: CHEM Case No.: LB92175 SAS No.: LB92175
Matrix: Solid Sample ID: I6678-01MS Client ID: JC-01-121317MSD
Percent Solids for Sample: 90.5 Duplicate ID I6678-01MSD Percent Solids for Spike Sample: 90.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.8		1.8		0		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB92175 **Level:** LOW **SDG No.:** LB92175
Contract: **Lab Code:** CHEM **Case No.:** LB92175 **SAS No.:** LB92175
Matrix: Solid **Sample ID:** I6908-01 **Client ID:** 1DUP
Percent Solids for Sample: 92.2 **Duplicate ID** I6908-01DUP **Percent Solids for Spike Sample:** 92.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.069	J	0.056	J	21	*	

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB92175 **Level:** LOW **SDG No.:** LB92175
Contract: **Lab Code:** CHEM **Case No.:** LB92175 **SAS No.:** LB92175
Matrix: Solid **Sample ID:** I6908-01MS **Client ID:** 1MSD
Percent Solids for Sample: 92.2 **Duplicate ID** I6908-01MSD **Percent Solids for Spike Sample:** 92.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.7		1.6		6		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92175

SDG No.: LB92175

Contract:

Lab Code: CHEM

Case No.: LB92175

SAS No.: LB92175

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB105044BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92175 SDG No.: LB92175
Contract: Lab Code: CHEM Case No.: LB92175 SAS No.: LB92175

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB105045BS Cyanide	mg/Kg	4.9	4.9		100	85 - 115	
