

Daily Analysis Runlog For Sequence/QC Batch ID # LB92062

Review By		Review On				
SubDirectory		LB92062		Test : Cyanide		

STD. NAME	STD REF.#
ICAL Standard	WP60235,WP60236,WP60237,WP60238,WP60239,WP60240,WP60241
ICV Standard	W1541
CCV Standard	WP60243
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP58910
Chk Standard	WP60244,WP59958,WP60150

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	12/08/17 13:05		
2	5.0PPBCN	5.0PPBCN	CAL2	12/08/17 13:05		
3	10PPBCN	10PPBCN	CAL3	12/08/17 13:05		
4	50PPBCN	50PPBCN	CAL4	12/08/17 13:05		
5	100PPBCN	100PPBCN	CAL5	12/08/17 13:05		
6	250PPBCN	250PPBCN	CAL6	12/08/17 13:05		
7	500PPBCN	500PPBCN	CAL7	12/08/17 13:05		
8	ICV1	ICV1	ICV	12/08/17 14:54		
9	ICB1	ICB1	ICB	12/08/17 14:54		
10	CCV1	CCV1	CCV	12/08/17 14:54		
11	CCB1	CCB1	CCB	12/08/17 14:54		
12	PB104828BL	PB104828BL	MB	12/08/17 14:54		
13	PB104828BS	PB104828BS	LCS	12/08/17 14:54		
14	LOWPB104828	LOWPB104828	SAM	12/08/17 14:54		
15	HIGHPB104828	HIGHPB104828	SAM	12/08/17 15:02		
16	I6764-02	MAP-8-E(4-5)	SAM	12/08/17 15:02		
17	I6764-03	MAP-8-E(7-8)	SAM	12/08/17 15:02		
18	CCV2	CCV2	CCV	12/08/17 15:02		
19	CCB2	CCB2	CCB	12/08/17 15:02		
20	I6764-04	MAP-1-E(0-1)	SAM	12/08/17 15:02		
21	I6764-05	MAP-1-E(4-5)	SAM	12/08/17 15:02		

Daily Analysis Runlog For Sequence/QC Batch ID # LB92062

Review By		Review On				
SubDirectory		LB92062		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP60235,WP60236,WP60237,WP60238,WP60239,WP60240,WP60241				
ICV Standard		W1541				
CCV Standard		WP60243				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP60244,WP59958,WP60150				
22	I6764-06	MAP-1-E(7-8)	SAM	12/08/17 15:09		
23	I6764-07	MAP-2-E(0-1)	SAM	12/08/17 15:09		
24	I6764-08	MAP-2-E(7-8)	SAM	12/08/17 15:09		
25	I6764-09	MAP-3-E(0-1)	SAM	12/08/17 15:09		
26	I6764-10	MAP-3-E(4-5)	SAM	12/08/17 15:09		
27	I6764-11	MAP-3-E(7-8)	SAM	12/08/17 15:09		
28	PB104858BL	PB104858BL	MB	12/08/17 15:09		
29	PB104858BS	PB104858BS	LCS	12/08/17 15:09		
30	CCV3	CCV3	CCV	12/08/17 15:09		
31	CCB3	CCB3	CCB	12/08/17 15:09		
32	I6677-01	OR-03-120717-A	SAM	12/08/17 15:09		
33	I6677-01DUP	OR-03-120717-ADUP	DUP	12/08/17 15:16		
34	I6677-01MS	OR-03-120717-AMS	MS	12/08/17 15:16		
35	I6677-01MSD	OR-03-120717-AMSD	MSD	12/08/17 15:16		
36	I6677-03	OR-03-120717-B	SAM	12/08/17 15:16		
37	I6789-01	SP-1	SAM	12/08/17 15:16		
38	I6764-01	MAP-8-E(0-1)	SAM	12/08/17 15:42		
39	I6764-01DUP	MAP-8-E(0-1)DUP	DUP	12/08/17 15:42		
40	I6764-01MS	MAP-8-E(0-1)MS	MS	12/08/17 15:42		
41	I6764-01MSD	MAP-8-E(0-1)MSD	MSD	12/08/17 15:42		
42	CCV4	CCV4	CCV	12/08/17 15:42		
43	CCB4	CCB4	CCB	12/08/17 15:42		



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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92062

SDG No.: LB92062

Contract: _____ Lab Code: CHEM

Case No.: LB92062

SAS No.: LB92062

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	0.25	0.25	100	0	90 - 110		12/08/2017	14:54	LB92062
CCV2	Cyanide	0.25	0.25	100	0	90 - 110		12/08/2017	15:02	LB92062
CCV3	Cyanide	0.24	0.25	96	0	90 - 110		12/08/2017	15:09	LB92062
CCV4	Cyanide	0.25	0.25	100	0	90 - 110		12/08/2017	15:42	LB92062



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92062

SDG No.: LB92062

Contract: _____

Lab Code: CHEM

Case No.: LB92062

SAS No.: LB92062

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00022	+/-0.005	U		0.005		12/08/2017	14:54	LB92062



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92062

SDG No.: LB92062

Contract:

Lab Code: CHEM

Case No.: LB92062

SAS No.: LB92062

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.0001	+/-0.005	U		0.005		12/08/2017	14:54	LB92062
CCB2	Cyanide	0.0004	+/-0.005	U		0.005		12/08/2017	15:02	LB92062
CCB3	Cyanide	0.00038	+/-0.005	U		0.005		12/08/2017	15:09	LB92062
CCB4	Cyanide	0.00032	+/-0.005	U		0.005		12/08/2017	15:42	LB92062



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92062

SDG No.: LB92062

Contract: Lab Code: CHEM

Case No.: LB92062

SAS No.: LB92062

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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Report of Analysis

Client:		Date Collected:	
Project:	LB92062	Date Received:	
Client Sample ID:	HIGHPB104828	SDG No.:	LB92062
Lab Sample ID:	HIGHPB104828	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		12/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/7/2017 12:00:00 AM
Project:	LB92062	Date Received:	12/7/2017 12:00:00 AM
Client Sample ID:	OR-03-120717-A	SDG No.:	LB92062
Lab Sample ID:	I6677-01	Matrix:	Solid
Level (low/med):	low	% Solid:	89.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.64		1	0.036		0.27	mg/Kg	12/08/2017	12/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/7/2017 12:00:00 AM
Project:	LB92062	Date Received:	12/7/2017 12:00:00 AM
Client Sample ID:	OR-03-120717-B	SDG No.:	LB92062
Lab Sample ID:	I6677-03	Matrix:	Solid
Level (low/med):	low	% Solid:	88.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.027	U	1	0.035		0.26	mg/Kg	12/08/2017	12/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/5/2017 12:00:00 AM
Project:	LB92062	Date Received:	12/6/2017 12:00:00 AM
Client Sample ID:	MAP-8-E(0-1)	SDG No.:	LB92062
Lab Sample ID:	I6764-01	Matrix:	Solid
Level (low/med):	low	% Solid:	84.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.086	J	1	0.038		0.29	mg/Kg	12/07/2017	12/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/5/2017 12:00:00 AM
Project:	LB92062	Date Received:	12/6/2017 12:00:00 AM
Client Sample ID:	MAP-8-E(4-5)	SDG No.:	LB92062
Lab Sample ID:	I6764-02	Matrix:	Solid
Level (low/med):	low	% Solid:	81.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.12	J	1	0.039		0.3	mg/Kg	12/07/2017	12/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/5/2017 12:00:00 AM
Project:	LB92062	Date Received:	12/6/2017 12:00:00 AM
Client Sample ID:	MAP-8-E(7-8)	SDG No.:	LB92062
Lab Sample ID:	I6764-03	Matrix:	Solid
Level (low/med):	low	% Solid:	85.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.24	J	1	0.038		0.29	mg/Kg	12/07/2017	12/08/2017	9012B

Report of Analysis

Client:		Date Collected:	12/5/2017 12:00:00 AM
Project:	LB92062	Date Received:	12/6/2017 12:00:00 AM
Client Sample ID:	MAP-1-E(0-1)	SDG No.:	LB92062
Lab Sample ID:	I6764-04	Matrix:	Solid
Level (low/med):	low	% Solid:	90.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.049	J	1	0.035		0.27	mg/Kg	12/07/2017	12/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/5/2017 12:00:00 AM
Project:	LB92062	Date Received:	12/6/2017 12:00:00 AM
Client Sample ID:	MAP-1-E(4-5)	SDG No.:	LB92062
Lab Sample ID:	I6764-05	Matrix:	Solid
Level (low/med):	low	% Solid:	92.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.028	U	1	0.035		0.27	mg/Kg	12/07/2017	12/08/2017	9012B

Report of Analysis

Client:		Date Collected:	12/5/2017 12:00:00 AM
Project:	LB92062	Date Received:	12/6/2017 12:00:00 AM
Client Sample ID:	MAP-1-E(7-8)	SDG No.:	LB92062
Lab Sample ID:	I6764-06	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	0.029	U	1	0.035		0.26	mg/Kg	12/07/2017	12/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/5/2017 12:00:00 AM
Project:	LB92062	Date Received:	12/6/2017 12:00:00 AM
Client Sample ID:	MAP-2-E(0-1)	SDG No.:	LB92062
Lab Sample ID:	I6764-07	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	0.071	J	1	0.036		0.27	mg/Kg	12/07/2017	12/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/5/2017 12:00:00 AM
Project:	LB92062	Date Received:	12/6/2017 12:00:00 AM
Client Sample ID:	MAP-2-E(7-8)	SDG No.:	LB92062
Lab Sample ID:	I6764-08	Matrix:	Solid
Level (low/med):	low	% Solid:	78.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.57		1	0.042		0.32	mg/Kg	12/07/2017	12/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/5/2017 12:00:00 AM
Project:	LB92062	Date Received:	12/6/2017 12:00:00 AM
Client Sample ID:	MAP-3-E(0-1)	SDG No.:	LB92062
Lab Sample ID:	I6764-09	Matrix:	Solid
Level (low/med):	low	% Solid:	72.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	1.9		1	0.044		0.33	mg/Kg	12/07/2017	12/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/5/2017 12:00:00 AM
Project:	LB92062	Date Received:	12/6/2017 12:00:00 AM
Client Sample ID:	MAP-3-E(4-5)	SDG No.:	LB92062
Lab Sample ID:	I6764-10	Matrix:	Solid
Level (low/med):	low	% Solid:	87.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.069	J	1	0.037		0.28	mg/Kg	12/07/2017	12/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/5/2017 12:00:00 AM
Project:	LB92062	Date Received:	12/6/2017 12:00:00 AM
Client Sample ID:	MAP-3-E(7-8)	SDG No.:	LB92062
Lab Sample ID:	I6764-11	Matrix:	Solid
Level (low/med):	low	% Solid:	78.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.1	J	1	0.04		0.31	mg/Kg	12/07/2017	12/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/7/2017 12:00:00 AM
Project:	LB92062	Date Received:	12/7/2017 12:00:00 AM
Client Sample ID:	SP-1	SDG No.:	LB92062
Lab Sample ID:	I6789-01	Matrix:	Solid
Level (low/med):	low	% Solid:	85.3

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		0.28	mg/Kg	12/08/2017	12/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB92062	Date Received:	
Client Sample ID:	LOWPB104828	SDG No.:	LB92062
Lab Sample ID:	LOWPB104828	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		12/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB92062	Date Received:	
Client Sample ID:	LOWPB104828	SDG No.:	LB92062
Lab Sample ID:	LOWPB104828	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



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- 3b -
PREPARATION BLANK SUMMARY

Client: LB92062

SDG No.: LB92062

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
PB104828BL	Cyanide	SOLID		Batch Number:		PB104828		Prep Date:	12/07/2017	
		0.0077	<0.24	U		0.24		12/08/2017	14:54	LB92062
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB104858BL	Cyanide	SOLID		Batch Number:		PB104858		Prep Date:	12/08/2017	
		0.016	<0.25	U		0.25		12/08/2017	15:09	LB92062



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB92062 level: low sdg no.: LB92062
contract: lab code: CHEM case no.: LB92062 sas no.: LB92062
matrix: Solid sample id: I6677-01 client id: OR-03-120717-AMS
Percent Solids for Sample: 89.8 Spiked ID: I6677-01MS Percent Solids for Spike Sample: 89.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.6		0.64		2.2	44	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB92062 level: low sdg no.: LB92062
contract: lab code: CHEM case no.: LB92062 sas no.: LB92062
matrix: Solid sample id: I6677-01 client id: OR-03-120717-AMSD
Percent Solids for Sample: 89.8 Spiked ID: I6677-01MSD Percent Solids for Spike Sample: 89.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.6		0.64		2.1	46	*	



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB92062 level: low sdg no.: LB92062
contract: lab code: CHEM case no.: LB92062 sas no.: LB92062
matrix: Solid sample id: I6764-01 client id: MAP-8-E(0-1)MS
Percent Solids for Sample: 84.6 Spiked ID: I6764-01MS Percent Solids for Spike Sample: 84.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	0.64		0.086	J	2.2	25	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB92062 level: low sdg no.: LB92062
contract: lab code: CHEM case no.: LB92062 sas no.: LB92062
matrix: Solid sample id: I6764-01 client id: MAP-8-E(0-1)MSD
Percent Solids for Sample: 84.6 Spiked ID: I6764-01MSD Percent Solids for Spike Sample: 84.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	0.66		0.086	J	2.3	25	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB92062 **Level:** LOW **SDG No.:** LB92062
Contract: **Lab Code:** CHEM **Case No.:** LB92062 **SAS No.:** LB92062
Matrix: Solid **Sample ID:** I6677-01 **Client ID:** OR-03-120717-ADUP
Percent Solids for Sample: 89.8 **Duplicate ID** I6677-01DUP **Percent Solids for Spike Sample:** 89.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.64		0.022	U	200.0	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB92062 **Level:** LOW **SDG No.:** LB92062
Contract: **Lab Code:** CHEM **Case No.:** LB92062 **SAS No.:** LB92062
Matrix: Solid **Sample ID:** I6677-01MS **Client ID:** OR-03-120717-AMSD
Percent Solids for Sample: 89.8 **Duplicate ID** I6677-01MSD **Percent Solids for Spike Sample:** 89.8

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: LB92062 **Level:** LOW **SDG No.:** LB92062
Contract: **Lab Code:** CHEM **Case No.:** LB92062 **SAS No.:** LB92062
Matrix: Solid **Sample ID:** I6764-01 **Client ID:** MAP-8-E(0-1)DUP
Percent Solids for Sample: 84.6 **Duplicate ID** I6764-01DUP **Percent Solids for Spike Sample:** 84.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.086	J	0.087	J	1		

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DUPLICATE SAMPLE SUMMARY

Client: LB92062 **Level:** LOW **SDG No.:** LB92062
Contract: **Lab Code:** CHEM **Case No.:** LB92062 **SAS No.:** LB92062
Matrix: Solid **Sample ID:** I6764-01MS **Client ID:** MAP-8-E(0-1)MSD
Percent Solids for Sample: 84.6 **Duplicate ID** I6764-01MSD **Percent Solids for Spike Sample:** 84.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.64		0.66		3		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92062

SDG No.: LB92062

Contract:

Lab Code: CHEM

Case No.: LB92062

SAS No.: LB92062

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB104828BS Cyanide	mg/Kg	4.9	4.6		93.9	85 - 115	



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92062 SDG No.: LB92062
Contract: Lab Code: CHEM Case No.: LB92062 SAS No.: LB92062

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB104858BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	
