

Daily Analysis Runlog For Sequence/QC Batch ID # LB91292

Review By		Review On				
SubDirectory		LB91292		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP59302,WP59303,WP59304,WP59305,WP59306,WP59307,WP59308				
ICV Standard		W1541				
CCV Standard		WP59309				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP55836,WP55355,WP59310				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	11/01/17 11:27		OK
2	5.0PPBCN	5.0PPBCN	CAL2	11/01/17 11:27		OK
3	10PPBCN	10PPBCN	CAL3	11/01/17 11:27		OK
4	50PPBCN	50PPBCN	CAL4	11/01/17 11:27		OK
5	100PPBCN	100PPBCN	CAL5	11/01/17 11:27		OK
6	250PPBCN	250PPBCN	CAL6	11/01/17 11:27		OK
7	500PPBCN	500PPBCN	CAL7	11/01/17 11:27		OK
8	ICV1	ICV1	ICV	11/01/17 16:05		OK
9	ICB1	ICB1	ICB	11/01/17 16:05		OK
10	CCV1	CCV1	CCV	11/01/17 16:05		OK
11	CCB1	CCB1	CCB	11/01/17 16:06		OK
12	PB103881BL	PB103881BL	MB	11/01/17 16:06		OK
13	PB103881BS	PB103881BS	LCS	11/01/17 16:06		OK
14	I6226-01	TP-1	SAM	11/01/17 16:13		OK
15	I6226-01DUP	TP-1DUP	DUP	11/01/17 16:13		OK
16	I6226-01MS	TP-1MS	MS	11/01/17 16:13		OK
17	I6226-01MSD	TP-1MSD	MSD	11/01/17 16:13		OK
18	CCV2	CCV2	CCV	11/01/17 16:13		OK
19	CCB2	CCB2	CCB	11/01/17 16:13		OK
20	I6226-09	TP-2	SAM	11/01/17 16:13		OK
21	I6226-17	T-1-CONCRETE	SAM	11/01/17 16:13		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB91292

Review By		Review On				
SubDirectory		LB91292		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP59302,WP59303,WP59304,WP59305,WP59306,WP59307,WP59308				
ICV Standard		W1541				
CCV Standard		WP59309				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP55836,WP55355,WP59310				
22	I6231-01	TR-04-103017	SAM	11/01/17 16:13		OK
23	I6233-03	SB-3(6-8)	SAM	11/01/17 16:21		OK
24	I6233-04	SB-4(7-9)	SAM	11/01/17 16:21		OK
25	I6233-05	SB-5(2-4)	SAM	11/01/17 16:21		OK
26	I6236-01	133	SAM	11/01/17 16:21		OK
27	I6247-01	S13-SP3-C	SAM	11/01/17 16:21		OK
28	I6249-01	COMP-1	SAM	11/01/17 16:21		OK
29	I6249-03	COMP-2	SAM	11/01/17 16:21		OK
30	CCV3	CCV3	CCV	11/01/17 16:21		OK
31	CCB3	CCB3	CCB	11/01/17 16:21		OK
32	I6252-01	HR-05-103117	SAM	11/01/17 16:21		OK
33	I6253-01	SA-01-103117	SAM	11/01/17 16:21		OK
34	I6254-01	DRUM-1-2	SAM	11/01/17 16:26		OK
35	PB103882BL	PB103882BL	MB	11/01/17 16:26		OK
36	PB103882BS	PB103882BS	LCS	11/01/17 16:26		OK
37	I6236-04	FM782	SAM	11/01/17 16:32		OK
38	CCV4	CCV4	CCV	11/01/17 16:32		OK
39	CCB4	CCB4	CCB	11/01/17 16:32		OK
40	I6236-04DUP	FM782DUP	DUP	11/01/17 16:32		OK
41	I6236-04MS	FM782MS	MS	11/01/17 16:32		OK
42	I6236-04MSD	FM782MSD	MSD	11/01/17 16:33		OK
43	CCV5	CCV5	CCV	11/01/17 16:33		OK



Instrument ID : KONELAB

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Daily Analysis Runlog For Sequence/QCBatch ID # LB91292

Review By		Review On				
SubDirectory		LB91292		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP59302,WP59303,WP59304,WP59305,WP59306,WP59307,WP59308				
ICV Standard		W1541				
CCV Standard		WP59309				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP55836,WP55355,WP59310				
44	CCB5	CCB5	CCB	11/01/17 16:33		OK



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Report of Analysis

Client:		Date Collected:	10/28/2017 12:00:00 AM
Project:	LB91292	Date Received:	10/30/2017 12:00:00 AM
Client Sample ID:	TP-1	SDG No.:	LB91292
Lab Sample ID:	I6226-01	Matrix:	Solid
Level (low/med):	low	% Solid:	88.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.06	U	1	0.036		0.27	mg/Kg	11/01/2017	11/01/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/28/2017 12:00:00 AM
Project:	LB91292	Date Received:	10/30/2017 12:00:00 AM
Client Sample ID:	TP-2	SDG No.:	LB91292
Lab Sample ID:	I6226-09	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	-0.046	U	1	0.035		0.27	mg/Kg	11/01/2017	11/01/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/28/2017 12:00:00 AM
Project:	LB91292	Date Received:	10/30/2017 12:00:00 AM
Client Sample ID:	T-1-CONCRETE	SDG No.:	LB91292
Lab Sample ID:	I6226-17	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	0.052	J	1	0.031		0.24	mg/Kg	11/01/2017	11/01/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/30/2017 12:00:00 AM
Project:	LB91292	Date Received:	10/30/2017 12:00:00 AM
Client Sample ID:	TR-04-103017	SDG No.:	LB91292
Lab Sample ID:	I6231-01	Matrix:	Solid
Level (low/med):	low	% Solid:	86.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.018	U	1	0.037		0.28	mg/Kg	11/01/2017	11/01/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/28/2017 12:00:00 AM
Project:	LB91292	Date Received:	10/30/2017 12:00:00 AM
Client Sample ID:	SB-3(6-8)	SDG No.:	LB91292
Lab Sample ID:	I6233-03	Matrix:	Solid
Level (low/med):	low	% Solid:	92.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.045	J	1	0.034		0.26	mg/Kg	11/01/2017	11/01/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/28/2017 12:00:00 AM
Project:	LB91292	Date Received:	10/30/2017 12:00:00 AM
Client Sample ID:	SB-4(7-9)	SDG No.:	LB91292
Lab Sample ID:	I6233-04	Matrix:	Solid
Level (low/med):	low	% Solid:	86.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.058	U	1	0.037		0.28	mg/Kg	11/01/2017	11/01/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/28/2017 12:00:00 AM
Project:	LB91292	Date Received:	10/30/2017 12:00:00 AM
Client Sample ID:	SB-5(2-4)	SDG No.:	LB91292
Lab Sample ID:	I6233-05	Matrix:	Solid
Level (low/med):	low	% Solid:	92.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.051	U	1	0.034		0.26	mg/Kg	11/01/2017	11/01/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/30/2017 12:00:00 AM
Project:	LB91292	Date Received:	10/30/2017 12:00:00 AM
Client Sample ID:	133	SDG No.:	LB91292
Lab Sample ID:	I6236-01	Matrix:	Solid
Level (low/med):	low	% Solid:	93

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.048	U	1	0.034		0.26	mg/Kg	11/01/2017	11/01/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/30/2017 12:00:00 AM
Project:	LB91292	Date Received:	10/30/2017 12:00:00 AM
Client Sample ID:	FM782	SDG No.:	LB91292
Lab Sample ID:	I6236-04	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	0.00048	U	1	0.003		0.005	mg/L	11/01/2017	11/01/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/31/2017 12:00:00 AM
Project:	LB91292	Date Received:	10/31/2017 12:00:00 AM
Client Sample ID:	S13-SP3-C	SDG No.:	LB91292
Lab Sample ID:	I6247-01	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	0.21	J	1	0.04		0.3	mg/Kg	11/01/2017	11/01/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/31/2017 12:00:00 AM
Project:	LB91292	Date Received:	10/31/2017 12:00:00 AM
Client Sample ID:	COMP-1	SDG No.:	LB91292
Lab Sample ID:	I6249-01	Matrix:	Solid
Level (low/med):	low	% Solid:	82.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.039	U	1	0.038		0.28	mg/Kg	11/01/2017	11/01/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/31/2017 12:00:00 AM
Project:	LB91292	Date Received:	10/31/2017 12:00:00 AM
Client Sample ID:	COMP-2	SDG No.:	LB91292
Lab Sample ID:	I6249-03	Matrix:	Solid
Level (low/med):	low	% Solid:	80.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0085	U	1	0.04		0.3	mg/Kg	11/01/2017	11/01/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/31/2017 12:00:00 AM
Project:	LB91292	Date Received:	10/31/2017 12:00:00 AM
Client Sample ID:	HR-05-103117	SDG No.:	LB91292
Lab Sample ID:	I6252-01	Matrix:	Solid
Level (low/med):	low	% Solid:	89

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.042	U	1	0.036		0.27	mg/Kg	11/01/2017	11/01/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/31/2017 12:00:00 AM
Project:	LB91292	Date Received:	10/31/2017 12:00:00 AM
Client Sample ID:	SA-01-103117	SDG No.:	LB91292
Lab Sample ID:	I6253-01	Matrix:	Solid
Level (low/med):	low	% Solid:	88.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.062	U	1	0.036		0.27	mg/Kg	11/01/2017	11/01/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/31/2017 12:00:00 AM
Project:	LB91292	Date Received:	10/31/2017 12:00:00 AM
Client Sample ID:	DRUM-1-2	SDG No.:	LB91292
Lab Sample ID:	I6254-01	Matrix:	Solid
Level (low/med):	low	% Solid:	95.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.015	U	1	0.033		0.25	mg/Kg	11/01/2017	11/01/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/31/2017 12:00:00 AM
Project:	LB91292	Date Received:	10/31/2017 12:00:00 AM
Client Sample ID:	DRUM-1-2	SDG No.:	LB91292
Lab Sample ID:	I6254-01	Matrix:	Solid
Level (low/med):	low	% Solid:	95.6

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: LB91292

SDG No.: LB91292

Contract: _____ Lab Code: CHEM

Case No.: LB91292

SAS No.: LB91292

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	0.097	0.099	98	0	85 - 115		11/01/2017	16:05	LB91292



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91292 **SDG No.:** LB91292
Contract: **Lab Code:** CHEM **Case No.:** LB91292 **SAS No.:** LB91292

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.0015	+/-0.005	U		0.005		11/01/2017	16:05	LB91292



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91292

SDG No.: LB91292

Contract:

Lab Code: CHEM

Case No.: LB91292

SAS No.: LB91292

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.0012	+/-0.005	U		0.005		11/01/2017	16:06	LB91292
CCB2	Cyanide	-0.0014	+/-0.005	U		0.005		11/01/2017	16:13	LB91292
CCB3	Cyanide	-0.0013	+/-0.005	U		0.005		11/01/2017	16:21	LB91292
CCB4	Cyanide	-0.0011	+/-0.005	U		0.005		11/01/2017	16:32	LB91292
CCB5	Cyanide	-0.00099	+/-0.005	U		0.005		11/01/2017	16:33	LB91292



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91292

SDG No.: LB91292

Contract: Lab Code: CHEM

Case No.: LB91292

SAS No.: LB91292

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: LB91292

SDG No.: LB91292

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
PB103881BL	Cyanide	SOLID		Batch Number:		PB103881		Prep Date:	11/01/2017	
		-0.079	<0.25	U		0.25		11/01/2017	16:06	LB91292
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB103882BL	Cyanide	WATER		Batch Number:		PB103882		Prep Date:	11/01/2017	
		-0.0017	<0.005	U		0.005		11/01/2017	16:26	LB91292



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB91292 level: low sdg no.: LB91292
contract: lab code: CHEM case no.: LB91292 sas no.: LB91292
matrix: Solid sample id: I6226-01 client id: TP-1MS
Percent Solids for Sample: 88.3 Spiked ID: I6226-01MS Percent Solids for Spike Sample: 88.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.036	U	2.2	86.4		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91292 level: low sdg no.: LB91292
contract: lab code: CHEM case no.: LB91292 sas no.: LB91292
matrix: Solid sample id: I6226-01 client id: TP-1MSD
Percent Solids for Sample: 88.3 Spiked ID: I6226-01MSD Percent Solids for Spike Sample: 88.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.036	U	2.2	86.4		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB91292 level: low sdg no.: LB91292
contract: lab code: CHEM case no.: LB91292 sas no.: LB91292
matrix: WATER sample id: I6236-04 client id: FM782MS
Percent Solids for Sample: 0 Spiked ID: I6236-04MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.035		0.003	U	0.04	87.5		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91292 level: low sdg no.: LB91292
contract: lab code: CHEM case no.: LB91292 sas no.: LB91292
matrix: WATER sample id: I6236-04 client id: FM782MSD
Percent Solids for Sample: 0 Spiked ID: I6236-04MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.035		0.003	U	0.04	87.5		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91292 **Level:** LOW **SDG No.:** LB91292
Contract: **Lab Code:** CHEM **Case No.:** LB91292 **SAS No.:** LB91292
Matrix: Solid **Sample ID:** I6226-01 **Client ID:** TP-1DUP
Percent Solids for Sample: 88.3 **Duplicate ID** I6226-01DUP **Percent Solids for Spike Sample:** 88.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.036	U	-0.046	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91292 **Level:** LOW **SDG No.:** LB91292
Contract: **Lab Code:** CHEM **Case No.:** LB91292 **SAS No.:** LB91292
Matrix: Solid **Sample ID:** I6226-01MS **Client ID:** TP-1MSD
Percent Solids for Sample: 88.3 **Duplicate ID** I6226-01MSD **Percent Solids for Spike Sample:** 88.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.9		1.9		0		

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- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91292 **Level:** LOW **SDG No.:** LB91292
Contract: **Lab Code:** CHEM **Case No.:** LB91292 **SAS No.:** LB91292
Matrix: WATER **Sample ID:** I6236-04 **Client ID:** FM782DUP
Percent Solids for Sample: 0 **Duplicate ID** I6236-04DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.003	U	0.00022	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91292 **Level:** LOW **SDG No.:** LB91292
Contract: **Lab Code:** CHEM **Case No.:** LB91292 **SAS No.:** LB91292
Matrix: WATER **Sample ID:** I6236-04MS **Client ID:** FM782MSD
Percent Solids for Sample: 0 **Duplicate ID** I6236-04MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.035		0.035		0		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91292

SDG No.: LB91292

Contract:

Lab Code: CHEM

Case No.: LB91292

SAS No.: LB91292

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB103881BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91292

SDG No.: LB91292

Contract:

Lab Code: CHEM

Case No.: LB91292

SAS No.: LB91292

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB103882BS Cyanide	mg/L	0.1	0.1		100	85 - 115	