

Daily Analysis Runlog For Sequence/QC Batch ID # LB91632

Review By		Review On				
SubDirectory		LB91632		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP59670,WP59671,WP59673,WP59676,WP59677,WP59680,WP59682				
ICV Standard		W1541				
CCV Standard		WP59684				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP55836,WP55355,WP59687				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	11/16/17 09:19		OK
2	5.0PPBCN	5.0PPBCN	CAL2	11/16/17 09:19		OK
3	10PPBCN	10PPBCN	CAL3	11/16/17 09:19		OK
4	50PPBCN	50PPBCN	CAL4	11/16/17 09:19		OK
5	100PPBCN	100PPBCN	CAL5	11/16/17 09:19		OK
6	250PPBCN	250PPBCN	CAL6	11/16/17 09:19		OK
7	500PPBCN	500PPBCN	CAL7	11/16/17 09:19		OK
8	ICV1	ICV1	ICV	11/16/17 12:26		OK
9	ICB1	ICB1	ICB	11/16/17 12:26		OK
10	CCV1	CCV1	CCV	11/16/17 12:26		OK
11	CCB1	CCB1	CCB	11/16/17 12:26		OK
12	PB104312BL	PB104312BL	MB	11/16/17 12:26		OK
13	PB104312BS	PB104312BS	LCS	11/16/17 12:26		OK
14	LOWPB104312	LOWPB104312	SAM	11/16/17 12:26		OK
15	HIGHPB104312	HIGHPB104312	SAM	11/16/17 12:34		OK
16	I6309-01	BU-02-111517	SAM	11/16/17 12:34		OK
17	I6309-01DUP	BU-02-111517DUP	DUP	11/16/17 12:34		OK
18	I6309-01MS	BU-02-111517MS	MS	11/16/17 12:34		OK
19	I6309-01MSD	BU-02-111517MSD	MSD	11/16/17 12:34		OK
20	I6499-01	PG1-2-E(0-1)	SAM	11/16/17 12:34		OK
21	I6499-02	PG1-2-E(4-5)	SAM	11/16/17 12:34		OK

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

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ICAL Standard		WP59670,WP59671,WP59673,WP59676,WP59677,WP59680,WP59682				
ICV Standard		W1541				
CCV Standard		WP59684				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP55836,WP55355,WP59687				
22	CCV2	CCV2	CCV	11/16/17 12:34		OK
23	CCB2	CCB2	CCB	11/16/17 12:34		OK
24	I6499-03	PG1-2-E(7-8)	SAM	11/16/17 12:34		OK
25	I6499-04	PG1-1-E(0-1)	SAM	11/16/17 12:34		OK
26	I6499-05	PG1-1-E(7-8)	SAM	11/16/17 12:40		OK
27	I6499-06	PG1-4-E(0-1)	SAM	11/16/17 12:40		OK
28	I6499-07	PG1-4-E(7-8)	SAM	11/16/17 12:40		OK
29	I6499-08	PG1-3-E(4-5)	SAM	11/16/17 12:40		OK
30	I6499-09	PG1-3-E(7-8)	SAM	11/16/17 12:40		OK
31	CCV3	CCV3	CCV	11/16/17 12:40		OK
32	CCB3	CCB3	CCB	11/16/17 12:40		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB91632	Date Received:	
Client Sample ID:	HIGHPB104312	SDG No.:	LB91632
Lab Sample ID:	HIGHPB104312	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		11/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/15/2017 12:00:00 AM
Project:	LB91632	Date Received:	11/15/2017 12:00:00 AM
Client Sample ID:	BU-02-111517	SDG No.:	LB91632
Lab Sample ID:	I6309-01	Matrix:	Solid
Level (low/med):	low	% Solid:	79.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.063	U	1	0.04		0.3	mg/Kg	11/16/2017	11/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91632	Date Received:	11/15/2017 12:00:00 AM
Client Sample ID:	PG1-2-E(0-1)	SDG No.:	LB91632
Lab Sample ID:	I6499-01	Matrix:	Solid
Level (low/med):	low	% Solid:	98.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.035	J	1	0.032		0.24	mg/Kg	11/16/2017	11/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91632	Date Received:	11/15/2017 12:00:00 AM
Client Sample ID:	PG1-2-E(4-5)	SDG No.:	LB91632
Lab Sample ID:	I6499-02	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	0.022	U	1	0.035		0.27	mg/Kg	11/16/2017	11/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91632	Date Received:	11/15/2017 12:00:00 AM
Client Sample ID:	PG1-2-E(7-8)	SDG No.:	LB91632
Lab Sample ID:	I6499-03	Matrix:	Solid
Level (low/med):	low	% Solid:	92.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.12	J	1	0.034		0.26	mg/Kg	11/16/2017	11/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91632	Date Received:	11/15/2017 12:00:00 AM
Client Sample ID:	PG1-1-E(0-1)	SDG No.:	LB91632
Lab Sample ID:	I6499-04	Matrix:	Solid
Level (low/med):	low	% Solid:	96.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.59		1	0.033		0.25	mg/Kg	11/16/2017	11/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91632	Date Received:	11/15/2017 12:00:00 AM
Client Sample ID:	PG1-1-E(7-8)	SDG No.:	LB91632
Lab Sample ID:	I6499-05	Matrix:	Solid
Level (low/med):	low	% Solid:	94.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.098	J	1	0.033		0.25	mg/Kg	11/16/2017	11/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91632	Date Received:	11/15/2017 12:00:00 AM
Client Sample ID:	PG1-4-E(0-1)	SDG No.:	LB91632
Lab Sample ID:	I6499-06	Matrix:	Solid
Level (low/med):	low	% Solid:	86.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.057	J	1	0.037		0.28	mg/Kg	11/16/2017	11/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91632	Date Received:	11/15/2017 12:00:00 AM
Client Sample ID:	PG1-4-E(7-8)	SDG No.:	LB91632
Lab Sample ID:	I6499-07	Matrix:	Solid
Level (low/med):	low	% Solid:	86.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.62		1	0.037		0.28	mg/Kg	11/16/2017	11/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91632	Date Received:	11/15/2017 12:00:00 AM
Client Sample ID:	PG1-3-E(4-5)	SDG No.:	LB91632
Lab Sample ID:	I6499-08	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	0.1	J	1	0.034		0.26	mg/Kg	11/16/2017	11/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91632	Date Received:	11/15/2017 12:00:00 AM
Client Sample ID:	PG1-3-E(7-8)	SDG No.:	LB91632
Lab Sample ID:	I6499-09	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	0.003	U	1	0.035		0.26	mg/Kg	11/16/2017	11/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB91632	Date Received:	
Client Sample ID:	LOWPB104312	SDG No.:	LB91632
Lab Sample ID:	LOWPB104312	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	0.0094		1	0.003		0.005	mg/L		11/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB91632	Date Received:	
Client Sample ID:	LOWPB104312	SDG No.:	LB91632
Lab Sample ID:	LOWPB104312	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: LB91632

SDG No.: LB91632

Contract: _____

Lab Code: CHEM

Case No.: LB91632

SAS No.: LB91632

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	0.098	0.099	99	0	85 - 115		11/16/2017	12:26	LB91632



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB91632

SDG No.: LB91632

Contract: _____ Lab Code: CHEM

Case No.: LB91632

SAS No.: LB91632

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		11/16/2017	12:26	LB91632
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		11/16/2017	12:34	LB91632
CCV3	Cyanide	0.25	0.25	100	0	90 - 110		11/16/2017	12:40	LB91632



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91632 **SDG No.:** LB91632
Contract: **Lab Code:** CHEM **Case No.:** LB91632 **SAS No.:** LB91632

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0	+/-0.005	U		0.005		11/16/2017	12:26	LB91632

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0	+/-0.005	U		0.005		11/16/2017	12:26	LB91632
CCB2	Cyanide	0.00016	+/-0.005	U		0.005		11/16/2017	12:34	LB91632
CCB3	Cyanide	0.0001	+/-0.005	U		0.005		11/16/2017	12:40	LB91632



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91632

SDG No.: LB91632

Contract: Lab Code: CHEM

Case No.: LB91632

SAS No.: LB91632

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: LB91632

SDG No.: LB91632

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
PB104312BL	Cyanide	SOLID -0.0097	<0.25	Batch Number: U		PB104312 0.25		Prep Date: 11/16/2017	11/16/2017 12:26	LB91632



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB91632 level: low sdg no.: LB91632
contract: lab code: CHEM case no.: LB91632 sas no.: LB91632
matrix: Solid sample id: I6309-01 client id: BU-02-111517MS
Percent Solids for Sample: 79.8 Spiked ID: I6309-01MS Percent Solids for Spike Sample: 79.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2		0.04	U	2.5	80		

GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91632 level: low sdg no.: LB91632
contract: lab code: CHEM case no.: LB91632 sas no.: LB91632
matrix: Solid sample id: I6309-01 client id: BU-02-111517MSD
Percent Solids for Sample: 79.8 Spiked ID: I6309-01MSD Percent Solids for Spike Sample: 79.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125		2	0.04	U	2.5	80		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB91632 **Level:** LOW **SDG No.:** LB91632
Contract: **Lab Code:** CHEM **Case No.:** LB91632 **SAS No.:** LB91632
Matrix: Solid **Sample ID:** I6309-01 **Client ID:** BU-02-111517DUP
Percent Solids for Sample: 79.8 **Duplicate ID** I6309-01DUP **Percent Solids for Spike Sample:** 79.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.04	U	0.048	J	200.0		

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DUPLICATE SAMPLE SUMMARY

Client: LB91632 **Level:** LOW **SDG No.:** LB91632
Contract: **Lab Code:** CHEM **Case No.:** LB91632 **SAS No.:** LB91632
Matrix: Solid **Sample ID:** I6309-01MS **Client ID:** BU-02-111517MSD
Percent Solids for Sample: 79.8 **Duplicate ID** I6309-01MSD **Percent Solids for Spike Sample:** 79.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2		2		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91632 SDG No.: LB91632
Contract: Lab Code: CHEM Case No.: LB91632 SAS No.: LB91632

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB104312BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	
