

Daily Analysis Runlog For Sequence/QC Batch ID # LB89200

Review By

Review On

SubDirectory

LB89200

Test :

Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP56861,WP56862,WP56863,WP56864,WP56865,WP56866,WP56867,WP56868
ICV Standard	W1541
CCV Standard	WP56870
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP54521
Chk Standard	WP56869,WP55355,WP55836

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	08/02/17 10:33		OK
2	5.0PPBCN	5.0PPBCN	CAL2	08/02/17 10:33		OK
3	10PPBCN	10PPBCN	CAL3	08/02/17 10:33		OK
4	50PPBCN	50PPBCN	CAL4	08/02/17 10:33		OK
5	100PPBCN	100PPBCN	CAL5	08/02/17 10:33		OK
6	250PPBCN	250PPBCN	CAL6	08/02/17 10:33		OK
7	500PPBCN	500PPBCN	CAL7	08/02/17 10:33		OK
8	ICV1	ICV1	ICV	08/02/17 15:14		OK
9	ICB1	ICB1	ICB	08/02/17 15:14		OK
10	CCV1	CCV1	CCV	08/02/17 15:14		OK
11	CCB1	CCB1	CCB	08/02/17 15:14		OK
12	PB101185BL	PB101185BL	MB	08/02/17 15:14		OK
13	PB101185BS	PB101185BS	LCS	08/02/17 15:14		OK
14	LOWPB101185	LOWPB101185	SAM	08/02/17 15:14		OK
15	HIGHPB101185	HIGHPB101185	SAM	08/02/17 15:14		OK
16	I4546-01	SCREENED-2-INCH	SAM	08/02/17 15:14		OK
17	I4546-01DUP	SCREENED-2-INCH	DUP	08/02/17 15:14		OK
18	I4546-01MS	SCREENED-2-INCH	MS	08/02/17 15:14		OK
19	I4546-01MSD	SCREENED-2-INCH	MSD	08/02/17 15:21		OK
20	I4558-02	B-6(0-10)COMP	SAM	08/02/17 15:21		OK
21	I4558-04	B-5(0-10)COMP	SAM	08/02/17 15:21		OK

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

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SubDirectory		LB89200		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP56861,WP56862,WP56863,WP56864,WP56865,WP56866,WP56867,WP56868				
ICV Standard		W1541				
CCV Standard		WP56870				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54521				
Chk Standard		WP56869,WP55355,WP55836				
22	CCV2	CCV2	CCV	08/02/17 15:21		OK
23	CCB2	CCB2	CCB	08/02/17 15:21		OK
24	I4559-01	FK-GF-02-008-A	SAM	08/02/17 15:21		OK
25	I4559-03	FK-GF-02-008-B	SAM	08/02/17 15:21		OK
26	I4560-02	N-STOCKPILE-COM	SAM	08/02/17 15:21		OK
27	I4560-04	S-STOCKPILE-COM	SAM	08/02/17 15:21		OK
28	I4562-01	JC-02-080117-A	SAM	08/02/17 15:21		OK
29	I4562-04	JC-02-080117-B	SAM	08/02/17 15:21		OK
30	I4562-07	JC-02-080117-C	SAM	08/02/17 15:29		OK
31	I4562-10	JC-02-080117-D	SAM	08/02/17 15:29		OK
32	I4562-13	JC-02-080117-E	SAM	08/02/17 15:29		OK
33	I4562-16	JC-02-080117-F	SAM	08/02/17 15:29		OK
34	CCV3	CCV3	CCV	08/02/17 15:29		OK
35	CCB3	CCB3	CCB	08/02/17 15:29		OK
36	I4562-19	JC-02-080117-G	SAM	08/02/17 15:29		OK
37	I4562-22	JC-02-080117-H	SAM	08/02/17 15:29		OK
38	CCV4	CCV4	CCV	08/02/17 15:29		OK
39	CCB4	CCB4	CCB	08/02/17 15:29		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB89200	Date Received:	
Client Sample ID:	HIGHPB101185	SDG No.:	LB89200
Lab Sample ID:	HIGHPB101185	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		08/02/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/1/2017 12:00:00 AM
Project:	LB89200	Date Received:	8/1/2017 12:00:00 AM
Client Sample ID:	SCREENED-2-INCH-MINUS-A	SDG No.:	LB89200
Lab Sample ID:	I4546-01	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	0.076	J	1	0.036		0.27	mg/Kg	08/02/2017	08/02/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/1/2017 12:00:00 AM
Project:	LB89200	Date Received:	8/1/2017 12:00:00 AM
Client Sample ID:	B-6(0-10)COMP	SDG No.:	LB89200
Lab Sample ID:	I4558-02	Matrix:	Solid
Level (low/med):	low	% Solid:	94.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.052	J	1	0.034		0.26	mg/Kg	08/02/2017	08/02/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/1/2017 12:00:00 AM
Project:	LB89200	Date Received:	8/1/2017 12:00:00 AM
Client Sample ID:	B-5(0-10)COMP	SDG No.:	LB89200
Lab Sample ID:	I4558-04	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	0.12	J	1	0.033		0.25	mg/Kg	08/02/2017	08/02/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/1/2017 12:00:00 AM
Project:	LB89200	Date Received:	8/1/2017 12:00:00 AM
Client Sample ID:	FK-GF-02-008-A	SDG No.:	LB89200
Lab Sample ID:	I4559-01	Matrix:	Solid
Level (low/med):	low	% Solid:	93.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.056	J	1	0.034		0.26	mg/Kg	08/02/2017	08/02/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/1/2017 12:00:00 AM
Project:	LB89200	Date Received:	8/1/2017 12:00:00 AM
Client Sample ID:	FK-GF-02-008-B	SDG No.:	LB89200
Lab Sample ID:	I4559-03	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	0.053	J	1	0.034		0.26	mg/Kg	08/02/2017	08/02/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/1/2017 12:00:00 AM
Project:	LB89200	Date Received:	8/1/2017 12:00:00 AM
Client Sample ID:	N-STOCKPILE-COMP	SDG No.:	LB89200
Lab Sample ID:	I4560-02	Matrix:	Solid
Level (low/med):	low	% Solid:	93.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.086	J	1	0.034		0.26	mg/Kg	08/02/2017	08/02/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/1/2017 12:00:00 AM
Project:	LB89200	Date Received:	8/1/2017 12:00:00 AM
Client Sample ID:	S-STOCKPILE-COMP	SDG No.:	LB89200
Lab Sample ID:	I4560-04	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	0.092	J	1	0.033		0.25	mg/Kg	08/02/2017	08/02/2017	9012B

Report of Analysis

Client:		Date Collected:	8/1/2017 12:00:00 AM
Project:	LB89200	Date Received:	8/1/2017 12:00:00 AM
Client Sample ID:	JC-02-080117-A	SDG No.:	LB89200
Lab Sample ID:	I4562-01	Matrix:	Solid
Level (low/med):	low	% Solid:	96

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.11	J	1	0.033		0.25	mg/Kg	08/02/2017	08/02/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/1/2017 12:00:00 AM
Project:	LB89200	Date Received:	8/1/2017 12:00:00 AM
Client Sample ID:	JC-02-080117-B	SDG No.:	LB89200
Lab Sample ID:	I4562-04	Matrix:	Solid
Level (low/med):	low	% Solid:	95.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.066	J	1	0.033		0.25	mg/Kg	08/02/2017	08/02/2017	9012B

Report of Analysis

Client:		Date Collected:	8/1/2017 12:00:00 AM
Project:	LB89200	Date Received:	8/1/2017 12:00:00 AM
Client Sample ID:	JC-02-080117-C	SDG No.:	LB89200
Lab Sample ID:	I4562-07	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	0.096	J	1	0.035		0.27	mg/Kg	08/02/2017	08/02/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/1/2017 12:00:00 AM
Project:	LB89200	Date Received:	8/1/2017 12:00:00 AM
Client Sample ID:	JC-02-080117-D	SDG No.:	LB89200
Lab Sample ID:	I4562-10	Matrix:	Solid
Level (low/med):	low	% Solid:	98.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.11	J	1	0.033		0.25	mg/Kg	08/02/2017	08/02/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/1/2017 12:00:00 AM
Project:	LB89200	Date Received:	8/1/2017 12:00:00 AM
Client Sample ID:	JC-02-080117-E	SDG No.:	LB89200
Lab Sample ID:	I4562-13	Matrix:	Solid
Level (low/med):	low	% Solid:	95.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.16	J	1	0.033		0.25	mg/Kg	08/02/2017	08/02/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/1/2017 12:00:00 AM
Project:	LB89200	Date Received:	8/1/2017 12:00:00 AM
Client Sample ID:	JC-02-080117-F	SDG No.:	LB89200
Lab Sample ID:	I4562-16	Matrix:	Solid
Level (low/med):	low	% Solid:	97.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.14	J	1	0.033		0.25	mg/Kg	08/02/2017	08/02/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/1/2017 12:00:00 AM
Project:	LB89200	Date Received:	8/1/2017 12:00:00 AM
Client Sample ID:	JC-02-080117-G	SDG No.:	LB89200
Lab Sample ID:	I4562-19	Matrix:	Solid
Level (low/med):	low	% Solid:	98.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.074	J	1	0.032		0.25	mg/Kg	08/02/2017	08/02/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/1/2017 12:00:00 AM
Project:	LB89200	Date Received:	8/1/2017 12:00:00 AM
Client Sample ID:	JC-02-080117-H	SDG No.:	LB89200
Lab Sample ID:	I4562-22	Matrix:	Solid
Level (low/med):	low	% Solid:	97.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.095	J	1	0.033		0.25	mg/Kg	08/02/2017	08/02/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB89200	Date Received:	
Client Sample ID:	LOWPB101185	SDG No.:	LB89200
Lab Sample ID:	LOWPB101185	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	0.011		1	0.003		0.005	mg/L		08/02/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB89200	Date Received:	
Client Sample ID:	LOWPB101185	SDG No.:	LB89200
Lab Sample ID:	LOWPB101185	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: LB89200

SDG No.: LB89200

Contract: _____

Lab Code: CHEM

Case No.: LB89200

SAS No.: LB89200

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	0.095	0.099	96	0	85 - 115		08/02/2017	15:14	LB89200



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB89200

SDG No.: LB89200

Contract: _____ Lab Code: CHEM

Case No.: LB89200

SAS No.: LB89200

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		08/02/2017	15:14	LB89200
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		08/02/2017	15:21	LB89200
CCV3	Cyanide	0.24	0.25	96	0	90 - 110		08/02/2017	15:29	LB89200
CCV4	Cyanide	0.24	0.25	96	0	90 - 110		08/02/2017	15:29	LB89200



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89200 **SDG No.:** LB89200
Contract: **Lab Code:** CHEM **Case No.:** LB89200 **SAS No.:** LB89200

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00098	+/-0.005	U		0.005		08/02/2017	15:14	LB89200

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		08/02/2017	15:14	LB89200
CCB2	Cyanide	0.0025	+/-0.005	U		0.005		08/02/2017	15:21	LB89200
CCB3	Cyanide	0.0012	+/-0.005	U		0.005		08/02/2017	15:29	LB89200
CCB4	Cyanide	0.0017	+/-0.005	U		0.005		08/02/2017	15:29	LB89200



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89200

SDG No.: LB89200

Contract: Lab Code: CHEM

Case No.: LB89200

SAS No.: LB89200

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: LB89200

SDG No.: LB89200

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
PB101185BL	Cyanide	SOLID 0.063	<0.25	Batch Number: J		PB101185 0.25		Prep Date: 08/02/2017	08/02/2017 15:14	LB89200



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB89200 level: low sdg no.: LB89200
contract: lab code: CHEM case no.: LB89200 sas no.: LB89200
matrix: Solid sample id: I4546-01 client id: SCREENED-2-INCH-MINUS-AMS
Percent Solids for Sample: 89.4 Spiked ID: I4546-01MS Percent Solids for Spike Sample: 89.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.076	J	2.2	83		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB89200 level: low sdg no.: LB89200
contract: lab code: CHEM case no.: LB89200 sas no.: LB89200
matrix: Solid sample id: I4546-01 client id: SCREENED-2-INCH-MINUS-AMSD
Percent Solids for Sample: 89.4 Spiked ID: I4546-01MSD Percent Solids for Spike Sample: 89.4

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.8		0.076	J	2.2	78		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB89200 **Level:** LOW **SDG No.:** LB89200
Contract: **Lab Code:** CHEM **Case No.:** LB89200 **SAS No.:** LB89200
Matrix: Solid **Sample ID:** I4546-01 **Client ID:** SCREENED-2-INCH-MINUS-ADUP
Percent Solids for Sample: 89.4 **Duplicate ID** I4546-01DUP **Percent Solids for Spike Sample:** 89.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.076	J	0.044	J	53	*	



GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB89200 **Level:** LOW **SDG No.:** LB89200
Contract: **Lab Code:** CHEM **Case No.:** LB89200 **SAS No.:** LB89200
Matrix: Solid **Sample ID:** I4546-01MS **Client ID:** SCREENED-2-INCH-MINUS-AMSD
Percent Solids for Sample: 89.4 **Duplicate ID** I4546-01MSD **Percent Solids for Spike Sample:** 89.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.9		1.8		5		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89200 SDG No.: LB89200
Contract: Lab Code: CHEM Case No.: LB89200 SAS No.: LB89200

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB101185BS Cyanide	mg/Kg	4.9	4.7		95.9	85 - 115	
