

Daily Analysis Runlog For Sequence/QC Batch ID # LB94881

Review By		Review On				
SubDirectory		LB94881		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP63949,WP63951,WP63953,WP63954,WP63955,WP63957,WP63959				
ICV Standard		W1542				
CCV Standard		WP63960				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP63963,WP59958,WP60878				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	04/25/18 08:33		OK
2	5.0PPBCN	5.0PPBCN	CAL2	04/25/18 08:33		OK
3	10PPBCN	10PPBCN	CAL3	04/25/18 08:33		OK
4	50PPBCN	50PPBCN	CAL4	04/25/18 08:33		OK
5	100PPBCN	100PPBCN	CAL5	04/25/18 08:33		OK
6	250PPBCN	250PPBCN	CAL6	04/25/18 08:33		OK
7	500PPBCN	500PPBCN	CAL7	04/25/18 08:33		OK
8	ICV1	ICV1	ICV	04/25/18 13:22		OK
9	ICB1	ICB1	ICB	04/25/18 13:22		OK
10	CCV1	CCV1	CCV	04/25/18 13:22		OK
11	CCB1	CCB1	CCB	04/25/18 13:22		OK
12	PB108596BL	PB108596BL	MB	04/25/18 13:22		OK
13	PB108596BS	PB108596BS	LCS	04/25/18 13:22		OK
14	J2525-01	IM-TS-SJAP-01	SAM	04/25/18 13:22		OK
15	J2525-01DUP	IM-TS-SJAP-01DUP	DUP	04/25/18 13:22		OK
16	J2525-01MS	IM-TS-SJAP-01MS	MS	04/25/18 13:22		OK
17	J2525-01MSD	IM-TS-SJAP-01MSD	MSD	04/25/18 13:22		OK
18	J2525-02	IM-TS-SJAP-02	SAM	04/25/18 13:22		OK
19	J2525-03	IM-TS-SJAP-03	SAM	04/25/18 13:30		OK
20	J2525-04	IM-TS-SJAP-04	SAM	04/25/18 13:30		OK
21	J2525-05	IM-TS-SJAP-05	SAM	04/25/18 13:30		OK

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

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ICV Standard		W1542				
CCV Standard		WP63960				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP63963,WP59958,WP60878				
22	CCV2	CCV2	CCV	04/25/18 13:30		OK
23	CCB2	CCB2	CCB	04/25/18 13:30		OK
24	J2525-06	IM-TS-SJAP-06	SAM	04/25/18 13:30		OK
25	J2525-07	IM-TS-SJAP-07	SAM	04/25/18 13:30		OK
26	J2525-08	IM-TS-SJAP-08	SAM	04/25/18 13:30		OK
27	PB108597BL	PB108597BL	MB	04/25/18 13:30		OK
28	PB108597BS	PB108597BS	LCS	04/25/18 13:30		OK
29	J2543-01	TOTE	SAM	04/25/18 13:30		OK
30	J2543-01DUP	TOTEDUP	DUP	04/25/18 13:36		OK
31	J2543-01MS	TOTEMS	MS	04/25/18 13:36		OK
32	J2543-01MSD	TOTEMSD	MSD	04/25/18 13:36		OK
33	CCV3	CCV3	CCV	04/25/18 13:36		OK
34	CCB3	CCB3	CCB	04/25/18 13:36		OK



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Report of Analysis

Client:		Date Collected:	4/23/2018 12:00:00 AM
Project:	LB94881	Date Received:	4/24/2018 12:00:00 AM
Client Sample ID:	IM-TS-SJAP-01	SDG No.:	LB94881
Lab Sample ID:	J2525-01	Matrix:	Solid
Level (low/med):	low	% Solid:	75.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.066	J	1	0.043		0.32	mg/Kg	04/25/2018	04/25/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/23/2018 12:00:00 AM
Project:	LB94881	Date Received:	4/24/2018 12:00:00 AM
Client Sample ID:	IM-TS-SJAP-02	SDG No.:	LB94881
Lab Sample ID:	J2525-02	Matrix:	Solid
Level (low/med):	low	% Solid:	69.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.023	U	1	0.045		0.34	mg/Kg	04/25/2018	04/25/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/23/2018 12:00:00 AM
Project:	LB94881	Date Received:	4/24/2018 12:00:00 AM
Client Sample ID:	IM-TS-SJAP-03	SDG No.:	LB94881
Lab Sample ID:	J2525-03	Matrix:	Solid
Level (low/med):	low	% Solid:	73

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.073	J	1	0.044		0.33	mg/Kg	04/25/2018	04/25/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/23/2018 12:00:00 AM
Project:	LB94881	Date Received:	4/24/2018 12:00:00 AM
Client Sample ID:	IM-TS-SJAP-04	SDG No.:	LB94881
Lab Sample ID:	J2525-04	Matrix:	Solid
Level (low/med):	low	% Solid:	62.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.052	J	1	0.052		0.39	mg/Kg	04/25/2018	04/25/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/23/2018 12:00:00 AM
Project:	LB94881	Date Received:	4/24/2018 12:00:00 AM
Client Sample ID:	IM-TS-SJAP-05	SDG No.:	LB94881
Lab Sample ID:	J2525-05	Matrix:	Solid
Level (low/med):	low	% Solid:	74.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.24	J	1	0.043		0.32	mg/Kg	04/25/2018	04/25/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/23/2018 12:00:00 AM
Project:	LB94881	Date Received:	4/24/2018 12:00:00 AM
Client Sample ID:	IM-TS-SJAP-06	SDG No.:	LB94881
Lab Sample ID:	J2525-06	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	0.18	J	1	0.041		0.31	mg/Kg	04/25/2018	04/25/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/23/2018 12:00:00 AM
Project:	LB94881	Date Received:	4/24/2018 12:00:00 AM
Client Sample ID:	IM-TS-SJAP-07	SDG No.:	LB94881
Lab Sample ID:	J2525-07	Matrix:	Solid
Level (low/med):	low	% Solid:	72.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.081	J	1	0.044		0.33	mg/Kg	04/25/2018	04/25/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/23/2018 12:00:00 AM
Project:	LB94881	Date Received:	4/24/2018 12:00:00 AM
Client Sample ID:	IM-TS-SJAP-08	SDG No.:	LB94881
Lab Sample ID:	J2525-08	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	0.69		1	0.04		0.3	mg/Kg	04/25/2018	04/25/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/24/2018 12:00:00 AM
Project:	LB94881	Date Received:	4/24/2018 12:00:00 AM
Client Sample ID:	TOTE	SDG No.:	LB94881
Lab Sample ID:	J2543-01	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	0.00036	U	1	0.003		0.005	mg/L	04/25/2018	04/25/2018	9012B



Report of Analysis

Client:		Date Collected:	4/24/2018 12:00:00 AM
Project:	LB94881	Date Received:	4/24/2018 12:00:00 AM
Client Sample ID:	TOTE	SDG No.:	LB94881
Lab Sample ID:	J2543-01	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: LB94881

SDG No.: LB94881

Contract: _____ Lab Code: CHEM

Case No.: LB94881

SAS No.: LB94881

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Cyanide	0.24	0.25	96		90 - 110		04/25/2018	13:22	LB94881
CCV2	Cyanide	0.25	0.25	100		90 - 110		04/25/2018	13:30	LB94881
CCV3	Cyanide	0.25	0.25	100		90 - 110		04/25/2018	13:36	LB94881



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94881 **SDG No.:** LB94881
Contract: **Lab Code:** CHEM **Case No.:** LB94881 **SAS No.:** LB94881

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		04/25/2018	13:22	LB94881



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94881

SDG No.: LB94881

Contract:

Lab Code: CHEM

Case No.: LB94881

SAS No.: LB94881

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.0011	+/-0.005	U		0.005		04/25/2018	13:22	LB94881
CCB2	Cyanide	-0.00021	+/-0.005	U		0.005		04/25/2018	13:30	LB94881
CCB3	Cyanide	0	+/-0.005	U		0.005		04/25/2018	13:36	LB94881



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB94881

SDG No.:

LB94881

Contract:

Lab Code:

CHEM

Case No.:

LB94881

SAS No.:

LB94881

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: LB94881

SDG No.: LB94881

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
PB108596BL	Cyanide	SOLID		Batch Number:		PB108596		Prep Date:	04/25/2018	
		-0.017	<0.25	U		0.25		04/25/2018	13:22	LB94881
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB108597BL	Cyanide	WATER		Batch Number:		PB108597		Prep Date:	04/25/2018	
		0.00051	<0.005	U		0.005		04/25/2018	13:30	LB94881



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB94881 level: low sdg no.: LB94881
contract: lab code: CHEM case no.: LB94881 sas no.: LB94881
matrix: Solid sample id: J2525-01 client id: IM-TS-SJAP-01MS
Percent Solids for Sample: 75.2 Spiked ID: J2525-01MS Percent Solids for Spike Sample: 75.2

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.2		0.066	J	2.6	82		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB94881 level: low sdg no.: LB94881
contract: lab code: CHEM case no.: LB94881 sas no.: LB94881
matrix: Solid sample id: J2525-01 client id: IM-TS-SJAP-01MSD
Percent Solids for Sample: 75.2 Spiked ID: J2525-01MSD Percent Solids for Spike Sample: 75.2

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.2		0.066	J	2.6	82		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB94881 level: low sdg no.: LB94881
contract: lab code: CHEM case no.: LB94881 sas no.: LB94881
matrix: WATER sample id: J2543-01 client id: TOTEMS
Percent Solids for Sample: 0 Spiked ID: J2543-01MS 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: LB94881 level: low sdg no.: LB94881
contract: lab code: CHEM case no.: LB94881 sas no.: LB94881
matrix: WATER sample id: J2543-01 client id: TOTEMSD
Percent Solids for Sample: 0 Spiked ID: J2543-01MSD 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	0.036		0.003	U	0.04	90		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB94881 **Level:** LOW **SDG No.:** LB94881
Contract: **Lab Code:** CHEM **Case No.:** LB94881 **SAS No.:** LB94881
Matrix: Solid **Sample ID:** J2525-01 **Client ID:** IM-TS-SJAP-01DUP
Percent Solids for Sample: 75.2 **Duplicate ID** J2525-01DUP **Percent Solids for Spike Sample:** 75.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.066	J	0.012	U	200.0	*	

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB94881 **Level:** LOW **SDG No.:** LB94881
Contract: **Lab Code:** CHEM **Case No.:** LB94881 **SAS No.:** LB94881
Matrix: Solid **Sample ID:** J2525-01MS **Client ID:** IM-TS-SJAP-01MSD
Percent Solids for Sample: 75.2 **Duplicate ID** J2525-01MSD **Percent Solids for Spike Sample:** 75.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.2		2.2		0		

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DUPLICATE SAMPLE SUMMARY

Client: LB94881 **Level:** LOW **SDG No.:** LB94881
Contract: **Lab Code:** CHEM **Case No.:** LB94881 **SAS No.:** LB94881
Matrix: WATER **Sample ID:** J2543-01 **Client ID:** TOTEDUP
Percent Solids for Sample: 0 **Duplicate ID** J2543-01DUP **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	0.00034	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB94881 **Level:** LOW **SDG No.:** LB94881
Contract: **Lab Code:** CHEM **Case No.:** LB94881 **SAS No.:** LB94881
Matrix: WATER **Sample ID:** J2543-01MS **Client ID:** TOTEMSD
Percent Solids for Sample: 0 **Duplicate ID** J2543-01MSD **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		0.036		3		



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94881 SDG No.: LB94881
Contract: Lab Code: CHEM Case No.: LB94881 SAS No.: LB94881

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB108596BS Cyanide	mg/Kg	5	4.8		96	85 - 115	



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94881

SDG No.: LB94881

Contract:

Lab Code: CHEM

Case No.: LB94881

SAS No.: LB94881

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB108597BS Cyanide	mg/L	0.1	0.099		99	85 - 115	