

Daily Analysis Runlog For Sequence/QC Batch ID # LB94430

Review By		Review On				
SubDirectory		LB94430		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP63441,WP63442,WP63443,WP63444,WP63445,WP63446,WP63447				
ICV Standard		W1542				
CCV Standard		WP63448				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP63450,WP59958,WP60878				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	04/05/18 14:15		OK
2	5.0PPBCN	5.0PPBCN	CAL2	04/05/18 14:15		OK
3	10PPBCN	10PPBCN	CAL3	04/05/18 14:15		OK
4	50PPBCN	50PPBCN	CAL4	04/05/18 14:15		OK
5	100PPBCN	100PPBCN	CAL5	04/05/18 14:15		OK
6	250PPBCN	250PPBCN	CAL6	04/05/18 14:15		OK
7	500PPBCN	500PPBCN	CAL7	04/05/18 14:15		OK
8	ICV1	ICV1	ICV	04/05/18 15:29		OK
9	ICB1	ICB1	ICB	04/05/18 15:29		OK
10	CCV1	CCV1	CCV	04/05/18 15:29		OK
11	CCB1	CCB1	CCB	04/05/18 15:29		OK
12	PB108015BL	PB108015BL	MB	04/05/18 15:29		OK
13	PB108015BS	PB108015BS	LCS	04/05/18 15:29		OK
14	HIGHPB108015	HIGHPB108015	SAM	04/05/18 15:29		OK
15	J2231-01	42ND-STREET	SAM	04/05/18 15:29		OK
16	J2231-01DUP	42ND-STREETDUP	DUP	04/05/18 15:29		OK
17	J2231-01MS	42ND-STREETMS	MS	04/05/18 15:29		OK
18	J2231-01MSD	42ND-STREETMSD	MSD	04/05/18 15:36		OK
19	J2232-01	CV-RB26667RT	SAM	04/05/18 15:36		OK
20	J2237-01	SC-1	SAM	04/05/18 15:36		OK
21	CCV2	CCV2	CCV	04/05/18 15:36		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB94430

Review By			Review On			
SubDirectory		LB94430		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP63441,WP63442,WP63443,WP63444,WP63445,WP63446,WP63447				
ICV Standard		W1542				
CCV Standard		WP63448				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP63450,WP59958,WP60878				
22	CCB2	CCB2	CCB	04/05/18 15:36		OK
23	PB108014BL	PB108014BL	MB	04/05/18 15:36		OK
24	PB108014BS	PB108014BS	LCS	04/05/18 15:36		OK
25	J2151-01	AU-06-040318-A	SAM	04/05/18 15:36		OK
26	J2151-01DUP	AU-06-040318-ADUP	DUP	04/05/18 15:36		OK
27	J2151-01MS	AU-06-040318-AMS	MS	04/05/18 15:36		OK
28	J2151-01MSD	AU-06-040318-AMSD	MSD	04/05/18 15:36		OK
29	J2151-03	AU-06-040318-B	SAM	04/05/18 15:44		OK
30	J2151-05	AU-06-040318-C	SAM	04/05/18 15:44		OK
31	J2153-01	HR-06-040418-A	SAM	04/05/18 15:44		OK
32	J2153-03	HR-06-040418-B	SAM	04/05/18 15:44		OK
33	CCV3	CCV3	CCV	04/05/18 15:44		OK
34	CCB3	CCB3	CCB	04/05/18 15:44		OK
35	J2153-05	HR-06-040418-C	SAM	04/05/18 15:44		OK
36	J2166-01	TR-05-040318	SAM	04/05/18 15:44		OK
37	J2214-01	HH-STONE	SAM	04/05/18 15:44		OK
38	J2223-02	CV-RB47188RT	SAM	04/05/18 15:44		OK
39	J2228-01	ACV-102-20-ACV-43	SAM	04/05/18 15:44		OK
40	LOWPB108015	LOWPB108015	SAM	04/05/18 16:03		OK
41	CCV4	CCV4	CCV	04/05/18 16:03		OK
42	CCB4	CCB4	CCB	04/05/18 16:03		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB94430	Date Received:	
Client Sample ID:	HIGHPB108015	SDG No.:	LB94430
Lab Sample ID:	HIGHPB108015	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	0.51	OR	1	0.003		0.005	mg/L		04/05/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/3/2018 12:00:00 AM
Project:	LB94430	Date Received:	4/3/2018 12:00:00 AM
Client Sample ID:	AU-06-040318-A	SDG No.:	LB94430
Lab Sample ID:	J2151-01	Matrix:	Solid
Level (low/med):	low	% Solid:	87.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.095	J	1	0.037		0.28	mg/Kg	04/05/2018	04/05/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/3/2018 12:00:00 AM
Project:	LB94430	Date Received:	4/3/2018 12:00:00 AM
Client Sample ID:	AU-06-040318-B	SDG No.:	LB94430
Lab Sample ID:	J2151-03	Matrix:	Solid
Level (low/med):	low	% Solid:	85.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.043	J	1	0.038		0.29	mg/Kg	04/05/2018	04/05/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/3/2018 12:00:00 AM
Project:	LB94430	Date Received:	4/3/2018 12:00:00 AM
Client Sample ID:	AU-06-040318-C	SDG No.:	LB94430
Lab Sample ID:	J2151-05	Matrix:	Solid
Level (low/med):	low	% Solid:	88.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.077	J	1	0.036		0.28	mg/Kg	04/05/2018	04/05/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/4/2018 12:00:00 AM
Project:	LB94430	Date Received:	4/4/2018 12:00:00 AM
Client Sample ID:	HR-06-040418-A	SDG No.:	LB94430
Lab Sample ID:	J2153-01	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	0.024	U	1	0.035		0.27	mg/Kg	04/05/2018	04/05/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/4/2018 12:00:00 AM
Project:	LB94430	Date Received:	4/4/2018 12:00:00 AM
Client Sample ID:	HR-06-040418-B	SDG No.:	LB94430
Lab Sample ID:	J2153-03	Matrix:	Solid
Level (low/med):	low	% Solid:	83.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.066	J	1	0.039		0.29	mg/Kg	04/05/2018	04/05/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/4/2018 12:00:00 AM
Project:	LB94430	Date Received:	4/4/2018 12:00:00 AM
Client Sample ID:	HR-06-040418-C	SDG No.:	LB94430
Lab Sample ID:	J2153-05	Matrix:	Solid
Level (low/med):	low	% Solid:	87.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.1	J	1	0.036		0.27	mg/Kg	04/05/2018	04/05/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/3/2018 12:00:00 AM
Project:	LB94430	Date Received:	4/3/2018 12:00:00 AM
Client Sample ID:	TR-05-040318	SDG No.:	LB94430
Lab Sample ID:	J2166-01	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	0.054	J	1	0.037		0.28	mg/Kg	04/05/2018	04/05/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/4/2018 12:00:00 AM
Project:	LB94430	Date Received:	4/4/2018 12:00:00 AM
Client Sample ID:	HH-STONE	SDG No.:	LB94430
Lab Sample ID:	J2214-01	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	0.053	J	1	0.033		0.25	mg/Kg	04/05/2018	04/05/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/4/2018 12:00:00 AM
Project:	LB94430	Date Received:	4/4/2018 12:00:00 AM
Client Sample ID:	CV-RB47188RT	SDG No.:	LB94430
Lab Sample ID:	J2223-02	Matrix:	Solid
Level (low/med):	low	% Solid:	88.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.077	J	1	0.035		0.27	mg/Kg	04/05/2018	04/05/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/4/2018 12:00:00 AM
Project:	LB94430	Date Received:	4/4/2018 12:00:00 AM
Client Sample ID:	ACV-102-20-ACV-43-30	SDG No.:	LB94430
Lab Sample ID:	J2228-01	Matrix:	Solid
Level (low/med):	low	% Solid:	90.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.036	J	1	0.035		0.27	mg/Kg	04/05/2018	04/05/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/4/2018 12:00:00 AM
Project:	LB94430	Date Received:	4/4/2018 12:00:00 AM
Client Sample ID:	42ND-STREET	SDG No.:	LB94430
Lab Sample ID:	J2231-01	Matrix:	Solid
Level (low/med):	low	% Solid:	82.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.16	J	1	0.039		0.3	mg/Kg	04/05/2018	04/05/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/4/2018 12:00:00 AM
Project:	LB94430	Date Received:	4/4/2018 12:00:00 AM
Client Sample ID:	CV-RB26667RT	SDG No.:	LB94430
Lab Sample ID:	J2232-01	Matrix:	Solid
Level (low/med):	low	% Solid:	80.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.16	J	1	0.041		0.31	mg/Kg	04/05/2018	04/05/2018	9012B

Report of Analysis

Client:		Date Collected:	4/4/2018 12:00:00 AM
Project:	LB94430	Date Received:	4/4/2018 12:00:00 AM
Client Sample ID:	SC-1	SDG No.:	LB94430
Lab Sample ID:	J2237-01	Matrix:	Solid
Level (low/med):	low	% Solid:	87.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.045	J	1	0.037		0.28	mg/Kg	04/05/2018	04/05/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB94430	Date Received:	
Client Sample ID:	LOWPB108015	SDG No.:	LB94430
Lab Sample ID:	LOWPB108015	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		04/05/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB94430	Date Received:	
Client Sample ID:	LOWPB108015	SDG No.:	LB94430
Lab Sample ID:	LOWPB108015	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: LB94430

SDG No.: LB94430

Contract: _____

Lab Code: CHEM

Case No.: LB94430

SAS No.: LB94430

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
ICV1	Cyanide	0.098	0.099	99		85 - 115		04/05/2018	15:29	LB94430



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94430

SDG No.: LB94430

Contract: _____ Lab Code: CHEM

Case No.: LB94430

SAS No.: LB94430

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		04/05/2018	15:29	LB94430
CCV2	Cyanide	0.24	0.25	96		90 - 110		04/05/2018	15:36	LB94430
CCV3	Cyanide	0.24	0.25	96		90 - 110		04/05/2018	15:44	LB94430
CCV4	Cyanide	0.24	0.25	96		90 - 110		04/05/2018	16:03	LB94430



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94430 **SDG No.:** LB94430
Contract: **Lab Code:** CHEM **Case No.:** LB94430 **SAS No.:** LB94430

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00079	+/-0.005	U		0.005		04/05/2018	15:29	LB94430



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94430

SDG No.: LB94430

Contract:

Lab Code: CHEM

Case No.: LB94430

SAS No.: LB94430

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00043	+/-0.005	U		0.005		04/05/2018	15:29	LB94430
CCB2	Cyanide	0.00083	+/-0.005	U		0.005		04/05/2018	15:36	LB94430
CCB3	Cyanide	0.00059	+/-0.005	U		0.005		04/05/2018	15:44	LB94430
CCB4	Cyanide	0.00081	+/-0.005	U		0.005		04/05/2018	16:03	LB94430



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94430

SDG No.: LB94430

Contract: Lab Code: CHEM

Case No.: LB94430

SAS No.: LB94430

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: LB94430

SDG No.: LB94430

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
PB108014BL	Cyanide	SOLID		Batch Number:		PB108014		Prep Date:	04/05/2018	
		0.041	<0.25	J		0.25		04/05/2018	15:36	LB94430
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB108015BL	Cyanide	SOLID		Batch Number:		PB108015		Prep Date:	04/05/2018	
		0.0053	<0.25	U		0.25		04/05/2018	15:29	LB94430



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB94430 level: low sdg no.: LB94430
contract: lab code: CHEM case no.: LB94430 sas no.: LB94430
matrix: Solid sample id: J2151-01 client id: AU-06-040318-AMS
Percent Solids for Sample: 87.1 Spiked ID: J2151-01MS Percent Solids for Spike Sample: 87.1

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.095	J	2.2	82		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB94430 level: low sdg no.: LB94430
contract: lab code: CHEM case no.: LB94430 sas no.: LB94430
matrix: Solid sample id: J2151-01 client id: AU-06-040318-AMSD
Percent Solids for Sample: 87.1 Spiked ID: J2151-01MSD Percent Solids for Spike Sample: 87.1

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125		2	0.095	J	2.2	87		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB94430 level: low sdg no.: LB94430
contract: lab code: CHEM case no.: LB94430 sas no.: LB94430
matrix: Solid sample id: J2231-01 client id: 42ND-STREETMS
Percent Solids for Sample: 82.8 Spiked ID: J2231-01MS Percent Solids for Spike Sample: 82.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.3		0.16	J	2.4	89		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB94430 level: low sdg no.: LB94430
contract: lab code: CHEM case no.: LB94430 sas no.: LB94430
matrix: Solid sample id: J2231-01 client id: 42ND-STREETMSD
Percent Solids for Sample: 82.8 Spiked ID: J2231-01MSD Percent Solids for Spike Sample: 82.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.2		0.16	J	2.3	89		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB94430 **Level:** LOW **SDG No.:** LB94430
Contract: **Lab Code:** CHEM **Case No.:** LB94430 **SAS No.:** LB94430
Matrix: Solid **Sample ID:** J2151-01 **Client ID:** AU-06-040318-ADUP
Percent Solids for Sample: 87.1 **Duplicate ID** J2151-01DUP **Percent Solids for Spike Sample:** 87.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.095	J	0.076	J	22	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB94430 **Level:** LOW **SDG No.:** LB94430
Contract: **Lab Code:** CHEM **Case No.:** LB94430 **SAS No.:** LB94430
Matrix: Solid **Sample ID:** J2151-01MS **Client ID:** AU-06-040318-AMSD
Percent Solids for Sample: 87.1 **Duplicate ID** J2151-01MSD **Percent Solids for Spike Sample:** 87.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.9			2	5		

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DUPLICATE SAMPLE SUMMARY

Client: LB94430 **Level:** LOW **SDG No.:** LB94430
Contract: **Lab Code:** CHEM **Case No.:** LB94430 **SAS No.:** LB94430
Matrix: Solid **Sample ID:** J2231-01 **Client ID:** 42ND-STREETDUP
Percent Solids for Sample: 82.8 **Duplicate ID** J2231-01DUP **Percent Solids for Spike Sample:** 82.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.16	J	0.084	J	62	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB94430 **Level:** LOW **SDG No.:** LB94430
Contract: **Lab Code:** CHEM **Case No.:** LB94430 **SAS No.:** LB94430
Matrix: Solid **Sample ID:** J2231-01MS **Client ID:** 42ND-STREETMSD
Percent Solids for Sample: 82.8 **Duplicate ID** J2231-01MSD **Percent Solids for Spike Sample:** 82.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.3		2.2		4		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94430 SDG No.: LB94430
Contract: Lab Code: CHEM Case No.: LB94430 SAS No.: LB94430

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB108014BS Cyanide	mg/Kg	5	5		100	85 - 115	

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB108015BS							
Cyanide	mg/Kg	4.8	4.8		100	85 - 115	