

Daily Analysis Runlog For Sequence/QC Batch ID # LB88044

Review By		Review On				
SubDirectory		LB88044		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP55600,WP55601,WP55602,WP55603,WP55604,WP55605,WP55606,WP55607				
ICV Standard		W1541				
CCV Standard		WP55609				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54521				
Chk Standard		WP55608,WP51626,WP55355				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	06/13/17 09:35		OK
2	5.0PPBCN	5.0PPBCN	CAL2	06/13/17 09:35		OK
3	10PPBCN	10PPBCN	CAL3	06/13/17 09:35		OK
4	50PPBCN	50PPBCN	CAL4	06/13/17 09:35		OK
5	100PPBCN	100PPBCN	CAL5	06/13/17 09:35		OK
6	250PPBCN	250PPBCN	CAL6	06/13/17 09:35		OK
7	500PPBCN	500PPBCN	CAL7	06/13/17 09:35		OK
8	ICV1	ICV1	ICV	06/13/17 10:09		OK
9	ICB1	ICB1	ICB	06/13/17 10:09		OK
10	CCV1	CCV1	CCV	06/13/17 10:09		OK
11	CCB1	CCB1	CCB	06/13/17 10:09		OK
12	PB99705BL	PB99705BL	MB	06/13/17 10:09		OK
13	PB99705BS	PB99705BS	LCS	06/13/17 10:09		OK
14	LOWPB99705	LOWPB99705	SAM	06/13/17 10:09		OK
15	HIGHPB99705	HIGHPB99705	SAM	06/13/17 10:09		OK
16	I3624-01	NB-RO6151-060917	SAM	06/13/17 10:09		OK
17	I3624-01DUP	NB-RO6151-060917	DUP	06/13/17 10:09		OK
18	I3624-01MS	NB-RO6151-060917	MS	06/13/17 10:09		OK
19	I3624-01MSD	NB-RO6151-060917	MSD	06/13/17 10:16		OK
20	I3624-04	NB-RO6822-060917	SAM	06/13/17 10:16		OK
21	I3629-01	CLINTON-AVE-SP-C	SAM	06/13/17 10:16		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB88044

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SubDirectory		LB88044		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP55600,WP55601,WP55602,WP55603,WP55604,WP55605,WP55606,WP55607				
ICV Standard		W1541				
CCV Standard		WP55609				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54521				
Chk Standard		WP55608,WP51626,WP55355				
22	CCV2	CCV2	CCV	06/13/17 10:16		OK
23	CCB2	CCB2	CCB	06/13/17 10:16		OK
24	I3629-05	CLINTON-AVE-SP-C	SAM	06/13/17 10:16		OK
25	CCV3	CCV3	CCV	06/13/17 10:16		OK
26	CCB3	CCB3	CCB	06/13/17 10:16		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB88044	Date Received:	
Client Sample ID:	HIGHPB99705	SDG No.:	LB88044
Lab Sample ID:	HIGHPB99705	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	0.48		1	0.003		0.005	mg/L		06/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/9/2017 12:00:00 AM
Project:	LB88044	Date Received:	6/9/2017 12:00:00 AM
Client Sample ID:	NB-RO6151-060917	SDG No.:	LB88044
Lab Sample ID:	I3624-01	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	0.013	U	1	0.035		0.27	mg/Kg	06/12/2017	06/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/9/2017 12:00:00 AM
Project:	LB88044	Date Received:	6/9/2017 12:00:00 AM
Client Sample ID:	NB-RO6822-060917	SDG No.:	LB88044
Lab Sample ID:	I3624-04	Matrix:	Solid
Level (low/med):	low	% Solid:	94

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.026	U	1	0.034		0.26	mg/Kg	06/12/2017	06/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/9/2017 12:00:00 AM
Project:	LB88044	Date Received:	6/9/2017 12:00:00 AM
Client Sample ID:	CLINTON-AVE-SP-COMP-1	SDG No.:	LB88044
Lab Sample ID:	I3629-01	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	-0.0016	U	1	0.035		0.27	mg/Kg	06/12/2017	06/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/9/2017 12:00:00 AM
Project:	LB88044	Date Received:	6/9/2017 12:00:00 AM
Client Sample ID:	CLINTON-AVE-SP-COMP-2	SDG No.:	LB88044
Lab Sample ID:	I3629-05	Matrix:	Solid
Level (low/med):	low	% Solid:	92.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.026	U	1	0.034		0.26	mg/Kg	06/12/2017	06/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB88044	Date Received:	
Client Sample ID:	LOWPB99705	SDG No.:	LB88044
Lab Sample ID:	LOWPB99705	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	0.0097		1	0.003		0.005	mg/L		06/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB88044	Date Received:	
Client Sample ID:	LOWPB99705	SDG No.:	LB88044
Lab Sample ID:	LOWPB99705	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: LB88044

SDG No.: LB88044

Contract: _____

Lab Code: CHEM

Case No.: LB88044

SAS No.: LB88044

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	0.094	0.099	94.9	0	85 - 115		06/13/2017	10:09	LB88044



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB88044

SDG No.: LB88044

Contract: _____ Lab Code: CHEM

Case No.: LB88044

SAS No.: LB88044

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		06/13/2017	10:09	LB88044
CCV2	Cyanide	0.25	0.25	100	0	90 - 110		06/13/2017	10:16	LB88044
CCV3	Cyanide	0.25	0.25	100	0	90 - 110		06/13/2017	10:16	LB88044



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88044

SDG No.: LB88044

Contract:

Lab Code: CHEM

Case No.: LB88044

SAS No.: LB88044

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00026	+/-0.005	U		0.005		06/13/2017	10:09	LB88044



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88044

SDG No.: LB88044

Contract:

Lab Code: CHEM

Case No.: LB88044

SAS No.: LB88044

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		06/13/2017	10:09	LB88044
CCB2	Cyanide	-0.00019	+/-0.005	U		0.005		06/13/2017	10:16	LB88044
CCB3	Cyanide	-0.00064	+/-0.005	U		0.005		06/13/2017	10:16	LB88044



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88044

SDG No.: LB88044

Contract:

Lab Code: CHEM

Case No.: LB88044

SAS No.: LB88044

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: LB88044

SDG No.: LB88044

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
PB99705BL	Cyanide	SOLID -0.023	<0.25	Batch Number: U		PB99705 0.25		Prep Date: 06/13/2017	06/12/2017 10:09	LB88044



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- 5a -
MATRIX SPIKE SUMMARY

client: LB88044 level: low sdg no.: LB88044
contract: lab code: CHEM case no.: LB88044 sas no.: LB88044
matrix: Solid sample id: I3624-01 client id: NB-RO6151-060917MS
Percent Solids for Sample: 90.6 Spiked ID: I3624-01MS Percent Solids for Spike Sample: 90.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.8		0.035	U	2.2	81.8		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB88044 level: low sdg no.: LB88044
contract: lab code: CHEM case no.: LB88044 sas no.: LB88044
matrix: Solid sample id: I3624-01 client id: NB-RO6151-060917MSD
Percent Solids for Sample: 90.6 Spiked ID: I3624-01MSD Percent Solids for Spike Sample: 90.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.7		0.035	U	2.1	81		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB88044 Level: LOW SDG No.: LB88044
Contract: _____ Lab Code: CHEM Case No.: LB88044 SAS No.: LB88044
Matrix: Solid Sample ID: I3624-01 Client ID: NB-RO6151-060917DUP
Percent Solids for Sample: 90.6 Duplicate ID I3624-01DUP Percent Solids for Spike Sample: 90.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.035	U	0.0045	U			

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB88044 **Level:** LOW **SDG No.:** LB88044
Contract: **Lab Code:** CHEM **Case No.:** LB88044 **SAS No.:** LB88044
Matrix: Solid **Sample ID:** I3624-01MS **Client ID:** NB-RO6151-060917MSD
Percent Solids for Sample: 90.6 **Duplicate ID** I3624-01MSD **Percent Solids for Spike Sample:** 90.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.8		1.7		6		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB88044

SDG No.: LB88044

Contract:

Lab Code: CHEM

Case No.: LB88044

SAS No.: LB88044

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB99705BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	