

Daily Analysis Runlog For Sequence/QC Batch ID # LB87817

Review By

Review On

SubDirectory

LB87817

Test :

Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP55338,WP55339,WP55340,WP55341,WP55342,WP55343,WP55344,WP55345				
ICV Standard		W1541				
CCV Standard		WP55347				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54521				
Chk Standard		WP55346,WP51276,WP51626				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	06/02/17 09:04		OK
2	5.0PPBCN	5.0PPBCN	CAL2	06/02/17 09:04		OK
3	10PPBCN	10PPBCN	CAL3	06/02/17 09:04		OK
4	50PPBCN	50PPBCN	CAL4	06/02/17 09:04		OK
5	100PPBCN	100PPBCN	CAL5	06/02/17 09:04		OK
6	250PPBCN	250PPBCN	CAL6	06/02/17 09:04		OK
7	500PPBCN	500PPBCN	CAL7	06/02/17 09:04		OK
8	ICV1	ICV1	ICV	06/02/17 09:40		OK
9	ICB1	ICB1	ICB	06/02/17 09:40		OK
10	CCV1	CCV1	CCV	06/02/17 09:40		OK
11	CCB1	CCB1	CCB	06/02/17 09:40		OK
12	PB99408BL	PB99408BL	MB	06/02/17 09:40		OK
13	PB99408BS	PB99408BS	LCS	06/02/17 09:40		OK
14	LOWPB99408	LOWPB99408	SAM	06/02/17 09:40		OK
15	HIGHPB99408	HIGHPB99408	SAM	06/02/17 09:40		OK
16	I3412-01MS	TP-1-TP-2-COMPMS	MS	06/02/17 09:40		OK
17	I3412-01MSD	TP-1-TP-2-COMPMS	MSD	06/02/17 09:48		OK
18	I3412-05	TP-3-TP-4-COMP	SAM	06/02/17 09:48		OK
19	I3412-09	TP-5-COMP	SAM	06/02/17 09:48		OK
20	CCV2	CCV2	CCV	06/02/17 09:48		OK
21	CCB2	CCB2	CCB	06/02/17 09:48		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB87817

Review By		Review On				
SubDirectory		LB87817		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP55338,WP55339,WP55340,WP55341,WP55342,WP55343,WP55344,WP55345				
ICV Standard		W1541				
CCV Standard		WP55347				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54521				
Chk Standard		WP55346,WP51276,WP51626				
22	I3413-01	R4-COMP	SAM	06/02/17 09:48		OK
23	I3415-04	E2-CONCRETE-BAT	SAM	06/02/17 09:48		OK
24	I3420-01	TP-3-TP-4	SAM	06/02/17 09:48		OK
25	I3420-06	TP-1-TP-2	SAM	06/02/17 09:48		OK
26	PB99409BL	PB99409BL	MB	06/02/17 09:48		OK
27	PB99409BS	PB99409BS	LCS	06/02/17 09:48		OK
28	I3393-01	TW-01	SAM	06/02/17 09:54		OK
29	I3393-01DUP	TW-01DUP	DUP	06/02/17 09:54		OK
30	I3393-01MS	TW-01MS	MS	06/02/17 09:54		OK
31	I3393-01MSD	TW-01MSD	MSD	06/02/17 09:54		OK
32	CCV3	CCV3	CCV	06/02/17 09:54		OK
33	CCB3	CCB3	CCB	06/02/17 09:54		OK
34	I3412-01	TP-1-TP-2-COMP	SAM	06/02/17 10:15		OK
35	I3412-01DUP	TP-1-TP-2-COMPDU	DUP	06/02/17 10:15		OK
36	CCV4	CCV4	CCV	06/02/17 10:15		OK
37	CCB4	CCB4	CCB	06/02/17 10:15		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB87817	Date Received:	
Client Sample ID:	HIGHPB99408	SDG No.:	LB87817
Lab Sample ID:	HIGHPB99408	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		06/02/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/26/2017 12:00:00 AM
Project:	LB87817	Date Received:	5/30/2017 12:00:00 AM
Client Sample ID:	TW-01	SDG No.:	LB87817
Lab Sample ID:	I3393-01	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	0.00081	U	1	0.003		0.005	mg/L	06/01/2017	06/02/2017	9012B

Report of Analysis

Client:		Date Collected:	5/31/2017 12:00:00 AM
Project:	LB87817	Date Received:	5/31/2017 12:00:00 AM
Client Sample ID:	TP-1-TP-2-COMP	SDG No.:	LB87817
Lab Sample ID:	I3412-01	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	0.0085	U	1	0.036		0.28	mg/Kg	06/01/2017	06/02/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/31/2017 12:00:00 AM
Project:	LB87817	Date Received:	5/31/2017 12:00:00 AM
Client Sample ID:	TP-3-TP-4-COMP	SDG No.:	LB87817
Lab Sample ID:	I3412-05	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	0.015	U	1	0.035		0.27	mg/Kg	06/01/2017	06/02/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/31/2017 12:00:00 AM
Project:	LB87817	Date Received:	5/31/2017 12:00:00 AM
Client Sample ID:	TP-5-COMP	SDG No.:	LB87817
Lab Sample ID:	I3412-09	Matrix:	Solid
Level (low/med):	low	% Solid:	91

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.017	U	1	0.035		0.26	mg/Kg	06/01/2017	06/02/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/31/2017 12:00:00 AM
Project:	LB87817	Date Received:	5/31/2017 12:00:00 AM
Client Sample ID:	R4-COMP	SDG No.:	LB87817
Lab Sample ID:	I3413-01	Matrix:	Solid
Level (low/med):	low	% Solid:	83.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.05	J	1	0.038		0.29	mg/Kg	06/01/2017	06/02/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/31/2017 12:00:00 AM
Project:	LB87817	Date Received:	5/31/2017 12:00:00 AM
Client Sample ID:	E2-CONCRETE-BATCH-12	SDG No.:	LB87817
Lab Sample ID:	I3415-04	Matrix:	Solid
Level (low/med):	low	% Solid:	91.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.18	J	1	0.035		0.26	mg/Kg	06/01/2017	06/02/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/31/2017 12:00:00 AM
Project:	LB87817	Date Received:	5/31/2017 12:00:00 AM
Client Sample ID:	TP-3-TP-4	SDG No.:	LB87817
Lab Sample ID:	I3420-01	Matrix:	Solid
Level (low/med):	low	% Solid:	89.5

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	06/01/2017	06/02/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/31/2017 12:00:00 AM
Project:	LB87817	Date Received:	5/31/2017 12:00:00 AM
Client Sample ID:	TP-1-TP-2	SDG No.:	LB87817
Lab Sample ID:	I3420-06	Matrix:	Solid
Level (low/med):	low	% Solid:	84

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.00047	U	1	0.037		0.28	mg/Kg	06/01/2017	06/02/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB87817	Date Received:	
Client Sample ID:	LOWPB99408	SDG No.:	LB87817
Lab Sample ID:	LOWPB99408	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	0.01		1	0.003		0.005	mg/L		06/02/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB87817	Date Received:	
Client Sample ID:	LOWPB99408	SDG No.:	LB87817
Lab Sample ID:	LOWPB99408	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: LB87817

SDG No.: LB87817

Contract: _____

Lab Code: CHEM

Case No.: LB87817

SAS No.: LB87817

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	0.096	0.099	97	0	85 - 115		06/02/2017	09:40	LB87817



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87817

SDG No.: LB87817

Contract: _____ Lab Code: CHEM

Case No.: LB87817

SAS No.: LB87817

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		06/02/2017	09:40	LB87817
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		06/02/2017	09:48	LB87817
CCV3	Cyanide	0.25	0.25	100	0	90 - 110		06/02/2017	09:54	LB87817
CCV4	Cyanide	0.26	0.25	104	0	90 - 110		06/02/2017	10:15	LB87817

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00047	+/-0.005	U		0.005		06/02/2017	09:40	LB87817
CCB2	Cyanide	0.00042	+/-0.005	U		0.005		06/02/2017	09:48	LB87817
CCB3	Cyanide	0.0006	+/-0.005	U		0.005		06/02/2017	09:54	LB87817
CCB4	Cyanide	0.00035	+/-0.005	U		0.005		06/02/2017	10:15	LB87817



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87817

SDG No.: LB87817

Contract: Lab Code: CHEM

Case No.: LB87817

SAS No.: LB87817

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: LB87817

SDG No.: LB87817

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
PB99408BL	Cyanide	SOLID		Batch Number:		PB99408		Prep Date:	06/01/2017	
		0.021	<0.25	U		0.25		06/02/2017	09:40	LB87817
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB99409BL	Cyanide	WATER		Batch Number:		PB99409		Prep Date:	06/01/2017	
		0.00027	<0.005	U		0.005		06/02/2017	09:48	LB87817



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB87817 level: low sdg no.: LB87817
contract: lab code: CHEM case no.: LB87817 sas no.: LB87817
matrix: WATER sample id: I3393-01 client id: TW-01MS
Percent Solids for Sample: 0 Spiked ID: I3393-01MS 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	0.027		0.003	U	0.04	67.5	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB87817 level: low sdg no.: LB87817
contract: lab code: CHEM case no.: LB87817 sas no.: LB87817
matrix: WATER sample id: I3393-01 client id: TW-01MSD
Percent Solids for Sample: 0 Spiked ID: I3393-01MSD 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	0.027		0.003	U	0.04	67.5	*	



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB87817 level: low sdg no.: LB87817
contract: lab code: CHEM case no.: LB87817 sas no.: LB87817
matrix: Solid sample id: I3412-01 client id: TP-1-TP-2-COMPMS
Percent Solids for Sample: 87.9 Spiked ID: I3412-01MS Percent Solids for Spike Sample: 87.9

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.8		0.036	U	2.2	81.8		



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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB87817 level: low sdg no.: LB87817
contract: lab code: CHEM case no.: LB87817 sas no.: LB87817
matrix: Solid sample id: I3412-01 client id: TP-1-TP-2-COMPMSD
Percent Solids for Sample: 87.9 Spiked ID: I3412-01MSD Percent Solids for Spike Sample: 87.9

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.7		0.036	U	2.2	77.3		

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DUPLICATE SAMPLE SUMMARY

Client: LB87817 **Level:** LOW **SDG No.:** LB87817
Contract: **Lab Code:** CHEM **Case No.:** LB87817 **SAS No.:** LB87817
Matrix: WATER **Sample ID:** I3393-01 **Client ID:** TW-01DUP
Percent Solids for Sample: 0 **Duplicate ID** I3393-01DUP **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	0.00088	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB87817 **Level:** LOW **SDG No.:** LB87817
Contract: **Lab Code:** CHEM **Case No.:** LB87817 **SAS No.:** LB87817
Matrix: WATER **Sample ID:** I3393-01MS **Client ID:** TW-01MSD
Percent Solids for Sample: 0 **Duplicate ID** I3393-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.027		0.027		0		

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DUPLICATE SAMPLE SUMMARY

Client: LB87817 **Level:** LOW **SDG No.:** LB87817
Contract: **Lab Code:** CHEM **Case No.:** LB87817 **SAS No.:** LB87817
Matrix: Solid **Sample ID:** I3412-01 **Client ID:** TP-1-TP-2-COMPDUP
Percent Solids for Sample: 87.9 **Duplicate ID** I3412-01DUP **Percent Solids for Spike Sample:** 87.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.036	U	0.026	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB87817 **Level:** LOW **SDG No.:** LB87817
Contract: **Lab Code:** CHEM **Case No.:** LB87817 **SAS No.:** LB87817
Matrix: Solid **Sample ID:** I3412-01MS **Client ID:** TP-1-TP-2-COMPMSD
Percent Solids for Sample: 87.9 **Duplicate ID** I3412-01MSD **Percent Solids for Spike Sample:** 87.9

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: LB87817

SDG No.: LB87817

Contract:

Lab Code: CHEM

Case No.: LB87817

SAS No.: LB87817

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB99408BS Cyanide	mg/Kg	4.9	4.7		95.9	85 - 115	



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB87817

SDG No.: LB87817

Contract:

Lab Code: CHEM

Case No.: LB87817

SAS No.: LB87817

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB99409BS Cyanide	mg/L	0.1	0.098		98	85 - 115	