

Daily Analysis Runlog For Sequence/QC Batch ID # LB88282

Review By

SubDirectory

Review On

Test : Cyanide

LB88282

STD. NAME		STD REF.#				
ICAL Standard		WP55856,WP55857,WP55858,WP55859,WP55860,WP55861,WP55862,WP55863,WP55864				
ICV Standard		W1541				
CCV Standard		WP55866				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54521				
Chk Standard		WP55865,WP55836,WP55355				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	06/22/17 09:14		OK
2	5.0PPBCN	5.0PPBCN	CAL2	06/22/17 09:14		OK
3	10PPBCN	10PPBCN	CAL3	06/22/17 09:14		OK
4	50PPBCN	50PPBCN	CAL4	06/22/17 09:14		OK
5	100PPBCN	100PPBCN	CAL5	06/22/17 09:14		OK
6	250PPBCN	250PPBCN	CAL6	06/22/17 09:14		OK
7	500PPBCN	500PPBCN	CAL7	06/22/17 09:14		OK
8	ICV1	ICV1	ICV	06/22/17 15:10		OK
9	ICB1	ICB1	ICB	06/22/17 15:10		OK
10	CCV1	CCV1	CCV	06/22/17 15:10		OK
11	CCB1	CCB1	CCB	06/22/17 15:10		OK
12	PB100042BL	PB100042BL	MB	06/22/17 15:10		OK
13	PB100042BS	PB100042BS	LCS	06/22/17 15:10		OK
14	I3808-07	DRUM-002-COMP	SAM	06/22/17 15:10		OK
15	I3808-07DUP	DRUM-002-COMPD	DUP	06/22/17 15:11		OK
16	I3808-07MS	DRUM-002-COMPM	MS	06/22/17 15:11		OK
17	I3808-07MSD	DRUM-002-COMPM	MSD	06/22/17 15:11		OK
18	I3842-01	NC-TS-001	SAM	06/22/17 15:11		OK
19	I3842-02	NC-TS-002	SAM	06/22/17 15:18		OK
20	I3844-01	FK-PS-01-008	SAM	06/22/17 15:18		OK
21	PB100040BL	PB100040BL	MB	06/22/17 15:18		OK

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ICV Standard	W1541
CCV Standard	WP55866
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP54521
Chk Standard	WP55865,WP55836,WP55355

#	Sample Name	Reference	Method	Time	Status
22	CCV2	CCV2	CCV	06/22/17 15:18	OK
23	CCB2	CCB2	CCB	06/22/17 15:18	OK
24	PB100040BS	PB100040BS	LCS	06/22/17 15:45	OK
25	LOWPB100040	LOWPB100040	SAM	06/22/17 15:45	OK
26	HIGHPB100040	HIGHPB100040	SAM	06/22/17 15:45	OK
27	I3808-04	DRUM-001-003-004	SAM	06/22/17 15:45	OK
28	I3808-04DUP	DRUM-001-003-004	DUP	06/22/17 15:45	OK
29	I3808-04MS	DRUM-001-003-004	MS	06/22/17 15:45	OK
30	I3808-04MSD	DRUM-001-003-004	MSD	06/22/17 15:45	OK
31	CCV3	CCV3	CCV	06/22/17 15:45	OK
32	CCB3	CCB3	CCB	06/22/17 15:45	OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB88282	Date Received:	
Client Sample ID:	HIGHPB100040	SDG No.:	LB88282
Lab Sample ID:	HIGHPB100040	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		06/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/21/2017 12:00:00 AM
Project:	LB88282	Date Received:	6/21/2017 12:00:00 AM
Client Sample ID:	DRUM-001-003-004-COMP	SDG No.:	LB88282
Lab Sample ID:	I3808-04	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	0.0001	U	1	0.003		0.005	mg/L	06/22/2017	06/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/21/2017 12:00:00 AM
Project:	LB88282	Date Received:	6/21/2017 12:00:00 AM
Client Sample ID:	DRUM-002-COMP	SDG No.:	LB88282
Lab Sample ID:	I3808-07	Matrix:	Solid
Level (low/med):	low	% Solid:	73.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.017	U	1	0.044		0.33	mg/Kg	06/22/2017	06/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/20/2017 12:00:00 AM
Project:	LB88282	Date Received:	6/21/2017 12:00:00 AM
Client Sample ID:	NC-TS-001	SDG No.:	LB88282
Lab Sample ID:	I3842-01	Matrix:	Solid
Level (low/med):	low	% Solid:	79.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.019	U	1	0.04		0.3	mg/Kg	06/22/2017	06/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/20/2017 12:00:00 AM
Project:	LB88282	Date Received:	6/21/2017 12:00:00 AM
Client Sample ID:	NC-TS-002	SDG No.:	LB88282
Lab Sample ID:	I3842-02	Matrix:	Solid
Level (low/med):	low	% Solid:	78.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.035	U	1	0.04		0.3	mg/Kg	06/22/2017	06/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/21/2017 12:00:00 AM
Project:	LB88282	Date Received:	6/21/2017 12:00:00 AM
Client Sample ID:	FK-PS-01-008	SDG No.:	LB88282
Lab Sample ID:	I3844-01	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	-0.034	U	1	0.035		0.27	mg/Kg	06/22/2017	06/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB88282	Date Received:	
Client Sample ID:	LOWPB100040	SDG No.:	LB88282
Lab Sample ID:	LOWPB100040	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	0.0096		1	0.003		0.005	mg/L		06/22/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB88282	Date Received:	
Client Sample ID:	LOWPB100040	SDG No.:	LB88282
Lab Sample ID:	LOWPB100040	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



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB88282

SDG No.: LB88282

Contract: _____ Lab Code: CHEM

Case No.: LB88282

SAS No.: LB88282

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		06/22/2017	15:10	LB88282
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		06/22/2017	15:18	LB88282
CCV3	Cyanide	0.26	0.25	104	0	90 - 110		06/22/2017	15:45	LB88282



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88282

SDG No.: LB88282

Contract:

Lab Code: CHEM

Case No.: LB88282

SAS No.: LB88282

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00031	+/-0.005	U		0.005		06/22/2017	15:10	LB88282



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88282

SDG No.: LB88282

Contract:

Lab Code: CHEM

Case No.: LB88282

SAS No.: LB88282

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00036	+/-0.005	U		0.005		06/22/2017	15:10	LB88282
CCB2	Cyanide	0.00027	+/-0.005	U		0.005		06/22/2017	15:18	LB88282
CCB3	Cyanide	0.00028	+/-0.005	U		0.005		06/22/2017	15:45	LB88282



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88282

SDG No.: LB88282

Contract: Lab Code: CHEM

Case No.: LB88282

SAS No.: LB88282

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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- 3b -
PREPARATION BLANK SUMMARY

Client: LB88282

SDG No.: LB88282

Instrument: Konelab 20

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB100040BL	Cyanide	WATER		Batch Number:		PB100040		Prep Date:	06/22/2017	
		0.00013	<0.005	U		0.005		06/22/2017	15:18	LB88282
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB100042BL	Cyanide	SOLID		Batch Number:		PB100042		Prep Date:	06/22/2017	
		0.0026	<0.25	U		0.25		06/22/2017	15:10	LB88282



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- 5a -
MATRIX SPIKE SUMMARY

client: LB88282 level: low sdg no.: LB88282
contract: lab code: CHEM case no.: LB88282 sas no.: LB88282
matrix: WATER sample id: I3808-04 client id: DRUM-001-003-004-COMPMS
Percent Solids for Sample: 0 Spiked ID: I3808-04MS 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	0.029		0.003	U	0.04	72.5	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB88282 level: low sdg no.: LB88282
contract: lab code: CHEM case no.: LB88282 sas no.: LB88282
matrix: WATER sample id: I3808-04 client id: DRUM-001-003-004-COMPMSD
Percent Solids for Sample: 0 Spiked ID: I3808-04MSD 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	0.029		0.003	U	0.04	72.5	*	



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB88282 level: low sdg no.: LB88282
contract: lab code: CHEM case no.: LB88282 sas no.: LB88282
matrix: Solid sample id: I3808-07 client id: DRUM-002-COMPMS
Percent Solids for Sample: 73.1 Spiked ID: I3808-07MS Percent Solids for Spike Sample: 73.1

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.4		0.044	U	2.7	88.9		



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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB88282 level: low sdg no.: LB88282
contract: lab code: CHEM case no.: LB88282 sas no.: LB88282
matrix: Solid sample id: I3808-07 client id: DRUM-002-COMPMSD
Percent Solids for Sample: 73.1 Spiked ID: I3808-07MSD Percent Solids for Spike Sample: 73.1

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.4		0.044	U	2.7	88.9		

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DUPLICATE SAMPLE SUMMARY

Client: LB88282 **Level:** LOW **SDG No.:** LB88282
Contract: **Lab Code:** CHEM **Case No.:** LB88282 **SAS No.:** LB88282
Matrix: WATER **Sample ID:** I3808-04 **Client ID:** DRUM-001-003-004-COMPDUP
Percent Solids for Sample: 0 **Duplicate ID** I3808-04DUP **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	-0.00025	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB88282 **Level:** LOW **SDG No.:** LB88282
Contract: **Lab Code:** CHEM **Case No.:** LB88282 **SAS No.:** LB88282
Matrix: WATER **Sample ID:** I3808-04MS **Client ID:** DRUM-001-003-004-COMPMSD
Percent Solids for Sample: 0 **Duplicate ID** I3808-04MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.029		0.029		0		

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DUPLICATE SAMPLE SUMMARY

Client: LB88282 **Level:** LOW **SDG No.:** LB88282
Contract: **Lab Code:** CHEM **Case No.:** LB88282 **SAS No.:** LB88282
Matrix: Solid **Sample ID:** I3808-07 **Client ID:** DRUM-002-COMPDUP
Percent Solids for Sample: 73.1 **Duplicate ID** I3808-07DUP **Percent Solids for Spike Sample:** 73.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.044	U	-0.017	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB88282 **Level:** LOW **SDG No.:** LB88282
Contract: **Lab Code:** CHEM **Case No.:** LB88282 **SAS No.:** LB88282
Matrix: Solid **Sample ID:** I3808-07MS **Client ID:** DRUM-002-COMPMSD
Percent Solids for Sample: 73.1 **Duplicate ID** I3808-07MSD **Percent Solids for Spike Sample:** 73.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.4		2.4		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB88282

SDG No.: LB88282

Contract:

Lab Code: CHEM

Case No.: LB88282

SAS No.: LB88282

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB100040BS Cyanide	mg/L	0.1	0.096		96	85 - 115	



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB88282

SDG No.: LB88282

Contract:

Lab Code: CHEM

Case No.: LB88282

SAS No.: LB88282

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB100042BS Cyanide	mg/Kg	4.9	4.7		95.9	85 - 115	