

Daily Analysis Runlog For Sequence/QC Batch ID # LB91075

Review By		Review On				
SubDirectory		LB91075		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP59049,WP59051,WP59052,WP59053,WP59054,WP59055,WP59056				
ICV Standard		WP59059				
CCV Standard		WP59057				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP59058,WP58836,WP55355				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	10/25/17 10:24		OK
2	5.0PPBCN	5.0PPBCN	CAL2	10/25/17 10:24		OK
3	10PPBCN	10PPBCN	CAL3	10/25/17 10:24		OK
4	50PPBCN	50PPBCN	CAL4	10/25/17 10:24		OK
5	100PPBCN	100PPBCN	CAL5	10/25/17 10:24		OK
6	250PPBCN	250PPBCN	CAL6	10/25/17 10:24		OK
7	500PPBCN	500PPBCN	CAL7	10/25/17 10:24		OK
8	ICV1	ICV1	ICV	10/25/17 10:58		OK
9	ICB1	ICB1	ICB	10/25/17 10:59		OK
10	CCV1	CCV1	CCV	10/25/17 10:59		OK
11	CCB1	CCB1	CCB	10/25/17 10:59		OK
12	PB103603BL	PB103603BL	MB	10/25/17 10:59		OK
13	PB103603BS	PB103603BS	LCS	10/25/17 10:59		OK
14	LOWPB103603	LOWPB103603	SAM	10/25/17 11:06		OK
15	HIGHPB103603	HIGHPB103603	SAM	10/25/17 11:06		OK
16	I6085-01	ROLLOFF-28-20	SAM	10/25/17 11:06		OK
17	I6085-01DUP	ROLLOFF-28-20DUP	DUP	10/25/17 11:06		OK
18	I6085-01MS	ROLLOFF-28-20MS	MS	10/25/17 11:06		OK
19	I6085-01MSD	ROLLOFF-28-20MSD	MSD	10/25/17 11:06		OK
20	I6091-01	HD-01-102317	SAM	10/25/17 11:06		OK
21	I6093-01	TEC-B6-B7-COMP-0	SAM	10/25/17 11:06		OK

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SubDirectory		LB91075		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP59049,WP59051,WP59052,WP59053,WP59054,WP59055,WP59056				
ICV Standard		WP59059				
CCV Standard		WP59057				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP59058,WP58836,WP55355				
22	CCV2	CCV2	CCV	10/25/17 11:14		OK
23	CCB2	CCB2	CCB	10/25/17 11:14		OK
24	I6093-04	TEC-B6-B7-COMP-4	SAM	10/25/17 11:14		OK
25	I6093-07	TEC-B8-B9-COMP-1	SAM	10/25/17 11:14		OK
26	I6093-08	TEC-B8-B9-COMP-4	SAM	10/25/17 11:14		OK
27	PB103604BL	PB103604BL	MB	10/25/17 11:14		OK
28	PB103604BS	PB103604BS	LCS	10/25/17 11:14		OK
29	I6090-01	FADW29217L	SAM	10/25/17 11:14		OK
30	I6090-01DUP	FADW29217LDUP	DUP	10/25/17 11:14		OK
31	I6090-01MS	FADW29217LMS	MS	10/25/17 11:14		OK
32	I6090-01MSD	FADW29217LMSD	MSD	10/25/17 11:14		OK
33	CCV3	CCV3	CCV	10/25/17 11:17		OK
34	CCB3	CCB3	CCB	10/25/17 11:17		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB91075	Date Received:	
Client Sample ID:	HIGHPB103603	SDG No.:	LB91075
Lab Sample ID:	HIGHPB103603	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		10/25/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/23/2017 12:00:00 AM
Project:	LB91075	Date Received:	10/23/2017 12:00:00 AM
Client Sample ID:	ROLLOFF-28-20	SDG No.:	LB91075
Lab Sample ID:	I6085-01	Matrix:	Solid
Level (low/med):	low	% Solid:	89.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.17	J	1	0.036		0.27	mg/Kg	10/24/2017	10/25/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/23/2017 12:00:00 AM
Project:	LB91075	Date Received:	10/23/2017 12:00:00 AM
Client Sample ID:	FADW29217L	SDG No.:	LB91075
Lab Sample ID:	I6090-01	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	0.0074		1	0.003		0.005	mg/L	10/24/2017	10/25/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/23/2017 12:00:00 AM
Project:	LB91075	Date Received:	10/23/2017 12:00:00 AM
Client Sample ID:	HD-01-102317	SDG No.:	LB91075
Lab Sample ID:	I6091-01	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	0.13	J	1	0.034		0.26	mg/Kg	10/24/2017	10/25/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/23/2017 12:00:00 AM
Project:	LB91075	Date Received:	10/23/2017 12:00:00 AM
Client Sample ID:	TEC-B6-B7-COMP-0-4	SDG No.:	LB91075
Lab Sample ID:	I6093-01	Matrix:	Solid
Level (low/med):	low	% Solid:	78.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.00072	U	1	0.04		0.3	mg/Kg	10/24/2017	10/25/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/23/2017 12:00:00 AM
Project:	LB91075	Date Received:	10/23/2017 12:00:00 AM
Client Sample ID:	TEC-B6-B7-COMP-4-12	SDG No.:	LB91075
Lab Sample ID:	I6093-04	Matrix:	Solid
Level (low/med):	low	% Solid:	89.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.074	U	1	0.036		0.27	mg/Kg	10/24/2017	10/25/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/23/2017 12:00:00 AM
Project:	LB91075	Date Received:	10/23/2017 12:00:00 AM
Client Sample ID:	TEC-B8-B9-COMP-1-4	SDG No.:	LB91075
Lab Sample ID:	I6093-07	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	0.01	U	1	0.035		0.27	mg/Kg	10/24/2017	10/25/2017	9012B



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Report of Analysis

Client:		Date Collected:	10/23/2017 12:00:00 AM
Project:	LB91075	Date Received:	10/23/2017 12:00:00 AM
Client Sample ID:	TEC-B8-B9-COMP-4-12	SDG No.:	LB91075
Lab Sample ID:	I6093-08	Matrix:	Solid
Level (low/med):	low	% Solid:	90

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.023	U	1	0.036		0.27	mg/Kg	10/24/2017	10/25/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB91075	Date Received:	
Client Sample ID:	LOWPB103603	SDG No.:	LB91075
Lab Sample ID:	LOWPB103603	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	0.009		1	0.003		0.005	mg/L		10/25/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB91075	Date Received:	
Client Sample ID:	LOWPB103603	SDG No.:	LB91075
Lab Sample ID:	LOWPB103603	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: LB91075

SDG No.: LB91075

Contract: _____ Lab Code: CHEM

Case No.: LB91075

SAS No.: LB91075

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	0.097	0.099	98	0	85 - 115		10/25/2017	10:58	LB91075



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB91075

SDG No.: LB91075

Contract: _____ Lab Code: CHEM

Case No.: LB91075

SAS No.: LB91075

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	0.25	0.25	100	0	90 - 110		10/25/2017	10:59	LB91075
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		10/25/2017	11:14	LB91075
CCV3	Cyanide	0.26	0.25	104	0	90 - 110		10/25/2017	11:17	LB91075



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91075 **SDG No.:** LB91075
Contract: **Lab Code:** CHEM **Case No.:** LB91075 **SAS No.:** LB91075

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00084	+/-0.005	U		0.005		10/25/2017	10:59	LB91075

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00098	+/-0.005	U		0.005		10/25/2017	10:59	LB91075
CCB2	Cyanide	-0.00087	+/-0.005	U		0.005		10/25/2017	11:14	LB91075
CCB3	Cyanide	-0.0013	+/-0.005	U		0.005		10/25/2017	11:17	LB91075



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91075

SDG No.: LB91075

Contract: Lab Code: CHEM

Case No.: LB91075

SAS No.: LB91075

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: LB91075

SDG No.: LB91075

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
PB103603BL	Cyanide	SOLID		Batch Number:		PB103603		Prep Date:	10/24/2017	
		-0.067	<0.25	U		0.25		10/25/2017	10:59	LB91075
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB103604BL	Cyanide	WATER		Batch Number:		PB103604		Prep Date:	10/24/2017	
		-0.00095	<0.005	U		0.005		10/25/2017	11:14	LB91075



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB91075 level: low sdg no.: LB91075
contract: lab code: CHEM case no.: LB91075 sas no.: LB91075
matrix: Solid sample id: I6085-01 client id: ROLLOFF-28-20MS
Percent Solids for Sample: 89.7 Spiked ID: I6085-01MS Percent Solids for Spike Sample: 89.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	0.91		0.17	J	2.2	34	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91075 level: low sdg no.: LB91075
contract: lab code: CHEM case no.: LB91075 sas no.: LB91075
matrix: Solid sample id: I6085-01 client id: ROLLOFF-28-20MSD
Percent Solids for Sample: 89.7 Spiked ID: I6085-01MSD Percent Solids for Spike Sample: 89.7

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	0.72		0.17	J	2.2	25	*	



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB91075 level: low sdg no.: LB91075
contract: lab code: CHEM case no.: LB91075 sas no.: LB91075
matrix: WATER sample id: I6090-01 client id: FADW29217LMS
Percent Solids for Sample: 0 Spiked ID: I6090-01MS 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	0.037		0.0074		0.04	74	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91075 level: low sdg no.: LB91075
contract: lab code: CHEM case no.: LB91075 sas no.: LB91075
matrix: WATER sample id: I6090-01 client id: FADW29217LMSD
Percent Solids for Sample: 0 Spiked ID: I6090-01MSD 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	0.037		0.0074		0.04	74	*	

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91075 **Level:** LOW **SDG No.:** LB91075
Contract: **Lab Code:** CHEM **Case No.:** LB91075 **SAS No.:** LB91075
Matrix: Solid **Sample ID:** I6085-01 **Client ID:** ROLLOFF-28-20DUP
Percent Solids for Sample: 89.7 **Duplicate ID** I6085-01DUP **Percent Solids for Spike Sample:** 89.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.17	J	0.14	J	19		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91075 **Level:** LOW **SDG No.:** LB91075
Contract: **Lab Code:** CHEM **Case No.:** LB91075 **SAS No.:** LB91075
Matrix: Solid **Sample ID:** I6085-01MS **Client ID:** ROLLOFF-28-20MSD
Percent Solids for Sample: 89.7 **Duplicate ID** I6085-01MSD **Percent Solids for Spike Sample:** 89.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.91		0.72		23	*	

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91075 **Level:** LOW **SDG No.:** LB91075
Contract: **Lab Code:** CHEM **Case No.:** LB91075 **SAS No.:** LB91075
Matrix: WATER **Sample ID:** I6090-01 **Client ID:** FADW29217LDUP
Percent Solids for Sample: 0 **Duplicate ID** I6090-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.0074		0.0071		4		



GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91075 **Level:** LOW **SDG No.:** LB91075
Contract: **Lab Code:** CHEM **Case No.:** LB91075 **SAS No.:** LB91075
Matrix: WATER **Sample ID:** I6090-01MS **Client ID:** FADW29217LMSD
Percent Solids for Sample: 0 **Duplicate ID** I6090-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.037		0.037		0		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91075

SDG No.: LB91075

Contract:

Lab Code: CHEM

Case No.: LB91075

SAS No.: LB91075

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB103603BS Cyanide	mg/Kg	4.9	4.7		95.9	85 - 115	



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91075

SDG No.: LB91075

Contract:

Lab Code: CHEM

Case No.: LB91075

SAS No.: LB91075

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB103604BS Cyanide	mg/L	0.1	0.097		97	85 - 115	
