

Daily Analysis Runlog For Sequence/QC Batch ID # LB90178

Review By		Review On				
SubDirectory		LB90178		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP58073,WP58074,WP58075,WP58076,WP58077,WP58078,WP58071				
ICV Standard		WP58081				
CCV Standard		WP58079				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP58080,WP55355,WP55836				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	09/20/17 08:58		OK
2	5.0PPBCN	5.0PPBCN	CAL2	09/20/17 08:58		OK
3	10PPBCN	10PPBCN	CAL3	09/20/17 08:58		OK
4	50PPBCN	50PPBCN	CAL4	09/20/17 08:58		OK
5	100PPBCN	100PPBCN	CAL5	09/20/17 08:58		OK
6	250PPBCN	250PPBCN	CAL6	09/20/17 08:58		OK
7	500PPBCN	500PPBCN	CAL7	09/20/17 08:58		OK
8	ICV1	ICV1	ICV	09/20/17 09:38		OK
9	ICB1	ICB1	ICB	09/20/17 09:38		OK
10	CCV1	CCV1	CCV	09/20/17 09:38		OK
11	CCB1	CCB1	CCB	09/20/17 09:38		OK
12	PB102436BL	PB102436BL	MB	09/20/17 09:38		OK
13	PB102436BS	PB102436BS	LCS	09/20/17 09:38		OK
14	LOWPB102436	LOWPB102436	SAM	09/20/17 09:45		OK
15	HIGHPB102436	HIGHPB102436	SAM	09/20/17 09:45		OK
16	I5285-01MS	CSTP-1MS	MS	09/20/17 09:45		OK
17	I5285-01MSD	CSTP-1MSD	MSD	09/20/17 09:45		OK
18	I5285-02	CSTP-2	SAM	09/20/17 09:45		OK
19	I5285-03	CSTP-3	SAM	09/20/17 09:45		OK
20	CCV2	CCV2	CCV	09/20/17 09:53		OK
21	CCB2	CCB2	CCB	09/20/17 09:53		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB90178

Review By		Review On				
SubDirectory		LB90178		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP58073,WP58074,WP58075,WP58076,WP58077,WP58078,WP58071				
ICV Standard		WP58081				
CCV Standard		WP58079				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP58080,WP55355,WP55836				
22	I5285-04	CSTP-4	SAM	09/20/17 09:53		OK
23	I5285-05	CSTP-5	SAM	09/20/17 09:53		OK
24	I5288-01	DRUM-A-OILYSTON	SAM	09/20/17 09:53		OK
25	I5291-01	OILY-STONE	SAM	09/20/17 09:53		OK
26	I5292-01	BU-01-091817	SAM	09/20/17 09:53		OK
27	I5293-01	TP-2-COMP	SAM	09/20/17 09:53		OK
28	I5293-04	TP-1-COMP	SAM	09/20/17 09:53		OK
29	I5293-07	SP-A-COMP	SAM	09/20/17 09:53		OK
30	I5293-10	SP-B-R-SIDE-COMP	SAM	09/20/17 09:53		OK
31	I5293-13	SP-B-L-SIDE-COMP	SAM	09/20/17 09:58		OK
32	CCV3	CCV3	CCV	09/20/17 09:58		OK
33	CCB3	CCB3	CCB	09/20/17 09:58		OK
34	I5285-01	CSTP-1	SAM	09/20/17 10:24		OK
35	I5285-01DUP	CSTP-1DUP	DUP	09/20/17 10:24		OK
36	CCV4	CCV4	CCV	09/20/17 10:24		OK
37	CCB4	CCB4	CCB	09/20/17 10:24		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB90178	Date Received:	
Client Sample ID:	HIGHPB102436	SDG No.:	LB90178
Lab Sample ID:	HIGHPB102436	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		09/20/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/18/2017 12:00:00 AM
Project:	LB90178	Date Received:	9/18/2017 12:00:00 AM
Client Sample ID:	CSTP-1	SDG No.:	LB90178
Lab Sample ID:	I5285-01	Matrix:	Solid
Level (low/med):	low	% Solid:	88.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.55		1	0.036		0.27	mg/Kg	09/19/2017	09/20/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/18/2017 12:00:00 AM
Project:	LB90178	Date Received:	9/18/2017 12:00:00 AM
Client Sample ID:	CSTP-2	SDG No.:	LB90178
Lab Sample ID:	I5285-02	Matrix:	Solid
Level (low/med):	low	% Solid:	91.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.051	J	1	0.035		0.26	mg/Kg	09/19/2017	09/20/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/18/2017 12:00:00 AM
Project:	LB90178	Date Received:	9/18/2017 12:00:00 AM
Client Sample ID:	CSTP-3	SDG No.:	LB90178
Lab Sample ID:	I5285-03	Matrix:	Solid
Level (low/med):	low	% Solid:	87.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	1.4		1	0.036		0.27	mg/Kg	09/19/2017	09/20/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/18/2017 12:00:00 AM
Project:	LB90178	Date Received:	9/18/2017 12:00:00 AM
Client Sample ID:	CSTP-4	SDG No.:	LB90178
Lab Sample ID:	I5285-04	Matrix:	Solid
Level (low/med):	low	% Solid:	86.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	7.2		1	0.037		0.28	mg/Kg	09/19/2017	09/20/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/18/2017 12:00:00 AM
Project:	LB90178	Date Received:	9/18/2017 12:00:00 AM
Client Sample ID:	CSTP-5	SDG No.:	LB90178
Lab Sample ID:	I5285-05	Matrix:	Solid
Level (low/med):	low	% Solid:	86.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	1.5		1	0.037		0.28	mg/Kg	09/19/2017	09/20/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/18/2017 12:00:00 AM
Project:	LB90178	Date Received:	9/18/2017 12:00:00 AM
Client Sample ID:	DRUM-A-OILYSTONES	SDG No.:	LB90178
Lab Sample ID:	I5288-01	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	-0.017	U	1	0.032		0.24	mg/Kg	09/19/2017	09/20/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/18/2017 12:00:00 AM
Project:	LB90178	Date Received:	9/18/2017 12:00:00 AM
Client Sample ID:	OILY-STONE	SDG No.:	LB90178
Lab Sample ID:	I5291-01	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	0.058	J	1	0.032		0.24	mg/Kg	09/19/2017	09/20/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/18/2017 12:00:00 AM
Project:	LB90178	Date Received:	9/18/2017 12:00:00 AM
Client Sample ID:	BU-01-091817	SDG No.:	LB90178
Lab Sample ID:	I5292-01	Matrix:	Solid
Level (low/med):	low	% Solid:	95.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0093	U	1	0.033		0.25	mg/Kg	09/19/2017	09/20/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/18/2017 12:00:00 AM
Project:	LB90178	Date Received:	9/18/2017 12:00:00 AM
Client Sample ID:	TP-2-COMP	SDG No.:	LB90178
Lab Sample ID:	I5293-01	Matrix:	Solid
Level (low/med):	low	% Solid:	88

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.048	J	1	0.036		0.27	mg/Kg	09/19/2017	09/20/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/18/2017 12:00:00 AM
Project:	LB90178	Date Received:	9/18/2017 12:00:00 AM
Client Sample ID:	TP-1-COMP	SDG No.:	LB90178
Lab Sample ID:	I5293-04	Matrix:	Solid
Level (low/med):	low	% Solid:	87.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.00084	U	1	0.036		0.27	mg/Kg	09/19/2017	09/20/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/18/2017 12:00:00 AM
Project:	LB90178	Date Received:	9/18/2017 12:00:00 AM
Client Sample ID:	SP-A-COMP	SDG No.:	LB90178
Lab Sample ID:	I5293-07	Matrix:	Solid
Level (low/med):	low	% Solid:	89.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.15	J	1	0.036		0.27	mg/Kg	09/19/2017	09/20/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/18/2017 12:00:00 AM
Project:	LB90178	Date Received:	9/18/2017 12:00:00 AM
Client Sample ID:	SP-B-R-SIDE-COMP	SDG No.:	LB90178
Lab Sample ID:	I5293-10	Matrix:	Solid
Level (low/med):	low	% Solid:	91.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.078	J	1	0.035		0.26	mg/Kg	09/19/2017	09/20/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/18/2017 12:00:00 AM
Project:	LB90178	Date Received:	9/18/2017 12:00:00 AM
Client Sample ID:	SP-B-L-SIDE-COMP	SDG No.:	LB90178
Lab Sample ID:	I5293-13	Matrix:	Solid
Level (low/med):	low	% Solid:	94.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0076	U	1	0.034		0.25	mg/Kg	09/19/2017	09/20/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB90178	Date Received:	
Client Sample ID:	LOWPB102436	SDG No.:	LB90178
Lab Sample ID:	LOWPB102436	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	0.0099		1	0.003		0.005	mg/L		09/20/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB90178	Date Received:	
Client Sample ID:	LOWPB102436	SDG No.:	LB90178
Lab Sample ID:	LOWPB102436	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: LB90178

SDG No.: LB90178

Contract: _____ Lab Code: CHEM

Case No.: LB90178

SAS No.: LB90178

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	0.098	0.099	99	0	85 - 115		09/20/2017	09:38	LB90178



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB90178

SDG No.: LB90178

Contract: _____ Lab Code: CHEM

Case No.: LB90178

SAS No.: LB90178

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		09/20/2017	09:38	LB90178
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		09/20/2017	09:53	LB90178
CCV3	Cyanide	0.26	0.25	104	0	90 - 110		09/20/2017	09:58	LB90178
CCV4	Cyanide	0.25	0.25	100	0	90 - 110		09/20/2017	10:24	LB90178



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90178 **SDG No.:** LB90178
Contract: **Lab Code:** CHEM **Case No.:** LB90178 **SAS No.:** LB90178

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00015	+/-0.005	U		0.005		09/20/2017	09:38	LB90178

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00019	+/-0.005	U		0.005		09/20/2017	09:38	LB90178
CCB2	Cyanide	0.00043	+/-0.005	U		0.005		09/20/2017	09:53	LB90178
CCB3	Cyanide	-0.00031	+/-0.005	U		0.005		09/20/2017	09:58	LB90178
CCB4	Cyanide	-0.0005	+/-0.005	U		0.005		09/20/2017	10:24	LB90178



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90178

SDG No.: LB90178

Contract: Lab Code: CHEM

Case No.: LB90178

SAS No.: LB90178

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: LB90178

SDG No.: LB90178

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
PB102436BL		SOLID		Batch Number:		PB102436		Prep Date:	09/19/2017	
	Cyanide	0.023	<0.25	U		0.25		09/20/2017	09:38	LB90178



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB90178 level: low sdg no.: LB90178
contract: lab code: CHEM case no.: LB90178 sas no.: LB90178
matrix: Solid sample id: I5285-01 client id: CSTP-1MS
Percent Solids for Sample: 88.5 Spiked ID: I5285-01MS Percent Solids for Spike Sample: 88.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.5		0.55		2.2	89		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB90178 level: low sdg no.: LB90178
contract: lab code: CHEM case no.: LB90178 sas no.: LB90178
matrix: Solid sample id: I5285-01 client id: CSTP-1MSD
Percent Solids for Sample: 88.5 Spiked ID: I5285-01MSD Percent Solids for Spike Sample: 88.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.5		0.55		2.2	89		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB90178 **Level:** LOW **SDG No.:** LB90178
Contract: **Lab Code:** CHEM **Case No.:** LB90178 **SAS No.:** LB90178
Matrix: Solid **Sample ID:** I5285-01 **Client ID:** CSTP-1DUP
Percent Solids for Sample: 88.5 **Duplicate ID** I5285-01DUP **Percent Solids for Spike Sample:** 88.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.55		0.61		10		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90178 **Level:** LOW **SDG No.:** LB90178
Contract: **Lab Code:** CHEM **Case No.:** LB90178 **SAS No.:** LB90178
Matrix: Solid **Sample ID:** I5285-01MS **Client ID:** CSTP-1MSD
Percent Solids for Sample: 88.5 **Duplicate ID** I5285-01MSD **Percent Solids for Spike Sample:** 88.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.5		2.5		0		

