

Daily Analysis Runlog For Sequence/QC Batch ID # LB93582

Review By		Review On				
SubDirectory		LB93582		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP62332,WP62333,WP62334,WP62335,WP62336,WP62337,WP62338				
ICV Standard		wp62340				
CCV Standard		WP62339				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP62341,WP59958,WP60878				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	02/28/18 10:00		OK
2	5.0PPBCN	5.0PPBCN	CAL2	02/28/18 10:00		OK
3	10PPBCN	10PPBCN	CAL3	02/28/18 10:00		OK
4	50PPBCN	50PPBCN	CAL4	02/28/18 10:00		OK
5	100PPBCN	100PPBCN	CAL5	02/28/18 10:00		OK
6	250PPBCN	250PPBCN	CAL6	02/28/18 10:00		OK
7	500PPBCN	500PPBCN	CAL7	02/28/18 10:00		OK
8	ICV1	ICV1	ICV	02/28/18 13:41		OK
9	ICB1	ICB1	ICB	02/28/18 13:41		OK
10	CCV1	CCV1	CCV	02/28/18 13:41		OK
11	CCB1	CCB1	CCB	02/28/18 13:41		OK
12	PB106924BL	PB106924BL	MB	02/28/18 13:41		OK
13	J1399-10	OR-03-022718-A	SAM	02/28/18 13:41		OK
14	J1399-10DUP	OR-03-022718-ADUP	DUP	02/28/18 13:41		OK
15	J1399-12	OR-03-022718-B	SAM	02/28/18 13:41		OK
16	J1403-08	SU-03-022718	SAM	02/28/18 13:41		OK
17	J1708-04	RO-222-226	SAM	02/28/18 13:42		OK
18	J1709-03	DRUM-1-2	SAM	02/28/18 13:42		OK
19	J1710-03	RO-242	SAM	02/28/18 13:49		OK
20	J1710-06	RO-201	SAM	02/28/18 13:49		OK
21	CCV2	CCV2	CCV	02/28/18 13:49		OK

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CCV Standard		WP62339				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP62341,WP59958,WP60878				
22	CCB2	CCB2	CCB	02/28/18 13:49		OK
23	J1710-09	RO-215	SAM	02/28/18 13:49		OK
24	J1712-04	2014-TRANS-LAURE	SAM	02/28/18 13:49		OK
25	PB106925BL	PB106925BL	MB	02/28/18 13:49		OK
26	J1709-05	OILY-WATER	SAM	02/28/18 13:49		OK
27	J1709-05DUP	OILY-WATERDUP	DUP	02/28/18 13:49		OK
28	J1715-05	500kV-OILY-WATER	SAM	02/28/18 13:49		OK
29	CCV3	CCV3	CCV	02/28/18 13:49		OK
30	CCB3	CCB3	CCB	02/28/18 14:07		OK



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93582	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	OR-03-022718-A	SDG No.:	LB93582
Lab Sample ID:	J1399-10	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0011	U	1	0.025		0.05	mg/Kg	02/28/2018	02/28/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93582	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	OR-03-022718-B	SDG No.:	LB93582
Lab Sample ID:	J1399-12	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0011	U	1	0.025		0.05	mg/Kg	02/28/2018	02/28/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93582	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	SU-03-022718	SDG No.:	LB93582
Lab Sample ID:	J1403-08	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00095	U	1	0.025		0.05	mg/Kg	02/28/2018	02/28/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93582	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	RO-222-226	SDG No.:	LB93582
Lab Sample ID:	J1708-04	Matrix:	Solid
Level (low/med):	low	% Solid:	77

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00049	U	1	0.025		0.05	mg/Kg	02/28/2018	02/28/2018	9012B

Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93582	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	DRUM-1-2	SDG No.:	LB93582
Lab Sample ID:	J1709-03	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.00088	U	1	0.025		0.05	mg/Kg	02/28/2018	02/28/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93582	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	OILY-WATER	SDG No.:	LB93582
Lab Sample ID:	J1709-05	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00019	U	1	0.0025		0.005	mg/L	02/28/2018	02/28/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93582	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	RO-242	SDG No.:	LB93582
Lab Sample ID:	J1710-03	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0014	U	1	0.025		0.049	mg/Kg	02/28/2018	02/28/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93582	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	RO-201	SDG No.:	LB93582
Lab Sample ID:	J1710-06	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.00099	U	1	0.025		0.05	mg/Kg	02/28/2018	02/28/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93582	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	RO-215	SDG No.:	LB93582
Lab Sample ID:	J1710-09	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0015	U	1	0.025		0.05	mg/Kg	02/28/2018	02/28/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93582	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	2014-TRANS-LAUREL	SDG No.:	LB93582
Lab Sample ID:	J1712-04	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0017	U	1	0.025		0.05	mg/Kg	02/28/2018	02/28/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93582	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	500kV-OILY-WATER	SDG No.:	LB93582
Lab Sample ID:	J1715-05	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0	U	1	0.0025		0.005	mg/L	02/28/2018	02/28/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93582	Date Received:	2/27/2018 12:00:00 AM
Client Sample ID:	500kV-OILY-WATER	SDG No.:	LB93582
Lab Sample ID:	J1715-05	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: LB93582

SDG No.: LB93582

Contract: _____ Lab Code: CHEM

Case No.: LB93582

SAS No.: LB93582

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Reactive Cyanide	0.26	0.25	104		90 - 110		02/28/2018	13:41	LB93582
CCV2	Reactive Cyanide	0.26	0.25	104		90 - 110		02/28/2018	13:49	LB93582
CCV3	Reactive Cyanide	0.26	0.25	104		90 - 110		02/28/2018	13:49	LB93582



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93582 **SDG No.:** LB93582
Contract: **Lab Code:** CHEM **Case No.:** LB93582 **SAS No.:** LB93582

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.00022	+/-0.005	U		0.005		02/28/2018	13:41	LB93582

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.00015	+/-0.005	U		0.005		02/28/2018	13:41	LB93582
CCB2	Reactive Cyanide	0.00014	+/-0.005	U		0.005		02/28/2018	13:49	LB93582
CCB3	Reactive Cyanide	-0.00021	+/-0.005	U		0.005		02/28/2018	14:07	LB93582



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93582

SDG No.: LB93582

Contract: Lab Code: CHEM

Case No.: LB93582

SAS No.: LB93582

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: LB93582

SDG No.: LB93582

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
PB106924BL	Reactive Cyanide	SOLID		Batch Number:		PB106924		Prep Date:	02/28/2018	
		-0.0013	<0.05	U		0.05		02/28/2018	13:41	LB93582
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB106925BL	Reactive Cyanide	WATER		Batch Number:		PB106925		Prep Date:	02/28/2018	
		-0.0002	<0.005	U		0.005		02/28/2018	13:49	LB93582

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB93582 **Level:** LOW **SDG No.:** LB93582
Contract: **Lab Code:** CHEM **Case No.:** LB93582 **SAS No.:** LB93582
Matrix: Solid **Sample ID:** J1399-10 **Client ID:** OR-03-022718-ADUP
Percent Solids for Sample: 100 **Duplicate ID** J1399-10DUP **Percent Solids for Spike Sample:** 100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/Kg	20	0.025	U		0	U		



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DUPLICATE SAMPLE SUMMARY

Client: LB93582 **Level:** LOW **SDG No.:** LB93582
Contract: **Lab Code:** CHEM **Case No.:** LB93582 **SAS No.:** LB93582
Matrix: WATER **Sample ID:** J1709-05 **Client ID:** OILY-WATERDUP
Percent Solids for Sample: 0 **Duplicate ID** J1709-05DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/L	20	0.0025	U	-0	U			