

Daily Analysis Runlog For Sequence/QC Batch ID # LB92662

Review By		Review On				
SubDirectory		LB92662		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP61043,WP61044,WP61045,WP61046,WP61047,WP61048,WP61049				
ICV Standard		W1541				
CCV Standard		WP61050				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP61052,WP59958,WP60878				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	01/17/18 13:30		OK
2	5.0PPBCN	5.0PPBCN	CAL2	01/17/18 13:30		OK
3	10PPBCN	10PPBCN	CAL3	01/17/18 13:30		OK
4	50PPBCN	50PPBCN	CAL4	01/17/18 13:30		OK
5	100PPBCN	100PPBCN	CAL5	01/17/18 13:30		OK
6	250PPBCN	250PPBCN	CAL6	01/17/18 13:30		OK
7	500PPBCN	500PPBCN	CAL7	01/17/18 13:30		OK
8	ICV1	ICV1	ICV	01/17/18 14:21		OK
9	ICB1	ICB1	ICB	01/17/18 14:22		OK
10	CCV1	CCV1	CCV	01/17/18 14:22		OK
11	CCB1	CCB1	CCB	01/17/18 14:22		OK
12	PB105726BL	PB105726BL	MB	01/17/18 14:22		OK
13	PB105726BS	PB105726BS	LCS	01/17/18 14:22		OK
14	LOWPB105726	LOWPB105726	SAM	01/17/18 14:22		OK
15	HIGHPB105726	HIGHPB105726	SAM	01/17/18 14:29		OK
16	J1021-01	SA-01-011618	SAM	01/17/18 14:29		OK
17	J1021-01DUP	SA-01-011618DUP	DUP	01/17/18 14:29		OK
18	J1021-01MS	SA-01-011618MS	MS	01/17/18 14:29		OK
19	J1021-01MSD	SA-01-011618MSD	MSD	01/17/18 14:29		OK
20	J1151-01	OIL-GRAVEL	SAM	01/17/18 14:29		OK
21	J1154-01	RT-1867-3407-4235	SAM	01/17/18 14:29		OK

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CCV Standard	WP61050
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP58910
Chk Standard	WP61052,WP59958,WP60878

#	Sample ID	Description	Method	Time	Status
22	CCV2	CCV2	CCV	01/17/18 14:29	OK
23	CCB2	CCB2	CCB	01/17/18 14:29	OK
24	J1156-01	SP-COMP	SAM	01/17/18 14:29	OK
25	J1156-11	OILY-STONES	SAM	01/17/18 14:29	OK
26	J1163-01	TP-1-(0-4)	SAM	01/17/18 14:35	OK
27	J1163-07	TP-2-(0-4)	SAM	01/17/18 14:35	OK
28	J1167-01	RO-72-11995	SAM	01/17/18 14:35	OK
29	J1167-03	RO-72-12000	SAM	01/17/18 14:35	OK
30	J1167-05	DRUM-1-2	SAM	01/17/18 14:35	OK
31	CCV3	CCV3	CCV	01/17/18 14:35	OK
32	CCB3	CCB3	CCB	01/17/18 14:35	OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB92662	Date Received:	
Client Sample ID:	HIGHPB105726	SDG No.:	LB92662
Lab Sample ID:	HIGHPB105726	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	0.5		1	0.003		0.005	mg/L		01/17/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/16/2018 12:00:00 AM
Project:	LB92662	Date Received:	1/16/2018 12:00:00 AM
Client Sample ID:	SA-01-011618	SDG No.:	LB92662
Lab Sample ID:	J1021-01	Matrix:	Solid
Level (low/med):	low	% Solid:	92.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.098	J	1	0.035		0.27	mg/Kg	01/17/2018	01/17/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/16/2018 12:00:00 AM
Project:	LB92662	Date Received:	1/16/2018 12:00:00 AM
Client Sample ID:	OIL-GRAVEL	SDG No.:	LB92662
Lab Sample ID:	J1151-01	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	0.0063	U	1	0.032		0.24	mg/Kg	01/17/2018	01/17/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/16/2018 12:00:00 AM
Project:	LB92662	Date Received:	1/16/2018 12:00:00 AM
Client Sample ID:	RT-1867-3407-4235	SDG No.:	LB92662
Lab Sample ID:	J1154-01	Matrix:	Solid
Level (low/med):	low	% Solid:	88.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.044	J	1	0.036		0.27	mg/Kg	01/17/2018	01/17/2018	9012B

Report of Analysis

Client:		Date Collected:	1/16/2018 12:00:00 AM
Project:	LB92662	Date Received:	1/16/2018 12:00:00 AM
Client Sample ID:	SP-COMP	SDG No.:	LB92662
Lab Sample ID:	J1156-01	Matrix:	Solid
Level (low/med):	low	% Solid:	93.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.066	J	1	0.034		0.26	mg/Kg	01/17/2018	01/17/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/16/2018 12:00:00 AM
Project:	LB92662	Date Received:	1/16/2018 12:00:00 AM
Client Sample ID:	OILY-STONES	SDG No.:	LB92662
Lab Sample ID:	J1156-11	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	0.022	U	1	0.032		0.24	mg/Kg	01/17/2018	01/17/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/16/2018 12:00:00 AM
Project:	LB92662	Date Received:	1/16/2018 12:00:00 AM
Client Sample ID:	TP-1-(0-4)	SDG No.:	LB92662
Lab Sample ID:	J1163-01	Matrix:	Solid
Level (low/med):	low	% Solid:	85.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0027	U	1	0.038		0.29	mg/Kg	01/17/2018	01/17/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/16/2018 12:00:00 AM
Project:	LB92662	Date Received:	1/16/2018 12:00:00 AM
Client Sample ID:	TP-2-(0-4)	SDG No.:	LB92662
Lab Sample ID:	J1163-07	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	0.014	U	1	0.037		0.28	mg/Kg	01/17/2018	01/17/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/16/2018 12:00:00 AM
Project:	LB92662	Date Received:	1/16/2018 12:00:00 AM
Client Sample ID:	RO-72-11995	SDG No.:	LB92662
Lab Sample ID:	J1167-01	Matrix:	Solid
Level (low/med):	low	% Solid:	84.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.038	J	1	0.037		0.28	mg/Kg	01/17/2018	01/17/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/16/2018 12:00:00 AM
Project:	LB92662	Date Received:	1/16/2018 12:00:00 AM
Client Sample ID:	RO-72-12000	SDG No.:	LB92662
Lab Sample ID:	J1167-03	Matrix:	Solid
Level (low/med):	low	% Solid:	90.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.085	J	1	0.035		0.27	mg/Kg	01/17/2018	01/17/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/16/2018 12:00:00 AM
Project:	LB92662	Date Received:	1/16/2018 12:00:00 AM
Client Sample ID:	DRUM-1-2	SDG No.:	LB92662
Lab Sample ID:	J1167-05	Matrix:	Solid
Level (low/med):	low	% Solid:	95.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.02	U	1	0.034		0.26	mg/Kg	01/17/2018	01/17/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB92662	Date Received:	
Client Sample ID:	LOWPB105726	SDG No.:	LB92662
Lab Sample ID:	LOWPB105726	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		01/17/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB92662	Date Received:	
Client Sample ID:	LOWPB105726	SDG No.:	LB92662
Lab Sample ID:	LOWPB105726	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: LB92662

SDG No.: LB92662

Contract: _____ Lab Code: CHEM

Case No.: LB92662

SAS No.: LB92662

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		01/17/2018	14:22	LB92662
CCV2	Cyanide	0.25	0.25	100	0	90 - 110		01/17/2018	14:29	LB92662
CCV3	Cyanide	0.25	0.25	100	0	90 - 110		01/17/2018	14:35	LB92662



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92662 **SDG No.:** LB92662
Contract: **Lab Code:** CHEM **Case No.:** LB92662 **SAS No.:** LB92662

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0	+/-0.005	U		0.005		01/17/2018	14:22	LB92662

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0	+/-0.005	U		0.005		01/17/2018	14:22	LB92662
CCB2	Cyanide	0.00017	+/-0.005	U		0.005		01/17/2018	14:29	LB92662
CCB3	Cyanide	0.0001	+/-0.005	U		0.005		01/17/2018	14:35	LB92662



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92662

SDG No.: LB92662

Contract: Lab Code: CHEM

Case No.: LB92662

SAS No.: LB92662

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: LB92662

SDG No.: LB92662

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
PB105726BL		SOLID		Batch Number:		PB105726		Prep Date:	01/17/2018	
	Cyanide	-0.013	<0.25	U		0.25		01/17/2018	14:22	LB92662



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB92662 level: low sdg no.: LB92662
contract: lab code: CHEM case no.: LB92662 sas no.: LB92662
matrix: Solid sample id: J1021-01 client id: SA-01-011618MS
Percent Solids for Sample: 92.3 Spiked ID: J1021-01MS Percent Solids for Spike Sample: 92.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.8		0.098	J	2.1	81		



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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB92662 level: low sdg no.: LB92662
contract: lab code: CHEM case no.: LB92662 sas no.: LB92662
matrix: Solid sample id: J1021-01 client id: SA-01-011618MSD
Percent Solids for Sample: 92.3 Spiked ID: J1021-01MSD Percent Solids for Spike Sample: 92.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.8		0.098	J	2.1	81		

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DUPLICATE SAMPLE SUMMARY

Client: LB92662 **Level:** LOW **SDG No.:** LB92662
Contract: **Lab Code:** CHEM **Case No.:** LB92662 **SAS No.:** LB92662
Matrix: Solid **Sample ID:** J1021-01 **Client ID:** SA-01-011618DUP
Percent Solids for Sample: 92.3 **Duplicate ID** J1021-01DUP **Percent Solids for Spike Sample:** 92.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.098	J	0.11	J	12		

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DUPLICATE SAMPLE SUMMARY

Client: LB92662 **Level:** LOW **SDG No.:** LB92662
Contract: **Lab Code:** CHEM **Case No.:** LB92662 **SAS No.:** LB92662
Matrix: Solid **Sample ID:** J1021-01MS **Client ID:** SA-01-011618MSD
Percent Solids for Sample: 92.3 **Duplicate ID** J1021-01MSD **Percent Solids for Spike Sample:** 92.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.8		1.8		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92662

SDG No.: LB92662

Contract:

Lab Code: CHEM

Case No.: LB92662

SAS No.: LB92662

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB105726BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	