

Daily Analysis Runlog For Sequence/QC Batch ID # LB89693

Review By		Review On				
SubDirectory		LB89693		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP57461,WP57462,WP57463,WP57464,WP57465,WP57465,WP57466,WP57467,WP57468,WP57469,WP57470				
ICV Standard		WP57470				
CCV Standard		WP57468				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP57469,WP55355,WP55836				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	08/24/17 09:11		OK
2	5.0PPBCN	5.0PPBCN	CAL2	08/24/17 09:11		OK
3	10PPBCN	10PPBCN	CAL3	08/24/17 09:11		OK
4	50PPBCN	50PPBCN	CAL4	08/24/17 09:11		OK
5	100PPBCN	100PPBCN	CAL5	08/24/17 09:11		OK
6	250PPBCN	250PPBCN	CAL6	08/24/17 09:11		OK
7	500PPBCN	500PPBCN	CAL7	08/24/17 09:11		OK
8	ICV1	ICV1	ICV	08/24/17 13:14		OK
9	ICB1	ICB1	ICB	08/24/17 13:14		OK
10	CCV1	CCV1	CCV	08/24/17 13:14		OK
11	CCB1	CCB1	CCB	08/24/17 13:14		OK
12	PB101796BL	PB101796BL	MB	08/24/17 13:14		OK
13	PB101796BS	PB101796BS	LCS	08/24/17 13:14		OK
14	LOWPB101796	LOWPB101796	SAM	08/24/17 13:14		OK
15	HIGHPB101796	HIGHPB101796	SAM	08/24/17 13:14		OK
16	I4924-01	72-11975-COMP	SAM	08/24/17 13:14		OK
17	I4924-01DUP	72-11975-COMPDU	DUP	08/24/17 13:14		OK
18	I4924-01MS	72-11975-COMPMS	MS	08/24/17 13:14		OK
19	I4924-01MSD	72-11975-COMPMSD	MSD	08/24/17 13:22		OK
20	I4935-01	FK-PS-01-014	SAM	08/24/17 13:22		OK
21	I4938-01	IRON-LEAF-TOPSO	SAM	08/24/17 13:22		OK

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SubDirectory		LB89693		Test : Cyanide		
STD. NAME		STD REF.#				
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ICV Standard		WP57470				
CCV Standard		WP57468				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP57469,WP55355,WP55836				
22	CCV2	CCV2	CCV	08/24/17 13:22		OK
23	CCB2	CCB2	CCB	08/24/17 13:22		OK
24	I4943-01	OR-01-082317	SAM	08/24/17 13:22		OK
25	I4944-01	4-1-DRUMS-COMP	SAM	08/24/17 13:22		OK
26	I4945-09	SP-1-4-COMP	SAM	08/24/17 13:22		OK
27	I4946-01	VNJ-211	SAM	08/24/17 13:22		OK
28	I4947-01	ELIZABETH-RO-COM	SAM	08/24/17 13:22		OK
29	I4947-06	ELIZABETH-RO-COM	SAM	08/24/17 13:22		OK
30	CCV3	CCV3	CCV	08/24/17 13:25		OK
31	CCB3	CCB3	CCB	08/24/17 13:25		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB89693	Date Received:	
Client Sample ID:	HIGHPB101796	SDG No.:	LB89693
Lab Sample ID:	HIGHPB101796	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	OR	1	0.003		0.005	mg/L		08/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/22/2017 12:00:00 AM
Project:	LB89693	Date Received:	8/23/2017 12:00:00 AM
Client Sample ID:	72-11975-COMP	SDG No.:	LB89693
Lab Sample ID:	I4924-01	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	-0.029	U	1	0.033		0.25	mg/Kg	08/24/2017	08/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/23/2017 12:00:00 AM
Project:	LB89693	Date Received:	8/23/2017 12:00:00 AM
Client Sample ID:	FK-PS-01-014	SDG No.:	LB89693
Lab Sample ID:	I4935-01	Matrix:	Solid
Level (low/med):	low	% Solid:	89

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.064	U	1	0.036		0.27	mg/Kg	08/24/2017	08/24/2017	9012B

Report of Analysis

Client:		Date Collected:	8/22/2017 12:00:00 AM
Project:	LB89693	Date Received:	8/23/2017 12:00:00 AM
Client Sample ID:	IRON-LEAF-TOPSOIL	SDG No.:	LB89693
Lab Sample ID:	I4938-01	Matrix:	Solid
Level (low/med):	low	% Solid:	97.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.033	U	1	0.032		0.24	mg/Kg	08/24/2017	08/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/23/2017 12:00:00 AM
Project:	LB89693	Date Received:	8/23/2017 12:00:00 AM
Client Sample ID:	OR-01-082317	SDG No.:	LB89693
Lab Sample ID:	I4943-01	Matrix:	Solid
Level (low/med):	low	% Solid:	88.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.042	U	1	0.036		0.27	mg/Kg	08/24/2017	08/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/23/2017 12:00:00 AM
Project:	LB89693	Date Received:	8/23/2017 12:00:00 AM
Client Sample ID:	4-1-DRUMS-COMP	SDG No.:	LB89693
Lab Sample ID:	I4944-01	Matrix:	Solid
Level (low/med):	low	% Solid:	96.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.075	U	1	0.033		0.25	mg/Kg	08/24/2017	08/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/23/2017 12:00:00 AM
Project:	LB89693	Date Received:	8/23/2017 12:00:00 AM
Client Sample ID:	SP-1-4-COMP	SDG No.:	LB89693
Lab Sample ID:	I4945-09	Matrix:	Solid
Level (low/med):	low	% Solid:	92

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.066	U	1	0.035		0.26	mg/Kg	08/24/2017	08/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/23/2017 12:00:00 AM
Project:	LB89693	Date Received:	8/23/2017 12:00:00 AM
Client Sample ID:	VNJ-211	SDG No.:	LB89693
Lab Sample ID:	I4946-01	Matrix:	Solid
Level (low/med):	low	% Solid:	94.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.066	U	1	0.033		0.25	mg/Kg	08/24/2017	08/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/23/2017 12:00:00 AM
Project:	LB89693	Date Received:	8/23/2017 12:00:00 AM
Client Sample ID:	ELIZABETH-RO-COMP-A	SDG No.:	LB89693
Lab Sample ID:	I4947-01	Matrix:	Solid
Level (low/med):	low	% Solid:	36.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.18	U	1	0.088		0.66	mg/Kg	08/24/2017	08/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/23/2017 12:00:00 AM
Project:	LB89693	Date Received:	8/23/2017 12:00:00 AM
Client Sample ID:	ELIZABETH-RO-COMP-B	SDG No.:	LB89693
Lab Sample ID:	I4947-06	Matrix:	Solid
Level (low/med):	low	% Solid:	36.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.15	U	1	0.087		0.66	mg/Kg	08/24/2017	08/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB89693	Date Received:	
Client Sample ID:	LOWPB101796	SDG No.:	LB89693
Lab Sample ID:	LOWPB101796	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	0.0088		1	0.003		0.005	mg/L		08/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB89693	Date Received:	
Client Sample ID:	LOWPB101796	SDG No.:	LB89693
Lab Sample ID:	LOWPB101796	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: LB89693

SDG No.: LB89693

Contract: _____ Lab Code: CHEM

Case No.: LB89693

SAS No.: LB89693

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		08/24/2017	13:14	LB89693
CCV2	Cyanide	0.25	0.25	100	0	90 - 110		08/24/2017	13:22	LB89693
CCV3	Cyanide	0.26	0.25	104	0	90 - 110		08/24/2017	13:25	LB89693



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89693

SDG No.: LB89693

Contract:

Lab Code: CHEM

Case No.: LB89693

SAS No.: LB89693

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00062	+/-0.005	U		0.005		08/24/2017	13:14	LB89693



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89693

SDG No.: LB89693

Contract:

Lab Code: CHEM

Case No.: LB89693

SAS No.: LB89693

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.0011	+/-0.005	U		0.005		08/24/2017	13:14	LB89693
CCB2	Cyanide	-0.0008	+/-0.005	U		0.005		08/24/2017	13:22	LB89693
CCB3	Cyanide	-0.00065	+/-0.005	U		0.005		08/24/2017	13:25	LB89693



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB89693

SDG No.:

LB89693

Contract:

Lab Code:

CHEM

Case No.:

LB89693

SAS No.:

LB89693

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: LB89693 **SDG No.:** LB89693

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
PB101796BL	Cyanide	SOLID -0.032	<0.25	Batch Number: U		PB101796 0.25		Prep Date: 08/24/2017	08/24/2017 13:14	LB89693



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- 5a -
MATRIX SPIKE SUMMARY

client: LB89693 level: low sdg no.: LB89693
contract: lab code: CHEM case no.: LB89693 sas no.: LB89693
matrix: Solid sample id: I4924-01 client id: 72-11975-COMPMS
Percent Solids for Sample: 95.8 Spiked ID: I4924-01MS Percent Solids for Spike Sample: 95.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.8		0.033	U	2	90		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB89693 level: low sdg no.: LB89693
contract: lab code: CHEM case no.: LB89693 sas no.: LB89693
matrix: Solid sample id: I4924-01 client id: 72-11975-COMPMSD
Percent Solids for Sample: 95.8 Spiked ID: I4924-01MSD Percent Solids for Spike Sample: 95.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.8		0.033	U	2	90		

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DUPLICATE SAMPLE SUMMARY

Client: LB89693 **Level:** LOW **SDG No.:** LB89693
Contract: **Lab Code:** CHEM **Case No.:** LB89693 **SAS No.:** LB89693
Matrix: Solid **Sample ID:** I4924-01 **Client ID:** 72-11975-COMPDUP
Percent Solids for Sample: 95.8 **Duplicate ID** I4924-01DUP **Percent Solids for Spike Sample:** 95.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.033	U	-0.067	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB89693 **Level:** LOW **SDG No.:** LB89693
Contract: **Lab Code:** CHEM **Case No.:** LB89693 **SAS No.:** LB89693
Matrix: Solid **Sample ID:** I4924-01MS **Client ID:** 72-11975-COMPMSD
Percent Solids for Sample: 95.8 **Duplicate ID** I4924-01MSD **Percent Solids for Spike Sample:** 95.8

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: LB89693

SDG No.: LB89693

Contract:

Lab Code: CHEM

Case No.: LB89693

SAS No.: LB89693

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB101796BS Cyanide	mg/Kg	4.9	4.9		100	85 - 115	