

Daily Analysis Runlog For Sequence/QC Batch ID # LB95083

Review By		Review On				
SubDirectory		LB95083		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP64173,WP64174,WP64175,WP64176,WP64177,WP64178,WP64179				
ICV Standard		W1542				
CCV Standard		WP64180				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP64182,WP59958,WP60878				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	05/03/18 08:32		OK
2	5.0PPBCN	5.0PPBCN	CAL2	05/03/18 08:32		OK
3	10PPBCN	10PPBCN	CAL3	05/03/18 08:32		OK
4	50PPBCN	50PPBCN	CAL4	05/03/18 08:32		OK
5	100PPBCN	100PPBCN	CAL5	05/03/18 08:32		OK
6	250PPBCN	250PPBCN	CAL6	05/03/18 08:32		OK
7	500PPBCN	500PPBCN	CAL7	05/03/18 08:32		OK
8	ICV1	ICV1	ICV	05/03/18 14:58		OK
9	ICB1	ICB1	ICB	05/03/18 14:58		OK
10	CCV1	CCV1	CCV	05/03/18 14:58		OK
11	CCB1	CCB1	CCB	05/03/18 14:58		OK
12	PB108883BL	PB108883BL	MB	05/03/18 14:58		OK
13	PB108883BS	PB108883BS	LCS	05/03/18 14:58		OK
14	J2669-01	SU-03-050118-A	SAM	05/03/18 14:58		OK
15	J2669-01DUP	SU-03-050118-ADUP	DUP	05/03/18 14:58		OK
16	J2669-01MS	SU-03-050118-AMS	MS	05/03/18 14:58		OK
17	J2669-01MSD	SU-03-050118-AMSD	MSD	05/03/18 14:58		OK
18	J2669-03	SU-03-050118-B	SAM	05/03/18 14:58		OK
19	J2670-01	TR-04-050218	SAM	05/03/18 15:06		OK
20	J2679-01	EO-01-050218-A	SAM	05/03/18 15:06		OK
21	J2679-03	EO-01-050218-B	SAM	05/03/18 15:06		OK

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Review By		Review On				
SubDirectory LB95083		Test : Cyanide				
STD. NAME	STD REF.#					
ICAL Standard	WP64173,WP64174,WP64175,WP64176,WP64177,WP64178,WP64179					
ICV Standard	W1542					
CCV Standard	WP64180					
ICSA Standard	N/A					
CRI Standard	N/A					
LCS Standard	WP62802					
Chk Standard	WP64182,WP59958,WP60878					

22	CCV2	CCV2	CCV	05/03/18 15:06		OK
23	CCB2	CCB2	CCB	05/03/18 15:06		OK
24	J2679-05	EO-01-050218-C	SAM	05/03/18 15:06		OK
25	J2681-01	NB-08-050218-A	SAM	05/03/18 15:06		OK
26	J2681-03	NB-08-050218-B	SAM	05/03/18 15:06		OK
27	J2696-01	FK-PS-01.024	SAM	05/03/18 15:06		OK
28	J2709-01	WAYNE	SAM	05/03/18 15:06		OK
29	CCV3	CCV3	CCV	05/03/18 15:06		OK
30	CCB3	CCB3	CCB	05/03/18 15:08		OK



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Report of Analysis

Client:		Date Collected:	5/1/2018 12:00:00 AM
Project:	LB95083	Date Received:	5/1/2018 12:00:00 AM
Client Sample ID:	SU-03-050118-A	SDG No.:	LB95083
Lab Sample ID:	J2669-01	Matrix:	Solid
Level (low/med):	low	% Solid:	80.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0054	U	1	0.04		0.3	mg/Kg	05/03/2018	05/03/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/1/2018 12:00:00 AM
Project:	LB95083	Date Received:	5/1/2018 12:00:00 AM
Client Sample ID:	SU-03-050118-B	SDG No.:	LB95083
Lab Sample ID:	J2669-03	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	-0.011	U	1	0.036		0.27	mg/Kg	05/03/2018	05/03/2018	9012B

Report of Analysis

Client:		Date Collected:	5/2/2018 12:00:00 AM
Project:	LB95083	Date Received:	5/2/2018 12:00:00 AM
Client Sample ID:	TR-04-050218	SDG No.:	LB95083
Lab Sample ID:	J2670-01	Matrix:	Solid
Level (low/med):	low	% Solid:	87.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.044	U	1	0.036		0.28	mg/Kg	05/03/2018	05/03/2018	9012B

Report of Analysis

Client:		Date Collected:	5/2/2018 12:00:00 AM
Project:	LB95083	Date Received:	5/2/2018 12:00:00 AM
Client Sample ID:	EO-01-050218-A	SDG No.:	LB95083
Lab Sample ID:	J2679-01	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	0.034	J	1	0.033		0.25	mg/Kg	05/03/2018	05/03/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/2/2018 12:00:00 AM
Project:	LB95083	Date Received:	5/2/2018 12:00:00 AM
Client Sample ID:	EO-01-050218-B	SDG No.:	LB95083
Lab Sample ID:	J2679-03	Matrix:	Solid
Level (low/med):	low	% Solid:	95.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.13	J	1	0.033		0.25	mg/Kg	05/03/2018	05/03/2018	9012B

Report of Analysis

Client:		Date Collected:	5/2/2018 12:00:00 AM
Project:	LB95083	Date Received:	5/2/2018 12:00:00 AM
Client Sample ID:	EO-01-050218-C	SDG No.:	LB95083
Lab Sample ID:	J2679-05	Matrix:	Solid
Level (low/med):	low	% Solid:	93

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.013	U	1	0.034		0.26	mg/Kg	05/03/2018	05/03/2018	9012B

Report of Analysis

Client:		Date Collected:	5/2/2018 12:00:00 AM
Project:	LB95083	Date Received:	5/2/2018 12:00:00 AM
Client Sample ID:	NB-08-050218-A	SDG No.:	LB95083
Lab Sample ID:	J2681-01	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	0.00048	U	1	0.033		0.25	mg/Kg	05/03/2018	05/03/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/2/2018 12:00:00 AM
Project:	LB95083	Date Received:	5/2/2018 12:00:00 AM
Client Sample ID:	NB-08-050218-B	SDG No.:	LB95083
Lab Sample ID:	J2681-03	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	-0.0095	U	1	0.034		0.25	mg/Kg	05/03/2018	05/03/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/2/2018 12:00:00 AM
Project:	LB95083	Date Received:	5/2/2018 12:00:00 AM
Client Sample ID:	FK-PS-01.024	SDG No.:	LB95083
Lab Sample ID:	J2696-01	Matrix:	Solid
Level (low/med):	low	% Solid:	88.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.013	U	1	0.034		0.26	mg/Kg	05/03/2018	05/03/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/2/2018 12:00:00 AM
Project:	LB95083	Date Received:	5/2/2018 12:00:00 AM
Client Sample ID:	WAYNE	SDG No.:	LB95083
Lab Sample ID:	J2709-01	Matrix:	Solid
Level (low/med):	low	% Solid:	92.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.021	U	1	0.034		0.26	mg/Kg	05/03/2018	05/03/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/2/2018 12:00:00 AM
Project:	LB95083	Date Received:	5/2/2018 12:00:00 AM
Client Sample ID:	WAYNE	SDG No.:	LB95083
Lab Sample ID:	J2709-01	Matrix:	Solid
Level (low/med):	low	% Solid:	92.7

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: LB95083

SDG No.: LB95083

Contract: _____ Lab Code: CHEM

Case No.: LB95083

SAS No.: LB95083

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	Cyanide	0.24	0.25	96		90 - 110		05/03/2018	14:58	lb95083
CCV2	Cyanide	0.24	0.25	96		90 - 110		05/03/2018	15:06	lb95083
CCV3	Cyanide	0.24	0.25	96		90 - 110		05/03/2018	15:06	lb95083



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95083

SDG No.: LB95083

Contract:

Lab Code: CHEM

Case No.: LB95083

SAS No.: LB95083

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00041	+/-0.005	U		0.005		05/03/2018	14:58	1b95083

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00025	+/-0.005	U		0.005		05/03/2018	14:58	lb95083
CCB2	Cyanide	-0.00038	+/-0.005	U		0.005		05/03/2018	15:06	lb95083
CCB3	Cyanide	-0.00094	+/-0.005	U		0.005		05/03/2018	15:08	lb95083



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95083

SDG No.: LB95083

Contract: Lab Code: CHEM

Case No.: LB95083

SAS No.: LB95083

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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PREPARATION BLANK SUMMARY

Client: LB95083

SDG No.: LB95083

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
PB108883BL	Cyanide	SOLID -0.05	<0.24	Batch Number: U		PB108883 0.24		Prep Date: 05/03/2018	05/03/2018 14:58	lb95083



GENCHEM
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MATRIX SPIKE SUMMARY

client: LB95083 level: low sdg no.: LB95083
contract: lab code: CHEM case no.: LB95083 sas no.: LB95083
matrix: Solid sample id: J2669-01 client id: SU-03-050118-AMS
Percent Solids for Sample: 80.6 Spiked ID: J2669-01MS Percent Solids for Spike Sample: 80.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.7		0.04	U	2.4	70.8	*	

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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95083 level: low sdg no.: LB95083
contract: lab code: CHEM case no.: LB95083 sas no.: LB95083
matrix: Solid sample id: J2669-01 client id: SU-03-050118-AMSD
Percent Solids for Sample: 80.6 Spiked ID: J2669-01MSD Percent Solids for Spike Sample: 80.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.7		0.04	U	2.4	70.8	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB95083 **Level:** LOW **SDG No.:** LB95083
Contract: **Lab Code:** CHEM **Case No.:** LB95083 **SAS No.:** LB95083
Matrix: Solid **Sample ID:** J2669-01 **Client ID:** SU-03-050118-ADUP
Percent Solids for Sample: 80.6 **Duplicate ID** J2669-01DUP **Percent Solids for Spike Sample:** 80.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.04	U	0.0049	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB95083 **Level:** LOW **SDG No.:** LB95083
Contract: **Lab Code:** CHEM **Case No.:** LB95083 **SAS No.:** LB95083
Matrix: Solid **Sample ID:** J2669-01MS **Client ID:** SU-03-050118-AMSD
Percent Solids for Sample: 80.6 **Duplicate ID** J2669-01MSD **Percent Solids for Spike Sample:** 80.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.7		1.7		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB95083

SDG No.: LB95083

Contract:

Lab Code: CHEM

Case No.: LB95083

SAS No.: LB95083

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB108883BS Cyanide	mg/Kg	4.9	4.7		95.9	85 - 115	