

Daily Analysis Runlog For Sequence/QC Batch ID # LB89533

Review By		Review On				
SubDirectory		LB89533		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP57276,WP57277,WP57278,WP57278,WP57279,WP57280,WP57281,WP57282,WP57283				
ICV Standard		WP57286				
CCV Standard		WP57285				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP57284,WP55355,WP55836				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	08/16/17 08:49		OK
2	5.0PPBCN	5.0PPBCN	CAL2	08/16/17 08:49		OK
3	10PPBCN	10PPBCN	CAL3	08/16/17 08:49		OK
4	50PPBCN	50PPBCN	CAL4	08/16/17 08:49		OK
5	100PPBCN	100PPBCN	CAL5	08/16/17 08:49		OK
6	250PPBCN	250PPBCN	CAL6	08/16/17 08:49		OK
7	500PPBCN	500PPBCN	CAL7	08/16/17 08:49		OK
8	ICV1	ICV1	ICV	08/16/17 15:27		OK
9	ICB1	ICB1	ICB	08/16/17 15:27		OK
10	CCV1	CCV1	CCV	08/16/17 15:27		OK
11	CCB1	CCB1	CCB	08/16/17 15:27		OK
12	PB101589BL	PB101589BL	MB	08/16/17 15:27		OK
13	PB101589BS	PB101589BS	LCS	08/16/17 15:27		OK
14	LOWPB101589	LOWPB101589	SAM	08/16/17 15:34		OK
15	HIGHPB101589	HIGHPB101589	SAM	08/16/17 15:34		OK
16	I4799-01	AU-05-081417-A	SAM	08/16/17 15:35		OK
17	I4799-01DUP	AU-05-081417-ADUP	DUP	08/16/17 15:35		OK
18	I4799-01MS	AU-05-081417-AMS	MS	08/16/17 15:35		OK
19	I4799-01MSD	AU-05-081417-AMSD	MSD	08/16/17 15:35		OK
20	I4799-04	AU-05-081417-B	SAM	08/16/17 15:35		OK
21	I4814-01	WHITE-TWP-COMP	SAM	08/16/17 15:35		OK

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ICV Standard		WP57286				
CCV Standard		WP57285				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP57284,WP55355,WP55836				
22	CCV2	CCV2	CCV	08/16/17 15:42		OK
23	CCB2	CCB2	CCB	08/16/17 15:42		OK
24	I4815-01	TR-05-081517-A	SAM	08/16/17 15:42		OK
25	I4815-04	TR-05-081517-B	SAM	08/16/17 15:42		OK
26	I4817-01	SU-03-081517	SAM	08/16/17 15:42		OK
27	I4818-01	3-4-CLEAN-DENSEC	SAM	08/16/17 15:42		OK
28	I4819-01	1-1-2-DENSE-GRAD	SAM	08/16/17 15:42		OK
29	I4821-01	FK-GF-02-009-A	SAM	08/16/17 15:42		OK
30	I4821-03	FK-GF-02-009-B	SAM	08/16/17 15:42		OK
31	I4825-01	TP-A-B-COMP	SAM	08/16/17 15:42		OK
32	CCV3	CCV3	CCV	08/16/17 15:42		OK
33	CCB3	CCB3	CCB	08/16/17 15:45		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB89533	Date Received:	
Client Sample ID:	HIGHPB101589	SDG No.:	LB89533
Lab Sample ID:	HIGHPB101589	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		08/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/14/2017 12:00:00 AM
Project:	LB89533	Date Received:	8/15/2017 12:00:00 AM
Client Sample ID:	AU-05-081417-A	SDG No.:	LB89533
Lab Sample ID:	I4799-01	Matrix:	Solid
Level (low/med):	low	% Solid:	94.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.077	J	1	0.034		0.26	mg/Kg	08/16/2017	08/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/14/2017 12:00:00 AM
Project:	LB89533	Date Received:	8/15/2017 12:00:00 AM
Client Sample ID:	AU-05-081417-B	SDG No.:	LB89533
Lab Sample ID:	I4799-04	Matrix:	Solid
Level (low/med):	low	% Solid:	91.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.053	J	1	0.035		0.26	mg/Kg	08/16/2017	08/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/14/2017 12:00:00 AM
Project:	LB89533	Date Received:	8/15/2017 12:00:00 AM
Client Sample ID:	WHITE-TWP-COMPOST	SDG No.:	LB89533
Lab Sample ID:	I4814-01	Matrix:	Solid
Level (low/med):	low	% Solid:	58.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	1.2		1	0.054		0.41	mg/Kg	08/16/2017	08/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/15/2017 12:00:00 AM
Project:	LB89533	Date Received:	8/15/2017 12:00:00 AM
Client Sample ID:	TR-05-081517-A	SDG No.:	LB89533
Lab Sample ID:	I4815-01	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	0.14	J	1	0.036		0.27	mg/Kg	08/16/2017	08/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/15/2017 12:00:00 AM
Project:	LB89533	Date Received:	8/15/2017 12:00:00 AM
Client Sample ID:	TR-05-081517-B	SDG No.:	LB89533
Lab Sample ID:	I4815-04	Matrix:	Solid
Level (low/med):	low	% Solid:	90.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.076	J	1	0.035		0.27	mg/Kg	08/16/2017	08/16/2017	9012B

Report of Analysis

Client:		Date Collected:	8/15/2017 12:00:00 AM
Project:	LB89533	Date Received:	8/15/2017 12:00:00 AM
Client Sample ID:	SU-03-081517	SDG No.:	LB89533
Lab Sample ID:	I4817-01	Matrix:	Solid
Level (low/med):	low	% Solid:	92.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.03	U	1	0.034		0.26	mg/Kg	08/16/2017	08/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/15/2017 12:00:00 AM
Project:	LB89533	Date Received:	8/15/2017 12:00:00 AM
Client Sample ID:	3-4-CLEAN-DENSEGRADE	SDG No.:	LB89533
Lab Sample ID:	I4818-01	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	0.068	J	1	0.032		0.24	mg/Kg	08/16/2017	08/16/2017	9012B

Report of Analysis

Client:		Date Collected:	8/15/2017 12:00:00 AM
Project:	LB89533	Date Received:	8/15/2017 12:00:00 AM
Client Sample ID:	1-1-2-DENSE-GRADE	SDG No.:	LB89533
Lab Sample ID:	I4819-01	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	0.029	U	1	0.032		0.25	mg/Kg	08/16/2017	08/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/15/2017 12:00:00 AM
Project:	LB89533	Date Received:	8/15/2017 12:00:00 AM
Client Sample ID:	FK-GF-02-009-A	SDG No.:	LB89533
Lab Sample ID:	I4821-01	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	0.013	U	1	0.034		0.26	mg/Kg	08/16/2017	08/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/15/2017 12:00:00 AM
Project:	LB89533	Date Received:	8/15/2017 12:00:00 AM
Client Sample ID:	FK-GF-02-009-B	SDG No.:	LB89533
Lab Sample ID:	I4821-03	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	0.017	U	1	0.035		0.26	mg/Kg	08/16/2017	08/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/15/2017 12:00:00 AM
Project:	LB89533	Date Received:	8/15/2017 12:00:00 AM
Client Sample ID:	TP-A-B-COMP	SDG No.:	LB89533
Lab Sample ID:	I4825-01	Matrix:	Solid
Level (low/med):	low	% Solid:	89.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.035	J	1	0.035		0.27	mg/Kg	08/16/2017	08/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB89533	Date Received:	
Client Sample ID:	LOWPB101589	SDG No.:	LB89533
Lab Sample ID:	LOWPB101589	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		08/16/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB89533	Date Received:	
Client Sample ID:	LOWPB101589	SDG No.:	LB89533
Lab Sample ID:	LOWPB101589	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: LB89533

SDG No.: LB89533

Contract: _____

Lab Code: CHEM

Case No.: LB89533

SAS No.: LB89533

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		08/16/2017	15:27	LB89533



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB89533

SDG No.: LB89533

Contract: _____ Lab Code: CHEM

Case No.: LB89533

SAS No.: LB89533

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		08/16/2017	15:27	LB89533
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		08/16/2017	15:42	LB89533
CCV3	Cyanide	0.24	0.25	96	0	90 - 110		08/16/2017	15:42	LB89533



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89533 **SDG No.:** LB89533
Contract: **Lab Code:** CHEM **Case No.:** LB89533 **SAS No.:** LB89533

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00064	+/-0.005	U		0.005		08/16/2017	15:27	LB89533



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89533

SDG No.: LB89533

Contract:

Lab Code: CHEM

Case No.: LB89533

SAS No.: LB89533

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.0005	+/-0.005	U		0.005		08/16/2017	15:27	LB89533
CCB2	Cyanide	0.00079	+/-0.005	U		0.005		08/16/2017	15:42	LB89533
CCB3	Cyanide	0.00045	+/-0.005	U		0.005		08/16/2017	15:45	LB89533



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89533

SDG No.: LB89533

Contract: Lab Code: CHEM

Case No.: LB89533

SAS No.: LB89533

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: LB89533

SDG No.: LB89533

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
PB101589BL		SOLID		Batch Number:		PB101589		Prep Date:	08/16/2017	
	Cyanide	0.024	<0.24	U		0.24		08/16/2017	15:27	LB89533



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB89533 level: low sdg no.: LB89533
contract: lab code: CHEM case no.: LB89533 sas no.: LB89533
matrix: Solid sample id: I4799-01 client id: AU-05-081417-AMS
Percent Solids for Sample: 94.8 Spiked ID: I4799-01MS Percent Solids for Spike Sample: 94.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.6		0.077	J	2.1	73	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB89533 level: low sdg no.: LB89533
contract: lab code: CHEM case no.: LB89533 sas no.: LB89533
matrix: Solid sample id: I4799-01 client id: AU-05-081417-AMSD
Percent Solids for Sample: 94.8 Spiked ID: I4799-01MSD Percent Solids for Spike Sample: 94.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.6		0.077	J	2.1	73	*	

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB89533 **Level:** LOW **SDG No.:** LB89533
Contract: **Lab Code:** CHEM **Case No.:** LB89533 **SAS No.:** LB89533
Matrix: Solid **Sample ID:** I4799-01 **Client ID:** AU-05-081417-ADUP
Percent Solids for Sample: 94.8 **Duplicate ID** I4799-01DUP **Percent Solids for Spike Sample:** 94.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.077	J	0.045	J	52	*	

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB89533 **Level:** LOW **SDG No.:** LB89533
Contract: **Lab Code:** CHEM **Case No.:** LB89533 **SAS No.:** LB89533
Matrix: Solid **Sample ID:** I4799-01MS **Client ID:** AU-05-081417-AMSD
Percent Solids for Sample: 94.8 **Duplicate ID** I4799-01MSD **Percent Solids for Spike Sample:** 94.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.6		1.6		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89533

SDG No.: LB89533

Contract:

Lab Code: CHEM

Case No.: LB89533

SAS No.: LB89533

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB101589BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	