

Daily Analysis Runlog For Sequence/QC Batch ID # LB89350

Review By		Review On				
SubDirectory		LB89350		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP57061,WP57062,WP57063,WP57064,WP57065,WP57066,WP57067,WP57068				
ICV Standard		W1541				
CCV Standard		WP57070				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54521				
Chk Standard		WP57069,WP55355,WP55836				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	08/08/17 15:12		OK
2	5.0PPBCN	5.0PPBCN	CAL2	08/08/17 15:12		OK
3	10PPBCN	10PPBCN	CAL3	08/08/17 15:12		OK
4	50PPBCN	50PPBCN	CAL4	08/08/17 15:12		OK
5	100PPBCN	100PPBCN	CAL5	08/08/17 15:12		OK
6	250PPBCN	250PPBCN	CAL6	08/08/17 15:12		OK
7	500PPBCN	500PPBCN	CAL7	08/08/17 15:12		OK
8	ICV1	ICV1	ICV	08/08/17 17:04		OK
9	ICB1	ICB1	ICB	08/08/17 17:04		OK
10	CCV1	CCV1	CCV	08/08/17 17:05		OK
11	CCB1	CCB1	CCB	08/08/17 17:05		OK
12	PB101346BL	PB101346BL	MB	08/08/17 17:05		OK
13	PB101346BS	PB101346BS	LCS	08/08/17 17:05		OK
14	LOWPB101346	LOWPB101346	SAM	08/08/17 17:12		OK
15	HIGHPB101346	HIGHPB101346	SAM	08/08/17 17:12		OK
16	I4649-02	B-13(0-10)COMP	SAM	08/08/17 17:12		OK
17	I4649-02DUP	B-13(0-10)COMPDU	DUP	08/08/17 17:12		OK
18	I4649-04	B-14(0-10)COMP	SAM	08/08/17 17:12		OK
19	I4650-01	SP-001-A-COMP	SAM	08/08/17 17:12		OK
20	CCV2	CCV2	CCV	08/08/17 17:12		OK
21	CCB2	CCB2	CCB	08/08/17 17:20		OK

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SubDirectory		LB89350		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP57061,WP57062,WP57063,WP57064,WP57065,WP57066,WP57067,WP57068				
ICV Standard		W1541				
CCV Standard		WP57070				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54521				
Chk Standard		WP57069,WP55355,WP55836				
22	I4652-02	L-1338-A-COMP	SAM	08/08/17 17:20		OK
23	I4652-07	L-1338-B-COMP	SAM	08/08/17 17:20		OK
24	I4655-01	TP7-WC1	SAM	08/08/17 17:20		OK
25	I4655-02	TP8N-WC1	SAM	08/08/17 17:20		OK
26	I4657-01	CL-01-080717-A	SAM	08/08/17 17:20		OK
27	I4657-04	CL-01-080717-B	SAM	08/08/17 17:20		OK
28	I4657-07	CL-01-080717-C	SAM	08/08/17 17:20		OK
29	I4657-10	CL-01-080717-D	SAM	08/08/17 17:20		OK
30	I4657-13	CL-01-080717-E	SAM	08/08/17 17:25		OK
31	CCV3	CCV3	CCV	08/08/17 17:25		OK
32	CCB3	CCB3	CCB	08/08/17 17:25		OK
33	I4649-02MS	B-13(0-10)COMPMS	MS	08/08/17 17:28		OK
34	I4649-02MSD	B-13(0-10)COMPMS	MSD	08/08/17 17:30		OK
35	I4655-03	TP7DEL-WC1	SAM	08/08/17 18:04		OK
36	CCV4	CCV4	CCV	08/08/17 18:05		OK
37	CCB4	CCB4	CCB	08/08/17 18:05		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB89350	Date Received:	
Client Sample ID:	HIGHPB101346	SDG No.:	LB89350
Lab Sample ID:	HIGHPB101346	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	0.49		1	0.003		0.005	mg/L		08/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/7/2017 12:00:00 AM
Project:	LB89350	Date Received:	8/7/2017 12:00:00 AM
Client Sample ID:	B-13(0-10)COMP	SDG No.:	LB89350
Lab Sample ID:	I4649-02	Matrix:	Solid
Level (low/med):	low	% Solid:	82.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.87		1	0.039		0.29	mg/Kg	08/08/2017	08/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/7/2017 12:00:00 AM
Project:	LB89350	Date Received:	8/7/2017 12:00:00 AM
Client Sample ID:	B-14(0-10)COMP	SDG No.:	LB89350
Lab Sample ID:	I4649-04	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	0.13	J	1	0.036		0.27	mg/Kg	08/08/2017	08/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/7/2017 12:00:00 AM
Project:	LB89350	Date Received:	8/7/2017 12:00:00 AM
Client Sample ID:	SP-001-A-COMP	SDG No.:	LB89350
Lab Sample ID:	I4650-01	Matrix:	Solid
Level (low/med):	low	% Solid:	90.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.047	J	1	0.035		0.26	mg/Kg	08/08/2017	08/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/7/2017 12:00:00 AM
Project:	LB89350	Date Received:	8/7/2017 12:00:00 AM
Client Sample ID:	L-1338-A-COMP	SDG No.:	LB89350
Lab Sample ID:	I4652-02	Matrix:	Solid
Level (low/med):	low	% Solid:	89.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	3.1		1	0.035		0.27	mg/Kg	08/08/2017	08/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/7/2017 12:00:00 AM
Project:	LB89350	Date Received:	8/7/2017 12:00:00 AM
Client Sample ID:	L-1338-B-COMP	SDG No.:	LB89350
Lab Sample ID:	I4652-07	Matrix:	Solid
Level (low/med):	low	% Solid:	87.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	2.2		1	0.036		0.27	mg/Kg	08/08/2017	08/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/7/2017 12:00:00 AM
Project:	LB89350	Date Received:	8/7/2017 12:00:00 AM
Client Sample ID:	TP7-WC1	SDG No.:	LB89350
Lab Sample ID:	I4655-01	Matrix:	Solid
Level (low/med):	low	% Solid:	85.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.36		1	0.037		0.28	mg/Kg	08/08/2017	08/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/7/2017 12:00:00 AM
Project:	LB89350	Date Received:	8/7/2017 12:00:00 AM
Client Sample ID:	TP8N-WC1	SDG No.:	LB89350
Lab Sample ID:	I4655-02	Matrix:	Solid
Level (low/med):	low	% Solid:	74

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.65		1	0.043		0.32	mg/Kg	08/08/2017	08/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/7/2017 12:00:00 AM
Project:	LB89350	Date Received:	8/7/2017 12:00:00 AM
Client Sample ID:	TP7DEL-WC1	SDG No.:	LB89350
Lab Sample ID:	I4655-03	Matrix:	Solid
Level (low/med):	low	% Solid:	80.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	1.6		1	0.04		0.31	mg/Kg	08/08/2017	08/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/7/2017 12:00:00 AM
Project:	LB89350	Date Received:	8/7/2017 12:00:00 AM
Client Sample ID:	CL-01-080717-A	SDG No.:	LB89350
Lab Sample ID:	I4657-01	Matrix:	Solid
Level (low/med):	low	% Solid:	86.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.048	J	1	0.037		0.28	mg/Kg	08/08/2017	08/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/7/2017 12:00:00 AM
Project:	LB89350	Date Received:	8/7/2017 12:00:00 AM
Client Sample ID:	CL-01-080717-B	SDG No.:	LB89350
Lab Sample ID:	I4657-04	Matrix:	Solid
Level (low/med):	low	% Solid:	88.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.028	U	1	0.036		0.27	mg/Kg	08/08/2017	08/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/7/2017 12:00:00 AM
Project:	LB89350	Date Received:	8/7/2017 12:00:00 AM
Client Sample ID:	CL-01-080717-C	SDG No.:	LB89350
Lab Sample ID:	I4657-07	Matrix:	Solid
Level (low/med):	low	% Solid:	87.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0052	U	1	0.037		0.28	mg/Kg	08/08/2017	08/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/7/2017 12:00:00 AM
Project:	LB89350	Date Received:	8/7/2017 12:00:00 AM
Client Sample ID:	CL-01-080717-D	SDG No.:	LB89350
Lab Sample ID:	I4657-10	Matrix:	Solid
Level (low/med):	low	% Solid:	87.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0027	U	1	0.036		0.27	mg/Kg	08/08/2017	08/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/7/2017 12:00:00 AM
Project:	LB89350	Date Received:	8/7/2017 12:00:00 AM
Client Sample ID:	CL-01-080717-E	SDG No.:	LB89350
Lab Sample ID:	I4657-13	Matrix:	Solid
Level (low/med):	low	% Solid:	86.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.022	U	1	0.037		0.28	mg/Kg	08/08/2017	08/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB89350	Date Received:	
Client Sample ID:	LOWPB101346	SDG No.:	LB89350
Lab Sample ID:	LOWPB101346	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		08/08/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB89350	Date Received:	
Client Sample ID:	LOWPB101346	SDG No.:	LB89350
Lab Sample ID:	LOWPB101346	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: LB89350

SDG No.: LB89350

Contract: _____ Lab Code: CHEM

Case No.: LB89350

SAS No.: LB89350

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		08/08/2017	17:05	LB89350
CCV2	Cyanide	0.25	0.25	100	0	90 - 110		08/08/2017	17:12	LB89350
CCV3	Cyanide	0.25	0.25	100	0	90 - 110		08/08/2017	17:25	LB89350
CCV4	Cyanide	0.27	0.25	108	0	90 - 110		08/08/2017	18:05	LB89350



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89350

SDG No.: LB89350

Contract:

Lab Code: CHEM

Case No.: LB89350

SAS No.: LB89350

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00054	+/-0.005	U		0.005		08/08/2017	17:04	LB89350



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89350

SDG No.: LB89350

Contract:

Lab Code: CHEM

Case No.: LB89350

SAS No.: LB89350

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00037	+/-0.005	U		0.005		08/08/2017	17:05	LB89350
CCB2	Cyanide	0.0001	+/-0.005	U		0.005		08/08/2017	17:20	LB89350
CCB3	Cyanide	0.00035	+/-0.005	U		0.005		08/08/2017	17:25	LB89350
CCB4	Cyanide	0.00034	+/-0.005	U		0.005		08/08/2017	18:05	LB89350



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89350

SDG No.: LB89350

Contract: Lab Code: CHEM

Case No.: LB89350

SAS No.: LB89350

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: LB89350

SDG No.: LB89350

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
PB101346BL		SOLID		Batch Number:		PB101346		Prep Date:	08/08/2017	
	Cyanide	0.01	<0.25	U		0.25		08/08/2017	17:05	LB89350



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB89350 level: low sdg no.: LB89350
contract: lab code: CHEM case no.: LB89350 sas no.: LB89350
matrix: Solid sample id: I4649-02 client id: B-13(0-10)COMPMS
Percent Solids for Sample: 82.7 Spiked ID: I4649-02MS Percent Solids for Spike Sample: 82.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	3.9		0.87		2.4	126	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB89350 level: low sdg no.: LB89350
contract: lab code: CHEM case no.: LB89350 sas no.: LB89350
matrix: Solid sample id: I4649-02 client id: B-13(0-10)COMPMSD
Percent Solids for Sample: 82.7 Spiked ID: I4649-02MSD Percent Solids for Spike Sample: 82.7

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	3.7		0.87		2.3	123		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB89350 **Level:** LOW **SDG No.:** LB89350
Contract: **Lab Code:** CHEM **Case No.:** LB89350 **SAS No.:** LB89350
Matrix: Solid **Sample ID:** I4649-02 **Client ID:** B-13(0-10)COMPDUP
Percent Solids for Sample: 82.7 **Duplicate ID** I4649-02DUP **Percent Solids for Spike Sample:** 82.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.87		0.87		0		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB89350 Level: LOW SDG No.: LB89350
Contract: _____ Lab Code: CHEM Case No.: LB89350 SAS No.: LB89350
Matrix: Solid Sample ID: I4649-02MS Client ID: B-13(0-10)COMPMSD
Percent Solids for Sample: 82.7 Duplicate ID I4649-02MSD Percent Solids for Spike Sample: 82.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	3.9		3.7		5		



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89350

SDG No.: LB89350

Contract:

Lab Code: CHEM

Case No.: LB89350

SAS No.: LB89350

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB101346BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	