

Daily Analysis Runlog For Sequence/QC Batch ID # LB93345

Review By		Review On				
SubDirectory		LB93345		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP62021,WP62022,WP62023,WP62024,WP62025,WP62026,WP62027				
ICV Standard		W1542				
CCV Standard		WP62028				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP62030,WP59958,WP60878				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	02/16/18 12:53		OK
2	5.0PPBCN	5.0PPBCN	CAL2	02/16/18 12:53		OK
3	10PPBCN	10PPBCN	CAL3	02/16/18 12:53		OK
4	50PPBCN	50PPBCN	CAL4	02/16/18 12:53		OK
5	100PPBCN	100PPBCN	CAL5	02/16/18 12:53		OK
6	250PPBCN	250PPBCN	CAL6	02/16/18 12:53		OK
7	500PPBCN	500PPBCN	CAL7	02/16/18 12:53		OK
8	ICV1	ICV1	ICV	02/16/18 14:57		OK
9	ICB1	ICB1	ICB	02/16/18 14:57		OK
10	CCV1	CCV1	CCV	02/16/18 14:57		OK
11	CCB1	CCB1	CCB	02/16/18 14:57		OK
12	PB106608BL	PB106608BL	MB	02/16/18 14:57		OK
13	PB106608BS	PB106608BS	LCS	02/16/18 14:57		OK
14	LOWPB106608	LOWPB106608	SAM	02/16/18 14:57		OK
15	HIGHPB106608	HIGHPB106608	SAM	02/16/18 14:57		OK
16	J1399-05	OR-02-021518-A	SAM	02/16/18 14:57		OK
17	J1399-05DUP	OR-02-021518-ADUP	DUP	02/16/18 14:57		OK
18	J1399-05MS	OR-02-021518-AMS	MS	02/16/18 14:57		OK
19	J1399-05MSD	OR-02-021518-AMSD	MSD	02/16/18 15:04		OK
20	J1399-07	OR-02-021518-B	SAM	02/16/18 15:04		OK
21	J1401-01	SA-06-021518-A	SAM	02/16/18 15:04		OK

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ICAL Standard		WP62021,WP62022,WP62023,WP62024,WP62025,WP62026,WP62027				
ICV Standard		W1542				
CCV Standard		WP62028				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP62030,WP59958,WP60878				
22	CCV2	CCV2	CCV	02/16/18 15:04		OK
23	CCB2	CCB2	CCB	02/16/18 15:04		OK
24	J1401-03	SA-06-021518-B	SAM	02/16/18 15:04		OK
25	J1402-01	PL-01-021418-A	SAM	02/16/18 15:04		OK
26	J1402-03	PL-01-021418-B	SAM	02/16/18 15:04		OK
27	J1402-05	PL-01-021418-C	SAM	02/16/18 15:04		OK
28	J1575-01	SAMPLE-A	SAM	02/16/18 15:04		OK
29	J1575-07	SAMPLE-B	SAM	02/16/18 15:05		OK
30	PB106627BL	PB106627BL	MB	02/16/18 15:12		OK
31	PB106627BS	PB106627BS	LCS	02/16/18 15:12		OK
32	J1584-01	FK-GF-02-012-A	SAM	02/16/18 15:12		OK
33	J1584-01DUP	FK-GF-02-012-ADUP	DUP	02/16/18 15:12		OK
34	CCV3	CCV3	CCV	02/16/18 15:12		OK
35	CCB3	CCB3	CCB	02/16/18 15:12		OK
36	J1584-01MS	FK-GF-02-012-AMS	MS	02/16/18 15:12		OK
37	J1584-01MSD	FK-GF-02-012-AMSD	MSD	02/16/18 15:12		OK
38	J1584-03	FK-GF-02-012-B	SAM	02/16/18 15:12		OK
39	PB106626BL	PB106626BL	MB	02/16/18 15:12		OK
40	PB106626BS	PB106626BS	LCS	02/16/18 15:12		OK
41	CCV4	CCV4	CCV	02/16/18 15:20		OK
42	CCB4	CCB4	CCB	02/16/18 15:20		OK
43	J1577-02	COMPOSITE-B-TOT	SAM	02/16/18 15:20		OK

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ICV Standard		W1542				
CCV Standard		WP62028				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP62030,WP59958,WP60878				
44	J1577-03	COMPOSITE-A-DISS	SAM	02/16/18 15:20		OK
45	J1577-04	COMPOSITE-B-DISS	SAM	02/16/18 15:20		OK
46	J1576-01	MH-6	SAM	02/16/18 15:43		OK
47	J1576-01DUP	MH-6DUP	DUP	02/16/18 15:43		OK
48	J1576-01MS	MH-6MS	MS	02/16/18 15:43		OK
49	J1576-01MSD	MH-6MSD	MSD	02/16/18 15:43		OK
50	J1577-01	COMPOSITE-A-TOT	SAM	02/16/18 15:43		OK
51	CCV5	CCV5	CCV	02/16/18 15:43		OK
52	CCB5	CCB5	CCB	02/16/18 15:43		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB93345	Date Received:	
Client Sample ID:	HIGHPB106608	SDG No.:	LB93345
Lab Sample ID:	HIGHPB106608	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		02/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/15/2018 12:00:00 AM
Project:	LB93345	Date Received:	2/15/2018 12:00:00 AM
Client Sample ID:	OR-02-021518-A	SDG No.:	LB93345
Lab Sample ID:	J1399-05	Matrix:	Solid
Level (low/med):	low	% Solid:	86.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.12	J	1	0.037		0.28	mg/Kg	02/16/2018	02/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/15/2018 12:00:00 AM
Project:	LB93345	Date Received:	2/15/2018 12:00:00 AM
Client Sample ID:	OR-02-021518-B	SDG No.:	LB93345
Lab Sample ID:	J1399-07	Matrix:	Solid
Level (low/med):	low	% Solid:	90.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0038	U	1	0.036		0.28	mg/Kg	02/16/2018	02/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/15/2018 12:00:00 AM
Project:	LB93345	Date Received:	2/15/2018 12:00:00 AM
Client Sample ID:	SA-06-021518-A	SDG No.:	LB93345
Lab Sample ID:	J1401-01	Matrix:	Solid
Level (low/med):	low	% Solid:	86.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.051	J	1	0.038		0.29	mg/Kg	02/16/2018	02/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/15/2018 12:00:00 AM
Project:	LB93345	Date Received:	2/15/2018 12:00:00 AM
Client Sample ID:	SA-06-021518-B	SDG No.:	LB93345
Lab Sample ID:	J1401-03	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	0.021	U	1	0.035		0.26	mg/Kg	02/16/2018	02/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/14/2018 12:00:00 AM
Project:	LB93345	Date Received:	2/14/2018 12:00:00 AM
Client Sample ID:	PL-01-021418-A	SDG No.:	LB93345
Lab Sample ID:	J1402-01	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	-0.0061	U	1	0.037		0.28	mg/Kg	02/16/2018	02/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/14/2018 12:00:00 AM
Project:	LB93345	Date Received:	2/14/2018 12:00:00 AM
Client Sample ID:	PL-01-021418-B	SDG No.:	LB93345
Lab Sample ID:	J1402-03	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	0.096	J	1	0.037		0.28	mg/Kg	02/16/2018	02/16/2018	9012B

Report of Analysis

Client:		Date Collected:	2/14/2018 12:00:00 AM
Project:	LB93345	Date Received:	2/14/2018 12:00:00 AM
Client Sample ID:	PL-01-021418-C	SDG No.:	LB93345
Lab Sample ID:	J1402-05	Matrix:	Solid
Level (low/med):	low	% Solid:	81.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.054	J	1	0.04		0.3	mg/Kg	02/16/2018	02/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/15/2018 12:00:00 AM
Project:	LB93345	Date Received:	2/15/2018 12:00:00 AM
Client Sample ID:	SAMPLE-A	SDG No.:	LB93345
Lab Sample ID:	J1575-01	Matrix:	Solid
Level (low/med):	low	% Solid:	89.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.08	J	1	0.037		0.28	mg/Kg	02/16/2018	02/16/2018	9012B

Report of Analysis

Client:		Date Collected:	2/15/2018 12:00:00 AM
Project:	LB93345	Date Received:	2/15/2018 12:00:00 AM
Client Sample ID:	SAMPLE-B	SDG No.:	LB93345
Lab Sample ID:	J1575-07	Matrix:	Solid
Level (low/med):	low	% Solid:	86.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0044	U	1	0.036		0.28	mg/Kg	02/16/2018	02/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/14/2018 12:00:00 AM
Project:	LB93345	Date Received:	2/15/2018 12:00:00 AM
Client Sample ID:	MH-6	SDG No.:	LB93345
Lab Sample ID:	J1576-01	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	0.0034	J	1	0.003		0.005	mg/L	02/16/2018	02/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/14/2018 12:00:00 AM
Project:	LB93345	Date Received:	2/15/2018 12:00:00 AM
Client Sample ID:	COMPOSITE-A-TOTAL	SDG No.:	LB93345
Lab Sample ID:	J1577-01	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	0.00044	U	1	0.003		0.005	mg/L	02/16/2018	02/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/14/2018 12:00:00 AM
Project:	LB93345	Date Received:	2/15/2018 12:00:00 AM
Client Sample ID:	COMPOSITE-B-TOTAL	SDG No.:	LB93345
Lab Sample ID:	J1577-02	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	0.00072	U	1	0.003		0.005	mg/L	02/16/2018	02/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/14/2018 12:00:00 AM
Project:	LB93345	Date Received:	2/15/2018 12:00:00 AM
Client Sample ID:	COMPOSITE-A-DISSOLVED	SDG No.:	LB93345
Lab Sample ID:	J1577-03	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	U	1	0.003		0.005	mg/L	02/16/2018	02/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/14/2018 12:00:00 AM
Project:	LB93345	Date Received:	2/15/2018 12:00:00 AM
Client Sample ID:	COMPOSITE-B-DISSOLVED	SDG No.:	LB93345
Lab Sample ID:	J1577-04	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	0.0003	U	1	0.003		0.005	mg/L	02/16/2018	02/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/15/2018 12:00:00 AM
Project:	LB93345	Date Received:	2/15/2018 12:00:00 AM
Client Sample ID:	FK-GF-02-012-A	SDG No.:	LB93345
Lab Sample ID:	J1584-01	Matrix:	Solid
Level (low/med):	low	% Solid:	93.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.016	U	1	0.035		0.26	mg/Kg	02/16/2018	02/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/15/2018 12:00:00 AM
Project:	LB93345	Date Received:	2/15/2018 12:00:00 AM
Client Sample ID:	FK-GF-02-012-B	SDG No.:	LB93345
Lab Sample ID:	J1584-03	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	0.069	J	1	0.036		0.27	mg/Kg	02/16/2018	02/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB93345	Date Received:	
Client Sample ID:	LOWPB106608	SDG No.:	LB93345
Lab Sample ID:	LOWPB106608	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	0.0094		1	0.003		0.005	mg/L		02/16/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB93345	Date Received:	
Client Sample ID:	LOWPB106608	SDG No.:	LB93345
Lab Sample ID:	LOWPB106608	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: LB93345

SDG No.: LB93345

Contract: _____

Lab Code: CHEM

Case No.: LB93345

SAS No.: LB93345

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
ICV1	Cyanide	0.097	0.099	98		85 - 115		02/16/2018	14:57	LB93345



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93345

SDG No.: LB93345

Contract: _____ Lab Code: CHEM

Case No.: LB93345

SAS No.: LB93345

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	0.25	0.25	100		90 - 110		02/16/2018	14:57	LB93345
CCV2	Cyanide	0.24	0.25	96		90 - 110		02/16/2018	15:04	LB93345
CCV3	Cyanide	0.24	0.25	96		90 - 110		02/16/2018	15:12	LB93345
CCV4	Cyanide	0.24	0.25	96		90 - 110		02/16/2018	15:20	LB93345
CCV5	Cyanide	0.25	0.25	100		90 - 110		02/16/2018	15:43	LB93345



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93345

SDG No.: LB93345

Contract:

Lab Code: CHEM

Case No.: LB93345

SAS No.: LB93345

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		02/16/2018	14:57	LB93345



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93345

SDG No.: LB93345

Contract:

Lab Code: CHEM

Case No.: LB93345

SAS No.: LB93345

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		02/16/2018	14:57	LB93345
CCB2	Cyanide	0.0001	+/-0.005	U		0.005		02/16/2018	15:04	LB93345
CCB3	Cyanide	-0	+/-0.005	U		0.005		02/16/2018	15:12	LB93345
CCB4	Cyanide	-0	+/-0.005	U		0.005		02/16/2018	15:20	LB93345
CCB5	Cyanide	-0.00039	+/-0.005	U		0.005		02/16/2018	15:43	LB93345



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB93345

SDG No.:

LB93345

Contract:

Lab Code:

CHEM

Case No.:

LB93345

SAS No.:

LB93345

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: LB93345

SDG No.: LB93345

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
PB106608BL	Cyanide	SOLID		Batch Number:		PB106608		Prep Date:	02/16/2018	
		0.00015	<0.24	U		0.24		02/16/2018	14:57	LB93345
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB106626BL	Cyanide	WATER		Batch Number:		PB106626		Prep Date:	02/16/2018	
		-0.00045	<0.005	U		0.005		02/16/2018	15:12	LB93345
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB106627BL	Cyanide	SOLID		Batch Number:		PB106627		Prep Date:	02/16/2018	
		-0.018	<0.24	U		0.24		02/16/2018	15:12	LB93345



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB93345 level: low sdg no.: LB93345
contract: lab code: CHEM case no.: LB93345 sas no.: LB93345
matrix: Solid sample id: J1399-05 client id: OR-02-021518-AMS
Percent Solids for Sample: 86.5 Spiked ID: J1399-05MS Percent Solids for Spike Sample: 86.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.7		0.12	J	2.2	72	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93345 level: low sdg no.: LB93345
contract: lab code: CHEM case no.: LB93345 sas no.: LB93345
matrix: Solid sample id: J1399-05 client id: OR-02-021518-AMSD
Percent Solids for Sample: 86.5 Spiked ID: J1399-05MSD Percent Solids for Spike Sample: 86.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.7		0.12	J	2.3	69	*	



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB93345 level: low sdg no.: LB93345
contract: lab code: CHEM case no.: LB93345 sas no.: LB93345
matrix: WATER sample id: J1576-01 client id: MH-6MS
Percent Solids for Sample: 0 Spiked ID: J1576-01MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.03		0.0034	J	0.04	67	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93345 level: low sdg no.: LB93345
contract: lab code: CHEM case no.: LB93345 sas no.: LB93345
matrix: WATER sample id: J1576-01 client id: MH-6MSD
Percent Solids for Sample: 0 Spiked ID: J1576-01MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.03		0.0034	J	0.04	67	*	



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB93345 level: low sdg no.: LB93345
contract: lab code: CHEM case no.: LB93345 sas no.: LB93345
matrix: Solid sample id: J1584-01 client id: FK-GF-02-012-AMS
Percent Solids for Sample: 93.6 Spiked ID: J1584-01MS Percent Solids for Spike Sample: 93.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.5		0.035	U	2.1	71.4	*	

GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93345 level: low sdg no.: LB93345
contract: lab code: CHEM case no.: LB93345 sas no.: LB93345
matrix: Solid sample id: J1584-01 client id: FK-GF-02-012-AMSD
Percent Solids for Sample: 93.6 Spiked ID: J1584-01MSD Percent Solids for Spike Sample: 93.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.5		0.035	U	2.1	71.4	*	

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB93345 **Level:** LOW **SDG No.:** LB93345
Contract: **Lab Code:** CHEM **Case No.:** LB93345 **SAS No.:** LB93345
Matrix: Solid **Sample ID:** J1399-05 **Client ID:** OR-02-021518-ADUP
Percent Solids for Sample: 86.5 **Duplicate ID** J1399-05DUP **Percent Solids for Spike Sample:** 86.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.12	J	0.085	J	34	*	

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB93345 **Level:** LOW **SDG No.:** LB93345
Contract: **Lab Code:** CHEM **Case No.:** LB93345 **SAS No.:** LB93345
Matrix: Solid **Sample ID:** J1399-05MS **Client ID:** OR-02-021518-AMSD
Percent Solids for Sample: 86.5 **Duplicate ID** J1399-05MSD **Percent Solids for Spike Sample:** 86.5

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

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB93345 **Level:** LOW **SDG No.:** LB93345
Contract: **Lab Code:** CHEM **Case No.:** LB93345 **SAS No.:** LB93345
Matrix: WATER **Sample ID:** J1576-01 **Client ID:** MH-6DUP
Percent Solids for Sample: 0 **Duplicate ID** J1576-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.0034	J	0.0034	J	0		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB93345 **Level:** LOW **SDG No.:** LB93345
Contract: **Lab Code:** CHEM **Case No.:** LB93345 **SAS No.:** LB93345
Matrix: WATER **Sample ID:** J1576-01MS **Client ID:** MH-6MSD
Percent Solids for Sample: 0 **Duplicate ID** J1576-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.03		0.03		0		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB93345 **Level:** LOW **SDG No.:** LB93345
Contract: **Lab Code:** CHEM **Case No.:** LB93345 **SAS No.:** LB93345
Matrix: Solid **Sample ID:** J1584-01 **Client ID:** FK-GF-02-012-ADUP
Percent Solids for Sample: 93.6 **Duplicate ID** J1584-01DUP **Percent Solids for Spike Sample:** 93.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.035	U	0.023	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB93345 **Level:** LOW **SDG No.:** LB93345
Contract: **Lab Code:** CHEM **Case No.:** LB93345 **SAS No.:** LB93345
Matrix: Solid **Sample ID:** J1584-01MS **Client ID:** FK-GF-02-012-AMSD
Percent Solids for Sample: 93.6 **Duplicate ID** J1584-01MSD **Percent Solids for Spike Sample:** 93.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.5		1.5		0		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93345

SDG No.: LB93345

Contract:

Lab Code: CHEM

Case No.: LB93345

SAS No.: LB93345

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB106608BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93345

SDG No.: LB93345

Contract:

Lab Code: CHEM

Case No.: LB93345

SAS No.: LB93345

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB106626BS Cyanide	mg/L	0.1	0.094		94	85 - 115	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93345

SDG No.: LB93345

Contract:

Lab Code: CHEM

Case No.: LB93345

SAS No.: LB93345

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB106627BS Cyanide	mg/Kg	5	4.7		94	85 - 115	