

Daily Analysis Runlog For Sequence/QC Batch ID # LB90425

Review By		Review On				
SubDirectory		LB90425		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP58355,WP58356,WP58357,WP58358,WP58359,WP58360,WP58353				
ICV Standard		WP58362				
CCV Standard		WP58361				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP58363,WP55355,WP55836				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	09/28/17 14:29		OK
2	5.0PPBCN	5.0PPBCN	CAL2	09/28/17 14:29		OK
3	10PPBCN	10PPBCN	CAL3	09/28/17 14:29		OK
4	50PPBCN	50PPBCN	CAL4	09/28/17 14:29		OK
5	100PPBCN	100PPBCN	CAL5	09/28/17 14:29		OK
6	250PPBCN	250PPBCN	CAL6	09/28/17 14:29		OK
7	500PPBCN	500PPBCN	CAL7	09/28/17 14:29		OK
8	ICV1	ICV1	ICV	09/28/17 17:00		OK
9	ICB1	ICB1	ICB	09/28/17 17:00		OK
10	CCV1	CCV1	CCV	09/28/17 17:00		OK
11	CCB1	CCB1	CCB	09/28/17 17:00		OK
12	PB102706BL	PB102706BL	MB	09/28/17 17:00		OK
13	PB102706BS	PB102706BS	LCS	09/28/17 17:00		OK
14	MIDPB102706	MIDPB102706	SAM	09/28/17 17:07		OK
15	I5486-01	PAMT-SSW	SAM	09/28/17 17:07		OK
16	I5486-01DUP	PAMT-SSWDUP	DUP	09/28/17 17:07		OK
17	I5486-01MS	PAMT-SSWMS	MS	09/28/17 17:08		OK
18	I5486-01MSD	PAMT-SSWMSD	MSD	09/28/17 17:08		OK
19	I5496-01	PAMT-COMP-A	SAM	09/28/17 17:08		OK
20	I5496-02	PAMT-COMP-DUP	SAM	09/28/17 17:08		OK
21	I5496-03	PAMT-COMP-B	SAM	09/28/17 17:08		OK

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ICV Standard		WP58362				
CCV Standard		WP58361				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP58363,WP55355,WP55836				
22	CCV2	CCV2	CCV	09/28/17 17:08		OK
23	CCB2	CCB2	CCB	09/28/17 17:14		OK
24	I5496-04	PAMT-COMP-E	SAM	09/28/17 17:14		OK
25	I5496-05	PAMT-COMP-A-D	SAM	09/28/17 17:14		OK
26	I5496-06	PAMT-COMP-DUP-D	SAM	09/28/17 17:14		OK
27	I5496-07	PAMT-COMP-B-D	SAM	09/28/17 17:14		OK
28	I5496-08	PAMT-COMP-E-D	SAM	09/28/17 17:14		OK
29	CCV3	CCV3	CCV	09/28/17 17:14		OK
30	CCB3	CCB3	CCB	09/28/17 17:14		OK



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Report of Analysis

Client:		Date Collected:	9/26/2017 12:00:00 AM
Project:	LB90425	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	PAMT-SSW	SDG No.:	LB90425
Lab Sample ID:	I5486-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Cyanide	0.00097	U	1	0.001		0.005	mg/L	09/28/2017	09/28/2017	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	9/27/2017 12:00:00 AM
Project:	LB90425	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	PAMT-COMP-A	SDG No.:	LB90425
Lab Sample ID:	I5496-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Cyanide	0.00098	U	1	0.001		0.005	mg/L	09/28/2017	09/28/2017	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	9/27/2017 12:00:00 AM
Project:	LB90425	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	PAMT-COMP-DUP	SDG No.:	LB90425
Lab Sample ID:	I5496-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Cyanide	-0.0004	U	1	0.001		0.005	mg/L	09/28/2017	09/28/2017	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	9/27/2017 12:00:00 AM
Project:	LB90425	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	PAMT-COMP-B	SDG No.:	LB90425
Lab Sample ID:	I5496-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Cyanide	0.016		1	0.001		0.005	mg/L	09/28/2017	09/28/2017	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	9/27/2017 12:00:00 AM
Project:	LB90425	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	PAMT-COMP-E	SDG No.:	LB90425
Lab Sample ID:	I5496-04	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Cyanide	0.027		1	0.001		0.005	mg/L	09/28/2017	09/28/2017	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	9/27/2017 12:00:00 AM
Project:	LB90425	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	PAMT-COMP-A-D	SDG No.:	LB90425
Lab Sample ID:	I5496-05	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Cyanide	0.00025	U	1	0.001		0.005	mg/L	09/28/2017	09/28/2017	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	9/27/2017 12:00:00 AM
Project:	LB90425	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	PAMT-COMP-DUP-D	SDG No.:	LB90425
Lab Sample ID:	I5496-06	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Cyanide	0.00084	U	1	0.001		0.005	mg/L	09/28/2017	09/28/2017	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	9/27/2017 12:00:00 AM
Project:	LB90425	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	PAMT-COMP-B-D	SDG No.:	LB90425
Lab Sample ID:	I5496-07	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Cyanide	0.0056		1	0.001		0.005	mg/L	09/28/2017	09/28/2017	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	9/27/2017 12:00:00 AM
Project:	LB90425	Date Received:	9/27/2017 12:00:00 AM
Client Sample ID:	PAMT-COMP-E-D	SDG No.:	LB90425
Lab Sample ID:	I5496-08	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Cyanide	0.0016	J	1	0.001		0.005	mg/L	09/28/2017	09/28/2017	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	
Project:	LB90425	Date Received:	
Client Sample ID:	MIDPB102706	SDG No.:	LB90425
Lab Sample ID:	MIDPB102706	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Cyanide	0.24		1	0.001		0.005	mg/L		09/28/2017	SM4500-CN C, I



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Report of Analysis

Client:		Date Collected:	
Project:	LB90425	Date Received:	
Client Sample ID:	MIDPB102706	SDG No.:	LB90425
Lab Sample ID:	MIDPB102706	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: LB90425

SDG No.: LB90425

Contract: _____ Lab Code: CHEM

Case No.: LB90425

SAS No.: LB90425

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		09/28/2017	17:00	LB90425
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		09/28/2017	17:08	LB90425
CCV3	Cyanide	0.25	0.25	100	0	90 - 110		09/28/2017	17:14	LB90425



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90425

SDG No.: LB90425

Contract:

Lab Code: CHEM

Case No.: LB90425

SAS No.: LB90425

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00026	+/-0.005	U		0.005		09/28/2017	17:00	LB90425



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90425

SDG No.: LB90425

Contract:

Lab Code: CHEM

Case No.: LB90425

SAS No.: LB90425

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.0001	+/-0.005	U		0.005		09/28/2017	17:00	LB90425
CCB2	Cyanide	-0.0001	+/-0.005	U		0.005		09/28/2017	17:14	LB90425
CCB3	Cyanide	0.0001	+/-0.005	U		0.005		09/28/2017	17:14	LB90425



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90425

SDG No.: LB90425

Contract: Lab Code: CHEM

Case No.: LB90425

SAS No.: LB90425

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: LB90425

SDG No.: LB90425

Instrument: Konelab 20

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB102706BL	Cyanide	WATER -0.00013	<0.005	Batch Number: U		PB102706 0.005		Prep Date: 09/28/2017	09/28/2017 17:00	LB90425



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB90425 level: low sdg no.: LB90425
contract: lab code: CHEM case no.: LB90425 sas no.: LB90425
matrix: WATER sample id: I5486-01 client id: PAMT-SSWMS
Percent Solids for Sample: 0 Spiked ID: I5486-01MS 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	0.035		0.001	U	0.04	87.5		



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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB90425 level: low sdg no.: LB90425
contract: lab code: CHEM case no.: LB90425 sas no.: LB90425
matrix: WATER sample id: I5486-01 client id: PAMT-SSWMSD
Percent Solids for Sample: 0 Spiked ID: I5486-01MSD 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	0.035		0.001	U	0.04	87.5		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB90425 **Level:** LOW **SDG No.:** LB90425
Contract: **Lab Code:** CHEM **Case No.:** LB90425 **SAS No.:** LB90425
Matrix: WATER **Sample ID:** I5486-01 **Client ID:** PAMT-SSWDUP
Percent Solids for Sample: 0 **Duplicate ID** I5486-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.001	U	0.0011	J	200.0		



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DUPLICATE SAMPLE SUMMARY

Client: LB90425 **Level:** LOW **SDG No.:** LB90425
Contract: **Lab Code:** CHEM **Case No.:** LB90425 **SAS No.:** LB90425
Matrix: WATER **Sample ID:** I5486-01MS **Client ID:** PAMT-SSWMSD
Percent Solids for Sample: 0 **Duplicate ID** I5486-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.035		0.035		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB90425

SDG No.: LB90425

Contract:

Lab Code: CHEM

Case No.: LB90425

SAS No.: LB90425

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB102706BS Cyanide	mg/L	0.1	0.097		97	85 - 115	