



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87007

SDG No.: LB87007

Contract: _____ Lab Code: CHEM

Case No.: LB87007

SAS No.: LB87007

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	TOC	10.4	10	104	0	90 - 110		04/20/2017	21:48	LB87007



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87007

SDG No.: LB87007

Contract: _____ Lab Code: CHEM

Case No.: LB87007

SAS No.: LB87007

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	TOC	9.7	10	97	0	90 - 110		04/21/2017	13:38	LB87007
CCV2	TOC	9.7	10	97	0	90 - 110		04/21/2017	19:46	LB87007
CCV3	TOC	9.6	10	96	0	90 - 110		04/22/2017	06:53	LB87007



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87007

SDG No.: LB87007

Contract:

Lab Code: CHEM

Case No.: LB87007

SAS No.: LB87007

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	TOC	0.18	+/-0.5	J			0.5	04/20/2017	22:01	LB87007



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87007

SDG No.: LB87007

Contract:

Lab Code: CHEM

Case No.: LB87007

SAS No.: LB87007

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	TOC	0.3	+/-0.5	J			0.5	04/21/2017	13:51	LB87007
CCB2	TOC	0.078	+/-0.5	U			0.5	04/21/2017	19:59	LB87007
CCB3	TOC	0.19	+/-0.5	J			0.5	04/22/2017	07:06	LB87007



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87007

SDG No.: LB87007

Contract: Lab Code: CHEM

Case No.: LB87007

SAS No.: LB87007

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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Report of Analysis

Client:		Date Collected:	4/18/2017 12:00:00 AM
Project:	LB87007	Date Received:	4/20/2017 12:00:00 AM
Client Sample ID:	S49-0429	SDG No.:	LB87007
Lab Sample ID:	I2777-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
10-35-5	TOC	28.2	OR	1	0.097		0.5	mg/L		04/21/2017	9060



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Report of Analysis

Client:		Date Collected:	4/18/2017 12:00:00 AM
Project:	LB87007	Date Received:	4/20/2017 12:00:00 AM
Client Sample ID:	S49-0429DL	SDG No.:	LB87007
Lab Sample ID:	I2777-01DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
10-35-5	TOC	28.6	D	2	0.19		1	mg/L		04/22/2017	9060



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Report of Analysis

Client:		Date Collected:	4/18/2017 12:00:00 AM
Project:	LB87007	Date Received:	4/20/2017 12:00:00 AM
Client Sample ID:	S49-0428	SDG No.:	LB87007
Lab Sample ID:	I2777-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
10-35-5	TOC	3.3		1	0.097		0.5	mg/L		04/21/2017	9060



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Report of Analysis

Client:		Date Collected:	4/18/2017 12:00:00 AM
Project:	LB87007	Date Received:	4/20/2017 12:00:00 AM
Client Sample ID:	S49-0426	SDG No.:	LB87007
Lab Sample ID:	I2777-04	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
10-35-5	TOC	4.4		1	0.097		0.5	mg/L		04/21/2017	9060



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Report of Analysis

Client:		Date Collected:	4/18/2017 12:00:00 AM
Project:	LB87007	Date Received:	4/20/2017 12:00:00 AM
Client Sample ID:	S49-0427	SDG No.:	LB87007
Lab Sample ID:	I2777-05	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
10-35-5	TOC	4.2		1	0.097		0.5	mg/L		04/21/2017	9060



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Report of Analysis

Client:		Date Collected:	4/18/2017 12:00:00 AM
Project:	LB87007	Date Received:	4/20/2017 12:00:00 AM
Client Sample ID:	S49-EB-2017-2	SDG No.:	LB87007
Lab Sample ID:	I2777-06	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
10-35-5	TOC	0.8		1	0.097		0.5	mg/L		04/21/2017	9060



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Report of Analysis

Client:		Date Collected:	4/19/2017 12:00:00 AM
Project:	LB87007	Date Received:	4/20/2017 12:00:00 AM
Client Sample ID:	S49-0419	SDG No.:	LB87007
Lab Sample ID:	I2777-07	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
10-35-5	TOC	3.7		1	0.097		0.5	mg/L		04/21/2017	9060



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Report of Analysis

Client:		Date Collected:	4/19/2017 12:00:00 AM
Project:	LB87007	Date Received:	4/20/2017 12:00:00 AM
Client Sample ID:	S49-0420	SDG No.:	LB87007
Lab Sample ID:	I2777-08	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
10-35-5	TOC	1.8		1	0.097		0.5	mg/L		04/21/2017	9060



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Report of Analysis

Client:		Date Collected:	4/19/2017 12:00:00 AM
Project:	LB87007	Date Received:	4/20/2017 12:00:00 AM
Client Sample ID:	S49-0417	SDG No.:	LB87007
Lab Sample ID:	I2777-09	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
10-35-5	TOC	4.9		1	0.097		0.5	mg/L		04/21/2017	9060



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Report of Analysis

Client:		Date Collected:	4/19/2017 12:00:00 AM
Project:	LB87007	Date Received:	4/20/2017 12:00:00 AM
Client Sample ID:	S49-0415	SDG No.:	LB87007
Lab Sample ID:	I2777-10	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
10-35-5	TOC	5.9		1	0.097		0.5	mg/L		04/21/2017	9060



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Report of Analysis

Client:		Date Collected:	4/19/2017 12:00:00 AM
Project:	LB87007	Date Received:	4/20/2017 12:00:00 AM
Client Sample ID:	S49-0416	SDG No.:	LB87007
Lab Sample ID:	I2777-11	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
10-35-5	TOC	5.9		1	0.097		0.5	mg/L		04/21/2017	9060



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Report of Analysis

Client:		Date Collected:	4/19/2017 12:00:00 AM
Project:	LB87007	Date Received:	4/20/2017 12:00:00 AM
Client Sample ID:	S49-0421	SDG No.:	LB87007
Lab Sample ID:	I2777-12	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
10-35-5	TOC	7.2		1	0.097		0.5	mg/L		04/21/2017	9060



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Report of Analysis

Client:		Date Collected:	4/19/2017 12:00:00 AM
Project:	LB87007	Date Received:	4/20/2017 12:00:00 AM
Client Sample ID:	S49-0418	SDG No.:	LB87007
Lab Sample ID:	I2777-13	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
10-35-5	TOC	2.8		1	0.097		0.5	mg/L		04/21/2017	9060



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Report of Analysis

Client:		Date Collected:	4/20/2017 12:00:00 AM
Project:	LB87007	Date Received:	4/21/2017 12:00:00 AM
Client Sample ID:	S49-0423	SDG No.:	LB87007
Lab Sample ID:	I2800-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
10-35-5	TOC	1.1		1	0.097		0.5	mg/L		04/21/2017	9060



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Report of Analysis

Client:		Date Collected:	4/20/2017 12:00:00 AM
Project:	LB87007	Date Received:	4/21/2017 12:00:00 AM
Client Sample ID:	S49-0424	SDG No.:	LB87007
Lab Sample ID:	I2800-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
10-35-5	TOC	7.4		1	0.097		0.5	mg/L		04/21/2017	9060



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Report of Analysis

Client:		Date Collected:	4/20/2017 12:00:00 AM
Project:	LB87007	Date Received:	4/21/2017 12:00:00 AM
Client Sample ID:	S49-0425	SDG No.:	LB87007
Lab Sample ID:	I2800-04	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
10-35-5	TOC	4.4		1	0.097		0.5	mg/L		04/22/2017	9060



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Report of Analysis

Client:		Date Collected:	4/20/2017 12:00:00 AM
Project:	LB87007	Date Received:	4/21/2017 12:00:00 AM
Client Sample ID:	S49-0425	SDG No.:	LB87007
Lab Sample ID:	I2800-04	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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
- 3b -
PREPARATION BLANK SUMMARY

Client: LB87007

SDG No.: LB87007

Instrument: Appolo-9000

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
LB87007BLW	WATER			Batch Number:			Prep Date:			
	TOC	0.062	<0.5	U		0.5		04/21/2017	14:58	LB87007



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB87007 level: low sdg no.: LB87007
contract: lab code: CHEM case no.: LB87007 sas no.: LB87007
matrix: WATER sample id: I2777-13 client id: S49-0418MS
Percent Solids for Sample: 0 Spiked ID: I2777-14MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TOC	mg/L	75 - 125	11.3		2.8		10	85		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB87007 level: low sdg no.: LB87007
contract: lab code: CHEM case no.: LB87007 sas no.: LB87007
matrix: WATER sample id: I2777-15 client id: S49-0418MSD
Percent Solids for Sample: 0 Spiked ID: I2777-15MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TOC	mg/L	75 - 125	11.9				10	119		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB87007 level: low sdg no.: LB87007
contract: lab code: CHEM case no.: LB87007 sas no.: LB87007
matrix: WATER sample id: I2777-13 client id: S49-0418MS
Percent Solids for Sample: 0 Spiked ID: I2777-14MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TOC	mg/L	75 - 125	11.3		2.8		10	85		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB87007 level: low sdg no.: LB87007
contract: lab code: CHEM case no.: LB87007 sas no.: LB87007
matrix: WATER sample id: I2777-13 client id: S49-0418MSD
Percent Solids for Sample: 0 Spiked ID: I2777-15MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TOC	mg/L	75 - 125	11.9		2.8		10	91		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB87007 **Level:** LOW **SDG No.:** LB87007
Contract: **Lab Code:** CHEM **Case No.:** LB87007 **SAS No.:** LB87007
Matrix: WATER **Sample ID:** I2777-14MS **Client ID:** S49-0418MSD
Percent Solids for Sample: 0 **Duplicate ID** I2777-15MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TOC	mg/L	20	11.3		11.9		5		

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB87007BSW							
TOC	mg/L	10	10.1		101	90 - 110	