



GENCHEM

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86368

SDG No.: LB86368

Contract: _____ Lab Code: CHEM

Case No.: LB86368

SAS No.: LB86368

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	ASTM Ammonia	1.0	1	100	0	90 - 110		03/15/2017	12:35	LB86368
CCV2	ASTM Ammonia	1.0	1	100	0	90 - 110		03/15/2017	12:46	LB86368
CCV3	ASTM Ammonia	1.0	1	100	0	90 - 110		03/15/2017	12:55	LB86368
CCV4	ASTM Ammonia	1.0	1	100	0	90 - 110		03/15/2017	12:55	LB86368
CCV5	ASTM Ammonia	1.1	1	110	0	90 - 110		03/15/2017	13:33	LB86368



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86368

SDG No.: LB86368

Contract:

Lab Code: CHEM

Case No.: LB86368

SAS No.: LB86368

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	ASTM Ammonia	-0.0045	+/-0.1	U			0.1	03/15/2017	12:35	LB86368



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86368

SDG No.: LB86368

Contract:

Lab Code: CHEM

Case No.: LB86368

SAS No.: LB86368

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	ASTM Ammonia	0.0009	+/-0.1	U			0.1	03/15/2017	12:35	LB86368
CCB2	ASTM Ammonia	-0.0012	+/-0.1	U			0.1	03/15/2017	12:46	LB86368
CCB3	ASTM Ammonia	0.0033	+/-0.1	U			0.1	03/15/2017	12:55	LB86368
CCB4	ASTM Ammonia	0.0013	+/-0.1	U			0.1	03/15/2017	12:55	LB86368
CCB5	ASTM Ammonia	0.013	+/-0.1	U			0.1	03/15/2017	13:33	LB86368



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86368

SDG No.: LB86368

Contract: Lab Code: CHEM

Case No.: LB86368

SAS No.: LB86368

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:	3/8/2017 12:00:00 AM
Project:	LB86368	Date Received:	3/8/2017 12:00:00 AM
Client Sample ID:	D-87	SDG No.:	LB86368
Lab Sample ID:	I2200-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	ASTM Ammonia	0.2		1	0.034		0.1	mg/L	03/15/2017	03/15/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	3/8/2017 12:00:00 AM
Project:	LB86368	Date Received:	3/8/2017 12:00:00 AM
Client Sample ID:	D-89	SDG No.:	LB86368
Lab Sample ID:	I2200-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	ASTM Ammonia	0.51		1	0.034		0.1	mg/L	03/15/2017	03/15/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	3/8/2017 12:00:00 AM
Project:	LB86368	Date Received:	3/8/2017 12:00:00 AM
Client Sample ID:	D-93	SDG No.:	LB86368
Lab Sample ID:	I2200-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	ASTM Ammonia	0.09	J	1	0.034		0.1	mg/L	03/15/2017	03/15/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	3/8/2017 12:00:00 AM
Project:	LB86368	Date Received:	3/8/2017 12:00:00 AM
Client Sample ID:	D-97	SDG No.:	LB86368
Lab Sample ID:	I2200-04	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	ASTM Ammonia	1.5		1	0.034		0.1	mg/L	03/15/2017	03/15/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	3/8/2017 12:00:00 AM
Project:	LB86368	Date Received:	3/8/2017 12:00:00 AM
Client Sample ID:	D-101	SDG No.:	LB86368
Lab Sample ID:	I2200-05	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	ASTM Ammonia	2.0		1	0.034		0.1	mg/L	03/15/2017	03/15/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	3/8/2017 12:00:00 AM
Project:	LB86368	Date Received:	3/8/2017 12:00:00 AM
Client Sample ID:	D-103	SDG No.:	LB86368
Lab Sample ID:	I2200-06	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	ASTM Ammonia	0.56		1	0.034		0.1	mg/L	03/15/2017	03/15/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	3/8/2017 12:00:00 AM
Project:	LB86368	Date Received:	3/8/2017 12:00:00 AM
Client Sample ID:	D-105	SDG No.:	LB86368
Lab Sample ID:	I2200-07	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	ASTM Ammonia	1.7		1	0.034		0.1	mg/L	03/15/2017	03/15/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	3/8/2017 12:00:00 AM
Project:	LB86368	Date Received:	3/8/2017 12:00:00 AM
Client Sample ID:	D-107	SDG No.:	LB86368
Lab Sample ID:	I2200-08	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	ASTM Ammonia	1.3		1	0.034		0.1	mg/L	03/15/2017	03/15/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	3/8/2017 12:00:00 AM
Project:	LB86368	Date Received:	3/8/2017 12:00:00 AM
Client Sample ID:	D-110	SDG No.:	LB86368
Lab Sample ID:	I2200-09	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	ASTM Ammonia	0.13		1	0.034		0.1	mg/L	03/15/2017	03/15/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	3/8/2017 12:00:00 AM
Project:	LB86368	Date Received:	3/8/2017 12:00:00 AM
Client Sample ID:	D-111	SDG No.:	LB86368
Lab Sample ID:	I2200-10	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	ASTM Ammonia	0.46		1	0.034		0.1	mg/L	03/15/2017	03/15/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	3/8/2017 12:00:00 AM
Project:	LB86368	Date Received:	3/8/2017 12:00:00 AM
Client Sample ID:	D-112	SDG No.:	LB86368
Lab Sample ID:	I2202-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	ASTM Ammonia	0.21		1	0.034		0.1	mg/L	03/15/2017	03/15/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	3/8/2017 12:00:00 AM
Project:	LB86368	Date Received:	3/8/2017 12:00:00 AM
Client Sample ID:	D-117	SDG No.:	LB86368
Lab Sample ID:	I2202-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	ASTM Ammonia	0.54		1	0.034		0.1	mg/L	03/15/2017	03/15/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	3/8/2017 12:00:00 AM
Project:	LB86368	Date Received:	3/8/2017 12:00:00 AM
Client Sample ID:	D-119	SDG No.:	LB86368
Lab Sample ID:	I2202-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	ASTM Ammonia	0.7		1	0.034		0.1	mg/L	03/15/2017	03/15/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	3/8/2017 12:00:00 AM
Project:	LB86368	Date Received:	3/8/2017 12:00:00 AM
Client Sample ID:	D-120	SDG No.:	LB86368
Lab Sample ID:	I2202-04	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	ASTM Ammonia	0.21		1	0.034		0.1	mg/L	03/15/2017	03/15/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	3/8/2017 12:00:00 AM
Project:	LB86368	Date Received:	3/8/2017 12:00:00 AM
Client Sample ID:	D-121	SDG No.:	LB86368
Lab Sample ID:	I2202-05	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	ASTM Ammonia	0.055	J	1	0.034		0.1	mg/L	03/15/2017	03/15/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	3/8/2017 12:00:00 AM
Project:	LB86368	Date Received:	3/8/2017 12:00:00 AM
Client Sample ID:	D-123	SDG No.:	LB86368
Lab Sample ID:	I2202-06	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	ASTM Ammonia	0.94		1	0.034		0.1	mg/L	03/15/2017	03/15/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	3/8/2017 12:00:00 AM
Project:	LB86368	Date Received:	3/8/2017 12:00:00 AM
Client Sample ID:	D-126	SDG No.:	LB86368
Lab Sample ID:	I2202-07	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	ASTM Ammonia	1.4		1	0.034		0.1	mg/L	03/15/2017	03/15/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	3/8/2017 12:00:00 AM
Project:	LB86368	Date Received:	3/8/2017 12:00:00 AM
Client Sample ID:	D-127	SDG No.:	LB86368
Lab Sample ID:	I2202-08	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	ASTM Ammonia	2.0	OR	1	0.034		0.1	mg/L	03/15/2017	03/15/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	3/8/2017 12:00:00 AM
Project:	LB86368	Date Received:	3/8/2017 12:00:00 AM
Client Sample ID:	D-127DL	SDG No.:	LB86368
Lab Sample ID:	I2202-08DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	ASTM Ammonia	2.1	D	2	0.068		0.2	mg/L	03/15/2017	03/15/2017	SM4500-NH3

Report of Analysis

Client:		Date Collected:	3/8/2017 12:00:00 AM
Project:	LB86368	Date Received:	3/8/2017 12:00:00 AM
Client Sample ID:	D-127DL	SDG No.:	LB86368
Lab Sample ID:	I2202-08DL	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

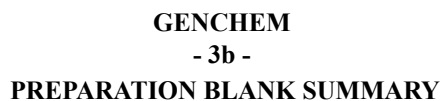
B = Analyte Found in Associated Method Blank

* = 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



SDG No.: LB86368

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB97600BL		WATER		Batch Number:		PB97600		Prep Date:	03/15/2017	
	ASTM Ammonia	0.0004	<0.1	U		0.1		03/15/2017	12:35	LB86368



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MATRIX SPIKE SUMMARY

client: LB86368 level: low sdg no.: LB86368
contract: lab code: CHEM case no.: LB86368 sas no.: LB86368
matrix: WATER sample id: I2200-01 client id: D-87MS
Percent Solids for Sample: 0 Spiked ID: I2200-01MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
ASTM Ammonia	mg/L	75 - 125	1.2		0.2		1	100		

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MATRIX SPIKE DUPLICATE SUMMARY

client: LB86368 level: low sdg no.: LB86368
contract: lab code: CHEM case no.: LB86368 sas no.: LB86368
matrix: WATER sample id: I2200-01 client id: D-87MSD
Percent Solids for Sample: 0 Spiked ID: I2200-01MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
ASTM Ammonia	mg/L	75 - 125	1.2		0.2		1	100		

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DUPLICATE SAMPLE SUMMARY

Client: LB86368 **Level:** LOW **SDG No.:** LB86368
Contract: **Lab Code:** CHEM **Case No.:** LB86368 **SAS No.:** LB86368
Matrix: WATER **Sample ID:** I2200-01 **Client ID:** D-87DUP
Percent Solids for Sample: 0 **Duplicate ID** I2200-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
ASTM Ammonia	mg/L	20	0.2		0.2		0		

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DUPLICATE SAMPLE SUMMARY

Client: LB86368 **Level:** LOW **SDG No.:** LB86368
Contract: **Lab Code:** CHEM **Case No.:** LB86368 **SAS No.:** LB86368
Matrix: WATER **Sample ID:** I2200-01MS **Client ID:** D-87MSD
Percent Solids for Sample: 0 **Duplicate ID** I2200-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
ASTM Ammonia	mg/L	20	1.2		1.2		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86368

SDG No.: LB86368

Contract:

Lab Code: CHEM

Case No.: LB86368

SAS No.: LB86368

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB97600BS ASTM Ammonia	mg/L	1	1.0		100	80 - 120	