





## GENCHEM

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### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86605

SDG No.: LB86605

Contract: \_\_\_\_\_ Lab Code: CHEM

Case No.: LB86605

SAS No.: LB86605

Initial Calibration Source: \_\_\_\_\_

Continuing Calibration Source: \_\_\_\_\_

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Sample ID	Analyte	Result mg/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Ammonia as N	0.94	1	94	0	90 - 110		03/29/2017	11:13	LB86605
CCV2	Ammonia as N	0.96	1	96	0	90 - 110		03/29/2017	11:20	LB86605

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## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB86605

SDG No.: LB86605

**Contract:**

Lab Code: CHEM

**Case No.:** LB86605

**SAS No.:** LB86605

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Ammonia as N	0.039	+/-0.1	J			0.1	03/29/2017	11:13	LB86605



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### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB86605

SDG No.: LB86605

**Contract:**

Lab Code: CHEM

**Case No.:** LB86605

**SAS No.:** LB86605

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Ammonia as N	0.034	+/-0.1	J			0.1	03/29/2017	11:13	LB86605
CCB2	Ammonia as N	0.04	+/-0.1	J			0.1	03/29/2017	11:20	LB86605



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86605

SDG No.: LB86605

Contract: Lab Code: CHEM

Case No.: LB86605

SAS No.: LB86605

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:	3/23/2017 12:00:00 AM
Project:	LB86605	Date Received:	3/24/2017 12:00:00 AM
Client Sample ID:	MW-7-032317	SDG No.:	LB86605
Lab Sample ID:	I2389-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	0.094	J	1	0.034		0.1	mg/L	03/28/2017	03/29/2017	SM4500-NH3



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## Report of Analysis

Client:		Date Collected:	3/23/2017 12:00:00 AM
Project:	LB86605	Date Received:	3/24/2017 12:00:00 AM
Client Sample ID:	MW-8S-032317	SDG No.:	LB86605
Lab Sample ID:	I2389-06	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	0.2		1	0.034		0.1	mg/L	03/28/2017	03/29/2017	SM4500-NH3



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## Report of Analysis

Client:		Date Collected:	3/23/2017 12:00:00 AM
Project:	LB86605	Date Received:	3/24/2017 12:00:00 AM
Client Sample ID:	MW-1-032317	SDG No.:	LB86605
Lab Sample ID:	I2389-12	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	0.13		1	0.034		0.1	mg/L	03/28/2017	03/29/2017	SM4500-NH3





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## Report of Analysis

Client:		Date Collected:	3/23/2017 12:00:00 AM
Project:	LB86605	Date Received:	3/24/2017 12:00:00 AM
Client Sample ID:	MW-2-032317	SDG No.:	LB86605
Lab Sample ID:	I2389-13	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	0.11		1	0.034		0.1	mg/L	03/28/2017	03/29/2017	SM4500-NH3



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## Report of Analysis

Client:		Date Collected:	3/23/2017 12:00:00 AM
Project:	LB86605	Date Received:	3/24/2017 12:00:00 AM
Client Sample ID:	SUMP-032317	SDG No.:	LB86605
Lab Sample ID:	I2389-14	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	0.2		1	0.034		0.1	mg/L	03/28/2017	03/29/2017	SM4500-NH3



## Report of Analysis

Client:		Date Collected:	3/23/2017 12:00:00 AM
Project:	LB86605	Date Received:	3/24/2017 12:00:00 AM
Client Sample ID:	SUMP-032317	SDG No.:	LB86605
Lab Sample ID:	I2389-14	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



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**PREPARATION BLANK SUMMARY**

**Client:** LB86605

**SDG No.:** LB86605

**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
<b>PB97889BL</b>		<b>WATER</b>		<b>Batch Number:</b>		<b>PB97889</b>		<b>Prep Date:</b>	<b>03/28/2017</b>	
	Ammonia as N	0.038	<0.1	J		0.1		03/29/2017	11:13	LB86605



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MATRIX SPIKE SUMMARY

client: LB86605 level: low sdg no.: LB86605  
contract: lab code: CHEM case no.: LB86605 sas no.: LB86605  
matrix: WATER sample id: I2389-02 client id: MW-7-032317MS  
Percent Solids for Sample: 0 Spiked ID: I2389-02MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Ammonia as N	mg/L	75 - 125	1		0.094	J	1	91		



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MATRIX SPIKE DUPLICATE SUMMARY

client: LB86605 level: low sdg no.: LB86605  
contract: lab code: CHEM case no.: LB86605 sas no.: LB86605  
matrix: WATER sample id: I2389-02 client id: MW-7-032317MSD  
Percent Solids for Sample: 0 Spiked ID: I2389-02MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Ammonia as N	mg/L	75 - 125		1	0.094	J	1	91		

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## DUPLICATE SAMPLE SUMMARY

**Client:** LB86605      **Level:** LOW      **SDG No.:** LB86605  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB86605      **SAS No.:** LB86605  
**Matrix:** WATER      **Sample ID:** I2389-02      **Client ID:** MW-7-032317DUP  
**Percent Solids for Sample:** 0      **Duplicate ID** I2389-02DUP      **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Ammonia as N	mg/L	20	0.094	J	0.094	J	0		

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DUPLICATE SAMPLE SUMMARY

Client: LB86605 Level: LOW SDG No.: LB86605  
Contract: Lab Code: CHEM Case No.: LB86605 SAS No.: LB86605  
Matrix: WATER Sample ID: I2389-02MS Client ID: MW-7-032317MSD  
Percent Solids for Sample: 0 Duplicate ID I2389-02MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Ammonia as N	mg/L	20	1		1		0		

“A control limit of  $\pm 20\%$  RPD for each matrix applies for sample values greater than 10 times Detection Limit”





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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86605

SDG No.: LB86605

Contract:

Lab Code: CHEM

Case No.: LB86605

SAS No.: LB86605

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB97889BS Ammonia as N	mg/L	1	0.93		93	80 - 120	