





## GENCHEM

- 2a -

### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86669

SDG No.: LB86669

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

Case No.: LB86669

SAS No.: LB86669

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	Ammonia as N	0.95	1	95	0	90 - 110		04/03/2017	09:56	LB86669
CCV2	Ammonia as N	0.99	1	99	0	90 - 110		04/03/2017	10:02	LB86669
CCV3	Ammonia as N	1	1	100	0	90 - 110		04/03/2017	10:25	LB86669



**GENCHEM**

- 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB86669

SDG No.: LB86669

**Contract:**

Lab Code: CHEM

**Case No.:** LB86669

**SAS No.:** LB86669

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Ammonia as N	0.012	+/-0.1	U			0.1	04/03/2017	09:56	LB86669



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- 3a -

### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB86669

SDG No.: LB86669

**Contract:**

Lab Code: CHEM

**Case No.:** LB86669

**SAS No.:** LB86669

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Ammonia as N	0.012	+/-0.1	U			0.1	04/03/2017	09:56	LB86669
CCB2	Ammonia as N	0.02	+/-0.1	U			0.1	04/03/2017	10:02	LB86669
CCB3	Ammonia as N	0.017	+/-0.1	U			0.1	04/03/2017	10:25	LB86669



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	LB86669	SDG No.:	LB86669				
Contract:		Lab Code:	CHEM	Case No.:	LB86669	SAS No.:	LB86669

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:	3/30/2017 12:00:00 AM
Project:	LB86669	Date Received:	3/31/2017 12:00:00 AM
Client Sample ID:	MW-1	SDG No.:	LB86669
Lab Sample ID:	I2491-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	0.2		1	0.034		0.1	mg/L	03/31/2017	04/03/2017	SM4500-NH3



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## Report of Analysis

Client:		Date Collected:	3/30/2017 12:00:00 AM
Project:	LB86669	Date Received:	3/31/2017 12:00:00 AM
Client Sample ID:	MW-2	SDG No.:	LB86669
Lab Sample ID:	I2491-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	3.5	OR	1	0.034		0.1	mg/L	03/31/2017	04/03/2017	SM4500-NH3



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## Report of Analysis

Client:		Date Collected:	3/30/2017 12:00:00 AM
Project:	LB86669	Date Received:	3/31/2017 12:00:00 AM
Client Sample ID:	MW-2DL	SDG No.:	LB86669
Lab Sample ID:	I2491-03DL	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	3.5	D	5	0.17		0.5	mg/L	03/31/2017	04/03/2017	SM4500-NH3





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## Report of Analysis

Client:		Date Collected:	3/30/2017 12:00:00 AM
Project:	LB86669	Date Received:	3/31/2017 12:00:00 AM
Client Sample ID:	MW-3	SDG No.:	LB86669
Lab Sample ID:	I2491-05	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	1.4		1	0.034		0.1	mg/L	03/31/2017	04/03/2017	SM4500-NH3



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## Report of Analysis

Client:		Date Collected:	3/30/2017 12:00:00 AM
Project:	LB86669	Date Received:	3/31/2017 12:00:00 AM
Client Sample ID:	MW-4	SDG No.:	LB86669
Lab Sample ID:	I2491-07	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	1.5		1	0.034		0.1	mg/L	03/31/2017	04/03/2017	SM4500-NH3



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## Report of Analysis

Client:		Date Collected:	3/30/2017 12:00:00 AM
Project:	LB86669	Date Received:	3/31/2017 12:00:00 AM
Client Sample ID:	MW-4	SDG No.:	LB86669
Lab Sample ID:	I2491-07	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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:** LB86669

**SDG No.:** LB86669

**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>PB97970BL</b>		<b>WATER</b>		<b>Batch Number:</b>		<b>PB97970</b>		<b>Prep Date:</b>	<b>03/31/2017</b>	
	Ammonia as N	0.012	<0.1	U		0.1		04/03/2017	09:56	LB86669



GENCHEM  
- 5a -  
MATRIX SPIKE SUMMARY

client: LB86669 level: low sdg no.: LB86669  
contract: lab code: CHEM case no.: LB86669 sas no.: LB86669  
matrix: WATER sample id: I2491-01 client id: MW-1MS  
Percent Solids for Sample: 0 Spiked ID: I2491-01MS 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	1.1		0.2		1	90		



GENCHEM  
- 5a -  
MATRIX SPIKE DUPLICATE SUMMARY

client: LB86669 level: low sdg no.: LB86669  
contract: lab code: CHEM case no.: LB86669 sas no.: LB86669  
matrix: WATER sample id: I2491-01 client id: MW-1MSD  
Percent Solids for Sample: 0 Spiked ID: I2491-01MSD 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	1.1		0.2		1	90		

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- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB86669 Level: LOW SDG No.: LB86669  
Contract: Lab Code: CHEM Case No.: LB86669 SAS No.: LB86669  
Matrix: WATER Sample ID: I2491-01 Client ID: MW-1DUP  
Percent Solids for Sample: 0 Duplicate ID I2491-01DUP 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	0.2		0.2		0		

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



GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB86669 Level: LOW SDG No.: LB86669  
Contract:                      Lab Code: CHEM Case No.: LB86669 SAS No.: LB86669  
Matrix: WATER Sample ID: I2491-01MS Client ID: MW-1MSD  
Percent Solids for Sample: 0 Duplicate ID I2491-01MSD 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		1.1		0		

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





GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86669

SDG No.: LB86669

Contract:

Lab Code: CHEM

Case No.: LB86669

SAS No.: LB86669

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB97970BS Ammonia as N	mg/L	1	0.94		94	80 - 120	