

Client: Date Collected: 9/18/2017 12:00:00 AM

Project: LB90242 Date Received: 9/19/2017 12:00:00 AM

Client Sample ID: MW-1-091817 SDG No.: LB90242 Lab Sample ID: I5300-02 Matrix: WATER

Cas	Parameter	Conc. Qu	ıa. DF	MDL	LOD LO	Q / CRQL Uni	ts Prep Date	Date Ana.	Ana Met.
	Ammonia as N	0.34	1	0.034	0.1	mg/I	09/20/2017	09/21/2013	7 SM4500-NH3



Client: Date Collected: 9/18/2017 12:00:00 AM

Project: LB90242 Date Received: 9/19/2017 12:00:00 AM

Client Sample ID: MW-2-091817 SDG No.: LB90242 Lab Sample ID: I5300-03 Matrix: WATER

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQI	Unit	s Prep Date	Date Ana.	Ana Met.
•	Ammonia as N	0.12		1	0.034		0.1	mg/L	09/20/2017	09/21/201	7 SM4500-NH3



Client: Date Collected: 9/18/2017 12:00:00 AM

Project: LB90242 Date Received: 9/19/2017 12:00:00 AM

Client Sample ID: MW-7-091817 SDG No.: LB90242 Lab Sample ID: I5300-04 Matrix: WATER

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQI	Unit	s Prep Date	Date Ana.	Ana Met.
	Ammonia as N	0.22		1	0.034		0.1	mg/L	09/20/2017	09/21/2017	7 SM4500-NH3



Client: Date Collected: 9/18/2017 12:00:00 AM

Project: LB90242 Date Received: 9/19/2017 12:00:00 AM

Client Sample ID: MW-8S-091817 SDG No.: LB90242 Lab Sample ID: I5300-05 Matrix: WATER

Cas	Parameter	Conc. Q	ua. DF	MDL	LOD LO	OQ / CRQL Uı	nits Prep Date	Date Ana.	Ana Met.
	Ammonia as N	0.19	1	0.034	0.1	1 mg/	/L 09/20/2017	09/21/2013	7 SM4500-NH3



Lab Sample ID:

I5300-10

Report of Analysis

Client: Date Collected: 9/18/2017 12:00:00 AM

Project: LB90242 Date Received: 9/19/2017 12:00:00 AM

Matrix:

WATER

Client Sample ID: SUMP-091817 SDG No.: LB90242

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQI	Unit	s Prep Date	Date Ana.	Ana Met.
	Ammonia as N	0.67		1	0.034		0.1	mg/L	09/20/2017	09/21/2017	7 SM4500-NH3



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Report of Analysis

9/18/2017 12:00:00 AM Client: Date Collected:

Project: LB90242 Date Received: 9/19/2017 12:00:00 AM

SDG No.: Client Sample ID: SUMP-091817 LB90242 Lab Sample ID: I5300-10 Matrix: WATER

% Solid: Level (low/med): low 0

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

Color Before: Clarity Before: 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.

Texture:

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits



LB90242

Client:

GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract:		Lab C	Code: CH	EM	. Ca	se No.: LB90242		SAS	No.: <u>LB9</u>	0242
Initial Calibrat	ion Source:									
Continuing Cal	libration Source:									
Sample ID	Analyte	Result mg/L	True Value		% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
Sample ID	Analyte			Recovery	KSD	Window (%R)	IVI	Date	Time	Number
ICV1	Ammonia as N	0.93	1	93	0	90 - 110		09/21/2017	17:45	LB90242

SDG No.: LB90242



- 2a - INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB90242			SDG No.:	LB90242	
Contract:	Lab Code:	СНЕМ	Case No.:	LB90242	SAS No.: <u>LB90242</u>
Initial Calibration Source:		_			
Continuing Calibration Source:					

		Result								
		mg/L	True Value	%	%	Acceptance		Analysis	Analysis	Run
Sample ID	Analyte			Recovery	RSD	Window (%R)	M	Date	Time	Number
CCV1	Ammonia as N	1	1	100	0	90 - 110		09/21/2017	18:10	LB90242
CCV2	Ammonia as N	1	1	100	0	90 - 110		09/21/2017	18:19	LB90242



- 3a INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90242 SDG No.: LB90242

 Contract:
 Lab Code:
 CHEM
 Case No.:
 LB90242
 SAS No.:
 LB90242

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICP1	Ammonia as N	-0.012	+/-0.1	H		0	1	09/21/2017	17:45	I B90242



- 3a INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90242 SDG No.: LB90242

 Contract:
 Lab Code:
 CHEM
 Case No.:
 LB90242
 SAS No.:
 LB90242

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual LOD	CRQL M	Analysis Date	Analysis Time	Run Number
CCB1	Ammonia as N	0.074	+/-0.1	J	0.1	09/21/2017	18:10	LB90242
CCB2	Ammonia as N	0.042	+/-0.1	J	0.1	09/21/2017	18:19	LB90242



- 3a -INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	LB90242			SDG No.:	LB90242			
Contract:		Lab Code:	CHEM	Case No.:	LB90242	SAS No.:	LB90242	

Contract:		Lab Code: CHEM			Case No.: <u>LB90242</u>			SAS No.: LB90242			
Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number		
	Analyte	Result	Result Acceptance	Result Acceptance Conc	Result Acceptance Conc	Result Acceptance Conc	Result Acceptance Conc	Result Acceptance Conc Analysis	Result Acceptance Conc Analysis Analysis		



GENCHEM - 3b -PREPARATION BLANK SUMMARY

Client: LB90242 SDG No.: LB90242

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
PB102481BL		WATER		Batch Nu	mber:	PB102481		Prep Date:	09/20/20	17
	Ammonia as N	0.06	< 0.1	J		0.1		09/21/2017	18:10	LB90242



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MATRIX SPIKE SUMMARY

client:	LB90242		level:	low		sdg no.:	LB90242		_	
contract:			lab code	e: <u>CHEM</u>		case no.:	LB90242	sa	s no.:	LB90242
matrix:	WATER		sample id:	<u>15300-02</u>		_ client id:	MW-1-09181	7MS	_	
Percent So	lids for Sample:	0	Spiked ID:	I5300-02N	4S	Percent Solid	ls for Spike Sa	mple:	0	
		Acceptance	Spiked	Sample		Spike	%			
Analyte	Units	Limit %R	Result C	Result	C	Added	Recovery	Qual	M	
Ammonia as	N mg/L	75 - 125	1.2	0.34		1	86			



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MATRIX SPIKE DUPLICATE SUMMARY

client:	LB90242		lev	vel:	low		sdg no.:	LB90242		_	
contract:			lal	b code	: CHEM	ſ	case no.:	LB90242	sa	s no.:	LB90242
matrix:	WATER		sample	id:	15300-02		_ client id:	MW-1-09181	7MSD	_	
Percent So	lids for Sample:	0	Spiked	ID:	15300-021	MSD	Percent Solid	ls for Spike Sa	mple:	0	
		Acceptance	MSD		Sample		Spike	%			
Analyte	Units	Limit %R	Result	C	Result	C	Added	Recovery	Qual	M	
Ammonia ac	N mg/I	75 - 125	1.3		0.34		1	96			



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DUPLICATE SAMPLE SUMMARY

Client: Ll	B90242		Level:	LOW	SD	G No.:	LB90242		_	
Contract:			Lab Code	: CHEM	Cas	se No.:	LB90242	SA	AS No.:	LB90242
Matrix:	WATER		Sample ID:	15300-02	Client	ID:	MW-1-0918	17DUP	_	
Percent Solid	s for Sample:	0	Duplicate ID	I5300-02DUP	Percen	t Solids	for Spike S	ample:	0	
		Acceptance	Sample		Duplicate					
Analyte	Units	Limit	Result	C	Result	C	RPD	Qual	M	
Ammonia as N	mg/I	20	0.34		0.37	7	8			



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DUPLICATE SAMPLE SUMMARY

Client:	LB90242		Level: I	LOW	SDC	3 No.:	LB90242		_		
Contract:			Lab Code	: СНЕМ	Cas	e No.:	LB90242	S.	AS No.:	LB90242	
Matrix:	WATER		Sample ID:	5300-02MS	Client	ID:	MW-1-0918	17MSD	_		
Percent Sol	lids for Sample:	0	Duplicate ID I	15300-02MSD	Percen	t Solids	for Spike Sa	imple:	0		
		Acceptance	Sample		Duplicate						
Analyte	Units	Limit	Result	C	Result	C	RPD	Qual	M		_
Ammonia as	N mg/I	20	1.2		1.3		8				_



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LABORATORY CONTROL SAMPLE SUMMARY

Client:	LB90242			SDG No.:	LB90242			
Contract:		Lab Code:	CHEM	Case No.:	LB90242	SAS No.:	LB90242	

_Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M	
PB102481BS								
Ammonia as N	mg/L	1	1.1		110	80 - 120		