



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86776

SDG No.: LB86776

Contract: _____ Lab Code: CHEM

Case No.: LB86776

SAS No.: LB86776

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	Ammonia as N	0.95	1	95	0	90 - 110		04/07/2017	14:41	LB86776



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86776

SDG No.: LB86776

Contract: **Lab Code:** CHEM

Case No.: LB86776

SAS No.: LB86776

Initial Calibration Source:

Continuing Calibration Source: _____

Sample ID	Analyte	Result	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
CCV1	Ammonia as N	0.98	1	98	0	90 - 110		04/07/2017	14:41	LB86776
CCV2	Ammonia as N	1	1	100	0	90 - 110		04/07/2017	14:47	LB86776
CCV3	Ammonia as N	1	1	100	0	90 - 110		04/07/2017	15:15	LB86776



GENCHEM

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86776

SDG No.: LB86776

Contract:

Lab Code: CHEM

Case No.: LB86776

SAS No.: LB86776

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Ammonia as N	0.021	+/-0.1	U			0.1	04/07/2017	14:41	LB86776



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86776

SDG No.: LB86776

Contract:

Lab Code: CHEM

Case No.: LB86776

SAS No.: LB86776

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Ammonia as N	0.023	+/-0.1	U			0.1	04/07/2017	14:41	LB86776
CCB2	Ammonia as N	0.023	+/-0.1	U			0.1	04/07/2017	14:47	LB86776
CCB3	Ammonia as N	0.025	+/-0.1	U			0.1	04/07/2017	15:15	LB86776



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	LB86776	SDG No.:	LB86776				
Contract:		Lab Code:	CHEM	Case No.:	LB86776	SAS No.:	LB86776

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	4/4/2017 12:00:00 AM
Project:	LB86776	Date Received:	4/5/2017 12:00:00 AM
Client Sample ID:	FINALEFFLUENT-19B(GRAB)	SDG No.:	LB86776
Lab Sample ID:	I2559-01	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	48.7	OR	1	0.034		0.1	mg/L	04/07/2017	04/07/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	4/4/2017 12:00:00 AM
Project:	LB86776	Date Received:	4/5/2017 12:00:00 AM
Client Sample ID:	FINALEFFLUENT-19B(GRAB)	SDG No.:	LB86776
Lab Sample ID:	I2559-01DDL	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	27.3	D	50	1.7		5	mg/L	04/07/2017	04/07/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	4/4/2017 12:00:00 AM
Project:	LB86776	Date Received:	4/5/2017 12:00:00 AM
Client Sample ID:	FINALEFFLUENT-19B(GRAB)DL	SDG No.:	LB86776
Lab Sample ID:	I2559-01DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	26.9	D	50	1.7		5	mg/L	04/07/2017	04/07/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	4/5/2017 12:00:00 AM
Project:	LB86776	Date Received:	4/6/2017 12:00:00 AM
Client Sample ID:	001M-WILLETS-PTBLVD(APR)	SDG No.:	LB86776
Lab Sample ID:	I2567-01	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	0.34		1	0.034		0.1	mg/L	04/07/2017	04/07/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	4/5/2017 12:00:00 AM
Project:	LB86776	Date Received:	4/6/2017 12:00:00 AM
Client Sample ID:	002M-35THAVE(APR)	SDG No.:	LB86776
Lab Sample ID:	I2567-02	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	0.26		1	0.034		0.1	mg/L	04/07/2017	04/07/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	4/5/2017 12:00:00 AM
Project:	LB86776	Date Received:	4/6/2017 12:00:00 AM
Client Sample ID:	002M-35THAVE(APR)	SDG No.:	LB86776
Lab Sample ID:	I2567-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

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

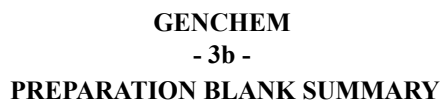
B = Analyte Found in Associated Method Blank

* = 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

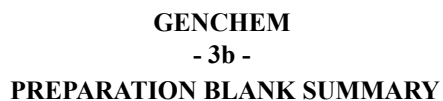
N = Spiked sample recovery not within control limits



SDG No.: LB86776

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
PB98137BL		WATER		Batch Number:		PB98137		Prep Date:	04/07/2017	
	Ammonia as N	0.034	<0.1	J		0.1		04/07/2017	14:41	LB86776



SDG No.: LB86776

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
PB98137BL		WATER		Batch Number:		PB98137		Prep Date:	04/07/2017	
	Ammonia as N	0.034	<0.1	J		0.1		04/07/2017	14:41	LB86776



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB86776 level: low sdg no.: LB86776
contract: lab code: CHEM case no.: LB86776 sas no.: LB86776
matrix: WATER sample id: I2559-01 client id: FINALEFFLUENT-19B(GRAB)MS
Percent Solids for Sample: 0 Spiked ID: I2559-01MS 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	48.7	OR	48.7	OR	1	0	*	



GENCHEM
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MATRIX SPIKE DUPLICATE SUMMARY

client: LB86776 level: low sdg no.: LB86776
contract: lab code: CHEM case no.: LB86776 sas no.: LB86776
matrix: WATER sample id: I2559-01 client id: FINALEFFLUENT-19B(GRAB)MSD
Percent Solids for Sample: 0 Spiked ID: I2559-01MSD 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	48.7	OR	48.7	OR	1	0	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB86776 level: low sdg no.: LB86776
contract: lab code: CHEM case no.: LB86776 sas no.: LB86776
matrix: WATER sample id: I2559-01DL client id: FINALEFFLUENT-19B(GRAB)MSDDL
Percent Solids for Sample: 0 Spiked ID: I2559-01MSDDL 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	25.1	D	26.9	D	1	-180	*	



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB86776 level: low sdg no.: LB86776
contract: lab code: CHEM case no.: LB86776 sas no.: LB86776
matrix: WATER sample id: I2559-01DL client id: FINALEFFLUENT-19B(GRAB)MSDL
Percent Solids for Sample: 0 Spiked ID: I2559-01MSDL 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	25.1	D	26.9	D	1	-180	*	

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB86776 **Level:** LOW **SDG No.:** LB86776
Contract: **Lab Code:** CHEM **Case No.:** LB86776 **SAS No.:** LB86776
Matrix: WATER **Sample ID:** I2559-01 **Client ID:** FINALEFFLUENT-19B(GRAB)DUP
Percent Solids for Sample: 0 **Duplicate ID** I2559-01DUP **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	48.7	OR	48.7	OR	0		

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DUPLICATE SAMPLE SUMMARY

Client: LB86776 **Level:** LOW **SDG No.:** LB86776
Contract: _____ **Lab Code:** CHEM **Case No.:** LB86776 **SAS No.:** LB86776
Matrix: WATER **Sample ID:** I2559-01MS **Client ID:** FINALEFFLUENT-19B(GRAB)MSD
Percent Solids for Sample: 0 **Duplicate ID** I2559-01MSD **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	48.7	OR	48.7	OR	0		

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DUPLICATE SAMPLE SUMMARY

Client: LB86776 **Level:** LOW **SDG No.:** LB86776
Contract: _____ **Lab Code:** CHEM **Case No.:** LB86776 **SAS No.:** LB86776
Matrix: WATER **Sample ID:** I2559-01MSDL **Client ID:** FINALEFFLUENT-19B(GRAB)MSDDL
Percent Solids for Sample: 0 **Duplicate ID** I2559-01MSDDL **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	25.1	D	25.1	D	0		

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DUPLICATE SAMPLE SUMMARY

Client: LB86776 **Level:** LOW **SDG No.:** LB86776
Contract: **Lab Code:** CHEM **Case No.:** LB86776 **SAS No.:** LB86776
Matrix: WATER **Sample ID:** I2559-01 **Client ID:** FINALEFFLUENT-19B(GRAB)DUP
Percent Solids for Sample: 0 **Duplicate ID** I2559-01DUP **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	48.7	OR	48.7	OR	0		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB86776 **Level:** LOW **SDG No.:** LB86776
Contract: _____ **Lab Code:** CHEM **Case No.:** LB86776 **SAS No.:** LB86776
Matrix: WATER **Sample ID:** I2559-01DL **Client ID:** FINALEFFLUENT-19B(GRAB)DUPDL
Percent Solids for Sample: 0 **Duplicate ID** I2559-01DUPDL **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	26.9	D	27.3	D	1		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB86776 **Level:** LOW **SDG No.:** LB86776
Contract: _____ **Lab Code:** CHEM **Case No.:** LB86776 **SAS No.:** LB86776
Matrix: WATER **Sample ID:** I2559-01MS **Client ID:** FINALEFFLUENT-19B(GRAB)MSD
Percent Solids for Sample: 0 **Duplicate ID** I2559-01MSD **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	48.7	OR	48.7	OR	0		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB86776 **Level:** LOW **SDG No.:** LB86776
Contract: _____ **Lab Code:** CHEM **Case No.:** LB86776 **SAS No.:** LB86776
Matrix: WATER **Sample ID:** I2559-01MSDL **Client ID:** FINALEFFLUENT-19B(GRAB)MSDDL
Percent Solids for Sample: 0 **Duplicate ID** I2559-01MSDDL **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	25.1	D	25.1	D	0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86776

SDG No.: LB86776

Contract:

Lab Code: CHEM

Case No.: LB86776

SAS No.: LB86776

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB98137BS Ammonia as N	mg/L	1	1		100	80 - 120	