

Daily Analysis Runlog For Sequence/QC Batch ID # LB92542

Review By		Review On				
SubDirectory		LB92542		Test : Ammonia		
STD. NAME		STD REF.#				
ICAL Standard		WP60842				
ICV Standard		WP60844				
CCV Standard		WP60843				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP60840				
Chk Standard		WP57031,WP60781,WP60619,WP60620				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.1PPM	0.1PPM	CAL1	01/10/18 08:40		OK
2	0.2PPM	0.2PPM	CAL2	01/10/18 08:40		OK
3	0.4PPM	0.4PPM	CAL3	01/10/18 08:40		OK
4	1.0PPM	1.0PPM	CAL4	01/10/18 08:40		OK
5	1.3PPM	1.3PPM	CAL5	01/10/18 08:40		OK
6	2.0PPM	2.0PPM	CAL6	01/10/18 08:40		OK
7	ICV1	ICV1	ICV	01/10/18 09:09		OK
8	ICB1	ICB1	ICB	01/10/18 09:09		OK
9	CCV1	CCV1	CCV	01/10/18 09:09		OK
10	CCB1	CCB1	CCB	01/10/18 09:09		OK
11	PB105543BL	PB105543BL	MB	01/10/18 09:09		OK
12	PB105543BS	PB105543BS	LCS	01/10/18 09:09		OK
13	J1054-02	FINAL-EFFLUENT-19	SAM	01/10/18 09:09	High	Dilution
14	J1054-02DUP	FINAL-EFFLUENT-19	DUP	01/10/18 09:09	High	Dilution
15	J1054-02MS	FINAL-EFFLUENT-19	MS	01/10/18 09:16	High	Dilution
16	J1054-02MSD	FINAL-EFFLUENT-19	MSD	01/10/18 09:16	High	Dilution
17	CCV2	CCV2	CCV	01/10/18 09:16		OK
18	CCB2	CCB2	CCB	01/10/18 09:16		OK
19	J1054-02DL	FINAL-EFFLUENT-19	SAM	01/10/18 09:45	50X Report	Confirms
20	J1054-02DUPDL	FINAL-EFFLUENT-19	DUP	01/10/18 09:45	50X Report ,	Confirms
21	J1054-02MSDL	FINAL-EFFLUENT-19	MS	01/10/18 09:45	50X Report , MS recovery Fail	Confirms



Instrument ID : KONELAB

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

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SubDirectory		Test : Ammonia				
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STD. NAME		STD REF.#				
ICAL Standard		WP60842				
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CCV Standard		WP60843				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP60840				
Chk Standard		WP57031,WP60781,WP60619,WP60620				
22	J1054-02MSDDL	FINAL-EFFLUENT-1	MSD	01/10/18 09:45	50X Report , MSD recovery Fail	Confirms
23	CCV4	CCV4	CCV	01/10/18 09:45		OK
24	CCB4	CCB4	CCB	01/10/18 09:45		OK



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Report of Analysis

Client:		Date Collected:	1/8/2018 12:00:00 AM
Project:	LB92542	Date Received:	1/8/2018 12:00:00 AM
Client Sample ID:	FINAL-EFFLUENT-19B	SDG No.:	LB92542
Lab Sample ID:	J1054-02	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	52.8	OR	1	0.034		0.1	mg/L	01/09/2018	01/10/2018	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	1/8/2018 12:00:00 AM
Project:	LB92542	Date Received:	1/8/2018 12:00:00 AM
Client Sample ID:	FINAL-EFFLUENT-19BDL	SDG No.:	LB92542
Lab Sample ID:	J1054-02DL	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	31.2	D	50	1.7		5	mg/L	01/09/2018	01/10/2018	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	1/8/2018 12:00:00 AM
Project:	LB92542	Date Received:	1/8/2018 12:00:00 AM
Client Sample ID:	FINAL-EFFLUENT-19BDL	SDG No.:	LB92542
Lab Sample ID:	J1054-02DL	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

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92542

SDG No.: LB92542

Contract: _____ Lab Code: CHEM

Case No.: LB92542

SAS No.: LB92542

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	1	1	100	0	90 - 110		01/10/2018	09:09	LB92542



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92542

SDG No.: LB92542

Contract: _____ Lab Code: CHEM

Case No.: LB92542

SAS No.: LB92542

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	0.96	1	96	0	90 - 110		01/10/2018	09:09	LB92542
CCV2	Ammonia as N	1	1	100	0	90 - 110		01/10/2018	09:16	LB92542
CCV4	Ammonia as N	1	1	100	0	90 - 110		01/10/2018	09:45	LB92542



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92542

SDG No.: LB92542

Contract:

Lab Code: CHEM

Case No.: LB92542

SAS No.: LB92542

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Ammonia as N	0.019	+/-0.1	U		0.1		01/10/2018	09:09	LB92542



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92542

SDG No.: LB92542

Contract:

Lab Code: CHEM

Case No.: LB92542

SAS No.: LB92542

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Ammonia as N	0.017	+/-0.1	U			0.1	01/10/2018	09:09	LB92542
CCB2	Ammonia as N	0.024	+/-0.1	U			0.1	01/10/2018	09:16	LB92542
CCB4	Ammonia as N	0.021	+/-0.1	U			0.1	01/10/2018	09:45	LB92542



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92542

SDG No.: LB92542

Contract: Lab Code: CHEM

Case No.: LB92542

SAS No.: LB92542

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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GENCHEM
- 3b -
PREPARATION BLANK SUMMARY

Client: LB92542

SDG No.: LB92542

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
PB105543BL	Ammonia as N	WATER 0.02	<0.1	Batch Number: U		PB105543 0.1		Prep Date: 01/10/2018	01/09/2018 09:09	LB92542



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB92542 level: low sdg no.: LB92542
contract: lab code: CHEM case no.: LB92542 sas no.: LB92542
matrix: WATER sample id: J1054-02 client id: FINAL-EFFLUENT-19BMS
Percent Solids for Sample: 0 Spiked ID: J1054-02MS 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	52.8	OR	52.8	OR	1	0	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB92542 level: low sdg no.: LB92542
contract: lab code: CHEM case no.: LB92542 sas no.: LB92542
matrix: WATER sample id: J1054-02 client id: FINAL-EFFLUENT-19BMSD
Percent Solids for Sample: 0 Spiked ID: J1054-02MSD 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	52.8	OR	52.8	OR	1	0	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB92542 level: low sdg no.: LB92542
contract: lab code: CHEM case no.: LB92542 sas no.: LB92542
matrix: WATER sample id: J1054-02DL client id: FINAL-EFFLUENT-19BMSDDL
Percent Solids for Sample: 0 Spiked ID: J1054-02MSDDL 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	31.7	D	31.2	D	1	50	*	



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB92542 level: low sdg no.: LB92542
contract: lab code: CHEM case no.: LB92542 sas no.: LB92542
matrix: WATER sample id: J1054-02DL client id: FINAL-EFFLUENT-19BMSDL
Percent Solids for Sample: 0 Spiked ID: J1054-02MSDL 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	32.9	D	31.2	D	1	170	*	

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- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB92542 **Level:** LOW **SDG No.:** LB92542
Contract: _____ **Lab Code:** CHEM **Case No.:** LB92542 **SAS No.:** LB92542
Matrix: WATER **Sample ID:** J1054-02 **Client ID:** FINAL-EFFLUENT-19BDUP
Percent Solids for Sample: 0 **Duplicate ID** J1054-02DUP **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	52.8	OR	52.8	OR	0		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB92542 **Level:** LOW **SDG No.:** LB92542
Contract: _____ **Lab Code:** CHEM **Case No.:** LB92542 **SAS No.:** LB92542
Matrix: WATER **Sample ID:** J1054-02DL **Client ID:** FINAL-EFFLUENT-19BDUPDL
Percent Solids for Sample: 0 **Duplicate ID** J1054-02DUPDL **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	31.2	D	31.8	D	2		



GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB92542 Level: LOW SDG No.: LB92542
Contract: _____ Lab Code: CHEM Case No.: LB92542 SAS No.: LB92542
Matrix: WATER Sample ID: J1054-02MS Client ID: FINAL-EFFLUENT-19BMSD
Percent Solids for Sample: 0 Duplicate ID J1054-02MSD 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	52.8	OR	52.8	OR	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: LB92542 **Level:** LOW **SDG No.:** LB92542
Contract: _____ **Lab Code:** CHEM **Case No.:** LB92542 **SAS No.:** LB92542
Matrix: WATER **Sample ID:** J1054-02MSDL **Client ID:** FINAL-EFFLUENT-19BMSDDL
Percent Solids for Sample: 0 **Duplicate ID** J1054-02MSDDL **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	32.9	D	31.7	D	4		



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- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92542

SDG No.: LB92542

Contract:

Lab Code: CHEM

Case No.: LB92542

SAS No.: LB92542

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB105543BS Ammonia as N	mg/L	1	1.1		110	80 - 120	