

Daily Analysis Runlog For Sequence/QC Batch ID # LB90551

Review By

SubDirectory

Review On

Test : Ammonia

LB90551

STD. NAME		STD REF.#				
ICAL Standard		WP58524				
ICV Standard		WP58525				
CCV Standard		WP58526				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP57031,WP58272,WP58041,WP58040				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.1PPM	0.1PPM	CAL1	10/04/17 09:41		OK
2	0.2PPM	0.2PPM	CAL2	10/04/17 09:41		OK
3	0.4PPM	0.4PPM	CAL3	10/04/17 09:41		OK
4	1.0PPM	1.0PPM	CAL4	10/04/17 09:41		OK
5	1.3PPM	1.3PPM	CAL5	10/04/17 09:41		OK
6	2.0PPM	2.0PPM	CAL6	10/04/17 09:41		OK
7	ICV1	ICV1	ICV	10/04/17 10:22		OK
8	ICB1	ICB1	ICB	10/04/17 10:22		OK
9	CCV1	CCV1	CCV	10/04/17 10:22		OK
10	CCB1	CCB1	CCB	10/04/17 10:22		OK
11	PB102838BL	PB102838BL	MB	10/04/17 10:22		OK
12	PB102838BS	PB102838BS	LCS	10/04/17 10:22		OK
13	I5543-01	MW-1	SAM	10/04/17 10:33		OK
14	I5543-02	MW-3	SAM	10/04/17 10:33	High	Dilution
15	I5543-03	MW-4	SAM	10/04/17 10:33	High	Dilution
16	I5543-04	MW-2	SAM	10/04/17 10:33	High	Dilution
17	PB102890BL	PB102890BL	MB	10/04/17 10:33		OK
18	CCV2	CCV2	CCV	10/04/17 10:33		OK
19	CCB2	CCB2	CCB	10/04/17 10:33		OK
20	PB102890BS	PB102890BS	LCS	10/04/17 10:33		OK
21	I5598-01	FK-PS-01-017	SAM	10/04/17 10:33		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB90551

Review By		Review On				
SubDirectory		LB90551		Test : Ammonia		
STD. NAME		STD REF.#				
ICAL Standard		WP58524				
ICV Standard		WP58525				
CCV Standard		WP58526				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP57031,WP58272,WP58041,WP58040				
22	I5601-01	FK-PS-01-016	SAM	10/04/17 10:42		OK
23	I5605-01	FK-PS-01-015	SAM	10/04/17 10:42		OK
24	CCV3	CCV3	CCV	10/04/17 10:42		OK
25	CCB3	CCB3	CCB	10/04/17 10:42		OK
26	I5543-01DUP	MW-1DUP	DUP	10/04/17 11:29		OK
27	I5543-01MS	MW-1MS	MS	10/04/17 11:29		OK
28	I5543-01MSD	MW-1MSD	MSD	10/04/17 11:29		OK
29	I5598-01DUP	FK-PS-01-017DUP	DUP	10/04/17 11:29		OK
30	I5543-02DL	MW-3DL	SAM	10/04/17 11:29	10X Dilution	Confirms
31	I5543-03DL	MW-4DL	SAM	10/04/17 11:29	10X Dilution	Confirms
32	I5543-04DL	MW-2DL	SAM	10/04/17 11:29	10X Dilution	Confirms
33	I5598-01MS	FK-PS-01-017MS	MS	10/04/17 11:35		OK
34	I5598-01MSD	FK-PS-01-017MSD	MSD	10/04/17 11:35		OK
35	CCV4	CCV4	CCV	10/04/17 11:35		OK
36	CCB4	CCB4	CCB	10/04/17 11:35		OK



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Report of Analysis

Client:		Date Collected:	9/27/2017 12:00:00 AM
Project:	LB90551	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	MW-1	SDG No.:	LB90551
Lab Sample ID:	I5543-01	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	0.073	J	1	0.034		0.1	mg/L	10/02/2017	10/04/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	9/27/2017 12:00:00 AM
Project:	LB90551	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	MW-3	SDG No.:	LB90551
Lab Sample ID:	I5543-02	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	6.4	OR	1	0.034		0.1	mg/L	10/02/2017	10/04/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	9/27/2017 12:00:00 AM
Project:	LB90551	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	MW-3DL	SDG No.:	LB90551
Lab Sample ID:	I5543-02DL	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	6	D	10	0.34		1	mg/L	10/02/2017	10/04/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	9/27/2017 12:00:00 AM
Project:	LB90551	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	MW-4	SDG No.:	LB90551
Lab Sample ID:	I5543-03	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	6.7	OR	1	0.034		0.1	mg/L	10/02/2017	10/04/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	9/27/2017 12:00:00 AM
Project:	LB90551	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	MW-4DL	SDG No.:	LB90551
Lab Sample ID:	I5543-03DL	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	6.2	D	10	0.34		1	mg/L	10/02/2017	10/04/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	9/27/2017 12:00:00 AM
Project:	LB90551	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	MW-2	SDG No.:	LB90551
Lab Sample ID:	I5543-04	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	13.8	OR	1	0.034		0.1	mg/L	10/02/2017	10/04/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	9/27/2017 12:00:00 AM
Project:	LB90551	Date Received:	9/29/2017 12:00:00 AM
Client Sample ID:	MW-2DL	SDG No.:	LB90551
Lab Sample ID:	I5543-04DL	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	12.8	D	10	0.34		1	mg/L	10/02/2017	10/04/2017	SM4500-NH3

Report of Analysis

Client:		Date Collected:	10/2/2017 12:00:00 AM
Project:	LB90551	Date Received:	10/2/2017 12:00:00 AM
Client Sample ID:	FK-PS-01-017	SDG No.:	LB90551
Lab Sample ID:	I5598-01	Matrix:	Solid
Level (low/med):	low	% Solid:	84.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	8.5		1	1.9		5.7	mg/Kg	10/03/2017	10/04/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	10/2/2017 12:00:00 AM
Project:	LB90551	Date Received:	10/2/2017 12:00:00 AM
Client Sample ID:	FK-PS-01-016	SDG No.:	LB90551
Lab Sample ID:	I5601-01	Matrix:	Solid
Level (low/med):	low	% Solid:	90

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	7.7		1	1.8		5.3	mg/Kg	10/03/2017	10/04/2017	SM4500-NH3



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Report of Analysis

Client:		Date Collected:	10/2/2017 12:00:00 AM
Project:	LB90551	Date Received:	10/2/2017 12:00:00 AM
Client Sample ID:	FK-PS-01-015	SDG No.:	LB90551
Lab Sample ID:	I5605-01	Matrix:	Solid
Level (low/med):	low	% Solid:	94.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Ammonia as N	8.8		1	1.7		5	mg/Kg	10/03/2017	10/04/2017	SM4500-NH3



Report of Analysis

Client:		Date Collected:	10/2/2017 12:00:00 AM
Project:	LB90551	Date Received:	10/2/2017 12:00:00 AM
Client Sample ID:	FK-PS-01-015	SDG No.:	LB90551
Lab Sample ID:	I5605-01	Matrix:	Solid
Level (low/med):	low	% Solid:	94.7

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: LB90551

SDG No.: LB90551

Contract: _____ Lab Code: CHEM

Case No.: LB90551

SAS No.: LB90551

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	0.91	1	91	0	90 - 110		10/04/2017	10:22	LB90551
CCV2	Ammonia as N	0.96	1	96	0	90 - 110		10/04/2017	10:33	LB90551
CCV3	Ammonia as N	0.95	1	95	0	90 - 110		10/04/2017	10:42	LB90551
CCV4	Ammonia as N	1	1	100	0	90 - 110		10/04/2017	11:35	LB90551



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90551 **SDG No.:** LB90551
Contract: **Lab Code:** CHEM **Case No.:** LB90551 **SAS No.:** LB90551

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Ammonia as N	0.028	+/-0.1	U		0.1		10/04/2017	10:22	LB90551



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90551

SDG No.: LB90551

Contract:

Lab Code: CHEM

Case No.: LB90551

SAS No.: LB90551

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Ammonia as N	0.03	+/-0.1	U			0.1	10/04/2017	10:22	LB90551
CCB2	Ammonia as N	0.031	+/-0.1	U			0.1	10/04/2017	10:33	LB90551
CCB3	Ammonia as N	0.036	+/-0.1	J			0.1	10/04/2017	10:42	LB90551
CCB4	Ammonia as N	0.037	+/-0.1	J			0.1	10/04/2017	11:35	LB90551



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90551

SDG No.: LB90551

Contract: Lab Code: CHEM

Case No.: LB90551

SAS No.: LB90551

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: LB90551

SDG No.: LB90551

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
PB102838BL	Ammonia as N	WATER		Batch Number:		PB102838		Prep Date:	10/02/2017	
		0.029	<0.1	U		0.1		10/04/2017	10:22	LB90551
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB102890BL	Ammonia as N	SOLID		Batch Number:		PB102890		Prep Date:	10/03/2017	
		2.4	<4.9	J		4.9		10/04/2017	10:33	LB90551



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB90551 level: low sdg no.: LB90551
contract: lab code: CHEM case no.: LB90551 sas no.: LB90551
matrix: WATER sample id: I5543-01 client id: MW-1MS
Percent Solids for Sample: 0 Spiked ID: I5543-01MS 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	0.8		0.073	J	1	73	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB90551 level: low sdg no.: LB90551
contract: lab code: CHEM case no.: LB90551 sas no.: LB90551
matrix: WATER sample id: I5543-01 client id: MW-1MSD
Percent Solids for Sample: 0 Spiked ID: I5543-01MSD 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	0.86		0.073	J	1	79		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB90551 level: low sdg no.: LB90551
contract: lab code: CHEM case no.: LB90551 sas no.: LB90551
matrix: Solid sample id: I5598-01 client id: FK-PS-01-017MS
Percent Solids for Sample: 84.7 Spiked ID: I5598-01MS Percent Solids for Spike Sample: 84.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Ammonia as N	mg/Kg	75 - 125	61.2		8.5		57.9	91		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB90551 level: low sdg no.: LB90551
contract: lab code: CHEM case no.: LB90551 sas no.: LB90551
matrix: Solid sample id: I5598-01 client id: FK-PS-01-017MSD
Percent Solids for Sample: 84.7 Spiked ID: I5598-01MSD Percent Solids for Spike Sample: 84.7

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Ammonia as N	mg/Kg	75 - 125	59.3		8.5		56.8	89		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90551 **Level:** LOW **SDG No.:** LB90551
Contract: **Lab Code:** CHEM **Case No.:** LB90551 **SAS No.:** LB90551
Matrix: WATER **Sample ID:** I5543-01 **Client ID:** MW-1DUP
Percent Solids for Sample: 0 **Duplicate ID** I5543-01DUP **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	0.073	J	0.095	J	26	*	

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90551 **Level:** LOW **SDG No.:** LB90551
Contract: **Lab Code:** CHEM **Case No.:** LB90551 **SAS No.:** LB90551
Matrix: WATER **Sample ID:** I5543-01MS **Client ID:** MW-1MSD
Percent Solids for Sample: 0 **Duplicate ID** I5543-01MSD **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	0.8		0.86		7		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90551 **Level:** LOW **SDG No.:** LB90551
Contract: **Lab Code:** CHEM **Case No.:** LB90551 **SAS No.:** LB90551
Matrix: Solid **Sample ID:** I5598-01 **Client ID:** FK-PS-01-017DUP
Percent Solids for Sample: 84.7 **Duplicate ID** I5598-01DUP **Percent Solids for Spike Sample:** 84.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Ammonia as N	mg/Kg	20	8.5			8	6		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90551 **Level:** LOW **SDG No.:** LB90551
Contract: **Lab Code:** CHEM **Case No.:** LB90551 **SAS No.:** LB90551
Matrix: Solid **Sample ID:** I5598-01MS **Client ID:** FK-PS-01-017MSD
Percent Solids for Sample: 84.7 **Duplicate ID** I5598-01MSD **Percent Solids for Spike Sample:** 84.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Ammonia as N	mg/Kg	20	61.2		59.3		3		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB90551

SDG No.: LB90551

Contract:

Lab Code: CHEM

Case No.: LB90551

SAS No.: LB90551

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB102838BS Ammonia as N	mg/L	1	0.93		93	80 - 120	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB90551

SDG No.: LB90551

Contract:

Lab Code: CHEM

Case No.: LB90551

SAS No.: LB90551

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB102890BS Ammonia as N	mg/Kg	48.5	45.1		93	80 - 120	