

Lab Sample ID:

J1161-07

Report of Analysis

Client: Date Collected: 1/16/2018 12:00:00 AM

Project: LB93188 Date Received: 1/16/2018 12:00:00 AM

Matrix:

WATER

Client Sample ID: LOD-MDL-WATER-01-QT1-2018 SDG No.: LB93188

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

Cas	Parameter	Conc.	Qua. DI	MDL	LOD LOQ/CRQ	L Units Prep Date	Date Ana. Ana Met.
	Ammonia as N	0.12	1	0.034	0.1	mg/I 02/08/201	8 02/09/2018 SM4500-NH3



Client: Date Collected: 1/16/2018 12:00:00 AM

Project: LB93188 Date Received: 1/16/2018 12:00:00 AM

Client Sample ID: MDL-WATER-03-QT1-2018 SDG No.: LB93188
Lab Sample ID: J1161-09 Matrix: WATER

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

Cas	Parameter	Conc.	Qua. D	F MDL	LOD LOQ / CRQL	Units Prep Date	Date Ana. Ana Met.
	Ammonia as N	0.13	1	0.034	0.1	mg/I 02/08/2018	02/09/2018 SM4500-NH3



Client: Date Collected: 2/5/2018 12:00:00 AM

Project: LB93188 Date Received: 2/7/2018 12:00:00 AM

Client Sample ID: COMP-1 SDG No.: LB93188

Lab Sample ID: J1475-11 Matrix: Solid

Level (low/med): low % Solid: 79.4

Cas	Parameter	Conc.	Qua. DF	MDL	LOD LOQ	/ CRQL Units Prep Date	Date Ana. Ana Met.
	Ammonia as N	87.2	1	2.1	6.2	mg/Kg 02/08/2018	02/09/2018 SM4500-NH3



Client: Date Collected: 2/5/2018 12:00:00 AM

Project: LB93188 Date Received: 2/7/2018 12:00:00 AM

Client Sample ID: COMP-2 SDG No.: LB93188
Lab Sample ID: J1475-12 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	19.6		1	2		5.8	mg/Kg 02/08/2018	02/09/2013	8 SM4500-NH3



Client: Date Collected: 2/5/2018 12:00:00 AM

Project: LB93188 Date Received: 2/7/2018 12:00:00 AM

Client Sample ID: COMP-3 SDG No.: LB93188
Lab Sample ID: J1475-13 Matrix: Solid

Level (low/med): low % Solid: 81.4

Cas	Parameter	Conc. Q	Qua. DF	MDL	LOD LOQ/CRO	L Units Prep Date	Date Ana. Ana Met.
	Ammonia as N	59.2	1	2	6	mg/Kg 02/08/2018	02/09/2018 SM4500-NH3



Level (low/med):

low

Report of Analysis

Client: Date Collected:

Project: LB93188 Date Received:

Client Sample ID: MDL-SOIL-04 SDG No.: LB93188

Lab Sample ID: MDL-SOIL-04 Matrix: Solid

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units Prep Date	Date Ana.	Ana Met.
	Ammonia as N	0.1		1	0.034		0.1	mg/Kg	02/09/2018	8 SM4500-NH3

% Solid:

100



Client: Date Collected:

Project: LB93188 Date Received:

Client Sample ID: MDL-SOIL-05 SDG No.: LB93188

Lab Sample ID: MDL-SOIL-05 Matrix: Solid

Level (low/med): low % Solid: 100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units Prep Date	Date Ana.	Ana Met.
	Ammonia as N	0.099	J	1	0.034		0.1	mg/Kg	02/09/201	8 SM4500-NH3



Lab Sample ID:

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax: 908 789 8922

Report of Analysis

Matrix:

Solid

Client: Date Collected:

MDL-SOIL-05

Project: LB93188 Date Received:

Client Sample ID: MDL-SOIL-05 SDG No.: LB93188

Level (low/med): low % Solid: 100

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

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



LB93188

Ammonia as N

Client:

ICV1

GENCHEM

- 2a -

0.95

INITIAL AND CONTINUING CALIBRATION VERIFICATION

SDG No.: LB93188

90 - 110

10:16 LB93188

02/09/2018

Sample ID	Analyte			Recovery	Qual	Window (%R)	M	Date	Time	Number
		Result mg/L	True Value	%		Acceptance		Analysis	Analysis	Run
Continuing Cal	ibration Source:									
Initial Calibrati	ion Source:									
Contract:		Lab C	Code: CHI	EM	Cas	se No.: <u>LB93188</u>		SAS	No.: <u>LB93</u>	3188

95

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- 2a - INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93188			SDG No.:	LB93188	
Contract:	Lab Code:	СНЕМ	Case No.:	LB93188	SAS No.: <u>LB93188</u>
Initial Calibration Source:		_			
Continuing Calibration Source:					

		Result mg/L	True Value	%		Acceptance		Analysis	Analysis	Run
Sample ID	Analyte			Recovery	Qual	Window (%R)	M	Date	Time	Number
CCV1	Ammonia as N	0.96	1	96		90 - 110		02/09/2018	10:16	LB93188
CCV2	Ammonia as N	0.93	1	93		90 - 110		02/09/2018	10:26	LB93188
CCV3	Ammonia as N	0.98	1	98		90 - 110		02/09/2018	11:18	LB93188



- 3a INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93188 SDG No.: LB93188

 Contract:
 Lab Code:
 CHEM
 Case No.:
 LB93188
 SAS No.:
 LB93188

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Ammonia as N	0.018	+/-0.1	U		0.	1	02/09/2018	10:16	LB93188



- 3a INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93188 SDG No.: LB93188

 Contract:
 Lab Code:
 CHEM
 Case No.:
 LB93188
 SAS No.:
 LB93188

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual LO	D CRQL	Analysi M Date	s Analysis Time	Run Number
CCB1	Ammonia as N	0.016	+/-0.1	U	0.1	02/09/2	2018 10:16	LB93188
CCB2	Ammonia as N	0.016	+/-0.1	U	0.1	02/09/2	2018 10:26	LB93188
CCB3	Ammonia as N	0.03	+/-0.1	U	0.1	02/09/2	2018 11:18	LB93188



- 3a INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	LB93188				SDG	No.:	LB93188			
Contract:		Lab Code:	CHEM		Case	No.:	LB93188	_	SAS No.: LB	93188
		Result	Acceptance	Conc				Analysis	Analysis	Run
Sample ID	Analyte	mg/L	Limit	Qual	LOD	CRQL	M	Date	Time	Number



GENCHEM - 3b PREPARATION BLANK SUMMARY

Client: LB93188 **SDG No.:** LB93188

Instrument: Konelab 20

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB106412BL		SOLID		Batch Nu	mber:	PB106412		Prep Date:	02/08/20)18
	Ammonia as N	0.77	<4.9	U		4.9		02/09/2018	10:16	LB93188
		Result	Acceptance	Conc	LOD	CRQL		Analysis A	Analysis	
Sample ID	Analyte	(mg/L)	Limit	Qual	mg/L	mg/L	M	Date	Time	Run
PB106418BL		WATER		Batch Nu	mber:	PB106418		Prep Date:	02/08/20)18
	Ammonia as N	0.018	< 0.1	U		0.1		02/09/2018	10:26	LB93188



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MATRIX SPIKE SUMMARY

client:	LB93188		level:	:	low		sdg no.:	LB93188		_	
contract:			lab co	ode:	CHEM		case no.:	LB93188	sa	s no.:	LB93188
matrix:	Solid		sample id:	:	J1475-11		_ client id:	COMP-1MS		_	
Percent So	lids for Sample:	79.4	Spiked ID):	J1475-11M	S	Percent Solid	s for Spike Sa	mple:	79	9.4
		Acceptance	Spiked		Sample		Spike	%			
Analyte	Units	Limit %R	Result	C	Result	C	Added	Recovery	Qual	M	
Ammonia as	N mg/Kg	75 - 125	131	OR	87.2		61.1	72	*		



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MATRIX SPIKE DUPLICATE SUMMARY

client:	LB93188		level:	low		sdg no.:	LB93188		_		
contract:			lab code	e: <u>CHEM</u>	1	case no.:	LB93188	sa	s no.:	LB93188	
matrix:	Solid		sample id:	J1475-11		_ client id:	COMP-1MS	D	_		
Percent Sol	ids for Sample:	79.4	Spiked ID:	J1475-111	MSD	Percent Solid	ls for Spike Sa	mple:	79	0.4	
		Acceptance	MSD	Sample		Spike	%				
Analyte	Units	Limit %R	Result C	Result	C	Added	Recovery	Qual	M		
Ammonia as	N mg/Kg	75 - 125	131 OR	87.2		62.3	70	*			



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DUPLICATE SAMPLE SUMMARY

Client:	LB93188		Level: L	OW	SDG	No.:	LB93188		_		
Contract:			Lab Code:	CHEM	Case	No.:	LB93188	SA	AS No.:	LB93188	
Matrix:	Solid		Sample ID: J1	1475-11	Client II) :	COMP-1DU	P	_		
Percent So	lids for Sample:	79.4	Duplicate ID J	1475-11DUP	Percent	Solids	for Spike Sa	mple:	79	.4	
		Acceptance	Sample		Duplicate						
Analyte	Units	Limit	Result	C	Result	C	RPD	Qual	M		_
Ammonia as	N mg/Kg	20	87.2		87.3		0				_



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DUPLICATE SAMPLE SUMMARY

Client: L	B93188		Level: I	LOW	SDG	No.:	LB93188		_	
Contract:			Lab Code:	СНЕМ	Case	No.:	LB93188	S A	AS No.:	LB93188
Matrix:	Solid		Sample ID: J	11475-11MS	Client II):	COMP-1MS	D	_	
Percent Solid	ls for Sample:	79.4	Duplicate ID J	11475-11MSD	Percent	Solids	for Spike Sa	mple:	79.	4
		Acceptance	Sample		Duplicate					
Analyte	Units	Limit	Result	C	Result	C	RPD	Qual	M	
Ammonia as N	mσ/K σ	20	131	OR	131	OR	0			



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LABORATORY CONTROL SAMPLE SUMMARY

Client:	LB93188			SDG No.:	LB93188			
Contract:		Lab Code:	CHEM	Case No.:	LB93188	SAS No.:	LB93188	

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M	
PB106412BS	Omits	True value	Result		Recovery	Limits	IVI	
Ammonia as N	mg/Kg	49	47.6		97.1	80 - 120		



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LABORATORY CONTROL SAMPLE SUMMARY

Client:	LB93188			SDG No.:	LB93188			
Contract:		Lab Code:	CHEM	Case No.:	LB93188	SAS No.:	LB93188	

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB106418BS					<u> </u>		
Ammonia as N	mg/L	1	0.95		95	80 - 120	



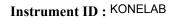


284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Daily Analysis Runlog For Sequence/QCBatch ID # LB93188

Review By		Review O	n			
SubDirectory I	B93188	Test: A	Ammonia			
STD. NAME	STD REF.#					
ICAL Standard	WP61746					
ICV Standard	WP61748					
CCV Standard	WP61747					
ICSA Standard	N/A					
CRI Standard	N/A					
LCS Standard	WP58910					
Chk Standard	WP61582,WP60781	WP61174,WP61175	5			

Sr#	Sampleld	ClientID	QcType	Date	Comment	Status
1	0.1PPM	0.1PPM	CAL1	02/09/18 09:28		ОК
2	0.2PPM	0.2PPM	CAL2	02/09/18 09:28		ОК
3	0.4PPM	0.4PPM	CAL3	02/09/18 09:28		ОК
4	1.0PPM	1.0PPM	CAL4	02/09/18 09:28		ОК
5	1.3PPM	1.3PPM	CAL5	02/09/18 09:28		ОК
6	2.0PPM	2.0PPM	CAL6	02/09/18 09:28		OK
7	ICV1	ICV1	ICV	02/09/18 10:16		OK
8	ICB1	ICB1	ICB	02/09/18 10:16		OK
9	CCV1	CCV1	CCV	02/09/18 10:16		OK
10	CCB1	CCB1	ССВ	02/09/18 10:16		ок
11	PB106412BL	PB106412BL	MB	02/09/18 10:16		ок
12	PB106412BS	PB106412BS	LCS	02/09/18 10:16		ок
13	J1475-12	COMP-2	SAM	02/09/18 10:26		ОК
14	J1475-13	COMP-3	SAM	02/09/18 10:26		OK
15	MDL-SOIL-04	MDL-SOIL-04	SAM	02/09/18 10:26		ок
16	MDL-SOIL-05	MDL-SOIL-05	SAM	02/09/18 10:26		ок
17	CCV2	CCV2	CCV	02/09/18 10:26		ок
18	CCB2	CCB2	ССВ	02/09/18 10:26		ОК
19	PB106418BL	PB106418BL	MB	02/09/18 10:26		ОК
20	PB106418BS	PB106418BS	LCS	02/09/18 10:26		ОК
21	J1161-07	LOD-MDL-WATER-0	SAM	02/09/18 10:26		ОК





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Daily Analysis Runlog For Sequence/QCBatch ID # LB93188

Revi	ew By		Review	On				
SubDirectory LB93188			Test :	Ammonia				
STD. NAME		STD REF.#						
ICAL Standard		WP61746						
ICV Standard		WP61748						
CCV Standard		WP61747						
		N/A						
		N/A						
LCS Standard Chk Standard		WP58910						
Chk St	andard	WP61582,WP60	P61582,WP60781,WP61174,WP61175					
22	J1161-09	MDL-W	/ATER-03-QT	SAM	02/09/18 10:26			ок
23	J1475-11	COMP-	-1	SAM	02/09/18 11:18			ОК
24	J1475-11DUP	COMP-	-1DUP	DUP	02/09/18 11:18			ОК
25	J1475-11MS	COMP-	COMP-1MS		02/09/18 11:18			ОК
26	J1475-11MSD	COMP-	COMP-1MSD		02/09/18 11:18			ок
27	CCV3	CCV3		CCV	02/09/18 11:18			ок
28	ССВ3	ССВЗ		ССВ	02/09/18 11:18			ОК