

Daily Analysis Runlog For Sequence/QC Batch ID # LB90325

| | | | | | | |
|---------------|-------------|---------------------------------|--------|----------------|---------|--------|
| Review By | | Review On | | | | |
| SubDirectory | | LB90325 | | Test : Ammonia | | |
| STD. NAME | | STD REF.# | | | | |
| ICAL Standard | | WP58269 | | | | |
| ICV Standard | | WP58271 | | | | |
| CCV Standard | | WP58270 | | | | |
| 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 | 09/26/17 11:56 | | OK |
| 2 | 0.2PPM | 0.2PPM | CAL2 | 09/26/17 11:56 | | OK |
| 3 | 0.4PPM | 0.4PPM | CAL3 | 09/26/17 11:56 | | OK |
| 4 | 1.0PPM | 1.0PPM | CAL4 | 09/26/17 11:57 | | OK |
| 5 | 1.3PPM | 1.3PPM | CAL5 | 09/26/17 11:57 | | OK |
| 6 | 2.0PPM | 2.0PPM | CAL6 | 09/26/17 11:57 | | OK |
| 7 | ICV1 | ICV1 | ICV | 09/26/17 12:44 | | OK |
| 8 | ICB1 | ICB1 | ICB | 09/26/17 12:44 | | OK |
| 9 | CCV1 | CCV1 | CCV | 09/26/17 12:44 | | OK |
| 10 | CCB1 | CCB1 | CCB | 09/26/17 12:44 | | OK |
| 11 | PB102596BL | PB102596BL | MB | 09/26/17 12:44 | | OK |
| 12 | PB102596BS | PB102596BS | LCS | 09/26/17 12:44 | | OK |
| 13 | I5388-01 | FK-PS-01-016 | SAM | 09/26/17 12:53 | | OK |
| 14 | I5388-01DUP | FK-PS-01-016DUP | DUP | 09/26/17 12:53 | | OK |
| 15 | I5388-01MS | FK-PS-01-016MS | MS | 09/26/17 12:53 | | OK |
| 16 | I5388-01MSD | FK-PS-01-016MSD | MSD | 09/26/17 12:53 | | OK |
| 17 | I5391-01 | FK-PS-01-015 | SAM | 09/26/17 12:53 | | OK |
| 18 | CCV2 | CCV2 | CCV | 09/26/17 12:53 | | OK |
| 19 | CCB2 | CCB2 | CCB | 09/26/17 12:53 | | OK |



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Report of Analysis

| | | | |
|-------------------|--------------|-----------------|-----------------------|
| Client: | | Date Collected: | 9/22/2017 12:00:00 AM |
| Project: | LB90325 | Date Received: | 9/22/2017 12:00:00 AM |
| Client Sample ID: | FK-PS-01-016 | SDG No.: | LB90325 |
| Lab Sample ID: | I5388-01 | Matrix: | Solid |
| Level (low/med): | low | % Solid: | 92.6 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|-----|--------------|-------|------|----|-----|-----|------------|-------|------------|------------|------------|
| | Ammonia as N | 7 | | 1 | 1.8 | | 5.2 | mg/Kg | 09/25/2017 | 09/26/2017 | SM4500-NH3 |



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Report of Analysis

| | | | |
|-------------------|--------------|-----------------|-----------------------|
| Client: | | Date Collected: | 9/22/2017 12:00:00 AM |
| Project: | LB90325 | Date Received: | 9/22/2017 12:00:00 AM |
| Client Sample ID: | FK-PS-01-015 | SDG No.: | LB90325 |
| Lab Sample ID: | I5391-01 | Matrix: | Solid |
| Level (low/med): | low | % Solid: | 92.7 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|-----|--------------|-------|------|----|-----|-----|------------|-------|------------|------------|------------|
| | Ammonia as N | 6.5 | | 1 | 1.8 | | 5.2 | mg/Kg | 09/25/2017 | 09/26/2017 | SM4500-NH3 |



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Report of Analysis

| | | | |
|-------------------|--------------|-----------------|-----------------------|
| Client: | | Date Collected: | 9/22/2017 12:00:00 AM |
| Project: | LB90325 | Date Received: | 9/22/2017 12:00:00 AM |
| Client Sample ID: | FK-PS-01-015 | SDG No.: | LB90325 |
| Lab Sample ID: | I5391-01 | Matrix: | Solid |
| Level (low/med): | low | % Solid: | 92.7 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | 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



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB90325

SDG No.: LB90325

Contract: _____ Lab Code: CHEM

Case No.: LB90325

SAS No.: LB90325

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 | | 09/26/2017 | 12:44 | LB90325 |



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB90325

SDG No.: LB90325

Contract: _____ Lab Code: CHEM

Case No.: LB90325

SAS No.: LB90325

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 | 1 | 1 | 100 | 0 | 90 - 110 | | 09/26/2017 | 12:44 | LB90325 |
| CCV2 | Ammonia as N | 0.93 | 1 | 93 | 0 | 90 - 110 | | 09/26/2017 | 12:53 | LB90325 |



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90325

SDG No.: LB90325

Contract:

Lab Code: CHEM

Case No.: LB90325

SAS No.: LB90325

| Sample ID | Analyte | Result mg/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|-----------|--------------|----------------|---------------------|--------------|-----|------|---|------------------|------------------|---------------|
| ICB1 | Ammonia as N | 0.016 | +/-0.1 | U | | 0.1 | | 09/26/2017 | 12:44 | LB90325 |



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

| | | | | | | | |
|-----------|---------|-----------|---------|-----------|---------|----------|---------|
| Client: | LB90325 | SDG No.: | LB90325 | | | | |
| Contract: | | Lab Code: | CHEM | Case No.: | LB90325 | SAS No.: | LB90325 |

| Sample ID | Analyte | Result mg/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|-----------|---------|----------------|---------------------|--------------|-----|------|---|------------------|------------------|---------------|
|-----------|---------|----------------|---------------------|--------------|-----|------|---|------------------|------------------|---------------|



GENCHEM
- 3b -
PREPARATION BLANK SUMMARY

Client: LB90325

SDG No.: LB90325

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 |
|-------------------|--------------|-------------------|---------------------|----------------------|--------------|-----------------|---|-------------------|-------------------|---------|
| PB102596BL | | SOLID | | Batch Number: | | PB102596 | | Prep Date: | 09/25/2017 | |
| | Ammonia as N | 0.72 | <4.9 | U | | 4.9 | | 09/26/2017 | 12:44 | LB90325 |



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB90325 level: low sdg no.: LB90325
contract: lab code: CHEM case no.: LB90325 sas no.: LB90325
matrix: Solid sample id: I5388-01 client id: FK-PS-01-016MS
Percent Solids for Sample: 92.6 Spiked ID: I5388-01MS Percent Solids for Spike Sample: 92.6

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|--------------|-------|------------------------|------------------|---|------------------|---|----------------|---------------|------|---|
| Ammonia as N | mg/Kg | 75 - 125 | 59.1 | | 7 | | 52.9 | 98 | | |



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB90325 level: low sdg no.: LB90325
contract: lab code: CHEM case no.: LB90325 sas no.: LB90325
matrix: Solid sample id: I5388-01 client id: FK-PS-01-016MSD
Percent Solids for Sample: 92.6 Spiked ID: I5388-01MSD Percent Solids for Spike Sample: 92.6

| Analyte | Units | Acceptance Limit %R | MSD Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|--------------|-------|------------------------|---------------|---|------------------|---|----------------|---------------|------|---|
| Ammonia as N | mg/Kg | 75 - 125 | 57.3 | 7 | | | 51.9 | 97 | | |

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90325 **Level:** LOW **SDG No.:** LB90325
Contract: **Lab Code:** CHEM **Case No.:** LB90325 **SAS No.:** LB90325
Matrix: Solid **Sample ID:** I5388-01 **Client ID:** FK-PS-01-016DUP
Percent Solids for Sample: 92.6 **Duplicate ID** I5388-01DUP **Percent Solids for Spike Sample:** 92.6

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|--------------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| Ammonia as N | mg/Kg | 20 | 7 | | 7.7 | | 10 | | |

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90325 **Level:** LOW **SDG No.:** LB90325
Contract: **Lab Code:** CHEM **Case No.:** LB90325 **SAS No.:** LB90325
Matrix: Solid **Sample ID:** I5388-01MS **Client ID:** FK-PS-01-016MSD
Percent Solids for Sample: 92.6 **Duplicate ID** I5388-01MSD **Percent Solids for Spike Sample:** 92.6

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|--------------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| Ammonia as N | mg/Kg | 20 | 59.1 | | 57.3 | | 3 | | |



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB90325

SDG No.: LB90325

Contract:

Lab Code: CHEM

Case No.: LB90325

SAS No.: LB90325

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|----------------------------|-------|------------|--------|---|---------------|----------------------|---|
| PB102596BS Ammonia as N | mg/Kg | 48.5 | 48.6 | | 100.2 | 80 - 120 | |