

LB96410

Test results

Aquakem 7.2AQ1

Page: 1

CHEMTECH  
284 Sheffield Street,  
Mountainside, NJ 07092  
Reviewed by :           

7/3/2018 13:00

Test: Total CN

| Sample Id    | Result  | Dil. 1 + | Response | Errors |
|--------------|---------|----------|----------|--------|
| ICV1         | 96.122  | 0.0      | 0.096    |        |
| ICB1         | 0.217   | 0.0      | 0.004    |        |
| CCV1         | 243.676 | 0.0      | 0.238    |        |
| CCB1         | 0.018   | 0.0      | 0.004    |        |
| PB110733BL   | 0.414   | 0.0      | 0.004    |        |
| PB110733BS   | 98.464  | 0.0      | 0.099    |        |
| J3761-01     | 0.319   | 0.0      | 0.004    |        |
| J3761-01DUP  | 0.899   | 0.0      | 0.004    |        |
| J3761-01MS   | 37.889  | 0.0      | 0.040    |        |
| J3761-01MSD  | 37.888  | 0.0      | 0.040    |        |
| J3762-01     | 1.096   | 0.0      | 0.005    |        |
| J3762-02     | 7.613   | 0.0      | 0.011    |        |
| J3762-03     | 1.325   | 0.0      | 0.005    |        |
| J3774-01     | 1.584   | 0.0      | 0.005    |        |
| CCV2         | 242.446 | 0.0      | 0.237    |        |
| CCB2         | -0.215  | 0.0      | 0.003    |        |
| J3774-03     | 0.155   | 0.0      | 0.004    |        |
| J3774-05     | 0.058   | 0.0      | 0.004    |        |
| J3774-06     | 3.062   | 0.0      | 0.007    |        |
| J3774-08     | -0.056  | 0.0      | 0.004    |        |
| J3774-09     | -0.108  | 0.0      | 0.003    |        |
| PB110760BL   | -0.179  | 0.0      | 0.003    |        |
| PB110760BS   | 96.462  | 0.0      | 0.097    |        |
| J3798-01     | 0.406   | 0.0      | 0.004    |        |
| J3798-01DUP  | 0.283   | 0.0      | 0.004    |        |
| J3798-01MS   | 47.589  | 0.0      | 0.049    |        |
| CCV3         | 245.124 | 0.0      | 0.240    |        |
| CCB3         | 0.111   | 0.0      | 0.004    |        |
| J3798-01MSD  | 47.424  | 0.0      | 0.049    |        |
| J3798-04     | 3.441   | 0.0      | 0.007    |        |
| J3798-07     | 4.622   | 0.0      | 0.008    |        |
| PB110761BL   | -0.358  | 0.0      | 0.003    |        |
| PB110761BS   | 97.064  | 0.0      | 0.097    |        |
| LOWPB110761  | 10.338  | 0.0      | 0.014    |        |
| HIGHPB110761 | 485.222 | 0.0      | 0.471    |        |
| J3243-05     | 1.942   | 0.0      | 0.005    |        |
| J3243-05DUP  | 1.562   | 0.0      | 0.005    |        |
| J3243-05MS   | 34.015  | 0.0      | 0.036    |        |
| CCV4         | 246.873 | 0.0      | 0.242    |        |
| CCB4         | 0.280   | 0.0      | 0.004    |        |
| J3243-05MSD  | 34.097  | 0.0      | 0.036    |        |
| J3245-17     | 1.443   | 0.0      | 0.005    |        |
| J3245-19     | 0.818   | 0.0      | 0.004    |        |
| J3245-21     | 0.426   | 0.0      | 0.004    |        |
| J3245-23     | 1.235   | 0.0      | 0.005    |        |
| J3252-05     | 1.054   | 0.0      | 0.005    |        |
| PB110808BL   | 0.191   | 0.0      | 0.004    |        |
| PB110808BS   | 98.625  | 0.0      | 0.099    |        |
| LOWPB110808  | 10.004  | 0.0      | 0.013    |        |
| HIGHPB110808 | 483.723 | 0.0      | 0.470    |        |
| CCV5         | 247.556 | 0.0      | 0.242    |        |
| CCB5         | 0.091   | 0.0      | 0.004    |        |
| J3814-01     | 0.395   | 0.0      | 0.004    |        |
| J3814-01DUP  | 0.681   | 0.0      | 0.004    |        |
| J3814-01MS   | 37.182  | 0.0      | 0.039    |        |

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7/3/2018 13:00

Test: Total CN

| Sample Id   | Result  | Dil. 1 + | Response | Errors |
|-------------|---------|----------|----------|--------|
| J3814-01MSD | 34.909  | 0.0      | 0.037    |        |
| J3815-01    | 1.242   | 0.0      | 0.005    |        |
| J3818-01    | 1.032   | 0.0      | 0.005    |        |
| J3826-01    | 1.085   | 0.0      | 0.005    |        |
| J3840-03    | 4.616   | 0.0      | 0.008    |        |
| J3840-08    | 0.810   | 0.0      | 0.004    |        |
| J3840-12    | 2.258   | 0.0      | 0.006    |        |
| CCV6        | 248.028 | 0.0      | 0.243    |        |
| CCB6        | 0.401   | 0.0      | 0.004    |        |
| J3840-17    | 0.597   | 0.0      | 0.004    |        |
| CCV7        | 241.797 | 0.0      | 0.237    |        |
| CCB7        | 0.605   | 0.0      | 0.004    |        |

|      |          |
|------|----------|
| N    | 67       |
| Mean | 52.985   |
| SD   | 107.4386 |
| CV%  | 202.77   |

As

Aquakem v. 7.2AQ1

Results from time period:

Tue Jul 03 11:54:13 2018

Tue Jul 03 12:36:27 2018

| Sample Id    | Sam/Ctr/c/ | Test short | Test type | Result   | Result unit | Result date and time |
|--------------|------------|------------|-----------|----------|-------------|----------------------|
| 0.0PPBCN     | A          | Total CN   | P         | -0.3316  | µg/l        | 7/3/2018 9:07:26     |
| 5.0PPBCN     | A          | Total CN   | P         | 4.3018   | µg/l        | 7/3/2018 9:07:27     |
| 10PPBCN      | A          | Total CN   | P         | 9.8691   | µg/l        | 7/3/2018 9:07:28     |
| 50PPBCN      | A          | Total CN   | P         | 50.1003  | µg/l        | 7/3/2018 9:07:29     |
| 100PPBCN     | A          | Total CN   | P         | 100.442  | µg/l        | 7/3/2018 9:07:30     |
| 250PPBCN     | A          | Total CN   | P         | 251.4144 | µg/l        | 7/3/2018 9:07:31     |
| 500PPBCN     | A          | Total CN   | P         | 499.2039 | µg/l        | 7/3/2018 9:07:32     |
| ICV1         | S          | Total CN   | P         | 96.1223  | µg/l        | 7/3/2018 11:54:13    |
| ICB1         | S          | Total CN   | P         | 0.2172   | µg/l        | 7/3/2018 11:54:14    |
| CCV1         | S          | Total CN   | P         | 243.6759 | µg/l        | 7/3/2018 11:54:15    |
| CCB1         | S          | Total CN   | P         | 0.0184   | µg/l        | 7/3/2018 11:54:16    |
| PB110733BL   | S          | Total CN   | P         | 0.414    | µg/l        | 7/3/2018 11:54:17    |
| PB110733BS   | S          | Total CN   | P         | 98.4644  | µg/l        | 7/3/2018 11:54:18    |
| J3761-01     | S          | Total CN   | P         | 0.3188   | µg/l        | 7/3/2018 11:54:19    |
| J3761-01DUP  | S          | Total CN   | P         | 0.8991   | µg/l        | 7/3/2018 11:54:20    |
| J3761-01MS   | S          | Total CN   | P         | 37.8888  | µg/l        | 7/3/2018 11:54:21    |
| J3761-01MSD  | S          | Total CN   | P         | 37.8877  | µg/l        | 7/3/2018 11:54:22    |
| J3762-01     | S          | Total CN   | P         | 1.096    | µg/l        | 7/3/2018 11:54:23    |
| J3762-02     | S          | Total CN   | P         | 7.6133   | µg/l        | 7/3/2018 12:01:48    |
| J3762-03     | S          | Total CN   | P         | 1.3248   | µg/l        | 7/3/2018 12:01:49    |
| J3774-01     | S          | Total CN   | P         | 1.5844   | µg/l        | 7/3/2018 12:01:50    |
| CCV2         | S          | Total CN   | P         | 242.4461 | µg/l        | 7/3/2018 12:01:51    |
| CCB2         | S          | Total CN   | P         | -0.2152  | µg/l        | 7/3/2018 12:01:52    |
| J3774-03     | S          | Total CN   | P         | 0.1553   | µg/l        | 7/3/2018 12:01:53    |
| J3774-05     | S          | Total CN   | P         | 0.0577   | µg/l        | 7/3/2018 12:01:54    |
| J3774-06     | S          | Total CN   | P         | 3.062    | µg/l        | 7/3/2018 12:01:55    |
| J3774-08     | S          | Total CN   | P         | -0.0557  | µg/l        | 7/3/2018 12:01:56    |
| J3774-09     | S          | Total CN   | P         | -0.1077  | µg/l        | 7/3/2018 12:01:57    |
| PB110760BL   | S          | Total CN   | P         | -0.1788  | µg/l        | 7/3/2018 12:01:58    |
| PB110760BS   | S          | Total CN   | P         | 96.4618  | µg/l        | 7/3/2018 12:09:23    |
| J3798-01     | S          | Total CN   | P         | 0.4063   | µg/l        | 7/3/2018 12:09:24    |
| J3798-01DUP  | S          | Total CN   | P         | 0.2834   | µg/l        | 7/3/2018 12:09:25    |
| J3798-01MS   | S          | Total CN   | P         | 47.589   | µg/l        | 7/3/2018 12:09:26    |
| CCV3         | S          | Total CN   | P         | 245.124  | µg/l        | 7/3/2018 12:09:27    |
| CCB3         | S          | Total CN   | P         | 0.111    | µg/l        | 7/3/2018 12:09:28    |
| J3798-01MSD  | S          | Total CN   | P         | 47.4238  | µg/l        | 7/3/2018 12:09:29    |
| J3798-04     | S          | Total CN   | P         | 3.4412   | µg/l        | 7/3/2018 12:09:30    |
| J3798-07     | S          | Total CN   | P         | 4.6218   | µg/l        | 7/3/2018 12:09:31    |
| PB110761BL   | S          | Total CN   | P         | -0.3584  | µg/l        | 7/3/2018 12:09:32    |
| PB110761BS   | S          | Total CN   | P         | 97.0637  | µg/l        | 7/3/2018 12:09:33    |
| LOWPB110761  | S          | Total CN   | P         | 10.3376  | µg/l        | 7/3/2018 12:16:58    |
| HIGHPB110761 | S          | Total CN   | P         | 485.2219 | µg/l        | 7/3/2018 12:16:59    |

|              |   |          |   |               |                   |
|--------------|---|----------|---|---------------|-------------------|
| J3243-05     | S | Total CN | P | 1.9422 µg/l   | 7/3/2018 12:17:00 |
| J3243-05DUP  | S | Total CN | P | 1.5623 µg/l   | 7/3/2018 12:17:01 |
| J3243-05MS   | S | Total CN | P | 34.0149 µg/l  | 7/3/2018 12:17:02 |
| CCV4         | S | Total CN | P | 246.8735 µg/l | 7/3/2018 12:17:03 |
| CCB4         | S | Total CN | P | 0.28 µg/l     | 7/3/2018 12:17:04 |
| J3243-05MSD  | S | Total CN | P | 34.097 µg/l   | 7/3/2018 12:17:05 |
| J3245-17     | S | Total CN | P | 1.4428 µg/l   | 7/3/2018 12:17:06 |
| J3245-19     | S | Total CN | P | 0.8183 µg/l   | 7/3/2018 12:17:07 |
| J3245-21     | S | Total CN | P | 0.4263 µg/l   | 7/3/2018 12:17:08 |
| J3245-23     | S | Total CN | P | 1.2352 µg/l   | 7/3/2018 12:24:32 |
| J3252-05     | S | Total CN | P | 1.0536 µg/l   | 7/3/2018 12:24:33 |
| PB110808BL   | S | Total CN | P | 0.1913 µg/l   | 7/3/2018 12:24:34 |
| PB110808BS   | S | Total CN | P | 98.6254 µg/l  | 7/3/2018 12:24:35 |
| LOWPB110808  | S | Total CN | P | 10.0038 µg/l  | 7/3/2018 12:24:36 |
| HIGHPB110808 | S | Total CN | P | 483.7225 µg/l | 7/3/2018 12:24:37 |
| CCV5         | S | Total CN | P | 247.5561 µg/l | 7/3/2018 12:24:38 |
| CCB5         | S | Total CN | P | 0.0906 µg/l   | 7/3/2018 12:24:39 |
| J3814-01     | S | Total CN | P | 0.3948 µg/l   | 7/3/2018 12:24:40 |
| J3814-01DUP  | S | Total CN | P | 0.6807 µg/l   | 7/3/2018 12:24:41 |
| J3814-01MS   | S | Total CN | P | 37.1818 µg/l  | 7/3/2018 12:24:42 |
| J3814-01MSD  | S | Total CN | P | 34.9088 µg/l  | 7/3/2018 12:32:05 |
| J3815-01     | S | Total CN | P | 1.2417 µg/l   | 7/3/2018 12:32:06 |
| J3818-01     | S | Total CN | P | 1.0322 µg/l   | 7/3/2018 12:32:07 |
| J3826-01     | S | Total CN | P | 1.0851 µg/l   | 7/3/2018 12:32:08 |
| J3840-03     | S | Total CN | P | 4.616 µg/l    | 7/3/2018 12:32:09 |
| J3840-08     | S | Total CN | P | 0.8105 µg/l   | 7/3/2018 12:32:10 |
| J3840-12     | S | Total CN | P | 2.258 µg/l    | 7/3/2018 12:32:11 |
| CCV6         | S | Total CN | P | 248.0281 µg/l | 7/3/2018 12:32:12 |
| CCB6         | S | Total CN | P | 0.4012 µg/l   | 7/3/2018 12:32:13 |
| J3840-17     | S | Total CN | P | 0.5974 µg/l   | 7/3/2018 12:32:14 |
| CCV7         | S | Total CN | P | 241.7968 µg/l | 7/3/2018 12:32:15 |
| CCB7         | S | Total CN | P | 0.6053 µg/l   | 7/3/2018 12:36:24 |

CHEMTECH  
284 Sheffield Street,  
Mountainside, NJ 07092  
Reviewed by : AL

7/3/2018 9:12

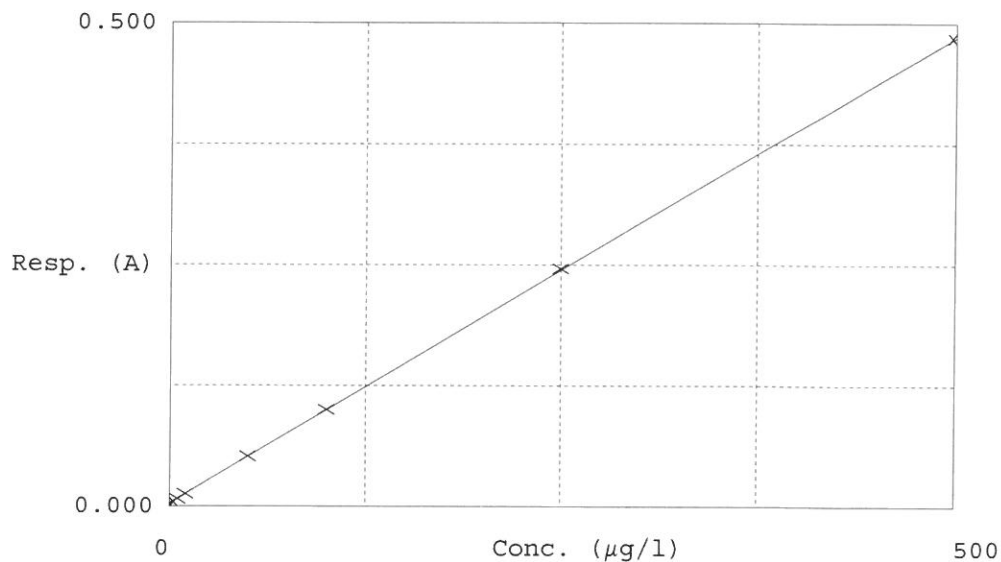
Test Total CN

Accepted 7/3/2018 9:12

Factor 1037  
Bias 0.004

Coeff. of det. 0.999983

Errors



|   | Calibrator | Response | Calc. con. | Conc.    | Errors |
|---|------------|----------|------------|----------|--------|
| 1 | 0.0PPBCN   | 0.003    | -0.3316    | 0.0000   |        |
| 2 | 5.0PPBCN   | 0.008    | 4.3018     | 5.0000   |        |
| 3 | 10PPBCN    | 0.013    | 9.8691     | 10.0000  |        |
| 4 | 50PPBCN    | 0.052    | 50.1003    | 50.0000  |        |
| 5 | 100PPBCN   | 0.100    | 100.4420   | 100.0000 |        |
| 6 | 250PPBCN   | 0.246    | 251.4144   | 250.0000 |        |
| 7 | 500PPBCN   | 0.485    | 499.2039   | 500.0000 |        |