

# Analytical Summary Report

Analysis Method: 7196A

ANALYST: Sweta

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY: apatel

Run Number: LB95532

pH Meter ID: WC pH Meter-1

| Reagent/Standard                      | Lot/Log # |
|---------------------------------------|-----------|
| Calibration Std. hexchrome 0.1 ppm    | WP64715   |
| Calibration Std. hexchrome 0.05 ppm   | WP64714   |
| 5N sulfuric acid                      | WP61786   |
| Calibratation STD HexaChrome 1 PPM    | WP64717   |
| Calibratation STD Hexa Chrome 0.5 PPM | WP64716   |
| calibration std. hexchrome 0.01 ppm   | WP64712   |
| calibration std. hexchrome 0 ppm      | WP64711   |
| Hexavalent Chromium ICV Std.          | WP64719   |
| Hexavalent Chromium CCV Std           | WP64718   |
| hexavalent chromium color reagent     | WP64533   |
| HNO3 Hex-Chrome, 5M                   | WP61785   |
| Calibration std Hexachrome, 0.025ppm  | WP64713   |

Intercept: 0.0006

Slope: 0.7702

Regression: 0.999977

| Seq | Lab ID | True Value (mg/l) | DF | Initial Vol (ml/gm) | Final Vol (ml) | pH HN03 | pH H2SO4 | Absorb. at 540 |       | Absorbance Difference | Anal Date  | Anal Time |
|-----|--------|-------------------|----|---------------------|----------------|---------|----------|----------------|-------|-----------------------|------------|-----------|
|     |        |                   |    |                     |                |         |          | Backgrnd       | Color |                       |            |           |
| 1   | CAL1   | 0                 | 1  | 100                 | 100            |         | 2.10     | 0.000          | 0.000 | 0.000                 | 05/22/2018 | 13:30     |
| 2   | CAL2   | 0.01              | 1  | 100                 | 100            |         | 2.09     | 0.000          | 0.007 | 0.007                 | 05/22/2018 | 13:30     |
| 3   | CAL3   | 0.025             | 1  | 100                 | 100            |         | 1.89     | 0.000          | 0.019 | 0.019                 | 05/22/2018 | 13:31     |
| 4   | CAL4   | 0.05              | 1  | 100                 | 100            |         | 1.58     | 0.000          | 0.038 | 0.038                 | 05/22/2018 | 13:31     |
| 5   | CAL5   | 0.1               | 1  | 100                 | 100            |         | 1.75     | 0.000          | 0.080 | 0.080                 | 05/22/2018 | 13:32     |
| 6   | CAL6   | 0.5               | 1  | 100                 | 100            |         | 1.69     | 0.000          | 0.389 | 0.389                 | 05/22/2018 | 13:32     |
| 7   | CAL7   | 1                 | 1  | 100                 | 100            |         | 1.49     | 0.000          | 0.769 | 0.769                 | 05/22/2018 | 13:33     |

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| Seq | Lab ID          | True Value (mg/l) | DF | Initial Vol (ml/gm) | Final Vol (ml) | pH HN03 | pH H2SO4 | Absorb. at 540 |       | Absorbance Difference | Result | Anal Date  | Anal Time |
|-----|-----------------|-------------------|----|---------------------|----------------|---------|----------|----------------|-------|-----------------------|--------|------------|-----------|
|     |                 |                   |    |                     |                |         |          | Backgrnd       | Color |                       |        |            |           |
| 1   | ICV             | 0.5               | 1  | 100                 | 100            |         | 2.03     | 0.000          | 0.389 | 0.389                 | 0.504  | 05/22/2018 | 13:33     |
| 2   | ICB             |                   | 1  | 100                 | 100            |         | 2.10     | 0.000          | 0.000 | 0.000                 | -0.001 | 05/22/2018 | 13:34     |
| 3   | CCV1            | 0.5               | 1  | 100                 | 100            |         | 1.98     | 0.000          | 0.389 | 0.389                 | 0.504  | 05/22/2018 | 13:34     |
| 4   | CCB1            |                   | 1  | 100                 | 100            |         | 1.69     | 0.000          | 0.000 | 0.000                 | -0.001 | 05/22/2018 | 13:35     |
| 5   | PB109565BL      |                   | 1  | 2.55                | 100            | 7.10    | 1.59     | 0.000          | 0.000 | 0.000                 | -0.001 | 05/22/2018 | 13:35     |
| 6   | PB109565BS      | 20                | 1  | 2.50                | 100            | 7.23    | 1.69     | 0.000          | 0.368 | 0.368                 | 0.477  | 05/22/2018 | 13:36     |
| 7   | J3053-01        |                   | 1  | 2.55                | 100            | 7.56    | 2.05     | 0.008          | 0.012 | 0.004                 | 0.004  | 05/22/2018 | 13:36     |
| 8   | J3053-01DUP     |                   | 1  | 2.50                | 100            | 7.46    | 1.76     | 0.009          | 0.013 | 0.004                 | 0.004  | 05/22/2018 | 13:37     |
| 9   | J3053-01MSPre   | 40                | 2  | 2.50                | 100            | 7.16    | 1.69     | 0.007          | 0.333 | 0.326                 | 0.422  | 05/22/2018 | 13:37     |
| 10  | J3053-01MS2Ins  | 1284              | 40 | 2.50                | 100            | 7.25    | 1.49     | 0.010          | 0.614 | 0.604                 | 0.783  | 05/22/2018 | 13:38     |
| 11  | J3053-01MS3Post | 40                | 2  | 2.52                | 100            | 7.28    | 1.86     | 0.008          | 0.321 | 0.313                 | 0.406  | 05/22/2018 | 13:38     |
| 12  | J3053-03        |                   | 1  | 2.52                | 100            | 7.16    | 1.80     | 0.017          | 0.017 | 0.000                 | -0.001 | 05/22/2018 | 13:39     |
| 13  | J3054-01        |                   | 1  | 2.50                | 100            | 7.13    | 1.83     | 0.011          | 0.014 | 0.003                 | 0.003  | 05/22/2018 | 13:39     |
| 14  | J3054-03        |                   | 1  | 2.55                | 100            | 7.36    | 1.79     | 0.010          | 0.012 | 0.002                 | 0.002  | 05/22/2018 | 13:40     |
| 15  | CCV2            | 0.5               | 1  | 100                 | 100            |         | 2.03     | 0.000          | 0.389 | 0.389                 | 0.504  | 05/22/2018 | 13:40     |
| 16  | CCB2            |                   | 1  | 100                 | 100            |         | 2.03     | 0.000          | 0.000 | 0.000                 | -0.001 | 05/22/2018 | 13:41     |
| 17  | J3056-01        |                   | 1  | 2.50                | 100            | 7.22    | 2.10     | 0.012          | 0.012 | 0.000                 | -0.001 | 05/22/2018 | 13:41     |
| 18  | J3056-05        |                   | 1  | 2.53                | 100            | 7.42    | 1.56     | 0.022          | 0.028 | 0.006                 | 0.007  | 05/22/2018 | 13:42     |
| 19  | J3058-01        |                   | 1  | 2.52                | 100            | 7.15    | 1.66     | 0.030          | 0.317 | 0.287                 | 0.372  | 05/22/2018 | 13:42     |
| 20  | PB109564BL      |                   | 1  | 2.55                | 100            | 7.23    | 1.79     | 0.000          | 0.000 | 0.000                 | -0.001 | 05/22/2018 | 13:43     |
| 21  | PB109564BS      | 20                | 1  | 2.50                | 100            | 7.14    | 1.69     | 0.001          | 0.369 | 0.368                 | 0.477  | 05/22/2018 | 13:43     |
| 22  | J2675-09        |                   | 1  | 2.50                | 100            | 7.42    | 1.53     | 0.004          | 0.007 | 0.003                 | 0.003  | 05/22/2018 | 13:44     |
| 23  | J2675-09DUP     |                   | 1  | 2.55                | 100            | 7.26    | 1.85     | 0.005          | 0.008 | 0.003                 | 0.003  | 05/22/2018 | 13:44     |
| 24  | J2675-09MSPre   | 40                | 2  | 2.53                | 100            | 7.52    | 1.69     | 0.003          | 0.352 | 0.349                 | 0.452  | 05/22/2018 | 13:45     |
| 25  | J2675-09MS2Ins  | 1284              | 40 | 2.53                | 100            | 7.42    | 1.83     | 0.011          | 0.616 | 0.605                 | 0.785  | 05/22/2018 | 13:45     |
| 26  | J2675-09MS3Post | 40                | 2  | 2.55                | 100            | 7.51    | 1.88     | 0.003          | 0.340 | 0.337                 | 0.437  | 05/22/2018 | 13:46     |
| 27  | CCV3            | 0.5               | 1  | 100                 | 100            |         | 1.93     | 0.000          | 0.389 | 0.389                 | 0.504  | 05/22/2018 | 13:46     |
| 28  | CCB3            |                   | 1  | 100                 | 100            |         | 1.94     | 0.000          | 0.000 | 0.000                 | -0.001 | 05/22/2018 | 13:47     |
| 29  | J2675-11        |                   | 1  | 2.52                | 100            | 7.13    | 2.05     | 0.012          | 0.012 | 0.000                 | -0.001 | 05/22/2018 | 13:47     |
| 30  | J2679-19        |                   | 1  | 2.50                | 100            | 7.15    | 2.06     | 0.043          | 0.043 | 0.000                 | -0.001 | 05/22/2018 | 13:48     |
| 31  | J2679-21        |                   | 1  | 2.55                | 100            | 7.28    | 2.11     | 0.010          | 0.010 | 0.000                 | -0.001 | 05/22/2018 | 13:48     |
| 32  | J2679-23        |                   | 1  | 2.52                | 100            | 7.49    | 1.76     | 0.017          | 0.017 | 0.000                 | -0.001 | 05/22/2018 | 13:49     |
| 33  | J2999-01        |                   | 1  | 2.54                | 100            | 7.18    | 1.89     | 0.006          | 0.010 | 0.004                 | 0.004  | 05/22/2018 | 13:49     |
| 34  | J3000-01        |                   | 1  | 2.50                | 100            | 7.09    | 1.87     | 0.007          | 0.014 | 0.007                 | 0.008  | 05/22/2018 | 13:50     |
| 35  | J3055-01        |                   | 1  | 2.55                | 100            | 7.11    | 1.77     | 0.005          | 0.005 | 0.000                 | -0.001 | 05/22/2018 | 13:50     |
| 36  | J3055-05        |                   | 1  | 2.53                | 100            | 7.19    | 1.69     | 0.009          | 0.009 | 0.000                 | -0.001 | 05/22/2018 | 13:51     |
| 37  | J3055-09        |                   | 1  | 2.50                | 100            | 7.25    | 1.63     | 0.014          | 0.014 | 0.000                 | -0.001 | 05/22/2018 | 13:51     |
| 38  | CCV4            | 0.5               | 1  | 100                 | 100            |         | 1.86     | 0.000          | 0.388 | 0.388                 | 0.503  | 05/22/2018 | 13:52     |
| 39  | CCB4            |                   | 1  | 100                 | 100            |         | 1.56     | 0.000          | 0.000 | 0.000                 | -0.001 | 05/22/2018 | 13:52     |