

# Analytical Summary Report

Analysis Method: 7196A

ANALYST: Indiana

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY: apatel

Run Number: LB87979

pH Meter ID: WC pH Meter-1

| Reagent/Standard                      | Lot/Log # |
|---------------------------------------|-----------|
| Calibration Std. hexchrome 0.1 ppm    | WP55533   |
| Calibration Std. hexchrome 0.05 ppm   | WP55532   |
| 5N sulfuric acid                      | WP55256   |
| Calibratation STD HexaChrome 1 PPM    | WP55535   |
| Calibratation STD Hexa Chrome 0.5 PPM | WP55534   |
| calibration std. hexchrome 0.01 ppm   | WP55530   |
| calibration std. hexchrome 0 ppm      | WP55529   |
| Hexavalent Chromium ICV Std.          | WP55536   |
| Hexavalent Chromium CCV Std           | WP55537   |
| hexavalent chromium color reagent     | WP55502   |
| HNO3 Hex-Chrome, 5M                   | WP53205   |
| Calibration std Hexachrome, 0.025ppm  | WP55531   |

Intercept: 0.0001

Slope: 0.7807

Regression: 0.999955

| 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            |         | 1.63     | 0.000          | 0.000 | 0.000                 | 06/09/2017 | 13:01     |
| 2   | CAL2   | 0.01              | 1  | 100                 | 100            |         | 2.05     | 0.000          | 0.007 | 0.007                 | 06/09/2017 | 13:01     |
| 3   | CAL3   | 0.025             | 1  | 100                 | 100            |         | 1.89     | 0.000          | 0.017 | 0.017                 | 06/09/2017 | 13:02     |
| 4   | CAL4   | 0.05              | 1  | 100                 | 100            |         | 2.41     | 0.000          | 0.039 | 0.039                 | 06/09/2017 | 13:02     |
| 5   | CAL5   | 0.1               | 1  | 100                 | 100            |         | 2.37     | 0.000          | 0.079 | 0.079                 | 06/09/2017 | 13:03     |
| 6   | CAL6   | 0.5               | 1  | 100                 | 100            |         | 1.58     | 0.000          | 0.396 | 0.396                 | 06/09/2017 | 13:03     |
| 7   | CAL7   | 1                 | 1  | 100                 | 100            |         | 2.22     | 0.000          | 0.778 | 0.778                 | 06/09/2017 | 13:04     |



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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            |         | 2.35     | 0.000          | 0.389 | 0.389                 | 0.498  | 06/09/2017 | 13:04     |
| 2   | ICB             |                   | 1  | 100                 | 100            |         | 2.44     | 0.000          | 0.000 | 0.000                 | 0.000  | 06/09/2017 | 13:05     |
| 3   | CCV1            | 0.5               | 1  | 100                 | 100            |         | 1.76     | 0.000          | 0.390 | 0.390                 | 0.499  | 06/09/2017 | 13:05     |
| 4   | CCB1            |                   | 1  | 100                 | 100            |         | 1.93     | 0.000          | 0.000 | 0.000                 | 0.000  | 06/09/2017 | 13:06     |
| 5   | PB99633BL       |                   | 1  | 2.51                | 100            | 7.13    | 2.10     | 0.000          | 0.000 | 0.000                 | 0.000  | 06/09/2017 | 13:06     |
| 6   | PB99633BS       | 20                | 1  | 2.53                | 100            | 7.27    | 2.28     | 0.000          | 0.360 | 0.360                 | 0.461  | 06/09/2017 | 13:07     |
| 7   | I3405-01        |                   | 1  | 2.52                | 100            | 7.16    | 1.54     | 0.012          | 0.013 | 0.001                 | 0.001  | 06/09/2017 | 13:07     |
| 8   | I3405-02        |                   | 1  | 2.53                | 100            | 7.64    | 2.34     | 0.030          | 0.030 | 0.000                 | 0.000  | 06/09/2017 | 13:08     |
| 9   | I3405-03        |                   | 1  | 2.54                | 100            | 7.39    | 2.12     | 0.025          | 0.025 | 0.000                 | 0.000  | 06/09/2017 | 13:08     |
| 10  | I3405-04        |                   | 1  | 2.51                | 100            | 7.79    | 2.46     | 0.004          | 0.004 | 0.000                 | 0.000  | 06/09/2017 | 13:09     |
| 11  | I3405-05        |                   | 1  | 2.53                | 100            | 7.88    | 1.74     | 0.054          | 0.054 | 0.000                 | 0.000  | 06/09/2017 | 13:09     |
| 12  | I3405-06        |                   | 1  | 2.51                | 100            | 7.34    | 1.50     | 0.029          | 0.029 | 0.000                 | 0.000  | 06/09/2017 | 13:10     |
| 13  | I3503-01        |                   | 1  | 2.55                | 100            | 7.41    | 2.05     | 0.026          | 0.026 | 0.000                 | 0.000  | 06/09/2017 | 13:10     |
| 14  | I3503-03        |                   | 1  | 2.54                | 100            | 7.90    | 2.36     | 0.060          | 0.060 | 0.000                 | 0.000  | 06/09/2017 | 13:11     |
| 15  | CCV2            | 0.5               | 1  | 100                 | 100            |         | 2.48     | 0.000          | 0.390 | 0.390                 | 0.499  | 06/09/2017 | 13:11     |
| 16  | CCB2            |                   | 1  | 100                 | 100            |         | 1.13     | 0.000          | 0.000 | 0.000                 | 0.000  | 06/09/2017 | 13:12     |
| 17  | I3503-05        |                   | 1  | 2.53                | 100            | 7.82    | 1.29     | 0.054          | 0.054 | 0.000                 | 0.000  | 06/09/2017 | 13:12     |
| 18  | I3567-01        |                   | 1  | 2.55                | 100            | 7.86    | 1.74     | 0.021          | 0.021 | 0.000                 | 0.000  | 06/09/2017 | 13:13     |
| 19  | I3567-01DUP     |                   | 1  | 2.52                | 100            | 7.63    | 1.63     | 0.022          | 0.022 | 0.000                 | 0.000  | 06/09/2017 | 13:13     |
| 20  | I3567-01MSPre   | 40                | 2  | 2.54                | 100            | 7.60    | 1.58     | 0.023          | 0.357 | 0.334                 | 0.428  | 06/09/2017 | 13:14     |
| 21  | I3567-01MS2Ins  | 1284              | 40 | 2.50                | 100            | 7.20    | 2.30     | 0.026          | 0.619 | 0.593                 | 0.759  | 06/09/2017 | 13:14     |
| 22  | I3567-01MS3Post | 40                | 2  | 2.51                | 100            | 7.08    | 2.13     | 0.025          | 0.364 | 0.339                 | 0.434  | 06/09/2017 | 13:15     |
| 23  | I3575-01        |                   | 1  | 2.50                | 100            | 7.60    | 1.88     | 0.008          | 0.008 | 0.000                 | 0.000  | 06/09/2017 | 13:15     |
| 24  | I3575-04        |                   | 1  | 2.53                | 100            | 7.72    | 1.79     | 0.011          | 0.011 | 0.000                 | 0.000  | 06/09/2017 | 13:16     |
| 25  | I3575-07        |                   | 1  | 2.52                | 100            | 7.46    | 1.25     | 0.013          | 0.013 | 0.000                 | 0.000  | 06/09/2017 | 13:16     |
| 26  | I3576-03        |                   | 1  | 2.50                | 100            | 7.28    | 1.38     | 0.024          | 0.026 | 0.002                 | 0.002  | 06/09/2017 | 13:17     |
| 27  | CCV3            | 0.5               | 1  | 100                 | 100            |         | 2.11     | 0.000          | 0.393 | 0.393                 | 0.503  | 06/09/2017 | 13:17     |
| 28  | CCB3            |                   | 1  | 100                 | 100            |         | 2.04     | 0.000          | 0.000 | 0.000                 | 0.000  | 06/09/2017 | 13:18     |