

# Analytical Summary Report

Analysis Method: 7196A

ANALYST: Indiana

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY: apatel

Run Number: LB101448

pH Meter ID: WC pH Meter-1

| Reagent/Standard                      | Lot/Log # |
|---------------------------------------|-----------|
| Calibratation STD HexaChrome 1 PPM    | WP72668   |
| Calibratation STD Hexa Chrome 0.5 PPM | WP72667   |
| Calibration Std. hexchrome 0.1 ppm    | WP72666   |
| Calibration Std. hexchrome 0.05 ppm   | WP72665   |
| calibration std. hexchrome 0.01 ppm   | WP72663   |
| calibration std. hexchrome 0 ppm      | WP72662   |
| Hexavalent Chromium ICV Std.          | WP72669   |
| Hexavalent Chromium CCV Std           | WP72670   |
| hexavalent chromium color reagent     | WP72565   |
| 5N sulfuric acid                      | WP70044   |
| Calibration std Hexachrome, 0.025ppm  | WP72664   |

Intercept: 0.0001

Slope: 0.7728

Regression: 0.999984

| 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            |         | 1.88     | 0.000          | 0.000 | 0.000                 | 03/19/2019 | 10:00     |
| 2   | CAL2   | 0.01              | 1  | 100                 | 100            |         | 2.07     | 0.000          | 0.007 | 0.007                 | 03/19/2019 | 10:00     |
| 3   | CAL3   | 0.025             | 1  | 100                 | 100            |         | 1.71     | 0.000          | 0.017 | 0.017                 | 03/19/2019 | 10:01     |
| 4   | CAL4   | 0.05              | 1  | 100                 | 100            |         | 2.33     | 0.000          | 0.039 | 0.039                 | 03/19/2019 | 10:01     |
| 5   | CAL5   | 0.1               | 1  | 100                 | 100            |         | 1.62     | 0.000          | 0.080 | 0.080                 | 03/19/2019 | 10:02     |
| 6   | CAL6   | 0.5               | 1  | 100                 | 100            |         | 1.92     | 0.000          | 0.388 | 0.388                 | 03/19/2019 | 10:02     |
| 7   | CAL7   | 1                 | 1  | 100                 | 100            |         | 2.25     | 0.000          | 0.772 | 0.772                 | 03/19/2019 | 10:03     |



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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            |         | 1.60     | 0.000          | 0.392 | 0.392                 | 0.507  | 03/19/2019 | 10:03     |
| 2   | ICB             |                   | 1  | 100                 | 100            |         | 2.31     | 0.000          | 0.000 | 0.000                 | 0.000  | 03/19/2019 | 10:04     |
| 3   | CCV1            | 0.5               | 1  | 100                 | 100            |         | 1.78     | 0.000          | 0.392 | 0.392                 | 0.507  | 03/19/2019 | 10:04     |
| 4   | CCB1            |                   | 1  | 100                 | 100            |         | 1.92     | 0.000          | 0.000 | 0.000                 | 0.000  | 03/19/2019 | 10:05     |
| 5   | PB118037BL      |                   | 1  | 2.50                | 100            | 7.63    | 2.08     | 0.000          | 0.000 | 0.000                 | 0.000  | 03/19/2019 | 10:05     |
| 6   | PB118037BS      | 20                | 1  | 2.51                | 100            | 7.09    | 2.22     | 0.000          | 0.378 | 0.378                 | 0.489  | 03/19/2019 | 10:06     |
| 7   | K1687-07        |                   | 1  | 2.50                | 100            | 7.32    | 1.75     | 0.007          | 0.007 | 0.000                 | 0.000  | 03/19/2019 | 10:06     |
| 8   | K1687-09        |                   | 1  | 2.53                | 100            | 7.36    | 2.07     | 0.010          | 0.010 | 0.000                 | 0.000  | 03/19/2019 | 10:07     |
| 9   | K1687-11        |                   | 1  | 2.55                | 100            | 7.60    | 2.39     | 0.008          | 0.008 | 0.000                 | 0.000  | 03/19/2019 | 10:07     |
| 10  | K1691-09        |                   | 1  | 2.54                | 100            | 7.43    | 1.62     | 0.011          | 0.011 | 0.000                 | 0.000  | 03/19/2019 | 10:08     |
| 11  | K1691-11        |                   | 1  | 2.51                | 100            | 7.10    | 1.94     | 0.014          | 0.014 | 0.000                 | 0.000  | 03/19/2019 | 10:08     |
| 12  | K1691-13        |                   | 1  | 2.50                | 100            | 7.46    | 2.37     | 0.012          | 0.012 | 0.000                 | 0.000  | 03/19/2019 | 10:09     |
| 13  | K1691-15        |                   | 1  | 2.52                | 100            | 7.63    | 1.63     | 0.008          | 0.008 | 0.000                 | 0.000  | 03/19/2019 | 10:09     |
| 14  | K1691-17        |                   | 1  | 2.53                | 100            | 7.50    | 1.54     | 0.006          | 0.006 | 0.000                 | 0.000  | 03/19/2019 | 10:10     |
| 15  | CCV2            | 0.5               | 1  | 100                 | 100            |         | 2.28     | 0.000          | 0.392 | 0.392                 | 0.507  | 03/19/2019 | 10:10     |
| 16  | CCB2            |                   | 1  | 100                 | 100            |         | 2.06     | 0.000          | 0.000 | 0.000                 | 0.000  | 03/19/2019 | 10:11     |
| 17  | K1697-09        |                   | 1  | 2.51                | 100            | 7.22    | 1.77     | 0.013          | 0.013 | 0.000                 | 0.000  | 03/19/2019 | 10:11     |
| 18  | K1697-11        |                   | 1  | 2.55                | 100            | 7.90    | 1.96     | 0.010          | 0.010 | 0.000                 | 0.000  | 03/19/2019 | 10:12     |
| 19  | K1697-11DUP     |                   | 1  | 2.54                | 100            | 7.44    | 2.11     | 0.008          | 0.008 | 0.000                 | 0.000  | 03/19/2019 | 10:12     |
| 20  | K1697-11MSPre   | 40                | 2  | 2.52                | 100            | 7.25    | 1.99     | 0.013          | 0.365 | 0.352                 | 0.455  | 03/19/2019 | 10:13     |
| 21  | K1697-11MS2Ins  | 1284              | 40 | 2.50                | 100            | 7.11    | 2.14     | 0.009          | 0.630 | 0.621                 | 0.803  | 03/19/2019 | 10:13     |
| 22  | K1697-11MS3Post | 40                | 2  | 2.51                | 100            | 7.69    | 2.48     | 0.014          | 0.365 | 0.351                 | 0.454  | 03/19/2019 | 10:14     |
| 23  | K1908-01        |                   | 1  | 2.53                | 100            | 7.88    | 1.92     | 0.020          | 0.020 | 0.000                 | 0.000  | 03/19/2019 | 10:14     |
| 24  | K1908-03        |                   | 1  | 2.54                | 100            | 7.92    | 1.86     | 0.013          | 0.013 | 0.000                 | 0.000  | 03/19/2019 | 10:15     |
| 25  | K1908-05        |                   | 1  | 2.50                | 100            | 7.17    | 2.16     | 0.007          | 0.007 | 0.000                 | 0.000  | 03/19/2019 | 10:15     |
| 26  | CCV3            | 0.5               | 1  | 100                 | 100            |         | 2.35     | 0.000          | 0.393 | 0.393                 | 0.508  | 03/19/2019 | 10:16     |
| 27  | CCB3            |                   | 1  | 100                 | 100            |         | 1.81     | 0.000          | 0.000 | 0.000                 | 0.000  | 03/19/2019 | 10:16     |