



## Analytical Summary Report

Analysis Method: 7196A

ANALYST: Indiana

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY: apatel

Run Number: LB96607

pH Meter ID: WC pH Meter-1

| Reagent/Standard                      | Lot/Log # |
|---------------------------------------|-----------|
| Calibration Std. hexchrome 0.1 ppm    | WP66105   |
| Calibration Std. hexchrome 0.05 ppm   | WP66104   |
| 5N sulfuric acid                      | WP65054   |
| Calibratation STD HexaChrome 1 PPM    | WP66107   |
| Calibratation STD Hexa Chrome 0.5 PPM | WP66106   |
| calibration std. hexchrome 0.01 ppm   | WP66102   |
| calibration std. hexchrome 0 ppm      | WP66099   |
| Hexavalent Chromium ICV Std.          | WP66108   |
| Hexavalent Chromium CCV Std           | WP66109   |
| hexavalent chromium color reagent     | WP65915   |
| HNO3 Hex-Chrome, 5M                   | WP65055   |
| Calibration std Hexachrome, 0.025ppm  | WP66103   |

Intercept: 0.0001

Slope: 0.7627

Regression: 0.99997

| 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            |         | 1.98     | 0.000          | 0.000 | 0.000                 | 07/12/2018 | 09:25     |
| 2   | CAL2   | 0.01              | 1  | 100                 | 100            |         | 1.63     | 0.000          | 0.007 | 0.007                 | 07/12/2018 | 09:25     |
| 3   | CAL3   | 0.025             | 1  | 100                 | 100            |         | 2.21     | 0.000          | 0.016 | 0.016                 | 07/12/2018 | 09:26     |
| 4   | CAL4   | 0.05              | 1  | 100                 | 100            |         | 2.25     | 0.000          | 0.040 | 0.040                 | 07/12/2018 | 09:26     |
| 5   | CAL5   | 0.1               | 1  | 100                 | 100            |         | 1.67     | 0.000          | 0.077 | 0.077                 | 07/12/2018 | 09:27     |
| 6   | CAL6   | 0.5               | 1  | 100                 | 100            |         | 2.36     | 0.000          | 0.385 | 0.385                 | 07/12/2018 | 09:27     |
| 7   | CAL7   | 1                 | 1  | 100                 | 100            |         | 1.78     | 0.000          | 0.761 | 0.761                 | 07/12/2018 | 09:28     |

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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            |         | 2.22     | 0.000          | 0.387 | 0.387                 | 0.507  | 07/12/2018 | 09:28     |
| 2   | ICB             |                   | 1  | 100                 | 100            |         | 2.44     | 0.000          | 0.000 | 0.000                 | 0.000  | 07/12/2018 | 09:29     |
| 3   | CCV1            | 0.5               | 1  | 100                 | 100            |         | 1.93     | 0.000          | 0.388 | 0.388                 | 0.509  | 07/12/2018 | 13:20     |
| 4   | CCB1            |                   | 1  | 100                 | 100            |         | 1.64     | 0.000          | 0.000 | 0.000                 | 0.000  | 07/12/2018 | 13:20     |
| 5   | PB111067BL      |                   | 1  | 2.51                | 100            | 7.20    | 1.87     | 0.000          | 0.000 | 0.000                 | 0.000  | 07/12/2018 | 13:21     |
| 6   | PB111067BS      | 20                | 1  | 2.55                | 100            | 7.30    | 2.06     | 0.000          | 0.371 | 0.371                 | 0.486  | 07/12/2018 | 13:21     |
| 7   | J3825-01        |                   | 1  | 2.54                | 100            | 7.77    | 2.33     | 0.040          | 0.040 | 0.000                 | 0.000  | 07/12/2018 | 13:22     |
| 8   | J3825-03        |                   | 1  | 2.55                | 100            | 7.36    | 2.47     | 0.033          | 0.033 | 0.000                 | 0.000  | 07/12/2018 | 13:22     |
| 9   | J3825-05        |                   | 1  | 2.53                | 100            | 7.44    | 1.86     | 0.027          | 0.027 | 0.000                 | 0.000  | 07/12/2018 | 13:23     |
| 10  | J3825-07        |                   | 1  | 2.54                | 100            | 7.69    | 1.91     | 0.016          | 0.016 | 0.000                 | 0.000  | 07/12/2018 | 13:23     |
| 11  | J3825-09        |                   | 1  | 2.50                | 100            | 7.32    | 2.13     | 0.014          | 0.014 | 0.000                 | 0.000  | 07/12/2018 | 13:24     |
| 12  | J3943-01        |                   | 1  | 2.52                | 100            | 7.40    | 2.27     | 0.004          | 0.004 | 0.000                 | 0.000  | 07/12/2018 | 13:24     |
| 13  | J3943-01DUP     |                   | 1  | 2.54                | 100            | 7.66    | 2.34     | 0.005          | 0.005 | 0.000                 | 0.000  | 07/12/2018 | 13:25     |
| 14  | J3943-01MSPre   | 40                | 2  | 2.53                | 100            | 7.25    | 1.77     | 0.007          | 0.355 | 0.348                 | 0.456  | 07/12/2018 | 13:25     |
| 15  | CCV2            | 0.5               | 1  | 100                 | 100            |         | 2.41     | 0.000          | 0.388 | 0.388                 | 0.509  | 07/12/2018 | 13:26     |
| 16  | CCB2            |                   | 1  | 100                 | 100            |         | 2.25     | 0.000          | 0.000 | 0.000                 | 0.000  | 07/12/2018 | 13:26     |
| 17  | J3943-01MS2Ins  | 1284              | 40 | 2.53                | 100            | 7.11    | 2.30     | 0.004          | 0.615 | 0.611                 | 0.801  | 07/12/2018 | 13:27     |
| 18  | J3943-01MS3Post | 40                | 2  | 2.53                | 100            | 7.18    | 2.17     | 0.008          | 0.357 | 0.349                 | 0.457  | 07/12/2018 | 13:27     |
| 19  | J3947-01        |                   | 1  | 2.54                | 100            | 7.14    | 1.66     | 0.018          | 0.018 | 0.000                 | 0.000  | 07/12/2018 | 13:28     |
| 20  | J3947-03        |                   | 1  | 2.55                | 100            | 7.88    | 2.37     | 0.074          | 0.074 | 0.000                 | 0.000  | 07/12/2018 | 13:28     |
| 21  | J3947-05        |                   | 1  | 2.54                | 100            | 7.91    | 1.85     | 0.100          | 0.100 | 0.000                 | 0.000  | 07/12/2018 | 13:29     |
| 22  | J3947-07        |                   | 1  | 2.50                | 100            | 7.56    | 1.94     | 0.018          | 0.056 | 0.038                 | 0.050  | 07/12/2018 | 13:29     |
| 23  | CCV3            | 0.5               | 1  | 100                 | 100            |         | 2.03     | 0.000          | 0.388 | 0.388                 | 0.509  | 07/12/2018 | 13:30     |
| 24  | CCB3            |                   | 1  | 100                 | 100            |         | 2.41     | 0.000          | 0.000 | 0.000                 | 0.000  | 07/12/2018 | 13:30     |