

# Analytical Summary Report

Analysis Method: 7196A

ANALYST: Indiana

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY: apatel

Run Number: LB93620

pH Meter ID: WC pH Meter-1

| Reagent/Standard                      | Lot/Log # |
|---------------------------------------|-----------|
| Calibration Std. hexchrome 0.1 ppm    | WP62383   |
| Calibration Std. hexchrome 0.05 ppm   | WP62382   |
| 5N sulfuric acid                      | WP61786   |
| Calibratation STD HexaChrome 1 PPM    | WP62385   |
| Calibratation STD Hexa Chrome 0.5 PPM | WP62384   |
| calibration std. hexchrome 0.01 ppm   | WP62380   |
| calibration std. hexchrome 0 ppm      | WP62379   |
| Hexavalent Chromium ICV Std.          | WP62386   |
| Hexavalent Chromium CCV Std           | WP62387   |
| hexavalent chromium color reagent     | WP62357   |
| HNO3 Hex-Chrome, 5M                   | WP61785   |
| Calibration std Hexachrome, 0.025ppm  | WP62381   |

Intercept: 0.0002

Slope: 0.767

Regression: 0.999969

| 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                 | 03/01/2018 | 13:00     |
| 2   | CAL2   | 0.01              | 1  | 100                 | 100            |         | 2.44     | 0.000          | 0.007 | 0.007                 | 03/01/2018 | 13:00     |
| 3   | CAL3   | 0.025             | 1  | 100                 | 100            |         | 1.86     | 0.000          | 0.017 | 0.017                 | 03/01/2018 | 13:01     |
| 4   | CAL4   | 0.05              | 1  | 100                 | 100            |         | 2.05     | 0.000          | 0.039 | 0.039                 | 03/01/2018 | 13:01     |
| 5   | CAL5   | 0.1               | 1  | 100                 | 100            |         | 1.77     | 0.000          | 0.078 | 0.078                 | 03/01/2018 | 13:02     |
| 6   | CAL6   | 0.5               | 1  | 100                 | 100            |         | 1.54     | 0.000          | 0.388 | 0.388                 | 03/01/2018 | 13:02     |
| 7   | CAL7   | 1                 | 1  | 100                 | 100            |         | 2.09     | 0.000          | 0.765 | 0.765                 | 03/01/2018 | 13:03     |



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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            |         | 1.98     | 0.000          | 0.390 | 0.390                 | 0.508  | 03/01/2018 | 15:10     |
| 2   | ICB             |                   | 1  | 100                 | 100            |         | 1.65     | 0.000          | 0.000 | 0.000                 | 0.000  | 03/01/2018 | 15:10     |
| 3   | CCV1            | 0.5               | 1  | 100                 | 100            |         | 2.07     | 0.000          | 0.390 | 0.390                 | 0.508  | 03/01/2018 | 15:11     |
| 4   | CCB1            |                   | 1  | 100                 | 100            |         | 2.41     | 0.000          | 0.000 | 0.000                 | 0.000  | 03/01/2018 | 15:11     |
| 5   | PB106985BL      |                   | 1  | 2.54                | 100            | 7.13    | 2.33     | 0.000          | 0.000 | 0.000                 | 0.000  | 03/01/2018 | 15:12     |
| 6   | PB106985BS      | 20                | 1  | 2.53                | 100            | 7.58    | 1.66     | 0.000          | 0.378 | 0.378                 | 0.493  | 03/01/2018 | 15:12     |
| 7   | J1708-01        |                   | 1  | 2.50                | 100            | 7.64    | 2.11     | 0.034          | 0.034 | 0.000                 | 0.000  | 03/01/2018 | 15:13     |
| 8   | J1709-01        |                   | 1  | 2.51                | 100            | 7.23    | 1.53     | 0.038          | 0.038 | 0.000                 | 0.000  | 03/01/2018 | 15:13     |
| 9   | J1710-01        |                   | 1  | 2.53                | 100            | 7.10    | 2.18     | 0.026          | 0.026 | 0.000                 | 0.000  | 03/01/2018 | 15:14     |
| 10  | J1710-04        |                   | 1  | 2.50                | 100            | 7.06    | 1.74     | 0.052          | 0.052 | 0.000                 | 0.000  | 03/01/2018 | 15:14     |
| 11  | J1710-07        |                   | 1  | 2.55                | 100            | 7.44    | 2.30     | 0.097          | 0.097 | 0.000                 | 0.000  | 03/01/2018 | 15:15     |
| 12  | J1712-01        |                   | 1  | 2.52                | 100            | 7.10    | 2.21     | 0.010          | 0.010 | 0.000                 | 0.000  | 03/01/2018 | 15:15     |
| 13  | J1712-01DUP     |                   | 1  | 2.51                | 100            | 7.91    | 1.78     | 0.009          | 0.009 | 0.000                 | 0.000  | 03/01/2018 | 15:16     |
| 14  | J1712-01MSPre   | 40                | 2  | 2.50                | 100            | 7.63    | 2.22     | 0.012          | 0.349 | 0.337                 | 0.439  | 03/01/2018 | 15:16     |
| 15  | CCV2            | 0.5               | 1  | 100                 | 100            |         | 2.36     | 0.000          | 0.391 | 0.391                 | 0.510  | 03/01/2018 | 15:17     |
| 16  | CCB2            |                   | 1  | 100                 | 100            |         | 1.64     | 0.000          | 0.000 | 0.000                 | 0.000  | 03/01/2018 | 15:17     |
| 17  | J1712-01MS2Ins  | 1284              | 40 | 2.55                | 100            | 7.21    | 1.59     | 0.007          | 0.583 | 0.576                 | 0.751  | 03/01/2018 | 15:18     |
| 18  | J1712-01MS3Post | 40                | 2  | 2.52                | 100            | 7.63    | 2.27     | 0.012          | 0.355 | 0.343                 | 0.447  | 03/01/2018 | 15:18     |
| 19  | J1720-01        |                   | 1  | 2.51                | 100            | 7.90    | 1.90     | 0.005          | 0.005 | 0.000                 | 0.000  | 03/01/2018 | 15:19     |
| 20  | J1720-03        |                   | 1  | 2.53                | 100            | 7.55    | 1.88     | 0.008          | 0.008 | 0.000                 | 0.000  | 03/01/2018 | 15:19     |
| 21  | J1720-05        |                   | 1  | 2.50                | 100            | 7.16    | 2.37     | 0.011          | 0.011 | 0.000                 | 0.000  | 03/01/2018 | 15:20     |
| 22  | J1720-07        |                   | 1  | 2.54                | 100            | 7.32    | 1.54     | 0.006          | 0.006 | 0.000                 | 0.000  | 03/01/2018 | 15:20     |
| 23  | J1720-09        |                   | 1  | 2.52                | 100            | 7.64    | 2.28     | 0.010          | 0.010 | 0.000                 | 0.000  | 03/01/2018 | 15:21     |
| 24  | J1720-11        |                   | 1  | 2.53                | 100            | 7.50    | 2.10     | 0.008          | 0.008 | 0.000                 | 0.000  | 03/01/2018 | 15:21     |
| 25  | J1720-13        |                   | 1  | 2.51                | 100            | 7.33    | 1.88     | 0.012          | 0.012 | 0.000                 | 0.000  | 03/01/2018 | 15:22     |
| 26  | J1720-15        |                   | 1  | 2.50                | 100            | 7.81    | 2.17     | 0.007          | 0.008 | 0.001                 | 0.001  | 03/01/2018 | 15:22     |
| 27  | CCV3            | 0.5               | 1  | 100                 | 100            |         | 2.38     | 0.000          | 0.391 | 0.391                 | 0.510  | 03/01/2018 | 15:23     |
| 28  | CCB3            |                   | 1  | 100                 | 100            |         | 2.29     | 0.000          | 0.000 | 0.000                 | 0.000  | 03/01/2018 | 15:23     |
| 29  | J1720-17        |                   | 1  | 2.52                | 100            | 7.43    | 1.60     | 0.005          | 0.005 | 0.000                 | 0.000  | 03/01/2018 | 15:24     |
| 30  | J1720-19        |                   | 1  | 2.55                | 100            | 7.21    | 1.78     | 0.009          | 0.009 | 0.000                 | 0.000  | 03/01/2018 | 15:24     |
| 31  | CCV4            | 0.5               | 1  | 100                 | 100            |         | 1.91     | 0.000          | 0.391 | 0.391                 | 0.510  | 03/01/2018 | 15:25     |
| 32  | CCB4            |                   | 1  | 100                 | 100            |         | 2.05     | 0.000          | 0.000 | 0.000                 | 0.000  | 03/01/2018 | 15:25     |