

# Analytical Summary Report

Analysis Method: 7196A

ANALYST: Indiana

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY: apatel

Run Number: LB85585

| Reagent/Standard                      | Lot/Log # |
|---------------------------------------|-----------|
| Calibration Std. hexchrome 0.1 ppm    | WP52563   |
| Calibration Std. hexchrome 0.05 ppm   | WP52562   |
| 5N sulfuric acid                      | WP50397   |
| Calibratation STD HexaChrome 1 PPM    | WP52565   |
| Calibratation STD Hexa Chrome 0.5 PPM | WP52564   |
| calibration std. hexchrome 0.01 ppm   | WP52560   |
| calibration std. hexchrome 0 ppm      | WP52559   |
| Hexavalent Chromium ICV Std.          | WP52569   |
| Hexavalent Chromium CCV Std           | WP52570   |
| hexavalent chromium color reagent     | WP52567   |
| HNO3 Hex-Chrome, 5M                   | WP51796   |
| Calibration std Hexachrome, 0.025ppm  | WP52561   |

Intercept: -0.0002

Slope: 0.7803

Regression: 0.999941

| Seq | Lab ID | True Value (mg/l) | DF | Initial Vol (ml/gm) | Final Vol (ml) | PH HNO3 | PH H2so4 | Absorbance |       | Absorbance Difference | Anal Date  | Anal Time |
|-----|--------|-------------------|----|---------------------|----------------|---------|----------|------------|-------|-----------------------|------------|-----------|
|     |        |                   |    |                     |                |         |          | Backgrnd   | Color |                       |            |           |
| 1   | CAL1   | 0                 | 1  | 100                 | 100            |         | 1.90     | 0.000      | 0.000 | 0.000                 | 01/30/2017 | 12:10     |
| 2   | CAL2   | 0.01              | 1  | 100                 | 100            |         | 2.20     | 0.000      | 0.008 | 0.008                 | 01/30/2017 | 12:10     |
| 3   | CAL3   | 0.025             | 1  | 100                 | 100            |         | 1.52     | 0.000      | 0.016 | 0.016                 | 01/30/2017 | 12:11     |
| 4   | CAL4   | 0.05              | 1  | 100                 | 100            |         | 2.07     | 0.000      | 0.037 | 0.037                 | 01/30/2017 | 12:11     |
| 5   | CAL5   | 0.1               | 1  | 100                 | 100            |         | 2.35     | 0.000      | 0.079 | 0.079                 | 01/30/2017 | 12:12     |
| 6   | CAL6   | 0.5               | 1  | 100                 | 100            |         | 2.46     | 0.000      | 0.396 | 0.396                 | 01/30/2017 | 12:12     |
| 7   | CAL7   | 1                 | 1  | 100                 | 100            |         | 2.05     | 0.000      | 0.777 | 0.777                 | 01/30/2017 | 12:13     |



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Run Number: LB85585

| Seq | Lab ID          | True Value (mg/l) | DF | Initial Vol (ml/gm) | Final Vol (ml) | PH HN03 | PH H2so4 | Absorbance |       | Absorbance Difference | Result | Anal Date  | Anal Time |
|-----|-----------------|-------------------|----|---------------------|----------------|---------|----------|------------|-------|-----------------------|--------|------------|-----------|
|     |                 |                   |    |                     |                |         |          | Backgrnd   | Color |                       |        |            |           |
| 1   | ICV             | 0.5               | 1  | 100                 | 100            |         | 2.33     | 0.000      | 0.389 | 0.389                 | 0.499  | 01/30/2017 | 12:13     |
| 2   | ICB             |                   | 1  | 100                 | 100            |         | 1.70     | 0.000      | 0.000 | 0.000                 | 0.000  | 01/30/2017 | 12:14     |
| 3   | CCV1            | 0.5               | 1  | 100                 | 100            |         | 2.39     | 0.000      | 0.390 | 0.390                 | 0.500  | 01/30/2017 | 12:14     |
| 4   | CCB1            |                   | 1  | 100                 | 100            |         | 1.88     | 0.000      | 0.000 | 0.000                 | 0.000  | 01/30/2017 | 12:15     |
| 5   | PB96537BL       |                   | 1  | 2.50                | 100            | 7.59    | 2.49     | 0.000      | 0.000 | 0.000                 | 0.000  | 01/30/2017 | 12:15     |
| 6   | PB96537BS       | 20                | 1  | 2.51                | 100            | 7.23    | 2.40     | 0.001      | 0.346 | 0.345                 | 0.442  | 01/30/2017 | 12:16     |
| 7   | I1448-06        |                   | 1  | 2.53                | 100            | 7.04    | 2.31     | 0.005      | 0.005 | 0.000                 | 0.000  | 01/30/2017 | 12:16     |
| 8   | I1448-06DUP     |                   | 1  | 2.53                | 100            | 7.16    | 2.27     | 0.005      | 0.005 | 0.000                 | 0.000  | 01/30/2017 | 12:17     |
| 9   | I1448-06MSPre   | 40                | 2  | 2.53                | 100            | 7.40    | 2.10     | 0.019      | 0.155 | 0.136                 | 0.175  | 01/30/2017 | 12:17     |
| 10  | I1448-06MS2Ins  | 1284              | 40 | 2.53                | 100            | 7.82    | 2.24     | 0.006      | 0.610 | 0.604                 | 0.774  | 01/30/2017 | 12:18     |
| 11  | I1448-06MS3Post | 40                | 2  | 2.53                | 100            | 7.33    | 2.15     | 0.024      | 0.355 | 0.331                 | 0.424  | 01/30/2017 | 12:18     |
| 12  | I1448-07        |                   | 1  | 2.53                | 100            | 7.25    | 2.38     | 0.006      | 0.006 | 0.000                 | 0.000  | 01/30/2017 | 12:19     |
| 13  | I1448-08        |                   | 1  | 2.54                | 100            | 7.66    | 2.31     | 0.010      | 0.010 | 0.000                 | 0.000  | 01/30/2017 | 12:19     |
| 14  | I1529-01        |                   | 1  | 2.55                | 100            | 7.34    | 2.15     | 0.012      | 0.012 | 0.000                 | 0.000  | 01/30/2017 | 12:20     |
| 15  | CCV2            | 0.5               | 1  | 100                 | 100            |         | 2.04     | 0.000      | 0.390 | 0.390                 | 0.500  | 01/30/2017 | 12:20     |
| 16  | CCB2            |                   | 1  | 100                 | 100            |         | 1.98     | 0.000      | 0.000 | 0.000                 | 0.000  | 01/30/2017 | 12:21     |
| 17  | I1529-02        |                   | 1  | 2.52                | 100            | 7.21    | 1.62     | 0.017      | 0.017 | 0.000                 | 0.000  | 01/30/2017 | 12:21     |
| 18  | I1529-03        |                   | 1  | 2.50                | 100            | 7.45    | 2.01     | 0.007      | 0.007 | 0.000                 | 0.000  | 01/30/2017 | 12:22     |
| 19  | I1552-01        |                   | 1  | 2.51                | 100            | 7.51    | 2.41     | 0.018      | 0.018 | 0.000                 | 0.000  | 01/30/2017 | 12:22     |
| 20  | I1553-01        |                   | 1  | 2.51                | 100            | 7.79    | 1.79     | 0.029      | 0.029 | 0.000                 | 0.000  | 01/30/2017 | 12:23     |
| 21  | I1554-01        |                   | 1  | 2.50                | 100            | 7.13    | 1.85     | 0.025      | 0.025 | 0.000                 | 0.000  | 01/30/2017 | 12:23     |
| 22  | I1555-01        |                   | 1  | 2.52                | 100            | 7.28    | 2.04     | 0.023      | 0.023 | 0.000                 | 0.000  | 01/30/2017 | 12:24     |
| 23  | I1569-05        |                   | 1  | 2.50                | 100            | 7.38    | 1.86     | 0.020      | 0.020 | 0.000                 | 0.000  | 01/30/2017 | 12:24     |
| 24  | CCV3            | 0.5               | 1  | 100                 | 100            |         | 2.17     | 0.000      | 0.390 | 0.390                 | 0.500  | 01/30/2017 | 12:25     |
| 25  | CCB3            |                   | 1  | 100                 | 100            |         | 2.44     | 0.000      | 0.000 | 0.000                 | 0.000  | 01/30/2017 | 12:25     |