

# Analytical Summary Report

Analysis Method: 7196A

ANALYST: Indiana

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY: apatel

Run Number: LB88480

pH Meter ID: WC pH meter-1

| Reagent/Standard                      | Lot/Log # |
|---------------------------------------|-----------|
| Calibration Std. hexchrome 0.1 ppm    | WP56079   |
| Calibration Std. hexchrome 0.05 ppm   | WP56078   |
| 5N sulfuric acid                      | WP55256   |
| Hexavalent Chromium LCS Std           | WP56085   |
| Calibratation STD HexaChrome 1 PPM    | WP56082   |
| Calibratation STD Hexa Chrome 0.5 PPM | WP56081   |
| calibration std. hexchrome 0.01 ppm   | WP56072   |
| calibration std. hexchrome 0 ppm      | WP56070   |
| Hexavalent Chromium ICV Std.          | WP56083   |
| Hexavalent Chromium CCV Std           | WP56084   |
| hexavalent chromium color reagent     | WP56010   |
| Calibration std Hexachrome, 0.025ppm  | WP56080   |

Intercept: -0.0001

Slope: 0.7801

Regression: 0.999947

| 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            |         | 2.15     | 0.000          | 0.000 | 0.000                 | 06/30/2017 | 14:10     |
| 2   | CAL2   | 0.01              | 1  | 100                 | 100            |         | 1.58     | 0.000          | 0.006 | 0.006                 | 06/30/2017 | 14:10     |
| 3   | CAL3   | 0.025             | 1  | 100                 | 100            |         | 2.10     | 0.000          | 0.017 | 0.017                 | 06/30/2017 | 14:11     |
| 4   | CAL4   | 0.05              | 1  | 100                 | 100            |         | 1.86     | 0.000          | 0.039 | 0.039                 | 06/30/2017 | 14:11     |
| 5   | CAL5   | 0.1               | 1  | 100                 | 100            |         | 1.97     | 0.000          | 0.079 | 0.079                 | 06/30/2017 | 14:12     |
| 6   | CAL6   | 0.5               | 1  | 100                 | 100            |         | 2.44     | 0.000          | 0.396 | 0.396                 | 06/30/2017 | 14:12     |
| 7   | CAL7   | 1                 | 1  | 100                 | 100            |         | 2.30     | 0.000          | 0.777 | 0.777                 | 06/30/2017 | 14:13     |



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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            |         | 2.46     | 0.000          | 0.389 | 0.389                 | 0.499  | 06/30/2017 | 14:50     |
| 2   | ICB         |                   | 1  | 100                 | 100            |         | 1.75     | 0.000          | 0.000 | 0.000                 | 0.000  | 06/30/2017 | 14:50     |
| 3   | CCV1        | 0.5               | 1  | 100                 | 100            |         | 1.69     | 0.000          | 0.395 | 0.395                 | 0.506  | 06/30/2017 | 14:51     |
| 4   | CCB1        |                   | 1  | 100                 | 100            |         | 1.78     | 0.000          | 0.000 | 0.000                 | 0.000  | 06/30/2017 | 14:51     |
| 5   | LB88480BL   |                   | 1  | 100                 | 100            |         | 1.86     | 0.000          | 0.000 | 0.000                 | 0.000  | 06/30/2017 | 14:52     |
| 6   | LB88480BS   | 0.5               | 1  | 100                 | 100            |         | 1.90     | 0.000          | 0.383 | 0.383                 | 0.491  | 06/30/2017 | 14:52     |
| 7   | I4004-06    |                   | 1  | 100                 | 100            |         | 2.03     | 0.002          | 0.002 | 0.000                 | 0.000  | 06/30/2017 | 14:53     |
| 8   | I4004-06DUP |                   | 1  | 100                 | 100            |         | 2.09     | 0.002          | 0.002 | 0.000                 | 0.000  | 06/30/2017 | 14:53     |
| 9   | I4004-06MS  | 1                 | 2  | 100                 | 100            |         | 2.31     | 0.002          | 0.402 | 0.400                 | 0.513  | 06/30/2017 | 14:54     |
| 10  | I4004-06MSD | 1                 | 2  | 100                 | 100            |         | 2.18     | 0.003          | 0.400 | 0.397                 | 0.509  | 06/30/2017 | 14:54     |
| 11  | I4020-01    |                   | 1  | 100                 | 100            |         | 2.21     | 0.001          | 0.001 | 0.000                 | 0.000  | 06/30/2017 | 14:55     |
| 12  | I4020-04    |                   | 1  | 100                 | 100            |         | 2.29     | 0.006          | 0.006 | 0.000                 | 0.000  | 06/30/2017 | 14:55     |
| 13  | CCV2        | 0.5               | 1  | 100                 | 100            |         | 2.14     | 0.000          | 0.397 | 0.397                 | 0.509  | 06/30/2017 | 14:56     |
| 14  | CCB2        |                   | 1  | 100                 | 100            |         | 2.01     | 0.000          | 0.000 | 0.000                 | 0.000  | 06/30/2017 | 14:56     |

2B88480

## WORKLIST(Hardcopy Internal Chain)

WorkList Name : Hex063017

WorkList ID : 100295

Date : 6/30/2017 10:42:08 AM

| Due Date   | Matrix | Sample   | Test                | Preservative | Customer | Storage Location | Customer Sample | Collect Date | Method |
|------------|--------|----------|---------------------|--------------|----------|------------------|-----------------|--------------|--------|
|            | Water  | I4004-06 | Hexavalent Chromium | Cool 4 deg C | PARS15   | P61              | C1Y-FB062917    | 06/29/2017   | 7196A  |
| 07/01/2017 | Water  | I4020-01 | Hexavalent Chromium | Cool 4 deg C | PSEG01   | D41              | HDD-WATER       | 06/30/2017   | 7196A  |
| 07/01/2017 | Water  | I4020-04 | Hexavalent Chromium | Cool 4 deg C | PSEG01   | D41              | HDD-SHEEN       | 06/30/2017   | 7196A  |

Date/Time 6-30-17 13:10

Received by: AKRelinquished by: AK

Date/Time 6-30-17 15:20

Received by: CPRelinquished by: AK