

# Analytical Summary Report

Analysis Method: 7196A

ANALYST: chirag

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY: apatel

Run Number: LB104431

pH Meter ID: WC PH METER-1

| Reagent/Standard                      | Lot/Log # |
|---------------------------------------|-----------|
| Calibratation STD HexaChrome 1 PPM    | WP77095   |
| Calibratation STD Hexa Chrome 0.5 PPM | WP77094   |
| Calibration Std. hexchrome 0.1 ppm    | WP77093   |
| Calibration Std. hexchrome 0.05 ppm   | WP77092   |
| calibration std. hexchrome 0.01 ppm   | WP77090   |
| calibration std. hexchrome 0 ppm      | WP77089   |
| Hexavalent Chromium ICV Std.          | WP77097   |
| Hexavalent Chromium CCV Std           | WP77096   |
| Hexavalent Chromium LCS Std           | WP77098   |
| hexavalent chromium color reagent     | WP77016   |
| 5N sulfuric acid                      | WP76600   |
| Calibration std Hexachrome, 0.025ppm  | WP77091   |

Intercept: 0.0002

Slope: 0.8011

Regression: 0.999996

| 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            |         | 1.69     | 0.000          | 0.000 | 0.000                 | 08/05/2019 | 12:05     |
| 2   | CAL2   | 0.01              | 1  | 100                 | 100            |         | 1.82     | 0.000          | 0.008 | 0.008                 | 08/05/2019 | 12:06     |
| 3   | CAL3   | 0.025             | 1  | 100                 | 100            |         | 2.01     | 0.000          | 0.021 | 0.021                 | 08/05/2019 | 12:07     |
| 4   | CAL4   | 0.05              | 1  | 100                 | 100            |         | 2.11     | 0.000          | 0.040 | 0.040                 | 08/05/2019 | 12:08     |
| 5   | CAL5   | 0.1               | 1  | 100                 | 100            |         | 1.89     | 0.000          | 0.081 | 0.081                 | 08/05/2019 | 12:09     |
| 6   | CAL6   | 0.5               | 1  | 100                 | 100            |         | 1.92     | 0.000          | 0.399 | 0.399                 | 08/05/2019 | 12:10     |
| 7   | CAL7   | 1                 | 1  | 100                 | 100            |         | 1.96     | 0.000          | 0.802 | 0.802                 | 08/05/2019 | 12:11     |

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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            |         | 2.10     | 0.000          | 0.390 | 0.390                 | 0.487  | 08/05/2019 | 12:12     |
| 2   | ICB             |                   | 1  | 100                 | 100            |         | 1.65     | 0.000          | 0.000 | 0.000                 | 0.000  | 08/05/2019 | 12:13     |
| 3   | CCV1            | 0.5               | 1  | 100                 | 100            |         | 2.01     | 0.000          | 0.399 | 0.399                 | 0.498  | 08/05/2019 | 12:15     |
| 4   | CCB1            |                   | 1  | 100                 | 100            |         | 2.05     | 0.000          | 0.000 | 0.000                 | 0.000  | 08/05/2019 | 12:15     |
| 5   | PB122000BL      |                   | 1  | 2.52                | 100            | 7.25    | 2.01     | 0.000          | 0.000 | 0.000                 | 0.000  | 08/05/2019 | 12:16     |
| 6   | PB122000BS      | 20                | 1  | 2.52                | 100            | 7.12    | 2.05     | 0.000          | 0.375 | 0.375                 | 0.468  | 08/05/2019 | 12:16     |
| 7   | K4093-01        |                   | 1  | 2.53                | 100            | 7.65    | 1.56     | 0.013          | 0.013 | 0.000                 | 0.000  | 08/05/2019 | 12:17     |
| 8   | K4093-01DUP     |                   | 1  | 2.51                | 100            | 7.85    | 1.56     | 0.013          | 0.013 | 0.000                 | 0.000  | 08/05/2019 | 12:17     |
| 9   | K4093-01MSPre   | 40                | 2  | 2.50                | 100            | 7.65    | 1.56     | 0.013          | 0.362 | 0.349                 | 0.435  | 08/05/2019 | 12:18     |
| 10  | K4093-01MS2Ins  | 1284              | 40 | 2.53                | 100            | 7.12    | 2.10     | 0.013          | 0.670 | 0.657                 | 0.820  | 08/05/2019 | 12:19     |
| 11  | K4093-01MS3Post | 40                | 2  | 2.54                | 100            | 7.50    | 2.05     | 0.013          | 0.410 | 0.397                 | 0.495  | 08/05/2019 | 12:19     |
| 12  | K4141-01        |                   | 1  | 2.51                | 100            | 7.15    | 2.05     | 0.033          | 0.033 | 0.000                 | 0.000  | 08/05/2019 | 12:20     |
| 13  | K4141-02        |                   | 1  | 2.54                | 100            | 7.66    | 1.56     | 0.037          | 0.037 | 0.000                 | 0.000  | 08/05/2019 | 12:20     |
| 14  | K4141-03        |                   | 1  | 2.52                | 100            | 7.16    | 1.60     | 0.033          | 0.033 | 0.000                 | 0.000  | 08/05/2019 | 12:21     |
| 15  | CCV2            | 0.5               | 1  | 100                 | 100            |         | 1.56     | 0.000          | 0.401 | 0.401                 | 0.500  | 08/05/2019 | 12:21     |
| 16  | CCB2            |                   | 1  | 100                 | 100            |         | 1.56     | 0.000          | 0.000 | 0.000                 | 0.000  | 08/05/2019 | 12:22     |
| 17  | K4141-04        |                   | 1  | 2.53                | 100            | 7.15    | 1.60     | 0.108          | 0.404 | 0.296                 | 0.369  | 08/05/2019 | 12:23     |
| 18  | K4141-05        |                   | 1  | 2.52                | 100            | 7.50    | 1.65     | 0.098          | 0.282 | 0.184                 | 0.229  | 08/05/2019 | 12:23     |
| 19  | K4141-06        |                   | 1  | 2.54                | 100            | 7.50    | 2.10     | 0.058          | 0.058 | 0.000                 | 0.000  | 08/05/2019 | 12:24     |
| 20  | K4141-07        |                   | 1  | 2.51                | 100            | 7.25    | 1.65     | 0.021          | 0.048 | 0.027                 | 0.033  | 08/05/2019 | 12:25     |
| 21  | K4141-08        |                   | 1  | 2.52                | 100            | 7.15    | 2.05     | 0.043          | 0.043 | 0.000                 | 0.000  | 08/05/2019 | 12:35     |
| 22  | K4141-09        |                   | 1  | 2.55                | 100            | 7.12    | 2.01     | 0.030          | 0.030 | 0.000                 | 0.000  | 08/05/2019 | 12:26     |
| 23  | K4141-10        |                   | 1  | 2.51                | 100            | 7.85    | 1.60     | 0.041          | 0.041 | 0.000                 | 0.000  | 08/05/2019 | 12:27     |
| 24  | K4141-11        |                   | 1  | 2.52                | 100            | 7.85    | 1.56     | 0.043          | 0.043 | 0.000                 | 0.000  | 08/05/2019 | 12:27     |
| 25  | K4141-12        |                   | 1  | 2.51                | 100            | 7.12    | 2.10     | 0.059          | 0.071 | 0.012                 | 0.015  | 08/05/2019 | 12:28     |
| 26  | K4141-13        |                   | 1  | 2.51                | 100            | 7.65    | 2.05     | 0.022          | 0.022 | 0.000                 | 0.000  | 08/05/2019 | 12:29     |
| 27  | CCV3            | 0.5               | 1  | 100                 | 100            |         | 2.05     | 0.000          | 0.400 | 0.400                 | 0.499  | 08/05/2019 | 12:30     |
| 28  | CCB3            |                   | 1  | 100                 | 100            |         | 1.56     | 0.000          | 0.000 | 0.000                 | 0.000  | 08/05/2019 | 12:31     |
| 29  | K4141-14        |                   | 1  | 2.52                | 100            | 7.15    | 2.01     | 0.044          | 0.044 | 0.000                 | 0.000  | 08/05/2019 | 12:31     |
| 30  | K4141-15        |                   | 1  | 2.50                | 100            | 7.50    | 2.01     | 0.021          | 0.021 | 0.000                 | 0.000  | 08/05/2019 | 12:32     |
| 31  | K4141-16        |                   | 1  | 2.51                | 100            | 7.12    | 1.60     | 0.106          | 0.128 | 0.022                 | 0.027  | 08/05/2019 | 12:33     |
| 32  | K4141-17        |                   | 1  | 2.52                | 100            | 7.65    | 2.10     | 0.081          | 0.101 | 0.020                 | 0.025  | 08/05/2019 | 12:34     |
| 33  | K4141-18        |                   | 1  | 2.53                | 100            | 7.85    | 2.01     | 0.039          | 0.360 | 0.321                 | 0.400  | 08/05/2019 | 12:35     |
| 34  | K4141-19        |                   | 1  | 2.53                | 100            | 7.15    | 1.56     | 0.062          | 0.062 | 0.000                 | 0.000  | 08/05/2019 | 12:37     |
| 35  | K4141-20        |                   | 1  | 2.51                | 100            | 7.85    | 1.60     | 0.027          | 0.027 | 0.000                 | 0.000  | 08/05/2019 | 12:38     |
| 36  | K4141-21        |                   | 1  | 2.52                | 100            | 7.50    | 1.56     | 0.031          | 0.031 | 0.000                 | 0.000  | 08/05/2019 | 12:39     |
| 37  | K4141-22        |                   | 1  | 2.55                | 100            | 7.85    | 1.60     | 0.102          | 0.262 | 0.160                 | 0.199  | 08/05/2019 | 12:40     |
| 38  | CCV4            | 0.5               | 1  | 100                 | 100            |         | 1.60     | 0.000          | 0.401 | 0.401                 | 0.500  | 08/05/2019 | 12:41     |
| 39  | CCB4            |                   | 1  | 100                 | 100            |         | 1.56     | 0.000          | 0.000 | 0.000                 | 0.000  | 08/05/2019 | 12:42     |