CHEMTECH

# Analytical Summary Report

Analysis Method: 7196A
Parameter: Hexavalent Chromium
Run Number: LB99066

ANALYST: Indiana
SUPERVISOR REVIEW BY: apatel
pH Meter ID: WC pH Meter-1

| Reagent/Standard | Lot/Log # |
|---|---|
| Calibration Std. hexchrome 0.1 ppm | WP69369 |
| Calibration Std. hexchrome 0.05 ppm | WP69368 |
| 5N sulfuric acid | WP65054 |
| Calibratation STD HexaChrome 1 PPM | WP69370 |
| Calibratation STD Hexa Chrome 0.5 PPM | WP69374 |
| calibration std. hexchrome 0.01 ppm | WP69366 |
| calibration std. hexchrome 0 ppm | WP69363 |
| Hexavalent Chromium ICV Std. | WP69371 |
| Hexavalent Chromium CCV Std | WP69372 |
| hexavalent chromium color reagent | WP69345 |
| HNO3 Hex-Chrome, 5M | WP65055 |
| Calibration std Hexachrome, 0.025ppm | WP69367 |

**Intercept:** -0.0004 **Slope:** 0.7724 **Regression:** 0.999975

| 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 | | 1.60 | 0.000 | 0.000 | 0.000 | 11/06/2018 | 15:10 |
| 2 | CAL2 | 0.01 | 1 | 100 | 100 | | 1.83 | 0.000 | 0.007 | 0.007 | 11/06/2018 | 15:10 |
| 3 | CAL3 | 0.025 | 1 | 100 | 100 | | 2.10 | 0.000 | 0.017 | 0.017 | 11/06/2018 | 15:11 |
| 4 | CAL4 | 0.05 | 1 | 100 | 100 | | 2.15 | 0.000 | 0.038 | 0.038 | 11/06/2018 | 15:11 |
| 5 | CAL5 | 0.1 | 1 | 100 | 100 | | 2.44 | 0.000 | 0.077 | 0.077 | 11/06/2018 | 15:12 |
| 6 | CAL6 | 0.5 | 1 | 100 | 100 | | 2.21 | 0.000 | 0.390 | 0.390 | 11/06/2018 | 15:12 |
| 7 | CAL7 | 1 | 1 | 100 | 100 | | 1.87 | 0.000 | 0.770 | 0.770 | 11/06/2018 | 15:13 |

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Parameter: Hexavalent Chromium
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Run Number: LB99066
pH Meter ID: WC pH Meter-1

| 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 | | 2.16 | 0.000 | 0.392 | 0.392 | 0.508 | 11/06/2018 | 15:13 |
| 2 | ICB | | 1 | 100 | 100 | | 1.89 | 0.000 | 0.000 | 0.000 | 0.001 | 11/06/2018 | 15:14 |
| 3 | CCV1 | 0.5 | 1 | 100 | 100 | | 1.66 | 0.000 | 0.392 | 0.392 | 0.508 | 11/06/2018 | 15:14 |
| 4 | CCB1 | | 1 | 100 | 100 | | 2.04 | 0.000 | 0.000 | 0.000 | 0.001 | 11/06/2018 | 15:15 |
| 5 | PB114566BL | | 1 | 2.52 | 100 | 7.18 | 1.62 | 0.000 | 0.000 | 0.000 | 0.001 | 11/06/2018 | 15:15 |
| 6 | PB114566BS | 20 | 1 | 2.53 | 100 | 7.32 | 2.44 | 0.000 | 0.374 | 0.374 | 0.485 | 11/06/2018 | 15:16 |
| 7 | J5765-01 | | 1 | 2.50 | 100 | 7.76 | 2.30 | 0.032 | 0.033 | 0.001 | 0.002 | 11/06/2018 | 15:16 |
| 8 | J5772-01 | | 1 | 2.53 | 100 | 7.51 | 1.77 | 0.036 | 0.036 | 0.000 | 0.001 | 11/06/2018 | 15:17 |
| 9 | J5826-03 | | 1 | 2.55 | 100 | 7.06 | 1.63 | 0.014 | 0.018 | 0.004 | 0.006 | 11/06/2018 | 15:17 |
| 10 | J5826-07 | | 1 | 2.54 | 100 | 7.88 | 1.57 | 0.019 | 0.022 | 0.003 | 0.004 | 11/06/2018 | 15:18 |
| 11 | J5826-11 | | 1 | 2.50 | 100 | 7.94 | 2.05 | 0.016 | 0.017 | 0.001 | 0.002 | 11/06/2018 | 15:18 |
| 12 | J5827-01 | | 1 | 2.51 | 100 | 7.63 | 2.17 | 0.010 | 0.016 | 0.006 | 0.008 | 11/06/2018 | 15:19 |
| 13 | J5827-01DUP | | 1 | 2.52 | 100 | 7.21 | 2.33 | 0.011 | 0.017 | 0.006 | 0.008 | 11/06/2018 | 15:19 |
| 14 | J5827-01MSPre | 40 | 2 | 2.53 | 100 | 7.65 | 1.65 | 0.013 | 0.373 | 0.360 | 0.467 | 11/06/2018 | 15:20 |
| 15 | CCV2 | 0.5 | 1 | 100 | 100 | | 1.81 | 0.000 | 0.392 | 0.392 | 0.508 | 11/06/2018 | 15:20 |
| 16 | CCB2 | | 1 | 100 | 100 | | 2.28 | 0.000 | 0.000 | 0.000 | 0.001 | 11/06/2018 | 15:21 |
| 17 | J5827-01MS2Ins | 1284 | 40 | 2.55 | 100 | 7.33 | 2.31 | 0.008 | 0.603 | 0.595 | 0.771 | 11/06/2018 | 15:21 |
| 18 | J5827-01MS3Post | 40 | 2 | 2.50 | 100 | 7.16 | 1.53 | 0.014 | 0.376 | 0.362 | 0.469 | 11/06/2018 | 15:22 |
| 19 | J5827-11 | | 1 | 2.54 | 100 | 7.32 | 1.90 | 0.027 | 0.029 | 0.002 | 0.003 | 11/06/2018 | 15:22 |
| 20 | J5827-21 | | 1 | 2.50 | 100 | 7.47 | 2.07 | 0.035 | 0.035 | 0.000 | 0.001 | 11/06/2018 | 15:23 |
| 21 | J5827-31 | | 1 | 2.51 | 100 | 7.50 | 2.41 | 0.024 | 0.077 | 0.053 | 0.069 | 11/06/2018 | 15:23 |
| 22 | J5827-41 | | 1 | 2.50 | 100 | 7.32 | 1.83 | 0.018 | 0.019 | 0.001 | 0.002 | 11/06/2018 | 15:24 |
| 23 | CCV3 | 0.5 | 1 | 100 | 100 | | 1.74 | 0.000 | 0.393 | 0.393 | 0.509 | 11/06/2018 | 15:24 |
| 24 | CCB3 | | 1 | 100 | 100 | | 2.47 | 0.000 | 0.000 | 0.000 | 0.001 | 11/06/2018 | 15:25 |