

# Analytical Summary Report

Analysis Method: 7196A

ANALYST: ketankumar

Parameter: SPLP Hexavalent Chromium

SUPERVISOR REVIEW BY: apatel

Run Number: LB113806

pH Meter ID: WC pH Meter-1

| Reagent/Standard                         | Lot/Log # |
|------------------------------------------|-----------|
| Calibration Std. hexchrome 0.1 ppm       | WP90306   |
| Calibration Std. hexchrome 0.05 ppm      | WP90307   |
| calibration std. hexchrome 0.01 ppm      | WP90308   |
| calibration std. hexchrome 0 ppm         | WP90309   |
| hexavalent chromium color reagent        | WP90302   |
| 5N sulfuric acid                         | WP88023   |
| HNO3 Hex-Chrome, 5M                      | WP88022   |
| Hexchrome Cleaning Solution              | WP89916   |
| Calibration Std Hexachrome 0.025 ppm     | WP90310   |
| Hexavalent Chromium ICV-LCS Std          | WP90311   |
| Calibration and CCV std HexChrome 0.5PPM | WP90305   |
| Calibration std HexChrome 1.0PPM         | WP90304   |

Intercept: -0.0007

Slope: 0.7809

Regression: 0.999995

| Seq | Lab ID | True Value (mg/l) | DF | Initial Vol (ml) | Final Vol (ml) | pH HNO3 | pH H2SO4 | Absorb.at 540nm |       | Absorbance Difference | Result (mg/L) | %D  | Anal Date  | Anal Time |
|-----|--------|-------------------|----|------------------|----------------|---------|----------|-----------------|-------|-----------------------|---------------|-----|------------|-----------|
|     |        |                   |    |                  |                |         |          | Backgrnd        | Color |                       |               |     |            |           |
| 1   | CAL1   | 0                 | 1  | 100              | 100            |         | 2.07     | 0.000           | 0.000 | 0.000                 | 0.000         |     | 04/02/2021 | 14:15     |
| 2   | CAL2   | 0.01              | 1  | 100              | 100            |         | 1.96     | 0.000           | 0.006 | 0.006                 | 0.008         | 20  | 04/02/2021 | 14:16     |
| 3   | CAL3   | 0.025             | 1  | 100              | 100            |         | 1.85     | 0.000           | 0.018 | 0.018                 | 0.023         | 8   | 04/02/2021 | 14:17     |
| 4   | CAL4   | 0.05              | 1  | 100              | 100            |         | 1.74     | 0.000           | 0.038 | 0.038                 | 0.049         | 2   | 04/02/2021 | 14:18     |
| 5   | CAL5   | 0.1               | 1  | 100              | 100            |         | 2.06     | 0.000           | 0.079 | 0.079                 | 0.102         | -2  | 04/02/2021 | 14:19     |
| 6   | CAL6   | 0.5               | 1  | 100              | 100            |         | 1.96     | 0.000           | 0.390 | 0.390                 | 0.500         | 0   | 04/02/2021 | 14:20     |
| 7   | CAL7   | 1                 | 1  | 100              | 100            |         | 2.07     | 0.000           | 0.780 | 0.780                 | 0.999         | 0.1 | 04/02/2021 | 14:21     |

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Parameter: SPLP Hexavalent Chromium

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Run Number: LB113806

pH Meter ID: WC pH Meter-1

| Seq | Lab ID     | True Value | DF | Initial Vol (ml/gm) | Final Vol (ml) | pH HN03 | pH H2SO4 | Absorb.at540nm |       | Absorbance Difference | Intermediate Result (mg/L) | Anal Date  | Anal Time |
|-----|------------|------------|----|---------------------|----------------|---------|----------|----------------|-------|-----------------------|----------------------------|------------|-----------|
|     |            |            |    |                     |                |         |          | Backgrnd       | Color |                       |                            |            |           |
| 1   | ICV        | 0.5        | 1  | 100                 | 100            |         | 2.32     | 0.000          | 0.378 | 0.378                 | 0.485                      | 04/02/2021 | 14:22     |
| 2   | ICB        |            | 1  | 100                 | 100            |         | 2.16     | 0.000          | 0.000 | 0.000                 | 0.001                      | 04/02/2021 | 14:23     |
| 3   | CCV1       | 0.5        | 1  | 100                 | 100            |         | 2.25     | 0.000          | 0.382 | 0.382                 | 0.490                      | 04/02/2021 | 14:24     |
| 4   | CCB1       |            | 1  | 100                 | 100            |         | 2.09     | 0.000          | 0.000 | 0.000                 | 0.001                      | 04/02/2021 | 14:25     |
| 5   | RL Check   | 0.01       | 1  | 100                 | 100            |         | 1.77     | 0.000          | 0.007 | 0.007                 | 0.010                      | 04/02/2021 | 14:26     |
| 6   | LB113806BL |            | 1  | 100                 | 100            |         | 1.96     | 0.000          | 0.000 | 0.000                 | 0.001                      | 04/02/2021 | 14:27     |
| 7   | LB113806BS | 0.5        | 1  | 100                 | 100            |         | 1.85     | 0.000          | 0.408 | 0.408                 | 0.523                      | 04/02/2021 | 14:28     |
| 8   | M1894-04   |            | 1  | 100                 | 100            |         | 2.14     | 0.004          | 0.004 | 0.000                 | 0.001                      | 04/02/2021 | 14:29     |
| 9   | M1894-04DU |            | 1  | 100                 | 100            |         | 2.34     | 0.003          | 0.003 | 0.000                 | 0.001                      | 04/02/2021 | 14:30     |
| 10  | M1894-04MS | 1          | 2  | 100                 | 100            |         | 2.28     | 0.004          | 0.007 | 0.003                 | 0.005                      | 04/02/2021 | 14:31     |
| 11  | M1894-04MS | 1          | 2  | 100                 | 100            |         | 1.78     | 0.003          | 0.006 | 0.003                 | 0.005                      | 04/02/2021 | 14:32     |
| 12  | CCV2       | 0.5        | 1  | 100                 | 100            |         | 1.96     | 0.000          | 0.381 | 0.381                 | 0.489                      | 04/02/2021 | 14:33     |
| 13  | CCB2       |            | 1  | 100                 | 100            |         | 2.17     | 0.000          | 0.000 | 0.000                 | 0.001                      | 04/02/2021 | 14:34     |

# WORKLIST(Hardcopy Internal Chain)

LB 113806

WorkList Name : SPLPHEX4221      WorkList ID : 147708      Department : Distillation      Date : 04-02-2021 13:52:52

| Due Date   | Matrix | Sample   | Test                  | Preservative | Customer | Storage Location | Customer Sample        | Collect Date | Method |
|------------|--------|----------|-----------------------|--------------|----------|------------------|------------------------|--------------|--------|
| 04/15/2021 | Solid  | M1894-04 | SPLP Hexavalent Chron | Cool 4 deg C | AQUA04   | L31              | 20210156-AMENDED-CP-CO | 03/30/2021   | 7196A  |

Date/Time N/A  
 Received by: ( )  
 Relinquished by: ( )

Date/Time N/A  
 Received by: ( )  
 Relinquished by: ( )