

**Analytical Summary Report**Analysis Method: SM4500-P EANALYST: AMANDEEPParameter: Phosphorus-OrthoSUPERVISOR REVIEW BY: apatelRun Number: LB93476

| Reagent/Standard                    | Lot/Log # |
|-------------------------------------|-----------|
| 5N sulfuric acid                    | WP61786   |
| phosphate LCS std                   | WP62229   |
| calibration std. phosphate 1 ppm    | WP62226   |
| calibration std. phosphate 0.5 ppm  | WP62225   |
| calibration std. phosphate 0.3 ppm  | WP62224   |
| calibration std. 0 ppm              | WP62221   |
| phosphate ICV std.                  | WP62228   |
| phosphate CCV std.                  | WP62227   |
| calibration std. phosphate 0.1 ppm  | WP62223   |
| calibration std. phosphate 0.05 ppm | WP62222   |
| Combined reagent                    | WP62231   |
| Phenolphthalein indicator           | WP61777   |
| Sodium hydroxide, 1N                | WP61776   |

Intercept: 0.0008Slope: 0.6303Regression: 0.99986

| Seq | Lab ID | True Value (mg/L) | DF | Initial Volume (mL) | Final Volume (mL) | Absorbance Reading at 880nm | AnalDate   | AnalTime |
|-----|--------|-------------------|----|---------------------|-------------------|-----------------------------|------------|----------|
| 1   | CAL1   | 0.00              | 1  | 50                  | 50                | 0.000                       | 02/23/2018 | 10:36    |
| 2   | CAL2   | 0.05              | 1  | 50                  | 50                | 0.032                       | 02/23/2018 | 10:36    |
| 3   | CAL3   | 0.10              | 1  | 50                  | 50                | 0.065                       | 02/23/2018 | 10:37    |
| 4   | CAL4   | 0.30              | 1  | 50                  | 50                | 0.185                       | 02/23/2018 | 10:37    |
| 5   | CAL5   | 0.50              | 1  | 50                  | 50                | 0.323                       | 02/23/2018 | 10:38    |
| 6   | CAL6   | 1.00              | 1  | 50                  | 50                | 0.629                       | 02/23/2018 | 10:38    |



## Analytical Summary Report

Analysis Method: SM4500-P E

ANALYST: AMANDEEP

Parameter: Phosphorus-Ortho

SUPERVISOR REVIEW BY: apatel

Run Number: LB93476

| Seq | Lab ID      | True Value (mg/l) | DF | Initial Volume (mL) | Final Volume (mL) | Absorbance Reading at 880nm | Result (mg/L) | AnalDate   | AnalTime |
|-----|-------------|-------------------|----|---------------------|-------------------|-----------------------------|---------------|------------|----------|
| 1   | ICV         | 0.50              | 1  | 50                  | 50                | 0.312                       | 0.494         | 02/23/2018 | 10:39    |
| 2   | ICB         |                   | 1  | 50                  | 50                | 0.000                       | -0.001        | 02/23/2018 | 10:39    |
| 3   | CCV1        | 0.5               | 1  | 50                  | 50                | 0.319                       | 0.505         | 02/23/2018 | 10:40    |
| 4   | CCB1        |                   | 1  | 50                  | 50                | 0.000                       | -0.001        | 02/23/2018 | 10:40    |
| 5   | LB93476BL   |                   | 1  | 50                  | 50                | 0.000                       | -0.001        | 02/23/2018 | 10:40    |
| 6   | LB93476BS   | 0.5               | 1  | 50                  | 50                | 0.319                       | 0.505         | 02/23/2018 | 10:41    |
| 7   | J1161-07    |                   | 1  | 50                  | 50                | 0.010                       | 0.015         | 02/23/2018 | 10:42    |
| 8   | J1161-09    |                   | 1  | 50                  | 50                | 0.011                       | 0.016         | 02/23/2018 | 10:42    |
| 9   | J1650-01    |                   | 1  | 50                  | 50                | 1.624                       | 2.575         | 02/23/2018 | 10:43    |
| 10  | J1650-01DUP |                   | 1  | 50                  | 50                | 1.629                       | 2.583         | 02/23/2018 | 10:43    |
| 11  | J1650-01MS  | 0.5               | 1  | 50                  | 50                | 1.689                       | 2.678         | 02/23/2018 | 10:44    |
| 12  | J1650-01MSD | 0.5               | 1  | 50                  | 50                | 1.900                       | 3.013         | 02/23/2018 | 10:44    |
| 13  | J1650-01    |                   | 20 | 50                  | 50                | 0.354                       | 0.560         | 02/23/2018 | 10:45    |
| 14  | J1650-01DUP |                   | 20 | 50                  | 50                | 0.364                       | 0.576         | 02/23/2018 | 10:45    |
| 15  | CCV2        | 0.5               | 1  | 50                  | 50                | 0.320                       | 0.506         | 02/23/2018 | 10:46    |
| 16  | CCB2        |                   | 1  | 50                  | 50                | 0.000                       | -0.001        | 02/23/2018 | 10:46    |
| 17  | J1650-01MS  | 0.5               | 20 | 50                  | 50                | 0.367                       | 0.581         | 02/23/2018 | 10:47    |
| 18  | J1650-01MSD | 0.5               | 20 | 50                  | 50                | 0.366                       | 0.579         | 02/23/2018 | 10:47    |
| 19  | CCV3        | 0.5               | 1  | 50                  | 50                | 0.321                       | 0.508         | 02/23/2018 | 10:48    |
| 20  | CCB3        |                   | 1  | 50                  | 50                | 0.000                       | -0.001        | 02/23/2018 | 10:48    |

4343476

# WORKLIST(Hardcopy Internal Chain)

WorkList Name : op022318

WorkList ID : 108882

Date : 2/23/2018 9:01:26 AM

| Due Date   | Matrix | Sample   | Test             | Preservative | Customer | Storage Location | Customer Sample | Collect Date | Method     |
|------------|--------|----------|------------------|--------------|----------|------------------|-----------------|--------------|------------|
| 02/23/2018 | Water  | J1650-01 | Phosphorus-Ortho | Cool 4 deg C | HOLL01   | D31              | EFFLUENT        | 02/21/2018   | SM4500-P E |

Date/Time 2-23-18 9:30  
Received by: AK  
Relinquished by: CP

Date/Time 2-23-18 11:00  
Received by: AK  
Relinquished by: AK