



|                |                            |                          |                       |                             |
|----------------|----------------------------|--------------------------|-----------------------|-----------------------------|
| Burlington, WA | Corporate Laboratory (a)   | 1620 S Walnut St         | Burlington, WA 98233  | 800.755.9295 • 360.757.1400 |
| Bellingham, WA | Microbiology (b)           | 805 Orchard Dr Ste 4     | Bellingham, WA 98225  | 360.715.1212                |
| Portland, OR   | Microbiology/Chemistry (c) | 9150 SW Pioneer Ct Ste W | Wilsonville, OR 97070 | 503.682.7802                |
| Corvallis, OR  | Microbiology (d)           | 540 SW Third Street      | Corvallis, OR 97333   | 541.753.4946                |



# Data Report

Client Name: Hillsboro, City of  
150 E. Main Street  
Hillsboro, OR 97123

Reference Number: **17-22264**  
Project: Semi-Annual Joint Water  
Commission

Report Date: 10/6/17

Date Received: 8/29/17

Approved by: anp,bj,fr,m,jh,lrs,tlp

Authorized by:

Thanh B Phan  
Lab Manager, Portland

| Sample Description: Site ID #1 - JWTP FW Hose - Site ID #1 |                               |                 |       |          |            |     |              |     |          | Sample Date: 8/29/17 7:38 am |               |                    |  |
|--|-------------------------------|-----------------|-------|----------|------------|-----|--------------|-----|----------|------------------------------|---------------|--------------------|--|
| Lab Number: 49425  |                               | Sample Comment: |       |          |            |     |              |     |          | Collected By: RS/RD          |               |                    |  |
| CAS ID#  | Parameter                     | Result          | PQL   | MDL      | Units      | DF  | Method       | Lab | Analyzed | Analyst                      | Batch         | Comment            |  |
| 7440-50-8  | COPPER                        | ND              | 0.005 | 0.00022  | mg/L       | 1.0 | 200.8        | a   | 9/5/17   | BJ                           | 200.8_170905A |                    |  |
| 7439-96-5  | MANGANESE                     | 0.004           | 0.001 | 4.00E-05 | mg/L       | 1.0 | 200.8        | a   | 9/5/17   | BJ                           | 200.8_170905A |                    |  |
| 7440-22-4  | SILVER                        | ND              | 0.010 | 3.50E-05 | mg/L       | 1.0 | 200.8        | a   | 9/5/17   | BJ                           | 200.8_170905A |                    |  |
| 7440-66-6  | ZINC                          | ND              | 0.005 | 0.00027  | mg/L       | 1.0 | 200.8        | a   | 9/5/17   | BJ                           | 200.8_170905A |                    |  |
| 16887-00-6   | CHLORIDE                      | 4.1             | 1.0   | 0.0223   | mg/L       | 1.0 | 300.0        | a   | 9/11/17  | HKL                          | I170911A      |                    |  |
| 14808-79-8   | SULFATE                       | 9.6             | 0.2   | 0.0489   | mg/L       | 1.0 | 300.0        | a   | 8/30/17  | HKL                          | IC05_170830A  |                    |  |
| 7664-41-7  | *AMMONIA                      | ND              | 0.10  | 0.0012   | mg/L       | 1.0 | 350.1        | a   | 9/1/17   | LRS                          | 350.1_170901  |                    |  |
| NA   | *SURFACTANTS                  | ND              | 0.050 |          | mg/L       | 1.0 | 425.1        |     | 8/30/17  | AGG                          | AA425_170830  | Analyzed by Alexin |  |
| E-10162  | *TOTAL SUSPENDED SOLIDS       | ND NN           | 2     |          | mg/L       | 1.0 | I-3765-85    | c   | 9/1/17   | CPF                          | ctss_170901   |                    |  |
| NA   | *CORROSIVITY                  | -2.15           |       |          | SI         | 1.0 | SM203        | a   | 9/15/17  | BJ                           | COR_170915    |                    |  |
| E-11734  | *ODOR                         | 1.5             | 1     |          | TON        | 1.0 | SM2150       | a   | 8/30/17  | RHF                          | ODOR_170830   | Temperature: 41.1  |  |
| E-14506  | *ALKALINITY                   | 27.1            | 5.0   |          | mg CaCO3/L | 1.0 | SM2320 B     | a   | 9/1/17   | SRS                          | ALK_170901    |                    |  |
| E-14506  | ALKALINITY                    | 27.1            | 5.0   |          | mg CaCO3/L | 1.0 | SM2320 B     | a   | 9/1/17   | SRS                          | ALK_170901    |                    |  |
| NA   | *BICARBONATE                  | 27.1            | 5.0   |          | mg CaCO3/L | 1.0 | SM2320 B     | a   | 9/1/17   | SRS                          | ALK_170901    |                    |  |
| NA   | *CARBONATE                    | ND              | 5.0   |          | mgCaCO3/L  | 1.0 | SM2320 B     | a   | 9/1/17   | SRS                          | ALK_170901    |                    |  |
| NA   | *HYDROXIDE                    | ND              | 5.0   |          | mg CaCO3/L | 1.0 | SM2320 B     | a   | 9/1/17   | SRS                          | ALK_170901    |                    |  |
| E-14506  | *PHENOLPHTHALEIN ALKALINITY   | ND              | 5.0   |          | mg CaCO3/L | 1.0 | SM2320 B     | a   | 9/1/17   | SRS                          | ALK_170901    |                    |  |
| E-10151  | *TOTAL SOLIDS-WATER           | 68              | 10    |          | mg/L       | 1.0 | SM2540 B     | a   | 9/1/17   | HKL                          | TS.W_170901   |                    |  |
| E-10173  | *TOTAL DISSOLVED SOLIDS (TDS) | 66              | 10    |          | mg/L       | 1.0 | SM2540 C     | a   | 8/31/17  | HKL                          | TDS_170831    |                    |  |
| E-10173  | TOTAL DISSOLVED SOLIDS (TDS)  | 66              | 10    |          | mg/L       | 1.0 | SM2540 C     | a   | 8/31/17  | HKL                          | TDS_170831    |                    |  |
| E-10151  | *VOLATILE SOLIDS              | 14              | 10    |          | mg/L       | 1.0 | SM2540 E     | a   | 8/30/17  | HKL                          | VS.LIQ_170830 |                    |  |
| 124-38-9   | *CARBON DIOXIDE               | 0.67            | 0.5   |          | mg/L       | 1.0 | SM4500-CO2 D | a   | 9/27/17  | BJ                           | CO2_170927    | pH 7.91 From COC   |  |
| E-10128  | *TOTAL NITRATE/NITRITE        | 0.12            | 0.5   | 0.0026   | mg/L       | 1.0 | SM4500-NO3 F | a   | 9/7/17   | LRS                          | NO3NO2_170907 |                    |  |

Notes:

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D.F. - Dilution Factor

An "\*" indicates it is not NELAP accredited though method requirements have been met unless noted in cover letter or case narrative.

These test results meet all the requirements of NELAC, unless otherwise stated in writing, and relate only to these samples. Estimates of uncertainty are not included in this report. If this information is required please contact us at the phone number listed in the report header.

If you have any questions concerning this report contact us at the above phone number.

Form: mult\_or.rpt

# Data Report

|            |                                      |      |       |        |      |     |                          |   |         |     |                |                                     |
|------------|--------------------------------------|------|-------|--------|------|-----|--------------------------|---|---------|-----|----------------|-------------------------------------|
| 14265-44-2 | <b>ORTHO-PHOSPHATE</b>               | 0.01 | 0.01  | 0.0020 | mg/L | 1.0 | SM4500-P F               | c | 8/30/17 | CPO | CPO4_170830    |                                     |
| E-10195    | <b>TOTAL ORGANIC CARBON</b>          | 0.50 | 0.50  | 0.05   | mg/L | 1.0 | SM5310 B                 | a | 9/5/17  | ANP | TOC_170905     |                                     |
| NA         | <b>*TANNIN AND LIGNIN</b>            | ND   | 0.5   |        | mg/L | 1.0 | SM5550                   | a | 9/8/17  | LRS | tannins_170908 |                                     |
| 7429-90-5  | <b>*ALUMINUM</b>                     | ND   | 0.010 | 0.004  | mg/L | 1.0 | 200.7/3010A              | a | 9/5/17  | ANP | 200.7_170905B  |                                     |
| 7440-70-2  | <b>*CALCIUM</b>                      | 5.81 | 0.5   | 0.009  | mg/L | 1.0 | 200.7/3010A              | a | 9/5/17  | ANP | 200.7_170905B  |                                     |
| 7440-48-4  | <b>*COBALT</b>                       | ND   | 0.001 | 0.0006 | mg/L | 1.0 | 200.7/3010A              | a | 9/5/17  | ANP | 200.7_170905B  |                                     |
| E-11778    | <b>HARDNESS as Calcium Carbonate</b> | 22.8 | 3.30  | 0.01   | mg/L | 1.0 | 200.7/3010A              | a | 9/5/17  | ANP | 200.7_170905B  |                                     |
| 7439-89-6  | <b>IRON</b>                          | ND   | 0.050 | 0.0012 | mg/L | 1.0 | 200.7/3010A              | a | 9/5/17  | ANP | 200.7_170905B  |                                     |
| 7439-95-4  | <b>MAGNESIUM</b>                     | 2.02 | 0.500 | 0.001  | mg/L | 1.0 | 200.7/3010A              | a | 9/5/17  | ANP | 200.7_170905B  |                                     |
| 7439-98-7  | <b>*MOLYBDENUM</b>                   | ND   | 0.010 | 0.005  | mg/L | 1.0 | 200.7/3010A              | a | 9/5/17  | ANP | 200.7_170905B  |                                     |
| 7440-09-7  | <b>POTASSIUM</b>                     | ND   | 1.0   | 0.1    | mg/L | 1.0 | 200.7/3010A              | a | 9/5/17  | ANP | 200.7_170905B  |                                     |
| 7631-86-9  | <b>SILICA</b>                        | 15.1 | 0.05  | 0.003  | mg/L | 1.0 | 200.7/3010A              | a | 9/5/17  | ANP | 200.7_170905B  |                                     |
|            | <b>*NONCARBONATE HARDNESS</b>        | ND   | 3.30  |        | mg/L | 1.0 | SM2340 B/3010A           | a | 9/5/17  | ANP | NCH_170912     |                                     |
| E-10264    | <b>*TOTAL KJELDAHL NITROGEN</b>      | ND   | 0.20  | 0.0047 | mg/L | 1.0 | 351.2/351.2              | a | 9/11/17 | LRS | 351.2_170911   |                                     |
| E-10264    | <b>*TOTAL ORGANIC NITROGEN</b>       | ND   |       |        | mg/L | 1.0 | 351.2/351.2              | a | 9/11/17 | LRS | TON_170911     |                                     |
| E-10195    | <b>*DISSOLVED ORGANIC CARBON</b>     | 0.56 | 0.50  | 0.08   | mg/L | 1.0 | SM5310 B/FILTER          | a | 9/6/17  | ANP | TOC_170905     | Associated filter blank = 0.08 = ND |
| 7723-14-0  | <b>*TOTAL PHOSPHORUS</b>             | ND   | 0.010 | 0.0026 | mg/L | 1.0 | SM4500-P F/SM4500-P B(5) | a | 9/6/17  | LRS | TPHOS_170906   |                                     |

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