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Norm Harker  
Denny Kiggins  
Neil Kimsey  
GENERAL MANAGER  
John M. Peterson, P.E.

February 13, 2019

Carey Cholski  
Permit Administrator  
Washington State Dept. of Ecology  
PO Box 47775  
Olympia, WA 98504-7775

RE: 2017 Infiltration and Inflow Report  
WA0023639

Dear Ms. Cholski:

Enclosed you will find the 2017 Infiltration and Inflow Report for the Salmon Creek Treatment Plant prepared by Clark Regional Wastewater District (District). This report is being submitted as required by the NPDES Permit No. WA0023639.

If you have any questions, please contact me at 360.993.8821 or by email at [rkrause@crwwd.com](mailto:rkrause@crwwd.com).

Sincerely,

A handwritten signature in black ink, appearing to read "J.D. Robin Krause, PE".

J.D. Robin Krause, PE  
District Engineer

Enclosure

C: David Knight, Pretreatment Coordinator, Washington State Dept. of Ecology  
Travis Capson, Wastewater Operations Manager, Salmon Creek Treatment Plant







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**GENERAL MANAGER**  
John M. Peterson

## Transmittal Cover

**Project:** 2018 I & I Report  
**Permit No.:** WA002363-9  
**Date:** February 13, 2019

To:	Attention:	No. Copies	Action Requested	Transmitted Via
Dept. of Ecology	Carey Cholski	1	Records	Fed-ex
Dept. of Ecology	Dave Knight	1	Records	Mail
Clark County SCTP	Travis Capson	1	Records	Hand Carried
City of Battle Ground	Scott Sawyer	1	Records	Hand Carried
District	Robin Krause	1	Records	Email
District	Rich Ludlow	1	Records	Email
District	Kristen Thomas	1	Records	Hand Carried
District	John Peterson	1	Records	Hand Carried

### DESCRIPTION:

2018 Infiltration and Inflow Report pursuant to NPDES Permit WA002363-9

### MESSAGE:

Please call if you have any questions (360) 993.8821

### BY:

J.D. Robin Krause, P.E.  
District Engineer

C: File



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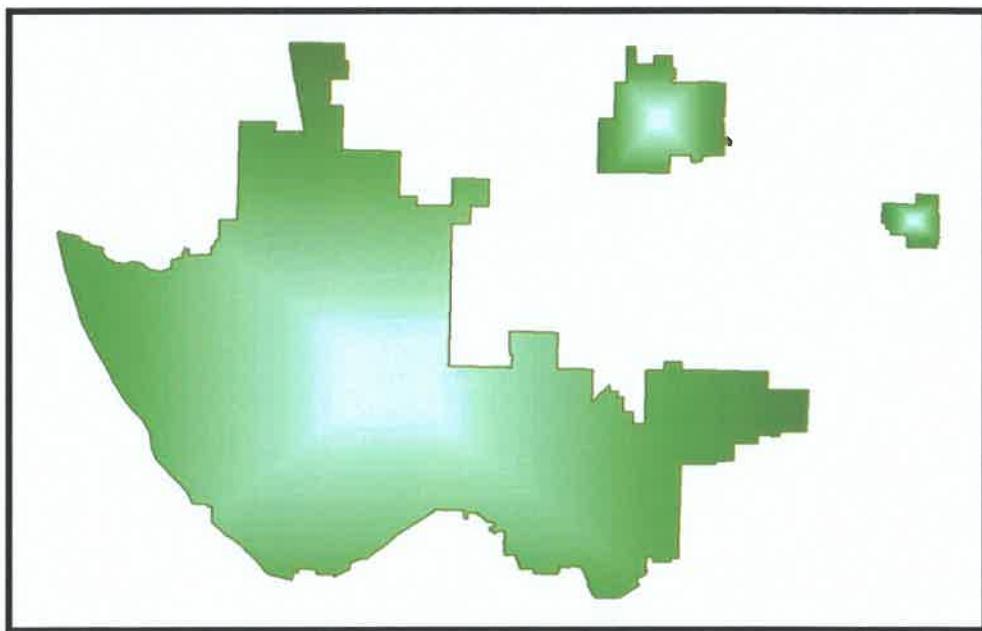
Updated 2/13/2019



# 2018

## Clark Regional Wastewater District

### Infiltration and Inflow Report For Salmon Creek Treatment Plant



February 5, 2019

In Compliance with the NPDES Waste Discharge Permit  
No. WA-002363-9 Special Condition S4.E





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2018

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Appendix B - Flow Analysis Data

Appendix C - Monthly Flow and Rainfall

Appendix D - ERU and Sewer Line Data



# 2018 Infiltration and Inflow Report

## Overview

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The Clark Regional Wastewater District (District) was formed in 1958. The District has always maintained a comprehensive construction specification, inspection and maintenance program to minimize infiltration and inflow (I/I) into the system. As a result, the system flow characteristics perform well below the non-excessive criteria as established in the EPA Infiltration/Inflow Analysis and Project Certification (Ecology publication 97-03).

Beginning in 2016, the District began conveying a portion of the flow generated in the City of Ridgefield service area to the Salmon Creek Treatment Plant. Currently, all flow tributary to the Pioneer Canyon Pump Station is conveyed through the Discovery Corridor Wastewater Transmission System and ultimately to the Salmon Creek Treatment Plant. The average daily flow from the Pioneer Canyon Pump Station is about 0.15 MGD (958 Equivalent Residential Units (ERUs). The Ridgefield Treatment Plant processes the remaining flow generated in Ridgefield. The additional flow to Salmon Creek is incorporated into this report.

### ANALYSIS

The District's average dry weather and wet weather I/I rates are well below excessive. Average dry weather flows greater than 120 gallons per capita per day (gpcd) indicate excessive infiltration. Infiltration occurs during periods of high seasonal groundwater and dry weather with little or no rainfall. The District's infiltration remains well below excessive at 74 gpcd. Average wet weather flows greater than 275 gpcd indicate excessive inflow. Inflow occurs during periods of wet weather with significant rainfall resulting in ponding and surface runoff. The District's inflow remains well below excessive at 97 gpcd.

For the purpose of this report, population calculations have been based on population equivalents. This method calculates a population based on the total number of ERUs multiplied by the planning assumption of people per ERU. This assumption is 2.43 people per ERU for the Salmon Creek Treatment Plant (CH2M HILL, 2004 SCTP Phase 4). The calculation for population equivalent includes commercial and industrial ERUs in addition to residents of the area. At the beginning of 2018, the District had approximately 35,385 ERU's with a population equivalent of roughly 85,986 in the Salmon Creek tributary area. The City of Ridgefield component adds another 663 ERUs with a population equivalent of about 1,612.

As shown in Appendix A, the District's 2018 I/I of 1.38 MGD represent a 26% increase compared to the 2003 base year. To better understand I/I trends in the system, the District reviews the average monthly flows and rainfall for the available records between January 1997 and December 2018. That data shows that 2013 and 2003 represent the lowest I/I years on record. The District's I/I averaged 1.58 over the past 20 years. Reviewing years with similar rainfall patterns, the 2018 I/I does not appear to be out of trend with historical performance. Also, the excessive inflow and infiltration calculations do not lead us to believe that the system is experiencing higher than normal I/I.

TABLE 1  
**1997-2018 I/I AND RAINFALL**

Year	Min of Average Monthly Flow	Max of Average Monthly Flow	I/I	Annual Rainfall
1997	3.90	5.73	1.84	48.18
1998	4.27	5.48	1.22	45.73
1999	4.20	5.92	1.72	43.87
2000	4.41	5.23	0.82	32.89
2001	4.39	5.74	1.35	36.41
2002	4.34	5.53	1.19	34.01
2003	4.63	5.72	1.10	41.02
2004	4.77	5.94	1.17	35.21
2005	4.79	5.90	1.11	34.82
2006	4.92	7.04	2.12	42.96
2007	5.12	6.64	1.52	34.14
2008	5.13	6.48	1.35	28.79
2009	5.11	6.39	1.28	31.93
2010	5.24	7.00	1.75	42.07
2011	5.05	6.99	1.95	30.77
2012	5.19	7.19	2.00	41.65
2013	5.32	6.39	1.07	21.19
2014	5.34	6.84	1.82	32.17
2015	5.31	8.06	2.75	39.44
2016	5.54	7.27	1.73	48.14
2017	5.93	8.25	2.31	46.89
2018	5.86	7.24	1.38	30.65
Average	-	-	1.57	37.41

# Monitoring Program and Rehabilitation Projects

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## INTRODUCTION

The District places an emphasis on good design and inspection to minimize I/I into the system. However, as pipes age, a variety of methods for the monitoring and identification of I/I are necessary to use. This includes yearly review of pump station records, treatment plant flow reports, trunk line flow monitoring, smoke testing, visual inspection of manholes and closed circuit television (CCTV) camera inspection. Through these efforts, the District is able to locate areas of concern for follow-up investigation and correction.

## CROSS-CONNECTIONS

For issues on private property (i.e., stormwater cross connections, roof drains or broken laterals), the District contacts the homeowner and works with them to correct the situation. The District typically addresses issues that are within public right-of-way. All side sewer connections (between right-of-way and building envelope) are permitted and inspected by the District.

## NEW CONSTRUCTION

The District addresses I/I by inspecting all new systems during construction, including all mainlines, manholes and individual laterals. In addition, during plan review and field inspection, the District reviews the need for inflow dishes or watertight locking lids to control inflow. The District addresses infiltration by requiring manhole joints to be externally sealed in areas of high groundwater, vacuum testing of 50% of all new manholes and air testing of all new gravity mainlines.

## FLOW MONITORING

The District owns several FloDar ultrasonic flow meters that are used to measure flows where I/I may be suspected. The District also monitors all pump stations as well as four (4) motor operated valves (MOV's). Daily and annual review of the pump run times and flow data help to identify the potential for I/I. In addition, the two satellite service areas (Meadow Glade and Hockinson) that are served by STEP systems have individual flow meters at their termination.

The District continues to deploy and collect flow data from FloDar ultrasonic flow meters during both wet and dry weather flows. That data was used to calibrate the District's wet and dry weather flow model as part of the General Sewer Plan update.

## **REHABILITATION**

The District inspects all gravity mains and trunk sewers with CCTV cameras a minimum of every eight years to assess condition, I/I and other related issues. Results help inform the District's Six-Year Capital Program. The six-year program includes an "I/I program" as well as a "Spot Repair" program component. Both programs provide for completion of specific projects targeting the reduction of I/I in the system. The District completed manhole grouting at 15 locations in 2016 and 18 locations in 2018, which has stopped an estimated 50 gallons per minute of I/I, or 72,000 gallons per day. The District also completed the NE 78<sup>th</sup> Street Trunk project in 2018, replacing old concrete pipe with PVC in an area of high ground water. The District completed two (2) cured-in-place pipe contracts in 2017, to stop infiltration and rehabilitate existing concrete pipes. The next manhole grouting contract will be issued in 2020.

## **APPENDIX A**

### **ANNUAL INFILTRATION/INFLOW (I/I) REPORT**



**Salmon Creek Wastewater Treatment Plant**  
**ANNUAL INFILTRATION/INFLOW (I/I) REPORT**

**Reporting Year:** From: 2016 To: 2018

Max month design flow: 11.48 MGD (District allocation beginning in 2009)  
 Peak daily design flow: 15.31 MGD  
 Design Population Equivalent: 86,989

<b>Month</b>	<b>Average Monthly Flow (MGD)</b>			<b>Total Monthly Rainfall (inches)</b>			<b>Population Served</b>			<b>Additional Sewer Lines Added (feet)</b>			
	<b>Year</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>Year</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>Year</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	
January	7.27	7.20	7.24	9.68	4.12	6.44	80807	83938	88037	1502	1308	6819	
February	6.89	8.19	6.83	5.13	8.22	3.40	80984	84164	88372	11950	3329	10859	
March	7.07	8.25	6.75	6.04	8.83	2.27	81277	84512	88763	9748	21256	9610	
April	6.11	7.40	6.80	1.56	4.57	3.26	81423	84876	89016	11092	0	2399	
May	5.93	6.86	6.29	1.13	1.86	0.15	81849	85128	89423	10966	1632	11304	
June	5.74	6.47	6.04	1.80	1.35	0.70	82251	85494	89934	13771	1737	3116	
July	5.58	5.97	5.86	0.44	0.00	0.04	82480	85805	90409	821	25269	2343	
August	5.54	5.93	5.89	0.22	0.00	0.07	82771	86213	90908	19210	4155	1488	
September	5.54	6.04	6.00	1.32	2.25	1.40	82966	86497	91153	3889	0	16389	
October	6.23	6.18	6.03	9.58	3.36	4.11	83218	86918	91492	1608	13187	13280	
November	6.67	6.90	6.12	6.75	8.90	2.83	83482	87341	91669	7905	965	1949	
December	6.99	6.79	6.67	4.49	3.43	5.98	83699	87597	91947	13127	5432	4783	
<b>TOTAL</b>	<b>75.56</b>	<b>82.19</b>	<b>76.53</b>	<b>48.14</b>	<b>46.89</b>	<b>30.65</b>				<b>Total (feet)</b>	<b>105589</b>	<b>78270</b>	<b>84339</b>
<b>Low</b>	<b>5.54</b>	<b>5.93</b>	<b>5.86</b>							<b>Total (miles)</b>	<b>20.00</b>	<b>14.82</b>	<b>15.97</b>
<b>High</b>	<b>7.27</b>	<b>8.25</b>	<b>7.24</b>										
<b>Average</b>	<b>6.30</b>	<b>6.85</b>	<b>6.38</b>										
<b>I/I</b>	<b>1.73</b>	<b>2.31</b>	<b>1.38</b>										

Base Year: 2003

Base Year I/I: 1.1 MGD

**INFILTRATION/INFLOW SUMMARY**

<b>Year</b>	<b>I/I</b>	<b>% increase from base I/I</b>	<b>% of max mo. design flow</b>
2016	1.73	58	15
2017	2.31	110	20
2018	1.38	26	12

Comments: See report.

  
 J.D. Robin Krause, PE

District Engineer





## **APPENDIX B**

### **FLOW ANALYSIS DATA**



# Salmon Creek Wastewater Management System - Clark Regional Wastewater District

## ANNUAL INFILTRATION/INFLOW REPORT

1/1/2018 to 12/31/2018

### FLOW AND PRECIPITATION DATA

Average Monthly Flow (MGD)		Total Monthly Precipitation (Inches)											
MONTH	Year	2013	2014	2015	2016	2017	2018	2013	2014	2015	2016	2017	2018
January	6.39	5.77	6.19	7.27	7.20	7.24	2.63	2.54	2.35	9.68	4.12	6.44	January
February	5.99	6.63	6.75	6.89	8.19	6.83	1.36	3.70	2.85	5.13	8.22	3.40	February
March	5.74	6.84	6.35	7.07	8.25	6.75	1.43	5.78	3.19	6.04	8.83	2.27	March
April	5.78	6.27	5.85	6.11	7.40	6.80	2.19	2.49	1.21	1.56	4.57	3.26	April
May	5.81	5.91	5.56	5.93	6.86	6.29	2.94	2.28	0.40	1.13	1.86	0.15	May
June	5.68	5.68	5.50	5.74	6.47	6.04	1.41	2.34	0.39	1.80	1.35	0.70	June
July	5.39	5.45	5.31	5.58	5.97	5.86	0.01	0.57	0.25	0.44	0.00	0.04	July
August	5.32	5.35	5.32	5.54	5.93	5.89	0.39	0.03	0.53	0.22	0.00	0.07	August
September	5.65	5.34	5.32	5.54	6.04	6.00	4.25	1.03	1.11	1.32	2.25	1.40	September
October	5.43	5.55	5.34	6.23	6.18	6.03	0.93	5.14	4.19	9.58	3.36	4.11	October
November	5.62	5.90	5.87	6.67	6.90	6.12	2.04	2.39	5.03	6.75	8.90	2.83	November
December	5.77	6.36	8.06	6.99	6.79	6.67	1.61	3.88	17.94	4.49	3.43	5.98	December
<b>Avg Flow / Total Rain</b>	<b>5.71</b>	<b>5.92</b>	<b>5.95</b>	<b>6.30</b>	<b>6.85</b>	<b>6.38</b>	<b>21.19</b>	<b>32.17</b>	<b>39.44</b>	<b>48.14</b>	<b>46.89</b>	<b>30.65</b>	
Low Month	5.32	5.34	5.31	5.54	5.93	5.86	0.01	0.03	0.25	0.22	0.00	0.04	Total (miles)
High Month	6.39	6.84	8.06	7.27	8.25	7.24	4.25	5.78	17.94	9.68	8.90	6.44	Total (feet)

**Comments:** Measured data presented in this report reflects the Clark Regional Wastewater District's capacity usage only.  
Battle Ground usage is reported separately.

POPULATION AND SEWER LINE DATA	
Sewer Lines Added (feet)	Year
84339	2018

Total (miles)

Total (feet)

Total (miles)

Total (feet)

## Salmon Creek Wastewater Management System - Clark Regional Wastewater District

### ANNUAL INFILTRATION/INFLOW REPORT

#### DETERMINATION OF NON EXCESSIVE INFILTRATION

EPA Infiltration Criteria 120 gpcd

District Infiltration 74 gpcd

Period	Flow	Population Equivalent
Feb 12	6.65	0.00
Feb 13	6.52	0.00
Feb 14	6.52	0.00
Feb 15	6.37	0.00
Feb 16	6.57	0.00
Feb 17	6.90	0.00
Feb 18	6.46	0.00
Average Flow (MGD)	6.57	0.00

Inches Rain

Highest Average Flow (MGD)

2.58 3.64

Inches Rain

Comments: The seven day period of February 12 through February 18, 2018 was identified as a dry weather period within a period of seasonal high groundwater.

1/1/2018 to 12/31/2018

#### DETERMINATION OF NON EXCESSIVE INFLOW

EPA Inflow Criteria 275 gpcd

District Inflow 97 gpcd

Period	Flow	Rain	Population Equivalent
Jan 21	7.15	1.33	88037
Jan 22	6.95	0.57	88037
Jan 23	7.11	0.00	88037
Jan 24	8.58	0.17	88037
Jan 25	8.49	0.38	88037
Jan 26	7.54	0.89	88037
Jan 27	8.44	0.30	88037

Comments: The seven day period of January 21 through January 27, 2018 was identified as a period of significant rainfall with surface ponding and runoff. January 24 was the highest recorded daily flow during a storm event.

## Salmon Creek Wastewater Management System - Clark Regional Wastewater District

ANNUAL INFILTRATION/INFLOW REPORT

1/1/2018 to 12/31/2018

### INFILTRATION/INFLOW SUMMARY

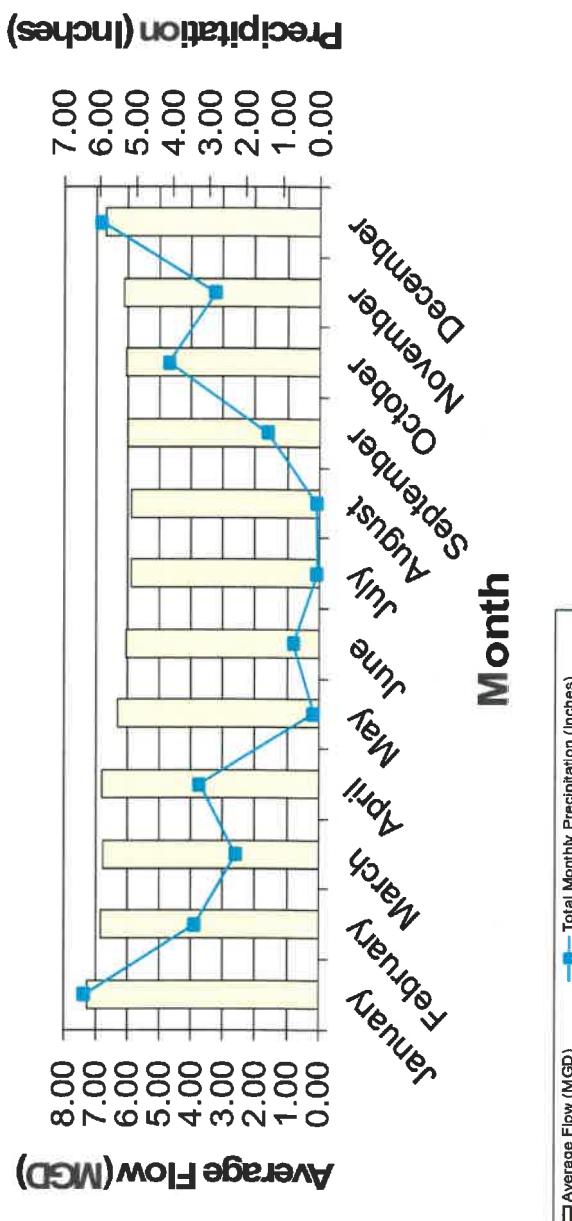
Year	I/I	% Over Max Base I/I Design Flow	% of Max I/I Design Flow	Base Year: 2003
2013	1.07	-3%	9%	
2014	1.50	36%	13%	
2015	2.75	150%	24%	
2016	1.73	58%	15%	
2017	2.31	110%	20%	
2018	1.38	26%	12%	

Comments: See Overview for I/I discussion.

### PLANT DESIGN CAPACITY

Peak Design Flow:	15.31 MGD
Max Month Design Flow:	11.48 MGD
Design Population Equivalent:	86,989 People

### 2018 Average Flow and Precipitation



Comments: Design capacity represents total plant capacity. Present population and infiltration/inflow data included in this report represent Clark Regional Wastewater's usage only. Battle Ground usage is reported separately.



## **APPENDIX C**

### **MONTHLY FLOW AND RAINFALL**



## Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Meadow Glade GPD	Hockinson GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
1/1/2018	285200	20200	2.32	2.02	9.23	0.00	0.00	7.21
1/2/2018	265800	29800	2.17	1.87	8.74	0.00	0.00	6.87
1/3/2018	243000	26900	1.96	1.69	8.40	0.00	0.00	6.71
1/4/2018	250100	27100	1.93	1.65	8.19	0.00	0.11	6.54
1/5/2018	283000	32900	2.28	1.96	8.39	0.18	0.37	6.43
1/6/2018	238500	19900	1.97	1.71	8.90	0.44	0.00	7.19
1/7/2018	286200	23700	2.24	1.93	9.02	0.03	0.27	7.09
1/8/2018	288500	44600	2.43	2.09	8.82	0.27	0.13	6.73
1/9/2018	300400	44400	2.57	2.23	9.83	0.55	0.48	7.60
1/10/2018	282500	41600	2.45	2.12	9.19	0.16	0.11	7.07
1/11/2018	347200	53000	3.12	2.72	10.41	0.39	0.90	7.69
1/12/2018	261100	39100	2.48	2.18	8.14	0.68	0.00	5.96
1/13/2018	272600	28400	2.45	2.15	9.48	0.00	0.00	7.33
1/14/2018	274000	24400	2.29	1.99	9.05	0.00	0.00	7.06
1/15/2018	261500	22000	2.14	1.86	8.99	0.00	0.07	7.13
1/16/2018	248000	30400	2.01	1.73	8.53	0.13	0.07	6.80
1/17/2018	292500	35200	2.34	2.01	8.59	0.03	0.40	6.58
1/18/2018	291100	32600	2.45	2.13	9.45	0.65	0.43	7.32
1/19/2018	242700	35200	2.14	1.87	9.00	0.17	0.06	7.13
1/20/2018	254700	29700	2.20	1.91	8.94	0.07	0.01	7.03
1/21/2018	294000	33500	2.44	2.11	9.26	0.03	0.17	7.15
1/22/2018	267800	38100	2.22	1.91	8.86	0.35	0.07	6.95
1/23/2018	352500	58600	2.90	2.49	9.60	0.08	0.83	7.11
1/24/2018	341000	60800	3.30	2.90	11.48	1.21	0.48	8.58
1/25/2018	286700	47600	2.99	2.65	11.14	0.46	0.39	8.49
1/26/2018	322000	44100	3.07	2.71	10.25	0.48	0.22	7.54
1/27/2018	284500	40000	2.99	2.66	11.10	0.70	0.34	8.44
1/28/2018	246300	24700	2.50	2.23	10.37	0.06	0.01	8.14
1/29/2018	312000	39900	2.74	2.39	10.03	0.01	0.50	7.64
1/30/2018	262000	36800	2.65	2.35	10.18	0.63	0.02	7.83
1/31/2018	243700	32400	2.40	2.12	9.36	0.03	0.00	7.24
<b>Total</b>	<b>8681100</b>	<b>1097600</b>	<b>76.12</b>	<b>66.34</b>	<b>290.92</b>	<b>7.79</b>	<b>6.44</b>	<b>224.58</b>
<b>Min</b>	<b>238500</b>	<b>19900</b>	<b>1.93</b>	<b>1.65</b>	<b>8.14</b>	<b>0.00</b>	<b>0.00</b>	<b>5.96</b>
<b>Max</b>	<b>352500</b>	<b>60800</b>	<b>3.30</b>	<b>2.90</b>	<b>11.48</b>	<b>1.21</b>	<b>0.90</b>	<b>8.58</b>
<b>Average</b>	<b>280035</b>	<b>35406</b>	<b>2.46</b>	<b>2.14</b>	<b>9.38</b>	<b>0.25</b>	<b>0.21</b>	<b>7.24</b>

## Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Meadow Glade GPD	Hockinson GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
2/1/2018	262400	36200	2.47	2.17	9.15	0.00	0.20	6.98
2/2/2018	250700	25900	2.35	2.07	9.25	0.50	0.00	7.18
2/3/2018	251300	23900	2.23	1.96	9.26	0.07	0.04	7.30
2/4/2018	293700	25400	2.31	1.99	9.18	0.04	0.00	7.19
2/5/2018	260200	28700	2.10	1.81	8.75	0.04	0.00	6.94
2/6/2018	246300	27400	2.02	1.75	8.40	0.00	0.00	6.65
2/7/2018	243600	25800	1.95	1.68	8.20	0.00	0.00	6.52
2/8/2018	222600	25400	1.78	1.54	8.06	0.00	0.00	6.52
2/9/2018	227700	25400	1.81	1.55	7.92	0.00	0.00	6.37
2/10/2018	244300	17000	1.88	1.62	8.19	0.04	0.00	6.57
2/11/2018	217900	16500	1.70	1.46	8.36	0.00	0.00	6.90
2/12/2018	234500	26100	1.78	1.52	7.98	0.00	0.00	6.46
2/13/2018	216000	26100	1.72	1.48	7.75	0.00	0.38	6.27
2/14/2018	245400	27100	2.01	1.73	8.22	0.53	0.46	6.49
2/15/2018	234900	26200	1.93	1.67	8.20	0.09	0.09	6.54
2/16/2018	260700	23800	2.13	1.85	8.25	0.23	0.17	6.40
2/17/2018	233900	27000	2.09	1.83	8.73	0.34	0.08	6.90
2/18/2018	278800	31200	2.46	2.15	9.12	0.16	0.21	6.97
2/19/2018	304300	28300	2.62	2.29	9.58	0.52	0.13	7.29
2/20/2018	261300	30300	2.31	2.01	8.91	0.02	0.07	6.90
2/21/2018	276400	25300	2.37	2.07	9.09	0.26	0.17	7.02
2/22/2018	282100	21100	2.30	2.00	8.91	0.30	0.18	6.91
2/23/2018	236800	27100	1.99	1.73	8.50	0.02	0.05	6.77
2/24/2018	297600	25100	2.49	2.17	9.15	0.27	0.15	6.98
2/25/2018	341600	33000	2.81	2.43	9.75	0.05	0.37	7.32
2/26/2018	294700	31700	2.45	2.13	9.26	0.40	0.01	7.13
2/27/2018	254100	28500	2.12	1.83	8.74	0.01	0.04	6.91
2/28/2018	326200	43400	2.73	2.36	9.31	0.14	0.60	6.95
<b>Total</b>	7300000	758900	60.91	52.85	244.17	4.03	3.40	191.32
<b>Min</b>	216000	16500	1.70	1.46	7.75	0.00	0.00	6.27
<b>Max</b>	341600	43400	2.81	2.43	9.75	0.53	0.60	7.32
<b>Average</b>	260714	27104	2.18	1.89	8.72	0.14	0.12	6.83

## Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Meadow Glade GPD	Hockinson GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
3/1/2018	305200	35700	2.59	2.25	9.69	0.68	0.06	7.44
3/2/2018	248800	31600	2.10	1.82	9.01	0.12	0.01	7.19
3/3/2018	273900	18700	2.22	1.92	8.93	0.00	0.00	7.01
3/4/2018	279200	21200	2.16	1.86	8.86	0.00	0.00	7.00
3/5/2018	249600	27800	2.01	1.73	8.39	0.03	0.01	6.66
3/6/2018	236200	27800	1.89	1.62	8.21	0.00	0.00	6.59
3/7/2018	234900	25500	1.83	1.57	8.09	0.00	0.00	6.52
3/8/2018	229600	29300	1.87	1.61	8.09	0.00	0.14	6.48
3/9/2018	217700	27800	1.80	1.56	8.04	0.24	0.00	6.48
3/10/2018	266300	21500	2.09	1.81	8.21	0.00	0.00	6.40
3/11/2018	188900	14700	1.51	1.30	7.99	0.00	0.00	6.69
3/12/2018	241200	26900	1.78	1.51	7.60	0.00	0.00	6.09
3/13/2018	249700	34100	1.90	1.62	7.83	0.00	0.01	6.21
3/14/2018	251000	30300	1.88	1.60	7.76	0.40	0.08	6.16
3/15/2018	254000	29300	1.89	1.61	7.61	0.07	0.32	6.00
3/16/2018	241000	31100	1.80	1.52	8.21	0.22	0.07	6.69
3/17/2018	248500	26900	1.90	1.62	8.34	0.04	0.25	6.72
3/18/2018	266200	28700	1.99	1.70	8.56	0.16	0.00	6.86
3/19/2018	234500	35100	1.78	1.51	8.14	0.02	0.00	6.63
3/20/2018	235000	32100	1.75	1.48	7.87	0.00	0.00	6.39
3/21/2018	248400	31700	1.92	1.64	7.89	0.00	0.34	6.25
3/22/2018	277900	41500	2.44	2.12	9.20	0.62	0.47	7.08
3/23/2018	276000	44200	2.47	2.15	9.53	0.72	0.08	7.38
3/24/2018	309400	32900	2.81	2.47	10.38	0.55	0.22	7.91
3/25/2018	295900	31800	2.60	2.28	9.82	0.11	0.05	7.54
3/26/2018	277000	33100	2.43	2.12	9.28	0.07	0.11	7.17
3/27/2018	261500	31300	2.25	1.95	8.93	0.17	0.05	6.98
3/28/2018	253000	26800	2.09	1.81	8.62	0.08	0.00	6.81
3/29/2018	238300	26000	2.03	1.77	8.57	0.00	0.00	6.80
3/30/2018	225000	27500	1.89	1.64	8.32	0.00	0.00	6.68
3/31/2018	300000	22800	2.40	2.08	8.43	0.00	0.00	6.35
<b>Total</b>	7913800	905700	64.05	55.23	264.40	4.30	2.27	209.17
<b>Min</b>	188900	14700	1.51	1.30	7.60	0.00	0.00	6.00
<b>Max</b>	309400	44200	2.81	2.47	10.38	0.72	0.47	7.91
<b>Average</b>	255284	29216	2.07	1.78	8.53	0.14	0.07	6.75

## Salmon Creek Wastewater Treatment Plant

### Flow and Rainfall Report

Date	Meadow Glade GPD	Hockinson GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
4/1/2018	185600	15600	1.53	1.33	8.32	0.02	0.00	6.99
4/2/2018	240000	17500	1.87	1.61	8.10	0.28	0.09	6.49
4/3/2018	248800	18400	2.02	1.75	7.78	0.03	0.00	6.03
4/4/2018	197800	16800	1.74	1.53	7.63	0.05	0.00	6.10
4/5/2018	256600	23300	2.07	1.79	8.10	0.04	0.44	6.31
4/6/2018	205200	18100	1.67	1.45	8.25	0.50	0.04	6.80
4/7/2018	318100	41800	2.68	2.32	9.12	0.27	0.79	6.80
4/8/2018	353800	39900	3.09	2.70	10.74	0.90	0.28	8.04
4/9/2018	281300	33800	2.39	2.07	9.37	0.07	0.00	7.30
4/10/2018	267200	34100	2.29	1.99	8.97	0.06	0.00	6.98
4/11/2018	280300	40400	2.36	2.04	8.85	0.13	0.00	6.81
4/12/2018	287800	41300	2.43	2.11	9.38	0.52	0.20	7.27
4/13/2018	243700	35800	2.19	1.92	8.87	0.27	0.07	6.96
4/14/2018	284200	29400	2.48	2.16	8.91	0.11	0.12	6.75
4/15/2018	342300	39500	2.98	2.60	10.25	0.51	0.83	7.65
4/16/2018	317600	38700	2.67	2.32	10.08	0.39	0.13	7.76
4/17/2018	267700	33600	2.26	1.96	9.25	0.10	0.00	7.29
4/18/2018	256300	30800	2.13	1.84	8.83	0.06	0.00	6.99
4/19/2018	250100	31100	2.08	1.80	8.57	0.00	0.00	6.77
4/20/2018	208200	26200	1.77	1.53	8.32	0.00	0.00	6.79
4/21/2018	224000	17200	1.88	1.64	8.32	0.00	0.00	6.68
4/22/2018	250600	19200	2.00	1.73	8.48	0.00	0.00	6.75
4/23/2018	232200	28600	1.81	1.55	8.25	0.00	0.00	6.70
4/24/2018	223400	26400	1.75	1.50	7.97	0.00	0.00	6.47
4/25/2018	227500	28500	1.75	1.49	7.83	0.00	0.00	6.34
4/26/2018	201100	24400	1.66	1.43	7.79	0.00	0.00	6.36
4/27/2018	175600	25000	1.46	1.26	7.64	0.00	0.09	6.38
4/28/2018	212700	16500	1.64	1.41	7.84	0.07	0.05	6.43
4/29/2018	234100	17300	1.74	1.49	8.10	0.02	0.08	6.61
4/30/2018	212900	26000	1.60	1.36	7.75	0.05	0.05	6.39
<b>Total</b>	<b>7486700</b>	<b>835200</b>	<b>62.00</b>	<b>53.68</b>	<b>257.66</b>	<b>4.45</b>	<b>3.26</b>	<b>203.98</b>
<b>Min</b>	<b>175600</b>	<b>15600</b>	<b>1.46</b>	<b>1.26</b>	<b>7.63</b>	<b>0.00</b>	<b>0.00</b>	<b>6.03</b>
<b>Max</b>	<b>353800</b>	<b>41800</b>	<b>3.09</b>	<b>2.70</b>	<b>10.74</b>	<b>0.90</b>	<b>0.83</b>	<b>8.04</b>
<b>Average</b>	<b>249557</b>	<b>27840</b>	<b>2.07</b>	<b>1.79</b>	<b>8.59</b>	<b>0.15</b>	<b>0.11</b>	<b>6.80</b>

## Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Meadow Glade GPD	Hockinson GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
5/1/2018	210900	29000	1.58	1.34	7.62	0.00	0.00	6.28
5/2/2018	210000	23300	1.56	1.33	7.57	0.00	0.00	6.24
5/3/2018	199000	26500	1.53	1.30	7.61	0.00	0.00	6.31
5/4/2018	191000	24000	1.35	1.13	7.43	0.00	0.00	6.30
5/5/2018	223400	13500	1.62	1.38	7.58	0.00	0.00	6.20
5/6/2018	202000	14600	1.47	1.26	7.87	0.00	0.00	6.61
5/7/2018	214500	24700	1.54	1.30	7.64	0.00	0.00	6.34
5/8/2018	198700	24800	1.49	1.27	7.55	0.00	0.02	6.28
5/9/2018	213600	29000	1.51	1.27	7.51	0.19	0.04	6.24
5/10/2018	201200	23100	1.47	1.25	7.45	0.05	0.09	6.20
5/11/2018	174600	19700	1.33	1.13	7.36	0.02	0.00	6.23
5/12/2018	205700	13300	1.52	1.30	7.52	0.00	0.00	6.22
5/13/2018	223800	13800	1.58	1.34	7.66	0.00	0.00	6.32
5/14/2018	207100	23700	1.47	1.23	7.78	0.00	0.00	6.55
5/15/2018	188300	23200	1.38	1.17	7.60	0.00	0.00	6.43
5/16/2018	201600	29400	1.45	1.22	7.53	0.00	0.00	6.31
5/17/2018	181700	21800	1.38	1.18	7.52	0.00	0.00	6.34
5/18/2018	184700	21800	1.31	1.10	7.47	0.00	0.00	6.37
5/19/2018	192700	15100	1.40	1.20	7.55	0.00	0.00	6.35
5/20/2018	222200	16300	1.53	1.29	7.80	0.00	0.00	6.51
5/21/2018	195400	23000	1.41	1.19	7.59	0.00	0.00	6.40
5/22/2018	198700	27600	1.39	1.16	7.43	0.00	0.00	6.27
5/23/2018	202900	19600	1.39	1.17	7.40	0.00	0.00	6.23
5/24/2018	190800	25400	1.37	1.15	7.37	0.00	0.00	6.22
5/25/2018	191700	22600	1.34	1.13	7.28	0.00	0.00	6.15
5/26/2018	176600	10400	1.29	1.10	7.19	0.00	0.00	6.09
5/27/2018	192700	11800	1.29	1.08	7.04	0.00	0.00	5.96
5/28/2018	211700	12800	1.45	1.23	7.72	0.00	0.00	6.49
5/29/2018	191500	23200	1.38	1.17	7.45	0.00	0.00	6.28
5/30/2018	195900	23700	1.40	1.18	7.25	0.00	0.00	6.07
5/31/2018	188600	22400	1.38	1.17	7.24	0.00	0.00	6.07
<b>Total</b>	6183200	653100	44.53	37.69	232.58	0.26	0.15	194.89
<b>Min</b>	174600	10400	1.29	1.08	7.04	0.00	0.00	5.96
<b>Max</b>	223800	29400	1.62	1.38	7.87	0.19	0.09	6.61
<b>Average</b>	199458	21068	1.44	1.22	7.50	0.01	0.00	6.29

## Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Meadow Glade GPD	Hockinson GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
6/1/2018	186000	25100	1.34	1.13	7.08	0.03	0.00	5.95
6/2/2018	201500	22300	1.48	1.26	7.26	0.00	0.00	6.00
6/3/2018	188800	16800	1.33	1.13	7.61	0.00	0.00	6.48
6/4/2018	191900	26000	1.38	1.16	7.29	0.00	0.00	6.13
6/5/2018	190800	22700	1.37	1.16	7.14	0.00	0.00	5.98
6/6/2018	192400	21600	1.34	1.13	7.09	0.00	0.00	5.96
6/7/2018	188800	28500	1.35	1.13	7.09	0.00	0.00	5.96
6/8/2018	183000	21600	1.29	1.08	7.09	0.00	0.28	6.01
6/9/2018	195400	14900	1.41	1.20	7.39	0.33	0.07	6.19
6/10/2018	225400	15100	1.61	1.37	7.79	0.13	0.31	6.42
6/11/2018	197800	23300	1.47	1.25	7.55	0.35	0.01	6.30
6/12/2018	183300	23400	1.38	1.17	7.29	0.00	0.00	6.12
6/13/2018	198400	24000	1.40	1.18	7.15	0.00	0.00	5.97
6/14/2018	185700	21800	1.37	1.16	7.21	0.01	0.00	6.05
6/15/2018	171900	22700	1.26	1.06	7.07	0.00	0.00	6.01
6/16/2018	210100	18900	1.48	1.25	7.23	0.00	0.01	5.98
6/17/2018	197000	19000	1.39	1.18	7.36	0.08	0.00	6.18
6/18/2018	198600	26000	1.41	1.19	7.37	0.11	0.00	6.18
6/19/2018	200900	20600	1.41	1.19	6.95	0.00	0.00	5.76
6/20/2018	200000	19000	1.37	1.15	7.29	0.00	0.00	6.14
6/21/2018	183300	19700	1.32	1.12	7.23	0.00	0.00	6.11
6/22/2018	207100	21600	1.43	1.20	7.10	0.00	0.00	5.90
6/23/2018	180700	15900	1.24	1.05	7.18	0.00	0.00	6.13
6/24/2018	187100	17800	1.29	1.09	7.32	0.00	0.00	6.23
6/25/2018	207800	17500	1.39	1.16	7.25	0.00	0.02	6.09
6/26/2018	192900	16300	1.30	1.09	7.09	0.00	0.00	6.00
6/27/2018	193300	13000	1.32	1.12	6.20	0.00	0.00	5.08
6/28/2018	188800	11500	1.29	1.09	6.96	0.00	0.00	5.87
6/29/2018	178900	14200	1.21	1.02	6.98	0.00	0.00	5.96
6/30/2018	188900	10800	1.31	1.11	7.08	0.00	0.00	5.97
<b>Total</b>	<b>5796500</b>	<b>591600</b>	<b>40.95</b>	<b>34.56</b>	<b>215.69</b>	<b>1.04</b>	<b>0.70</b>	<b>181.13</b>
<b>Min</b>	<b>171900</b>	<b>10800</b>	<b>1.21</b>	<b>1.02</b>	<b>6.20</b>	<b>0.00</b>	<b>0.00</b>	<b>5.08</b>
<b>Max</b>	<b>225400</b>	<b>28500</b>	<b>1.61</b>	<b>1.37</b>	<b>7.79</b>	<b>0.35</b>	<b>0.31</b>	<b>6.48</b>
<b>Average</b>	<b>193217</b>	<b>19720</b>	<b>1.37</b>	<b>1.15</b>	<b>7.19</b>	<b>0.03</b>	<b>0.02</b>	<b>6.04</b>

## Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Meadow Glade GPD	Hockinson GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
7/1/2018	207600	14100	1.39	1.17	7.18	0.00	0.01	6.01
7/2/2018	201100	12100	1.35	1.14	7.06	0.00	0.01	5.92
7/3/2018	170100	13000	1.20	1.01	6.97	0.01	0.00	5.96
7/4/2018	221500	12000	1.39	1.16	7.00	0.00	0.00	5.84
7/5/2018	199400	12500	1.30	1.09	6.98	0.00	0.00	5.89
7/6/2018	189100	11300	1.25	1.05	6.97	0.00	0.00	5.92
7/7/2018	193600	11500	1.33	1.12	7.04	0.00	0.00	5.92
7/8/2018	217600	15500	1.41	1.17	7.17	0.00	0.00	6.00
7/9/2018	198000	12100	1.32	1.11	7.16	0.00	0.02	6.05
7/10/2018	190400	13100	1.34	1.13	6.96	0.00	0.00	5.83
7/11/2018	178300	12700	1.27	1.08	6.94	0.00	0.00	5.86
7/12/2018	187500	12900	1.31	1.11	6.95	0.00	0.00	5.84
7/13/2018	177100	12100	1.25	1.06	6.95	0.00	0.00	5.89
7/14/2018	191700	10900	1.40	1.19	6.96	0.00	0.00	5.77
7/15/2018	193200	12600	1.33	1.13	7.06	0.00	0.00	5.93
7/16/2018	186900	14800	1.32	1.12	7.08	0.00	0.00	5.96
7/17/2018	185900	14400	1.31	1.11	6.94	0.00	0.00	5.84
7/18/2018	189400	12700	1.31	1.10	6.89	0.00	0.00	5.79
7/19/2018	199900	13400	1.35	1.14	6.92	0.00	0.00	5.78
7/20/2018	185000	12900	1.31	1.11	6.91	0.00	0.00	5.80
7/21/2018	213400	15100	1.41	1.19	6.99	0.00	0.00	5.80
7/22/2018	175700	13900	1.28	1.09	7.06	0.00	0.00	5.97
7/23/2018	189200	13500	1.37	1.16	7.02	0.00	0.00	5.86
7/24/2018	198700	15600	1.32	1.11	6.85	0.00	0.00	5.74
7/25/2018	190600	13000	1.31	1.11	6.79	0.00	0.00	5.68
7/26/2018	183800	13500	1.30	1.10	6.87	0.00	0.00	5.77
7/27/2018	179800	12600	1.22	1.03	6.82	0.00	0.00	5.79
7/28/2018	198200	13500	1.33	1.12	6.87	0.00	0.00	5.75
7/29/2018	207700	14900	1.41	1.19	7.03	0.00	0.00	5.84
7/30/2018	197800	14000	1.34	1.12	7.10	0.00	0.00	5.98
7/31/2018	193600	13400	1.34	1.13	6.93	0.00	0.00	5.80
<b>Total</b>	5991800	409600	41.06	34.66	216.42	0.01	0.04	181.76
<b>Min</b>	170100	10900	1.20	1.01	6.79	0.00	0.00	5.68
<b>Max</b>	221500	15600	1.41	1.19	7.18	0.01	0.02	6.05
<b>Average</b>	193284	13213	1.32	1.12	6.98	0.00	0.00	5.86

## Salmon Creek Wastewater Treatment Plant

### Flow and Rainfall Report

Date	Meadow Glade GPD	Hockinson GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
8/1/2018	213500	16200	1.30	1.07	6.86	0.00	0.00	5.79
8/2/2018	182300	13600	1.28	1.09	6.89	0.00	0.00	5.80
8/3/2018	191700	11300	1.26	1.05	6.85	0.02	0.00	5.80
8/4/2018	207900	12800	1.34	1.12	6.93	0.02	0.00	5.81
8/5/2018	191900	13900	1.39	1.18	7.15	0.00	0.00	5.97
8/6/2018	193200	15200	1.35	1.14	7.03	0.00	0.00	5.89
8/7/2018	182400	13200	1.31	1.11	6.95	0.00	0.00	5.84
8/8/2018	183900	13800	1.31	1.11	6.90	0.00	0.00	5.79
8/9/2018	172700	14200	1.28	1.10	6.90	0.00	0.00	5.80
8/10/2018	176500	15400	1.27	1.08	6.88	0.00	0.00	5.80
8/11/2018	199400	13100	1.40	1.19	6.93	0.00	0.00	5.74
8/12/2018	198100	12400	1.32	1.10	7.08	0.00	0.00	5.98
8/13/2018	196700	13100	1.35	1.14	7.04	0.00	0.00	5.90
8/14/2018	180600	12900	1.33	1.14	6.93	0.00	0.00	5.79
8/15/2018	182500	13300	1.28	1.08	6.88	0.00	0.00	5.80
8/16/2018	171000	18400	1.28	1.09	6.88	0.00	0.00	5.79
8/17/2018	184700	16100	1.22	1.02	6.87	0.00	0.00	5.85
8/18/2018	199900	16700	1.33	1.11	6.92	0.00	0.00	5.81
8/19/2018	212600	17700	1.40	1.17	7.10	0.00	0.00	5.93
8/20/2018	196100	20600	1.34	1.13	7.14	0.00	0.00	6.01
8/21/2018	194300	17900	1.29	1.08	6.99	0.00	0.00	5.91
8/22/2018	199400	14900	1.35	1.13	6.89	0.00	0.00	5.76
8/23/2018	172800	19000	1.25	1.06	6.90	0.00	0.00	5.84
8/24/2018	168200	18400	1.18	1.00	6.92	0.00	0.00	5.92
8/25/2018	182400	16800	1.31	1.11	6.99	0.00	0.00	5.88
8/26/2018	206100	21300	1.47	1.25	7.20	0.05	0.02	5.95
8/27/2018	204500	23600	1.38	1.15	7.49	0.31	0.05	6.34
8/28/2018	193300	22800	1.33	1.12	7.17	0.00	0.00	6.05
8/29/2018	182700	17400	1.30	1.10	7.18	0.00	0.00	6.08
8/30/2018	187900	22300	1.35	1.14	7.20	0.00	0.00	6.06
8/31/2018	212400	20200	1.41	1.18	7.16	0.00	0.00	5.98
<b>Total</b>	5921600	508500	40.97	34.54	217.20	0.40	0.07	182.66
<b>Min</b>	168200	11300	1.18	1.00	6.85	0.00	0.00	5.74
<b>Max</b>	213500	23600	1.47	1.25	7.49	0.31	0.05	6.34
<b>Average</b>	191019	16403	1.32	1.11	7.01	0.01	0.00	5.89

## Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Meadow Glade GPD	Hockinson GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
9/1/2018	185800	15000	1.31	1.11	7.14	0.00	0.00	6.03
9/2/2018	177400	18600	1.26	1.06	7.00	0.00	0.00	5.94
9/3/2018	193100	16800	1.30	1.09	7.53	0.00	0.00	6.44
9/4/2018	197600	24200	1.37	1.15	7.44	0.00	0.00	6.30
9/5/2018	198700	24200	1.34	1.12	7.25	0.00	0.00	6.13
9/6/2018	188300	19200	1.30	1.09	7.19	0.00	0.00	6.10
9/7/2018	180300	20300	1.28	1.08	6.91	0.00	0.00	5.83
9/8/2018	187300	16600	1.35	1.15	7.00	0.00	0.00	5.85
9/9/2018	213800	15400	1.44	1.21	7.35	0.00	0.00	6.14
9/10/2018	193400	21100	1.37	1.16	7.31	0.23	0.22	6.15
9/11/2018	200700	21500	1.40	1.17	7.11	0.11	0.13	5.94
9/12/2018	196700	21700	1.36	1.14	7.17	0.22	0.66	6.03
9/13/2018	196000	24200	1.44	1.22	7.12	0.25	0.14	5.90
9/14/2018	172600	20100	1.27	1.07	7.08	0.38	0.00	6.01
9/15/2018	184300	14600	1.37	1.17	7.17	0.00	0.07	6.00
9/16/2018	205400	16000	1.53	1.31	7.62	0.24	0.15	6.31
9/17/2018	189800	25100	1.39	1.17	7.25	0.03	0.00	6.08
9/18/2018	194800	25500	1.33	1.11	7.11	0.00	0.00	6.00
9/19/2018	219600	29900	1.34	1.09	6.99	0.00	0.00	5.90
9/20/2018	167200	21200	1.10	0.91	7.03	0.00	0.00	6.12
9/21/2018	166100	22800	1.20	1.01	6.92	0.00	0.01	5.91
9/22/2018	193700	13900	1.43	1.22	7.13	0.02	0.00	5.91
9/23/2018	207200	14800	1.43	1.21	7.44	0.03	0.00	6.23
9/24/2018	194100	27100	1.41	1.19	7.12	0.00	0.00	5.93
9/25/2018	190200	25300	1.34	1.13	6.95	0.00	0.00	5.82
9/26/2018	186200	25100	1.29	1.08	6.81	0.00	0.00	5.73
9/27/2018	190200	25600	1.36	1.14	6.86	0.00	0.00	5.72
9/28/2018	157300	24000	1.19	1.00	6.78	0.00	0.00	5.78
9/29/2018	188300	13300	1.32	1.11	6.91	0.00	0.01	5.80
9/30/2018	212600	15100	1.45	1.23	7.35	0.00	0.01	6.12
<b>Total</b>	5728700	618200	40.26	33.92	214.04	1.51	1.40	180.12
<b>Min</b>	157300	13300	1.10	0.91	6.78	0.00	0.00	5.72
<b>Max</b>	219600	29900	1.53	1.31	7.62	0.38	0.66	6.44
<b>Average</b>	190957	20607	1.34	1.13	7.13	0.05	0.05	6.00

## Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Meadow Glade GPD	Hockinson GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
10/1/2018	190000	25700	1.32	1.11	7.07	0.04	0.00	5.96
10/2/2018	196400	22900	1.34	1.12	6.98	0.01	0.00	5.86
10/3/2018	186800	22200	1.30	1.09	6.91	0.00	0.00	5.82
10/4/2018	183500	20400	1.31	1.11	6.91	0.00	0.00	5.80
10/5/2018	169200	23900	1.34	1.14	7.01	0.00	0.00	5.87
10/6/2018	178900	17300	1.36	1.17	7.32	0.58	0.00	6.15
10/7/2018	217700	17200	1.60	1.36	7.41	0.00	0.20	6.05
10/8/2018	195100	25600	1.58	1.36	7.78	0.31	0.37	6.42
10/9/2018	187700	23500	1.42	1.21	7.26	0.27	0.01	6.05
10/10/2018	198400	24100	1.40	1.18	7.02	0.01	0.00	5.84
10/11/2018	193900	21700	1.40	1.18	6.94	0.00	0.00	5.76
10/12/2018	160700	13300	1.21	1.04	6.95	0.00	0.00	5.91
10/13/2018	195500	11900	1.42	1.21	7.09	0.00	0.00	5.88
10/14/2018	205600	13700	1.43	1.21	7.30	0.00	0.00	6.09
10/15/2018	196900	20400	1.38	1.16	7.06	0.00	0.00	5.90
10/16/2018	180300	24200	1.27	1.07	6.87	0.00	0.00	5.80
10/17/2018	188600	20300	1.29	1.09	6.82	0.00	0.00	5.73
10/18/2018	180400	21600	1.31	1.11	6.82	0.00	0.00	5.71
10/19/2018	167600	21300	1.20	1.01	6.78	0.00	0.00	5.77
10/20/2018	186800	8800	1.33	1.13	6.93	0.00	0.00	5.80
10/21/2018	200700	16500	1.40	1.18	7.19	0.00	0.00	6.01
10/22/2018	186900	19000	1.34	1.13	6.99	0.00	0.00	5.86
10/23/2018	184300	21600	1.31	1.11	6.91	0.00	0.07	5.80
10/24/2018	194900	18900	1.34	1.12	6.83	0.14	0.00	5.71
10/25/2018	186000	22100	1.42	1.21	7.09	0.13	0.46	5.88
10/26/2018	165500	19000	1.38	1.19	7.12	0.46	0.34	5.93
10/27/2018	204900	26500	2.20	1.97	8.19	0.27	1.80	6.22
10/28/2018	216300	24200	2.22	1.98	10.48	2.22	0.52	8.50
10/29/2018	185900	26500	1.80	1.59	8.32	0.73	0.05	6.73
10/30/2018	197800	23400	1.73	1.51	7.65	0.07	0.07	6.14
10/31/2018	187200	26200	1.84	1.62	7.65	0.28	0.22	6.03
<b>Total</b>	5870400	643900	45.19	38.68	225.65	5.52	4.11	186.97
<b>Min</b>	160700	8800	1.20	1.01	6.78	0.00	0.00	5.71
<b>Max</b>	217700	26500	2.22	1.98	10.48	2.22	1.80	8.50
<b>Average</b>	189368	20771	1.46	1.25	7.28	0.18	0.13	6.03

## Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Meadow Glade GPD	Hockinson GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
11/1/2018	207900	28900	1.92	1.68	7.71	0.36	0.00	6.03
11/2/2018	159200	23400	1.60	1.41	7.65	0.34	0.09	6.24
11/3/2018	182600	18400	1.76	1.56	7.68	0.03	0.04	6.12
11/4/2018	217400	17800	1.91	1.68	7.96	0.20	0.05	6.28
11/5/2018	186900	23500	1.80	1.59	7.63	0.10	0.10	6.04
11/6/2018	189200	24500	1.76	1.55	7.58	0.36	0.08	6.03
11/7/2018	194600	23300	1.65	1.43	7.34	0.07	0.01	5.91
11/8/2018	186000	22000	1.57	1.36	7.33	0.01	0.00	5.97
11/9/2018	195200	19200	1.57	1.35	7.19	0.00	0.01	5.84
11/10/2018	200100	12700	1.58	1.36	7.36	0.00	0.00	6.00
11/11/2018	195800	14800	1.52	1.31	7.37	0.00	0.01	6.06
11/12/2018	181700	12000	1.38	1.19	7.46	0.00	0.00	6.27
11/13/2018	187800	22200	1.41	1.20	7.09	0.00	0.00	5.89
11/14/2018	190200	21400	1.42	1.21	6.99	0.03	0.02	5.78
11/15/2018	188300	25100	1.40	1.19	7.02	0.03	0.02	5.83
11/16/2018	166500	22400	1.33	1.14	6.96	0.05	0.01	5.82
11/17/2018	201300	12200	1.46	1.24	7.31	0.00	0.00	6.07
11/18/2018	217500	17100	1.54	1.31	7.45	0.00	0.00	6.14
11/19/2018	189300	22100	1.39	1.17	7.15	0.00	0.00	5.98
11/20/2018	200800	21100	1.44	1.22	7.01	0.00	0.01	5.79
11/21/2018	187200	14800	1.34	1.14	7.28	0.00	0.05	6.14
11/22/2018	245200	17700	1.73	1.47	7.98	0.28	0.57	6.51
11/23/2018	200400	16600	1.72	1.51	7.79	0.62	0.24	6.28
11/24/2018	191700	14100	1.62	1.41	7.76	0.30	0.00	6.35
11/25/2018	212800	17500	1.64	1.41	7.75	0.00	0.00	6.34
11/26/2018	199100	28000	1.75	1.52	7.46	0.03	0.26	5.94
11/27/2018	210600	32400	2.14	1.90	8.71	1.00	1.05	6.81
11/28/2018	200700	30600	2.04	1.81	8.34	0.07	0.20	6.53
11/29/2018	187700	27700	1.79	1.58	7.98	0.27	0.01	6.40
11/30/2018	183500	29800	1.99	1.77	7.93	0.07	0.00	6.16
<b>Total</b>	<b>5857200</b>	<b>633300</b>	<b>49.15</b>	<b>42.66</b>	<b>226.22</b>	<b>4.22</b>	<b>2.83</b>	<b>183.56</b>
<b>Min</b>	<b>159200</b>	<b>12000</b>	<b>1.33</b>	<b>1.14</b>	<b>6.96</b>	<b>0.00</b>	<b>0.00</b>	<b>5.78</b>
<b>Max</b>	<b>245200</b>	<b>32400</b>	<b>2.14</b>	<b>1.90</b>	<b>8.71</b>	<b>1.00</b>	<b>1.05</b>	<b>6.81</b>
<b>Average</b>	<b>195240</b>	<b>21110</b>	<b>1.64</b>	<b>1.42</b>	<b>7.54</b>	<b>0.14</b>	<b>0.09</b>	<b>6.12</b>

## Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Meadow Glade GPD	Hockinson GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
12/1/2018	193900	17600	1.95	1.74	8.34	0.65	0.05	6.60
12/2/2018	218500	21700	1.95	1.71	8.26	0.01	0.01	6.55
12/3/2018	201300	22900	1.74	1.52	7.77	0.02	0.00	6.25
12/4/2018	192300	24000	1.69	1.47	7.55	0.00	0.00	6.08
12/5/2018	206500	22800	1.65	1.42	7.41	0.00	0.00	5.99
12/6/2018	208100	23600	1.67	1.44	7.32	0.00	0.00	5.88
12/7/2018	164200	21800	1.36	1.17	7.26	0.00	0.01	6.09
12/8/2018	192200	14900	1.57	1.36	7.49	0.04	0.05	6.13
12/9/2018	207100	20300	1.80	1.57	7.92	0.00	0.41	6.35
12/10/2018	208500	24600	1.77	1.53	7.77	0.49	0.01	6.24
12/11/2018	204400	33100	2.03	1.79	8.06	0.18	0.65	6.27
12/12/2018	204100	28100	1.96	1.73	8.30	0.60	0.00	6.57
12/13/2018	207800	26100	1.93	1.69	8.27	0.03	0.00	6.58
12/14/2018	174100	24400	1.62	1.42	7.69	0.00	0.00	6.27
12/15/2018	193800	16400	1.79	1.58	7.85	0.66	0.19	6.27
12/16/2018	244600	24700	2.18	1.91	8.57	0.18	0.45	6.66
12/17/2018	234000	46300	2.65	2.37	8.60	0.40	0.65	6.23
12/18/2018	260300	51600	3.21	2.90	11.36	1.57	1.11	8.46
12/19/2018	216800	31300	2.38	2.13	9.40	0.18	0.00	7.27
12/20/2018	212600	29400	2.23	1.99	8.72	0.01	0.00	6.73
12/21/2018	225900	26500	2.17	1.91	8.48	0.13	0.01	6.57
12/22/2018	211100	21200	2.13	1.90	8.79	0.00	0.64	6.89
12/23/2018	285300	34000	2.90	2.58	10.19	0.77	0.73	7.61
12/24/2018	250800	22200	2.39	2.12	9.86	0.37	0.00	7.75
12/25/2018	239500	19400	2.16	1.90	8.59	0.01	0.00	6.69
12/26/2018	249600	22700	2.30	2.03	8.82	0.03	0.25	6.79
12/27/2018	223400	19700	2.07	1.83	8.59	0.30	0.06	6.76
12/28/2018	248100	35600	2.41	2.12	8.64	0.06	0.05	6.52
12/29/2018	265800	36600	2.79	2.48	9.43	0.59	0.53	6.95
12/30/2018	269300	29200	2.65	2.35	10.07	0.61	0.11	7.72
12/31/2018	249800	23000	2.40	2.13	9.27	0.14	0.01	7.14
<b>Total</b>	6863700	815700	65.48	57.80	264.64	8.03	5.98	206.84
<b>Min</b>	164200	14900	1.36	1.17	7.26	0.00	0.00	5.88
<b>Max</b>	285300	51600	3.21	2.90	11.36	1.57	1.11	8.46
<b>Average</b>	221410	26313	2.11	1.86	8.54	0.26	0.19	6.67

## **APPENDIX D**

### **ERU AND SEWER LINE DATA**



**CLARK REGIONAL WASTEWATER DISTRICT**  
**SALMON CREEK TREATMENT PLANT**  
**SEWER CONNECTION REPORT**

Year: Jan 2018 - Dec 2018

Month	New Residential	Total Residential	Multi Family/ Guesthomes (*.*.)	Total Res/ Multi-Family	New Commercial	Total Commercial	ERU's	Grand Total ERU's	Line Construction			Total Line Miles	Total Construction Miles	Year to Date ERU's					
									Total	Commercial	Developer			Res	SCTP - All	Res	Multi-Family	Comm	Total
Balance Forward	ERU's	24363.0	5857.8		4108.6	34329.4			2094275	396.6				144.8		1,267.0	378.6	144.8	1,790.4
Jan	98.0	24461.0	49.6 ♦	5907.4	14.7 ♦	4123.3	34491.7	6819	0	2101094	397.9				VTP				
Feb	72.0	24533.0	56.0 ♦	5963.4	3.6 ♦	4126.9	34623.3	10859	0	2111953	400.0				Res	23.0			
Mar	85.0	24618.0	52.0 ♦	6015.4	1.0 ♦	4127.9	34761.3	9610	0	2121563	401.8				Multi-Family	52.8			
Apr	79.0	24697.0	8.0 ♦	6023.4	0.0	4127.9	34848.3	2389	0	2123962	402.3				Comm	8.3			
May	124.0	24821.0	16.0 ♦	6039.4	2.5 ♦	4130.4	34990.8	11304	0	2135266	404.4				Total	84.1			
Jun	141.0	24962.0	0.8 ♦	6040.2	45.4 ♦	4175.8	35178.0	3116	0	2138382	405.0				RTP				
Jul	89.0	25051.0	82.0 ♦	6122.2	3.8 ♦	4179.6	35352.8	2343	0	2140725	405.4				Res	59.0			
Aug	91.0	25142.0	0.0	6122.2	13.4 ♦	4193.0	35457.2	1488	0	2142213	405.7				Multi-Family	-			
Sep	59.0	25201.0	14.4 ♦	6136.6	1.8 ♦	4194.8	35532.4	2998	13391	2158602	408.3				Comm	18.0			
Oct	62.0	25263.0	52.0 ♦	6188.6	4.0 ♦	4198.8	35650.4	13280	0	2171882	411.3				Total	77.0			
Nov	58.0	25321.0	0.0	6188.6	3.1 ♦	4201.9	35711.5	1949	0	2173831	411.7				Permits				
Dec	50.0	25371.0	47.8 ♦	6236.4	4.6 ♦	4206.5	35813.9	4783	0	2178614	412.6				SCTP	1309			
Subtotals		1008.0			97.9			70948	13391						RTP	59			
Total ERU's		25371.0		6236.4		4206.5	35813.9		2178614	412.6					VTP	25			
														Total	1393				

♦ See reverse for explanation

	<b>January</b>	<b>March Continued</b>	<b>August</b>	<b>November</b>
SCTP	Brush Prairie Apartments 11806 NE 122nd Ave ♦ Bldg H ♦ Bldg J ♦ Bldg W ♦ Bldg Y	SCTP HB Fuller Sports Park 13712 NW 2nd Ave ♦ Concession Stand	SCTP Cornerstone Christian School ♦ 10702 NE 117th Ave	SCTP Bowers Marketplace 11508 NE 119th St ♦ ARCO
	8.0	1.0	13.4	1.3
SCTP	Union Park Apartments 11803 NE 124th Ave ♦ Bldg F	SCTP April Heritage Villas Apartments 2301 NE 81st St ♦ Bldg J	SCTP September Wingate Square Apartments 9700 NE 76th St ♦ Bldg B	SCTP Cascade Flooring 11614 NE Highway 99 ♦ Gateway Office 2
	8.0	1.0	13.4	0.4
SCTP	88th St Development 1218 NE 88th St St 114 ♦ MnWhen 1218 NE 88th St St 100	SCTP May Heritage Villas Apartments 2301 NE 61st St ♦ Bldg E	SCTP Big 5 Hazel Dell 8311 NE Highway 99 St 100 ♦ Studio 99 Hair Design	SCTP 2621 NE 134th St St 110 ♦ Guild Mortgage
	0.2	16.0	14.4	1.2
SCTP	Northwest Self Storage ♦ 12214 NE 117th Ave	SCTP 13.5 14.7	SCTP October Wubben Industrial Park 11516 NE 66th St ♦ Enterprise Rental	SCTP Salmon Creek Business Park Westland 1101 NE 144th St Bldg A St 107 The Sierra Co
	1.0	16.0	14.4	0.2
SCTP	February Brush Prairie Apartments 11806 NE 122nd Ave ♦ Bldg G ♦ Bldg X	SCTP June Heritage Villas Apartments 2301 NE 81st St ♦ Managers Apt Bldg M	SCTP Alderbrook Apartments 9501 NE 19th Ave ♦ Bldg A	SCTP Alderbrook Apartments 9501 NE 19th Ave ♦ Bldg F
	8.0	0.8	0.2	1.8
SCTP	Union Park Apartments 11803 NE 124th Ave ♦ Bldg D ♦ Bldg E	SCTP 19.2 56.0	SCTP October Wingate Square Apartments 9700 NE 76th St ♦ Bldg A	SCTP Vista View Apartments 14505 NE 20th Ave ♦ Bldg G
	19.2	0.8	19.2	4.8
SCTP	Hazel Dell Towne Center Bldg H 8902 NE 5th Ave St 101 ♦ Margarita Factory	SCTP July Promenade Apartments 11903 NE 118th Ave ♦ All Buildings	SCTP Alderbrook Apartments 9501 NE 19th Ave ♦ Office	SCTP Vista View Apartments 14505 NE 20th Ave ♦ Bldg H
	2.0	2.0	1.0	4.8
SCTP	Clark Public Utilities 8600 NE 117th Ave ♦ Vehicle Wash Station	SCTP 1.6 3.6	SCTP Pariv Office Bldg 9101 NE 116th Ave ♦ Taylor Transport	SCTP Wingate Square Apartments 9700 NE 76th St ♦ Bldg J - Clubhouse
	1.6	45.4	1.0	1.0
SCTP	March Brush Prairie Apartments 11806 NE 122nd Ave ♦ Bldg D ♦ Bldg E ♦ Bldg F	SCTP 8.0	SCTP Taylor Transport 7416 NE 101st St ♦ 7416 NE 101st St	SCTP Wingate Square Apartments 9700 NE 76th St ♦ Shelf Building
	9.6	0.8	2.0	1.0
SCTP	Heritage Villas Apartments 2301 NE 81st St ♦ Bldg C ♦ Bldg D ♦ Bldg F	SCTP 82.0 82.0	SCTP Pariv Office Bldg 9101 NE 116th Ave ♦ Mens Barber Shop	SCTP 86th St Development 1218 NE 88th St St 104 ♦ Mathnasium
	8.8	8.8	1.0	0.5
SCTP	Bowers Marketplace 11500 NE 119th St St 108 ♦ Mens Barber Shop	SCTP 82.0	SCTP Walsh Auto Body 13407 NE Salmon Creek Ave ♦ Existing shop	SCTP 14400 NE 20th Ave ♦ Salmon Creek Endodontics
	8.8	8.8	1.5	1.0
				4.6
				52.0

**CLARK REGIONAL WASTEWATER DISTRICT**  
**MEADOWGLADE AREA**  
**SALMON CREEK TREATMENT PLANT**  
**SEWER CONNECTION REPORT**

Year: Jan 2018 - Dec 2018

Month	New Residential	Total Residential	Multi Family/ Guesthomes (*.8)	Total Res/ Multi-Family	New	Total Commercial	Grand Total ERU's	Line Construction			Total Miles
								Developer	District	Construction	
Balance Forward			ERU's	741.0	2.4		108.6	852.0			28511 5.4
Jan	1.0	742.0		0.0	2.4	0.0	108.6	853.0	0	0	28511 5.4
Feb	0.0	742.0		0.0	2.4	0.0	108.6	853.0	87	0	28598 5.4
Mar	0.0	742.0		0.0	2.4	0.0	108.6	853.0	0	0	28598 5.4
Apr	0.0	742.0		0.0	2.4	0.0	108.6	853.0	0	0	28598 5.4
May	1.0	743.0		0.0	2.4	0.0	108.6	854.0	0	0	28598 5.4
Jun	1.0	744.0		0.0	2.4	0.0	108.6	855.0	0	0	28598 5.4
Jul	0.0	744.0		0.0	2.4	0.0	108.6	855.0	0	0	28598 5.4
Aug	1.0	745.0		0.0	2.4	0.0	108.6	856.0	0	0	28598 5.4
Sep	0.0	745.0		0.0	2.4	0.0	108.6	856.0	0	0	28598 5.4
Oct	0.0	745.0		0.0	2.4	0.0	108.6	856.0	0	0	28598 5.4
Nov	1.0	746.0		0.0	2.4	0.0	108.6	857.0	0	0	28598 5.4
Dec	0.0	746.0		0.0	2.4	0.0	108.6	857.0	0	0	28598 5.4
<b>Subtotals</b>	<b>5.0</b>			<b>0.0</b>					<b>87</b>	<b>0</b>	
<b>Total ERU's</b>		<b>746.0</b>		<b>2.4</b>			<b>108.6</b>	<b>857.0</b>			<b>28598 5.4</b>



**CLARK REGIONAL WASTEWATER DISTRICT**  
**HOCKINSON AREA**  
**SALMON CREEK TREATMENT PLANT**  
**SEWER CONNECTION REPORT**

Year: Jan 2018 - Dec 2018

Month	New Residential	Total Residential	Multi Family Guesthomes (*.8)	New			Grand Total ERU's	Line Developer	Construction District	Total Line Construction	Total Miles
				Total Res/	Multi-Family	New Commercial					
<b>Balance Forward</b>				0.0			135.5	203.5			6567 1.2
<b>Jan</b>	0.0	68.0	0.0	0.0	0.0	0.0	135.5	203.5	0	0	6567 1.2
<b>Feb</b>	0.0	68.0	0.0	0.0	0.0	0.0	135.5	203.5	0	0	6567 1.2
<b>Mar</b>	0.0	68.0	0.0	0.0	0.0	0.0	135.5	203.5	0	0	6567 1.2
<b>Apr</b>	0.0	68.0	0.0	0.0	0.0	0.0	135.5	203.5	0	0	6567 1.2
<b>May</b>	0.0	68.0	0.0	0.0	0.0	0.0	135.5	203.5	0	0	6567 1.2
<b>Jun</b>	1.0	69.0	0.0	0.0	0.0	0.0	135.5	204.5	0	0	6567 1.2
<b>Jul</b>	0.0	69.0	0.0	0.0	1.8 ♦	137.3	206.3	0	0		6567 1.2
<b>Aug</b>	0.0	69.0	0.0	0.0	0.0	137.3	206.3	0	0		6567 1.2
<b>Sep</b>	0.0	69.0	0.0	0.0	0.0	137.3	206.3	0	0		6567 1.2
<b>Oct</b>	2.0	71.0	0.0	0.0	0.0	137.3	208.3	0	0		6567 1.2
<b>Nov</b>	0.0	71.0	0.0	0.0	0.0	137.3	208.3	0	0		6567 1.2
<b>Dec</b>	1.0	72.0	0.0	0.0	0.0	137.3	209.3	494	0		7061 1.3
<b>Subtotals</b>	4.0		0.0		1.8			494	0		
<b>Total ERU's</b>		72.0		0.0		137.3	209.3			7061	1.3

♦ See next page for explanation

SCTP H      July      Heritage Bible Church  
                 ♦ 16331 NE 82nd Ave

1.8  
1.8

**CLARK REGIONAL WASTEWATER DISTRICT  
RIDGEFIELD AREA  
SALMON CREEK TREATMENT PLANT  
SEWER CONNECTION REPORT**

Year: Jan 2018 - Dec 2018

Month	New Residential	Total Residential	Multi Family/ Guesthomes (*.8)		New Commercial	Total Commercial	Grand Total ERU's	Line Construction		District	Construction	Total Line Miles
			ERU's	Res/				Multi-Family	Developer			
<b>Balance Forward</b>			509.0		0.0		158.2	727.2				103974.0
<b>Jan</b>	18.0	527.0	0.0	0.0	0.0	154.1	681.1	0.0	0.0			83873.0
<b>Feb</b>	5.0	532.0	0.0	0.0	1.0 ♦	155.1	687.1	7185.0	0.0			91058.0
<b>Mar</b>	20.0	552.0	0.0	0.0	3.1 ♦	158.2	710.2	12916.0	0.0			103974.0
<b>Apr</b>	17.0	569.0	0.0	0.0	0.0	158.2	727.2	0.0	0.0			103974.0
<b>May</b>	23.0	592.0	0.0	0.0	1.0 ♦	159.2	751.2	0.0	0.0			103974.0
<b>Jun</b>	21.0	613.0	0.0	0.0	0.0	159.2	772.2	0.0	0.0			103974.0
<b>Jul</b>	19.0	632.0	0.0	0.0	0.0	159.2	791.2	0.0	0.0			103974.0
<b>Aug</b>	60.0	692.0	0.0	0.0	40.0 ♦	199.2	891.2	3618.0	0.0			107592.0
<b>Sep</b>	26.0	718.0	0.0	0.0	0.0	199.2	917.2	18405.0	0.0			125997.0
<b>Oct</b>	19.0	737.0	0.0	0.0	0.0	199.2	936.2	5812.0	0.0			131809.0
<b>Nov</b>	11.0	748.0	0.0	0.0	0.0	199.2	947.2	0.0	0.0			131809.0
<b>Dec</b>	11.0	759.0	0.0	0.0	0.0	199.2	958.2	11785.0	0.0			143594.0
<b>Subtotals</b>					45.1							27.2
<b>Total ERU's</b>		759.0		0.0		199.2	958.2	59721.0	0.0			143594
												27.2

♦ See next page for explanation

<b>February</b>	SCTP R	South 11th Street 6300 S 11th St	◆ Shell Building	
				<u>1.0</u>
				<u>1.0</u>

<b>May</b>	SCTP R	Altro Ventures Industrial 5813 S 11th St	◆ Shell Building	
				<u>1.0</u>
				<u>1.0</u>

<b>August</b>	SCTP R	Ridgefield Intermediate VRMS	
		♦ 3215 S Hillhurst Rd	<u>40.0</u>
			<u>40.0</u>