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February 13, 2023

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

RE: 2023 Infiltration and Inflow Report
WA0023639

Dear Ms. Mckittrick:

Enclosed you will find the 2023 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.

Please note that during the preparation of this report, the District recognized that flows for October, November, and December of 2022 were reported incorrectly on the 2022 I/I report. Per discussion with Mr. Steve Ogle, this historical data shown in this report reflects the corrected data to resolve the discrepancy. The 2022 reported I/I changed from 1.57 MGD to 1.90 MGD with the corrected data.

If you have any questions, please contact me at 360.993.8815 or by email at hhenderson@crwwd.com.

Sincerely,

Heath Henderson, PE
Engineering Director

Enclosure

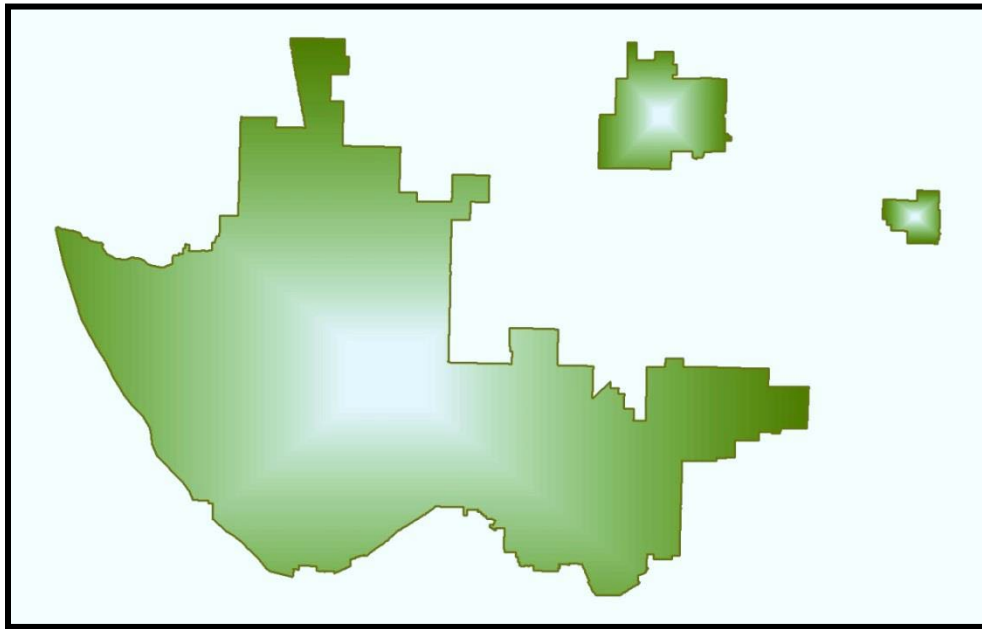
c: Steven Ogle, Water Quality Program Manager, Washington State Dept. of Ecology
Bolun Wang, Municipal Facilities Manager, Washington State Dept. of Ecology
Mark Herceg, Public Works Director, City of Battle Ground
John Peterson, General Manager, District
Matt Jenkins, Wastewater Treatment Plant Operations Manager, District
Robin Krause, Principal Engineer: Transmission and Treatment, District
Kristen Thomas, Regulatory Compliance Manager, District



2023

Clark Regional Wastewater District

Infiltration and Inflow Report For Salmon Creek Treatment Plant



February 13, 2024

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



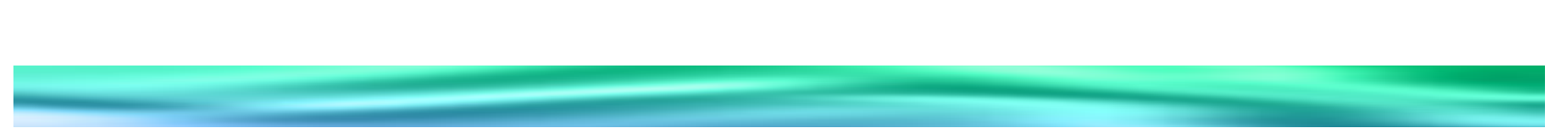


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2023 Infiltration and Inflow Report

Overview

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 0.58 MGD (4,143 Equivalent Residential Units (ERUs)). The Ridgefield Treatment Plant processes the remaining flow generated in Ridgefield. In addition, during November and December 2023, the District shifted approximately 1.3 MGD (average daily flow) to the Vancouver Westside Treatment plant, from the Salmon Creek Treatment Plant. These flow adjustments associated with Salmon Creek are 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 66 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 73 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 2023, the District had approximately 45,340 ERUs with a population equivalent of roughly 110,175 in the Salmon Creek tributary area, which includes the City of Ridgefield, with 4,028 ERUs, or a population equivalent of about 9,786.

During the preparation of this report, the District recognized that flows for October, November, and December of 2022 were reported incorrectly on the 2022 I/I report. Per discussion with Ecology, this data shown in this report reflects the corrected data to account for the incorrect entries. The 2022 reported I/I changed from 1.57 MGD to 1.90 MGD with the corrected data, which is still in-line with historical trends. The changes are highlighted in light green in relevant tables throughout this report.

This is 125 gpcd per the calculation sheets (p B-2), Bolun Wang from Ecology noticed in review - HH 3/12/24

As shown in Appendix A, the District's 2023 I/I of 1.93 MGD represents a 75% increase compared to the 2003 base year. However, this base year has been used for many past I/I reports. To better understand I/I trends in the system, given various changes in the system configuration over time, the District reviews the average monthly flows and rainfall for the available records between January 1997 and December 2023. That data shows that 2000, 2013 and 2019 represent the lowest I/I years on record. Data from 2021, 2022, and 2023 reflects very similar rainfall and flows, which also result in similar I/I at 1.98, 1.90, and 1.93 MGD, respectively. The District's I/I averaged 1.58 MGD over the past 25 years. Considering the consistent system response over the past three years, and 25 years of data, the 2023 I/I does not appear to be out of trend with historical performance. Also, the excessive inflow and infiltration calculations do not indicate that the system is experiencing higher than normal I/I.

TABLE 1

1997-2023 I/I AND RAINFALL

Year	Min of Average Monthly Flow (MGD)	Max of Average Monthly Flow (MGD)	I / I	Annual Rainfall
1997	3.9	5.73	1.84	48.18
1998	4.27	5.48	1.22	45.73
1999	4.2	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	1.1	41.02
2004	4.77	5.94	1.17	35.21
2005	4.79	5.9	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
2019	6.02	7.09	1.07	26.44
2020	6.35	7.67	1.32	30.31
2021	6.41	8.40	1.98	35.09
2022	6.62	8.52	1.90	32.62
2023	6.75	8.68	1.93	33.94
Average			1.58	36.35

Monitoring Program and Rehabilitation Projects

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, 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

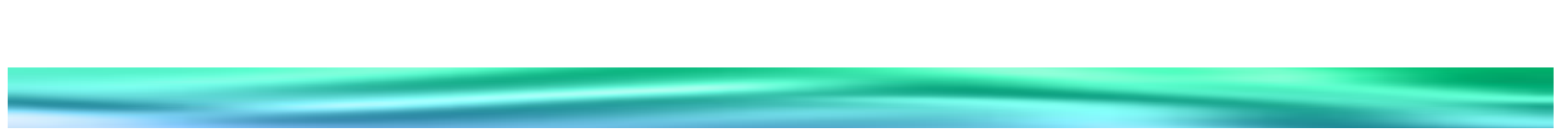
The District addresses I/I by inspecting all new systems during construction, including all mainlines, manholes and individual laterals. In addition, during plan review and field inspection, the District reviews the need for inflow dishes or watertight locking lids to control inflow. The District addresses 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. The District also requires newly constructed systems to be plugged during active site construction to reduce inflow of stormwater or construction debris.

FLOW MONITORING

The District 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 has also monitored flow at six strategic locations in the service area for the past two years in anticipation of recalibrating the hydraulic model in support of a General Sewer Plan update in 2025.

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. The District also performs regular inspections of nearly 80 pump stations. Results help inform the District's Capital Program, which includes a "Repair" program component. Over \$2 million is budgeted for this program on an annual basis. These programs provide for completion of specific projects targeting the reduction of I/I in the system as well as overall system performance. Typical annual projects include:

- 
- Sewer mainline and lateral lining projects – CCTV inspections reveal pipe defects such as cracks, holes, and root intrusion which create avenues for I&I. These projects are typically advertised for bidding and completed by experienced contractors.
 - Spot repair projects – CCTV inspections of pipe as well as routine maintenance inspections on pump stations can reveal pipe and/or structure connection deficiencies that result in I&I. These projects are either advertised for bids or completed by District crews depending on the project scope.



APPENDIX A

ANNUAL INFILTRATION/INFLOW (I/I) REPORT



Salmon Creek Wastewater Treatment Plant

ANNUAL INFILTRATION/INFLOW (I/I) REPORT

Reporting Year: **From:** 2021 **To:** 2023

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

	Average Monthly Flow (MGD)			Total Monthly Rainfall (inches)			Population Served			Additional Sewer Lines Added (feet)		
	Year			Year			Year			Year		
Month	2021	2022	2023	2021	2022	2023	2021	2022	2023	2021	2022	2023
January	8.30	8.11	7.84	6.56	4.30	3.91	100043	107073	110450	5937	1373	5700
February	8.40	7.27	7.57	3.28	3.22	2.35	100256	107337	110684	5911	2175	13931
March	7.25	7.78	8.12	1.39	2.27	4.43	100619	107666	110874	2228	3881	4630
April	6.80	7.89	8.68	0.43	4.87	4.55	101270	107883	110966	5409	22	677
May	6.65	7.78	7.40	1.60	3.74	0.69	101552	108142	111177	10488	11925	11456
June	6.74	7.84	7.03	1.99	2.07	0.51	102069	108325	111370	3980	794	6976
July	6.43	6.84	6.82	0.00	0.18	0.00	102413	108518	111674	0	1316	0
August	6.41	6.66	6.75	0.03	0.00	0.68	102790	108677	112196	4621	1136	5875
September	6.74	6.62	6.82	3.30	0.45	1.72	103017	108781	112432	2318	0	6254
October	6.89	6.77	6.98	4.43	1.04	2.14	103342	108885	112552	5460	0	7344
November	7.93	7.33	7.27	5.90	4.54	5.16	103842	109162	100329	13492	0	11171
December	8.25	8.52	8.47	6.18	5.94	7.80	104210	110178	100804	4015	37588	2239
TOTAL	86.80	89.40	89.73	35.09	32.62	33.94	Total (feet)			63859	60210	76253
Low	6.41	6.62	6.75				Total (miles)			12.09	11.40	14.44
High	8.40	8.52	8.68									
Average	7.23	7.45	7.48									
I/I	1.98	1.90	1.93									

Base Year: 2003

Base Year I/I: 1.1 MGD

INFILTRATION/INFLOW SUMMARY

Year	I/I	% increase from base I/I	% of max mo. design flow
2021	1.98	80	17
2022	1.90	73	17
2023	1.93	75	17



Comments: Flow Data for Q4 2022 was revised from previous report.
 2023 Nov/Dec Population Served reflects temporary flow diversion to City of Vancouver.

Heath H. Henderson, PE





APPENDIX B

FLOW ANALYSIS DATA



Salmon Creek Wastewater Management System - Clark Regional Wastewater District

ANNUAL INFILTRATION/INFLOW REPORT 1/1/2023 to 12/31/2023

FLOW AND PRECIPITATION DATA

		Average Monthly Flow (MGD)						Total Monthly Precipitation (Inches)					
MONTH	Year												
		2018	2019	2020	2021	2022	2023	2018	2019	2020	2021	2022	2023
January		7.24	6.61	7.65	8.30	8.11	7.84	6.44	3.40	7.10	6.56	4.30	3.91
February		6.83	7.09	7.67	8.40	7.27	7.57	3.40	6.26	1.66	3.28	3.22	2.35
March		6.75	6.51	6.62	7.25	7.78	8.12	2.27	1.26	2.30	1.39	2.27	4.43
April		6.80	6.86	6.71	6.80	7.89	8.68	3.26	2.42	0.60	0.43	4.87	4.55
May		6.29	6.31	6.72	6.65	7.78	7.40	0.15	1.20	1.87	1.60	3.74	0.69
June		6.04	6.27	6.89	6.74	7.84	7.03	0.70	1.09	2.63	1.99	2.07	0.51
July		5.86	6.08	6.37	6.43	6.84	6.82	0.04	0.44	0.04	0.00	0.18	0.00
August		5.89	6.02	6.35	6.41	6.66	6.75	0.07	0.51	0.31	0.03	0.00	0.68
September		6.00	6.41	6.42	6.74	6.62	6.82	1.40	1.51	1.27	3.30	0.45	1.72
October		6.03	6.25	6.38	6.89	6.77	6.98	4.11	1.78	1.52	4.43	1.04	2.14
November		6.12	6.12	7.19	7.93	7.33	7.27	2.83	1.31	5.63	5.90	4.54	5.16
December		6.67	6.65	7.35	8.25	8.52	8.47	5.98	5.26	5.38	6.18	5.94	7.80
Avg Flow / Total Rain		6.30	6.85	6.38	6.86	7.45	7.48	48.14	46.89	30.65	30.31	32.62	33.94
Low Month		5.54	5.93	5.86	6.35	6.62	6.75	0.22	0.00	0.04	0.04	0.00	0.00
High Month		7.27	8.25	7.24	7.67	8.52	8.68	9.68	8.90	6.44	7.10	5.94	7.80

POPULATION AND SEWER LINE DATA

		Population Served (Population Equivalent)	Sewer Lines Added (Feet)
MONTH	Year		Year
	2023		2023
January	110450		5700
February	110684		13931
March	110874		4630
April	110966		677
May	111177		11456
June	111370		6976
July	111674		0
August	112196		5875
September	112432		6254
October	112552		7344
November	100329		11171
December	100804		2239
Present Equivalent	100804	Total (feet)	76253
		Total (miles)	14.44

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

Salmon Creek Wastewater Management System - Clark Regional Wastewater District

ANNUAL INFILTRATION/INFLOW REPORT

1/1/2023 to 12/31/2023

DETERMINATION OF NON EXCESSIVE INFILTRATION

EPA Infiltration Criteria 120 gpcd

District Infiltration 66 gpcd

Period	Flow	Rain	Population Equivalent
Feb 14	7.49	0.06	110684
Feb 15	7.35	0.00	110684
Feb 16	7.23	0.00	110684
Feb 17	7.16	0.02	110684
Feb 18	7.26	0.02	110684
Feb 19	7.30	0.00	110684
Feb 20	7.49	0.02	110684
Average Flow (MGD)	7.33	0.12	Inches Rain

Comments: The seven day period of February 14 through February 20, 2023 is identified as a dry weather period within a period of seasonal high groundwater.

DETERMINATION OF NON EXCESSIVE INFLOW

EPA Inflow Criteria 275 gpcd

District Inflow 125 gpcd

Period	Flow	Rain	Population Equivalent
Dec 01	6.62	0.48	100804
Dec 02	8.23	0.59	100804
Dec 03	8.34	0.56	100804
Dec 04	8.70	0.17	100804
Dec 05	8.00	1.44	100804
Dec 06	12.61	1.00	100804
Dec 07	10.51	0.26	100804
Highest Average Flow (MGD)	12.61	4.50	Inches Rain

Comments: The seven day period of December 1 through December 7, 2023 was identified as a period of significant rainfall with surface ponding and runoff. December 6 was the highest recorded daily flow during a storm event.

Salmon Creek Wastewater Management System - Clark Regional Wastewater District

ANNUAL INFILTRATION/INFLOW REPORT 1/1/2023 to 12/31/2023

INFILTRATION/INFLOW SUMMARY

Year	I/I	% Over Base I/I	% of Max Design Flow
2018	1.73	58%	15%
2019	2.31	110%	20%
2020	1.38	26%	12%
2021	1.32	20%	11%
2022	1.90	73%	17%
2023	1.93	75%	17%

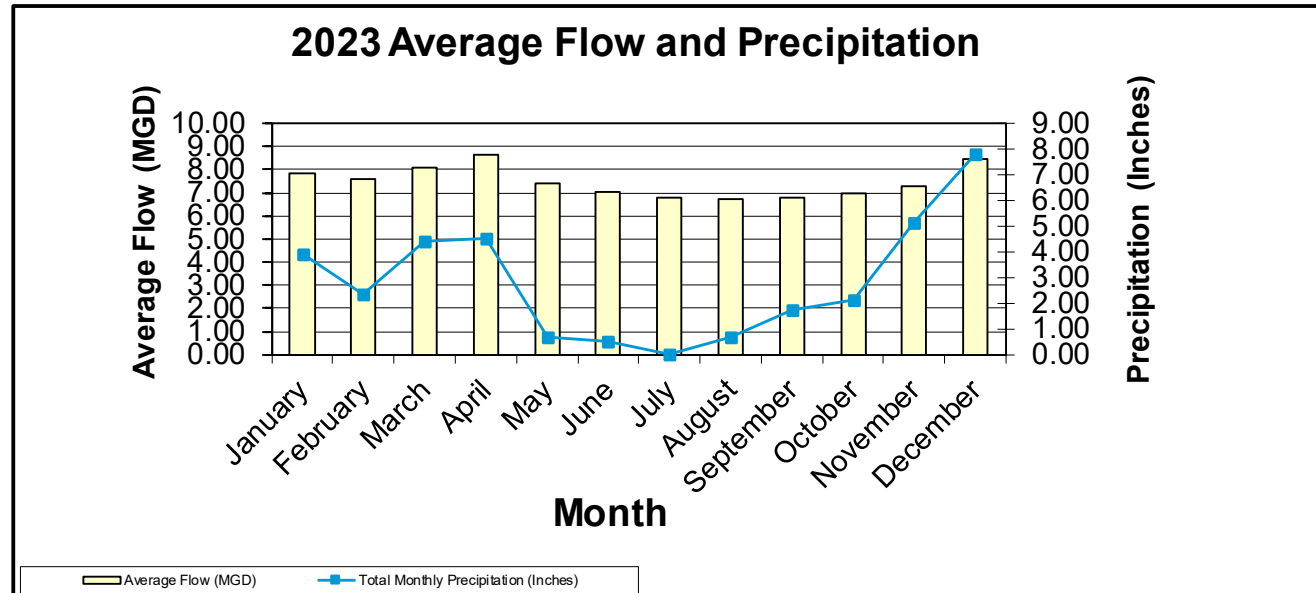
Base Year: 2003

I/I: 1.1

PLANT DESIGN CAPACITY

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

Comments: See Overview for I/I discussion.



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	Hockinson GPD	Meadow Glade GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
1/1/2023	28600	191500	2.57	2.34	11.10	0.04	0.00	8.76
1/2/2023	25800	202100	2.61	2.39	11.27	0.00	0.07	8.88
1/3/2023	34900	192900	2.49	2.26	10.57	0.14	0.09	8.31
1/4/2023	34100	203800	2.24	2.00	10.14	0.03	0.09	8.14
1/5/2023	35100	192500	2.31	2.08	9.88	0.09	0.00	7.80
1/6/2023	34700	206200	2.34	2.10	9.50	0.08	0.18	7.40
1/7/2023	29800	188300	2.15	1.93	9.92	0.10	0.23	7.99
1/8/2023	38500	298100	3.20	2.87	11.47	0.25	0.50	8.60
1/9/2023	47800	279800	3.10	2.77	11.86	0.78	0.15	9.09
1/10/2023	41900	233800	2.75	2.47	10.97	0.27	0.14	8.50
1/11/2023	43200	246500	2.78	2.49	10.60	0.11	0.52	8.11
1/12/2023	43700	275200	3.01	2.69	11.82	0.56	0.27	9.13
1/13/2023	44500	264400	2.97	2.66	11.33	0.16	0.28	8.67
1/14/2023	32600	259200	2.95	2.66	11.59	0.30	0.17	8.93
1/15/2023	43000	296900	3.45	3.11	12.21	0.47	0.35	9.10
1/16/2023	33100	246000	3.14	2.86	12.05	0.44	0.15	9.19
1/17/2023	45700	241800	2.86	2.58	11.14	0.31	0.02	8.57
1/18/2023	47300	259400	3.05	2.74	11.33	0.14	0.32	8.59
1/19/2023	39600	225400	2.77	2.50	11.05	0.43	0.00	8.55
1/20/2023	35000	203800	2.50	2.27	10.31	0.00	0.00	8.04
1/21/2023	24800	210500	2.48	2.25	10.40	0.00	0.09	8.15
1/22/2023	23000	221600	2.46	2.21	10.46	0.19	0.00	8.25
1/23/2023	36000	209100	2.36	2.11	9.89	0.02	0.00	7.78
1/24/2023	30800	196100	2.17	1.94	9.52	0.00	0.00	7.58
1/25/2023	30200	195200	2.08	1.85	9.27	0.00	0.00	7.42
1/26/2023	31800	203400	2.16	1.92	9.18	0.00	0.00	7.26
1/27/2023	30600	228200	2.35	2.09	9.37	0.25	0.03	7.28
1/28/2023	24900	223500	2.28	2.03	9.54	0.17	0.26	7.51
1/29/2023	22400	221100	2.14	1.90	9.79	0.03	0.00	7.89
1/30/2023	29300	230000	2.03	1.77	9.33	0.00	0.00	7.56
1/31/2023	28700	222600	1.98	1.73	9.04	0.00	0.00	7.31
Total	1071400	7068900	79.71	71.57	325.90	5.36	3.91	254.33
Min**	22400	188300	1.98	1.73	9.04	0.00	0.00	7.26
Max	47800	298100	3.45	3.11	12.21	0.78	0.52	9.19
Average	34561	228029	2.57	2.31	10.51	0.17	0.13	8.20

Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Hockinson GPD	Meadow Glade GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
2/1/2023	29200	230900	1.99	1.73	8.95	0.00	0.00	7.22
2/2/2023	28800	225400	1.96	1.70	8.84	0.00	0.00	7.14
2/3/2023	27200	209900	1.88	1.64	8.80	0.00	0.21	7.16
2/4/2023	23900	240900	2.11	1.84	9.22	0.20	0.08	7.38
2/5/2023	25200	272000	2.38	2.08	9.83	0.26	0.20	7.75
2/6/2023	32400	242900	2.18	1.90	9.50	0.27	0.06	7.60
2/7/2023	38600	241800	2.22	1.94	9.44	0.07	0.09	7.50
2/8/2023	29500	236600	2.14	1.88	9.29	0.18	0.00	7.41
2/9/2023	31500	241300	2.17	1.89	9.16	0.00	0.02	7.27
2/10/2023	31900	247500	2.22	1.94	9.23	0.19	0.01	7.29
2/11/2023	20100	222400	2.02	1.77	9.32	0.03	0.00	7.55
2/12/2023	22200	252500	2.15	1.88	9.42	0.03	0.00	7.54
2/13/2023	34300	241000	2.20	1.92	9.16	0.07	0.18	7.24
2/14/2023	31900	250500	2.36	2.08	9.57	0.46	0.06	7.49
2/15/2023	32200	239100	2.19	1.92	9.27	0.00	0.00	7.35
2/16/2023	33400	245900	2.23	1.95	9.18	0.00	0.00	7.23
2/17/2023	28500	221400	2.04	1.79	8.95	0.00	0.02	7.16
2/18/2023	25100	228500	2.13	1.87	9.13	0.05	0.02	7.26
2/19/2023	20200	235600	2.11	1.86	9.16	0.20	0.00	7.30
2/20/2023	21100	233800	2.11	1.86	9.35	0.10	0.02	7.49
2/21/2023	35500	253800	2.28	1.99	9.13	0.10	0.08	7.14
2/22/2023	33400	275200	2.54	2.24	10.06	0.54	0.64	7.82
2/23/2023	24700	271000	2.46	2.17	10.29	0.40	0.00	8.12
2/24/2023	26400	264600	2.37	2.08	9.83	0.00	0.00	7.75
2/25/2023	23400	253900	2.32	2.04	9.79	0.00	0.02	7.75
2/26/2023	32300	297300	2.78	2.45	10.62	0.46	0.25	8.17
2/27/2023	34000	275100	2.62	2.31	10.63	0.13	0.19	8.32
2/28/2023	39900	291600	2.69	2.36	10.58	0.25	0.20	8.22
Total	816800	6942400	62.84	55.08	265.70	3.99	2.35	210.62
Min	20100	209900	1.88	1.64	8.80	0.00	0.00	7.14
Max	39900	297300	2.78	2.45	10.63	0.54	0.64	8.32
Average	29171	247943	2.24	1.97	9.49	0.14	0.08	7.52

Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Hockinson GPD	Meadow Glade GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
3/1/2023	35700	256100	2.46	2.17	10.16	0.24	0.00	7.99
3/2/2023	37200	266500	2.47	2.16	9.95	0.04	0.18	7.79
3/3/2023	39300	266300	2.47	2.17	9.90	0.19	0.23	7.73
3/4/2023	35400	322200	2.94	2.58	11.24	0.50	0.42	8.66
3/5/2023	27700	272400	2.74	2.44	11.17	0.26	0.04	8.73
3/6/2023	38900	251300	2.60	2.31	10.47	0.20	0.11	8.16
3/7/2023	38800	260100	2.59	2.29	10.35	0.22	0.35	8.06
3/8/2023	35600	255900	2.60	2.31	10.50	0.20	0.03	8.19
3/9/2023	38800	253600	2.44	2.15	10.21	0.14	0.14	8.06
3/10/2023	41800	306700	2.76	2.41	10.34	0.16	0.07	7.93
3/11/2023	23100	235900	2.16	1.90	10.08	0.05	0.00	8.18
3/12/2023	25700	246400	2.23	1.96	9.94	0.07	0.25	7.98
3/13/2023	63800	349100	3.64	3.22	13.01	0.60	0.98	9.79
3/14/2023	45600	244700	2.95	2.66	12.69	0.82	0.00	10.03
3/15/2023	43200	220900	2.64	2.38	11.19	0.08	0.05	8.81
3/16/2023	36900	209500	2.47	2.22	10.55	0.00	0.01	8.33
3/17/2023	32100	191900	2.27	2.04	10.08	0.00	0.00	8.04
3/18/2023	21800	198300	2.25	2.03	9.96	0.00	0.00	7.93
3/19/2023	27000	213200	2.31	2.07	10.19	0.00	0.20	8.12
3/20/2023	37100	214700	2.37	2.12	10.14	0.25	0.17	8.02
3/21/2023	32900	198700	2.12	1.89	9.75	0.15	0.01	7.86
3/22/2023	35600	209800	2.17	1.93	9.46	0.00	0.00	7.53
3/23/2023	36100	209800	2.22	1.97	9.48	0.06	0.25	7.51
3/24/2023	44300	271600	2.77	2.45	9.83	0.44	0.12	7.38
3/25/2023	31200	258500	2.56	2.27	10.20	0.32	0.09	7.93
3/26/2023	23300	209200	2.08	1.85	10.41	0.15	0.20	8.56
3/27/2023	31900	268000	2.44	2.14	9.97	0.05	0.01	7.83
3/28/2023	28200	249100	2.21	1.93	9.75	0.11	0.18	7.82
3/29/2023	31000	245000	2.14	1.86	9.46	0.02	0.01	7.60
3/30/2023	28300	238300	2.15	1.88	9.34	0.02	0.01	7.46
3/31/2023	33900	249900	2.31	2.02	9.38	0.00	0.32	7.36
Total	1082200	7643600	76.51	67.78	319.15	5.34	4.43	251.37
Min	21800	191900	2.08	1.85	9.34	0.00	0.00	7.36
Max	63800	349100	3.64	3.22	13.01	0.82	0.98	10.03
Average	34910	246568	2.47	2.19	10.30	0.17	0.14	8.11

Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Hockinson GPD	Meadow Glade GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
4/1/2023	28900	296900	2.58	2.26	10.25	0.57	0.04	7.99
4/2/2023	29300	271500	2.57	2.26	10.44	0.33	0.19	8.18
4/3/2023	30700	273700	2.51	2.20	10.11	0.33	0.08	7.91
4/4/2023	33400	288600	2.51	2.18	10.00	0.18	0.09	7.82
4/5/2023	25200	250000	2.27	2.00	9.59	0.08	0.06	7.59
4/6/2023	43400	324800	2.91	2.54	10.59	0.22	0.62	8.05
4/7/2023	42600	318600	3.10	2.74	11.77	0.72	0.18	9.03
4/8/2023	28700	277400	2.76	2.46	11.18	0.23	0.06	8.72
4/9/2023	42800	329200	3.09	2.72	11.54	0.13	0.59	8.82
4/10/2023	75900	371500	4.25	3.81	14.13	0.84	0.68	10.32
4/11/2023	56000	300900	3.71	3.36	14.51	1.00	0.12	11.16
4/12/2023	50600	290800	3.47	3.12	13.71	0.24	0.12	10.59
4/13/2023	40000	237400	2.96	2.68	12.25	0.26	0.00	9.57
4/14/2023	40600	223400	2.74	2.48	11.29	0.02	0.00	8.81
4/15/2023	23000	196300	2.39	2.17	10.87	0.00	0.00	8.70
4/16/2023	25800	229400	2.64	2.39	11.22	0.00	0.24	8.83
4/17/2023	39500	232000	2.68	2.41	11.00	0.40	0.21	8.59
4/18/2023	39500	238600	2.64	2.36	10.77	0.27	0.21	8.41
4/19/2023	43100	236900	2.65	2.37	10.94	0.40	0.06	8.57
4/20/2023	51100	262700	2.98	2.67	11.31	0.06	0.58	8.64
4/21/2023	43200	248700	2.86	2.56	11.44	0.57	0.00	8.88
4/22/2023	29500	234200	2.69	2.42	10.98	0.02	0.26	8.56
4/23/2023	28900	249000	2.76	2.48	12.09	0.44	0.15	9.61
4/24/2023	36400	228000	2.58	2.31	11.06	0.01	0.01	8.75
4/25/2023	37900	208800	2.35	2.10	10.40	0.01	0.00	8.30
4/26/2023	33300	204600	2.27	2.03	10.10	0.00	0.00	8.07
4/27/2023	31600	204800	2.18	1.94	9.89	0.00	0.00	7.95
4/28/2023	31400	214600	2.11	1.87	9.70	0.00	0.00	7.83
4/29/2023	20500	217600	2.04	1.80	9.61	0.00	0.00	7.81
4/30/2023	19400	243000	2.07	1.80	9.86	0.00	0.00	8.06
Total	1102200	7703900	81.31	72.50	332.60	7.33	4.55	260.10
Min	19400	196300	2.04	1.80	9.59	0.00	0.00	7.59
Max	75900	371500	4.25	3.81	14.51	1.00	0.68	11.16
Average	36740	256797	2.71	2.42	11.09	0.24	0.15	8.67

Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Hockinson GPD	Meadow Glade GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
5/1/2023	31200	227500	1.96	1.71	9.49	0.00	0.00	7.78
5/2/2023	32600	226400	1.97	1.71	9.21	0.00	0.00	7.50
5/3/2023	26900	208300	1.82	1.58	9.12	0.00	0.00	7.54
5/4/2023	34600	230500	2.11	1.85	9.52	0.00	0.40	7.67
5/5/2023	31800	228200	2.04	1.78	9.34	0.52	0.02	7.56
5/6/2023	22200	230200	2.04	1.79	9.42	0.08	0.11	7.63
5/7/2023	17800	214000	1.89	1.66	9.62	0.05	0.00	7.96
5/8/2023	33900	228200	2.02	1.76	9.53	0.00	0.13	7.77
5/9/2023	36400	233600	2.01	1.74	9.37	0.58	0.02	7.63
5/10/2023	31000	207500	1.84	1.60	9.23	0.00	0.00	7.63
5/11/2023	29700	214600	1.88	1.64	9.08	0.00	0.00	7.44
5/12/2023	28400	209200	1.77	1.53	8.25	0.00	0.00	6.72
5/13/2023	17700	207700	1.77	1.54	8.90	0.00	0.00	7.36
5/14/2023	21000	217900	1.77	1.53	9.07	0.00	0.00	7.54
5/15/2023	34800	220100	2.04	1.78	9.21	0.00	0.01	7.43
5/16/2023	30400	220700	1.91	1.66	9.16	0.23	0.00	7.50
5/17/2023	28400	217700	1.63	1.39	8.73	0.00	0.00	7.34
5/18/2023	27600	202300	1.80	1.57	8.75	0.00	0.00	7.18
5/19/2023	27400	209800	1.79	1.55	8.67	0.00	0.00	7.12
5/20/2023	16600	207500	1.77	1.55	8.67	0.00	0.00	7.12
5/21/2023	17200	199700	1.69	1.48	9.04	0.00	0.00	7.56
5/22/2023	25700	215100	1.76	1.52	8.89	0.00	0.00	7.37
5/23/2023	30000	201800	1.69	1.46	8.71	0.00	0.00	7.25
5/24/2023	25400	203400	1.62	1.40	8.67	0.00	0.00	7.27
5/25/2023	26800	200800	1.71	1.49	8.70	0.00	0.00	7.21
5/26/2023	25400	186000	1.59	1.37	8.52	0.00	0.00	7.15
5/27/2023	16800	188000	1.56	1.36	8.36	0.00	0.00	7.00
5/28/2023	15100	181200	1.52	1.32	8.22	0.00	0.00	6.90
5/29/2023	15700	219300	1.75	1.52	8.91	0.00	0.00	7.39
5/30/2023	27200	201700	1.64	1.41	8.60	0.00	0.00	7.19
5/31/2023	25700	190300	1.59	1.37	8.50	0.00	0.00	7.13
Total	811400	6549200	55.98	48.62	277.46	1.46	0.69	228.84
Min	15100	181200	1.52	1.32	8.22	0.00	0.00	6.72
Max	36400	233600	2.11	1.85	9.62	0.58	0.40	7.96
Average	26174	211265	1.81	1.57	8.95	0.05	0.02	7.38

Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Hockinson GPD	Meadow Glade GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
6/1/2023	29100	196200	1.62	1.40	8.50	0.00	0.00	7.10
6/2/2023	26000	185800	1.53	1.32	8.30	0.00	0.00	7.18
6/3/2023	19000	192300	1.57	1.36	8.43	0.00	0.00	7.08
6/4/2023	15100	214800	1.62	1.39	8.71	0.00	0.00	6.92
6/5/2023	28900	198900	1.61	1.38	8.55	0.00	0.00	6.85
6/6/2023	25800	194200	1.57	1.35	8.36	0.00	0.00	6.89
6/7/2023	24800	196500	1.55	1.33	8.36	0.00	0.00	6.69
6/8/2023	27100	191500	1.61	1.39	8.41	0.00	0.00	7.16
6/9/2023	25900	189800	1.55	1.34	8.42	0.07	0.17	7.51
6/10/2023	16300	200200	1.58	1.37	8.43	0.12	0.00	7.07
6/11/2023	16900	203700	1.63	1.41	8.72	0.00	0.00	6.89
6/12/2023	27100	186900	1.61	1.39	8.57	0.00	0.00	7.18
6/13/2023	26100	183700	1.52	1.31	8.39	0.00	0.00	7.08
6/14/2023	25700	190500	1.53	1.31	8.23	0.00	0.00	6.92
6/15/2023	27000	188300	1.55	1.34	8.19	0.00	0.00	6.85
6/16/2023	26100	185600	1.51	1.30	8.19	0.00	0.00	6.89
6/17/2023	16000	219300	1.68	1.45	8.14	0.00	0.00	6.69
6/18/2023	14900	173900	1.44	1.25	8.41	0.00	0.30	7.16
6/19/2023	16200	195900	1.65	1.44	8.95	0.46	0.04	7.51
6/20/2023	22700	186700	1.57	1.36	8.43	0.18	0.00	7.07
6/21/2023	19800	187500	1.56	1.35	8.24	0.00	0.00	6.89
6/22/2023	17200	190600	1.60	1.39	8.20	0.00	0.00	6.81
6/23/2023	16800	178300	1.49	1.30	8.18	0.00	0.00	6.88
6/24/2023	15200	185200	1.51	1.31	8.17	0.00	0.00	6.86
6/25/2023	16500	190300	1.57	1.36	8.32	0.00	0.00	6.96
6/26/2023	18900	191700	1.57	1.36	8.28	0.00	0.00	6.92
6/27/2023	16400	185200	1.52	1.31	8.08	0.00	0.00	6.77
6/28/2023	16100	185600	1.50	1.29	8.03	0.00	0.00	6.74
6/29/2023	16800	191200	1.50	1.29	8.07	0.00	0.00	6.78
6/30/2023	18000	202900	1.58	1.36	8.18	0.00	0.00	6.82
Total	628400	5763200	46.91	40.52	250.44	0.83	0.51	209.10
Min	14900	173900	1.44	1.25	8.03	0.00	0.00	6.69
Max	29100	219300	1.68	1.45	8.95	0.46	0.30	7.51
Average	20947	192107	1.56	1.35	8.35	0.03	0.02	6.97

Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Hockinson GPD	Meadow Glade GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
7/1/2023	15100	206600	1.64	1.42	8.09	0.00	0.00	6.67
7/2/2023	11800	144900	1.26	1.11	8.06	0.00	0.00	6.95
7/3/2023	17500	220900	1.73	1.49	8.12	0.00	0.00	6.63
7/4/2023	12000	155300	1.25	1.09	8.07	0.00	0.00	6.98
7/5/2023	16500	204900	1.50	1.28	8.21	0.00	0.00	6.93
7/6/2023	18300	192400	1.55	1.34	8.28	0.00	0.00	6.94
7/7/2023	17800	180200	1.44	1.24	8.09	0.00	0.00	6.85
7/8/2023	15800	189500	1.48	1.27	8.07	0.00	0.00	6.80
7/9/2023	15300	183200	1.48	1.28	8.32	0.00	0.00	7.04
7/10/2023	17400	189000	1.51	1.31	8.17	0.00	0.00	6.86
7/11/2023	17100	188700	1.48	1.28	8.06	0.00	0.00	6.78
7/12/2023	19100	193800	1.50	1.28	8.05	0.00	0.00	6.77
7/13/2023	16300	192300	1.51	1.30	8.03	0.00	0.00	6.73
7/14/2023	16000	186400	1.46	1.26	8.02	0.00	0.00	6.76
7/15/2023	17700	190000	1.44	1.23	7.94	0.00	0.00	6.71
7/16/2023	17500	203500	1.53	1.31	8.19	0.00	0.00	6.88
7/17/2023	17900	189300	1.52	1.31	8.15	0.00	0.00	6.84
7/18/2023	17500	184100	1.44	1.24	7.99	0.00	0.00	6.75
7/19/2023	26200	185400	1.43	1.22	7.89	0.00	0.00	6.67
7/20/2023	27200	178100	1.47	1.26	7.96	0.00	0.00	6.70
7/21/2023	27300	181100	1.45	1.24	7.92	0.00	0.00	6.68
7/22/2023	25200	183500	1.43	1.23	7.93	0.00	0.00	6.71
7/23/2023	26700	187000	1.51	1.29	8.13	0.00	0.00	6.84
7/24/2023	28000	190300	1.50	1.28	8.22	0.00	0.00	6.94
7/25/2023	28600	190700	1.47	1.25	7.96	0.00	0.00	6.71
7/26/2023	22400	190500	1.43	1.21	7.96	0.00	0.00	6.75
7/27/2023	18900	183200	1.45	1.25	7.94	0.00	0.00	6.69
7/28/2023	19100	189000	1.14	0.93	7.90	0.00	0.00	6.97
7/29/2023	16000	186500	1.44	1.24	7.85	0.00	0.00	6.61
7/30/2023	16600	185200	1.45	1.25	8.05	0.00	0.00	6.80
7/31/2023	18300	208700	1.53	1.30	8.09	0.00	0.00	6.79
Total	597100	5834200	45.40	38.97	249.71	0.00	0.00	210.74
Min	11800	144900	1.14	0.93	7.85	0.00	0.00	6.61
Max	28600	220900	1.73	1.49	8.32	0.00	0.00	7.04
Average	19261	188200	1.46	1.26	8.06	0.00	0.00	6.80

Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Hockinson GPD	Meadow Glade GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
8/1/2023	18100	178000	1.40	1.20	7.93	0.00	0.00	6.73
8/2/2023	15600	183500	1.41	1.21	7.83	0.00	0.00	6.62
8/3/2023	15600	183600	1.46	1.26	7.95	0.00	0.00	6.69
8/4/2023	15900	189200	1.44	1.23	7.89	0.00	0.00	6.66
8/5/2023	15100	190700	1.41	1.21	7.88	0.00	0.00	6.67
8/6/2023	15100	179000	1.43	1.23	8.12	0.02	0.00	6.89
8/7/2023	16600	181200	1.47	1.28	8.15	0.00	0.00	6.88
8/8/2023	18900	185500	1.41	1.20	7.93	0.00	0.00	6.73
8/9/2023	17600	176000	1.41	1.22	7.86	0.00	0.00	6.64
8/10/2023	15000	171600	1.40	1.22	7.88	0.00	0.00	6.66
8/11/2023	18300	205500	1.51	1.29	7.87	0.00	0.00	6.58
8/12/2023	18000	176100	1.37	1.18	7.89	0.00	0.00	6.71
8/13/2023	13400	169700	1.33	1.14	7.99	0.00	0.00	6.85
8/14/2023	15700	200000	1.46	1.24	7.91	0.00	0.00	6.67
8/15/2023	17700	207600	1.41	1.19	7.87	0.00	0.00	6.68
8/16/2023	16000	185100	1.39	1.19	7.80	0.00	0.00	6.61
8/17/2023	17400	192700	1.46	1.25	7.92	0.00	0.00	6.67
8/18/2023	16600	185300	1.44	1.23	7.81	0.00	0.00	6.58
8/19/2023	15100	183800	1.40	1.20	7.75	0.00	0.00	6.55
8/20/2023	14200	178900	1.43	1.23	8.01	0.00	0.00	6.78
8/21/2023	20000	184900	1.47	1.26	8.03	0.00	0.00	6.77
8/22/2023	18300	182000	1.39	1.19	7.88	0.00	0.00	6.69
8/23/2023	17600	186600	1.40	1.19	7.84	0.00	0.00	6.65
8/24/2023	21500	192600	1.48	1.26	7.83	0.00	0.00	6.57
8/25/2023	16300	182600	1.40	1.21	7.86	0.00	0.09	6.65
8/26/2023	15200	190200	1.40	1.20	7.90	0.00	0.00	6.70
8/27/2023	16300	201200	1.47	1.26	8.10	0.00	0.00	6.84
8/28/2023	18600	188000	1.43	1.22	8.07	0.00	0.00	6.85
8/29/2023	20000	194400	1.42	1.21	8.14	0.00	0.13	6.93
8/30/2023	23700	193500	1.46	1.25	7.99	0.05	0.01	6.74
8/31/2023	28400	198800	1.56	1.33	8.46	0.06	0.45	7.13
Total	541800	5797800	44.32	37.98	246.34	0.13	0.68	208.36
Min	13400	169700	1.33	1.14	7.75	0.00	0.00	6.55
Max	28400	207600	1.56	1.33	8.46	0.06	0.45	7.13
Average	17477	187026	1.43	1.23	7.95	0.00	0.02	6.72

Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Hockinson GPD	Meadow Glade GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
9/1/2023	27000	185300	1.42	1.21	8.10	0.40	0.00	6.89
9/2/2023	16800	184300	1.41	1.21	7.99	0.00	0.00	6.78
9/3/2023	14300	170200	1.36	1.18	7.78	0.00	0.14	6.60
9/4/2023	16400	212900	1.61	1.38	8.50	0.04	0.00	7.12
9/5/2023	27900	188000	1.46	1.24	8.12	0.00	0.00	6.88
9/6/2023	27300	191900	1.46	1.24	7.99	0.00	0.00	6.75
9/7/2023	26800	194100	1.49	1.27	7.92	0.00	0.00	6.65
9/8/2023	31500	218300	1.61	1.36	7.81	0.00	0.00	6.45
9/9/2023	13900	133200	1.16	1.01	7.87	0.00	0.00	6.86
9/10/2023	16400	205300	1.54	1.32	8.26	0.00	0.00	6.94
9/11/2023	27900	179300	1.43	1.22	8.04	0.00	0.00	6.82
9/12/2023	29600	176600	1.41	1.20	7.90	0.00	0.00	6.70
9/13/2023	26900	196600	1.43	1.21	7.84	0.00	0.00	6.63
9/14/2023	28600	189500	1.45	1.23	7.90	0.00	0.00	6.67
9/15/2023	29700	181200	1.38	1.17	7.73	0.00	0.00	6.56
9/16/2023	14600	188000	1.41	1.21	7.85	0.00	0.00	6.64
9/17/2023	14200	199000	1.45	1.24	8.20	0.00	0.00	6.96
9/18/2023	28100	202200	1.48	1.25	8.00	0.00	0.01	6.75
9/19/2023	26400	192200	1.42	1.20	7.84	0.00	0.00	6.64
9/20/2023	26400	198600	1.40	1.17	7.77	0.00	0.00	6.60
9/21/2023	28400	190700	1.43	1.21	7.75	0.00	0.00	6.54
9/22/2023	28300	174000	1.37	1.17	7.80	0.00	0.00	6.63
9/23/2023	14200	177900	1.40	1.21	7.83	0.00	0.03	6.62
9/24/2023	15800	197200	1.52	1.31	8.24	0.02	0.33	6.93
9/25/2023	31500	205300	1.67	1.43	8.65	0.40	0.57	7.22
9/26/2023	28600	185800	1.54	1.32	8.39	0.43	0.08	7.07
9/27/2023	26600	194800	1.58	1.35	8.43	0.40	0.23	7.08
9/28/2023	28900	195500	1.67	1.44	8.42	0.46	0.33	6.98
9/29/2023	30100	176100	1.47	1.26	8.08	0.03	0.00	6.82
9/30/2023	21800	183800	1.54	1.33	8.17	0.02	0.00	6.84
Total	724900	5667800	43.96	37.57	241.17	2.20	1.72	203.60
Min	13900	133200	1.16	1.01	7.73	0.00	0.00	6.45
Max	31500	218300	1.67	1.44	8.65	0.46	0.57	7.22
Average	24163	188927	1.47	1.25	8.04	0.07	0.06	6.79

Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Hockinson GPD	Meadow Glade GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
10/1/2023	18200	199000	1.60	1.39	8.37	0.00	0.00	6.98
10/2/2023	29100	202100	1.73	1.50	8.39	0.00	0.26	6.89
10/3/2023	31100	183100	1.63	1.42	8.30	0.67	0.02	6.88
10/4/2023	25400	191400	1.56	1.34	8.07	0.00	0.00	6.73
10/5/2023	29900	192000	1.60	1.38	8.01	0.00	0.00	6.63
10/6/2023	27300	191600	1.57	1.35	7.89	0.00	0.00	6.54
10/7/2023	17200	177800	1.48	1.29	7.94	0.00	0.00	6.65
10/8/2023	17400	178000	1.52	1.32	8.22	0.00	0.00	6.90
10/9/2023	26400	205400	1.58	1.35	8.12	0.00	0.08	6.77
10/10/2023	34900	206000	1.78	1.54	8.48	0.26	0.40	6.94
10/11/2023	32300	195700	1.88	1.65	8.90	0.83	0.18	7.25
10/12/2023	26300	173600	1.68	1.48	8.37	0.35	0.00	6.89
10/13/2023	19300	182800	1.61	1.41	8.24	0.00	0.16	6.83
10/14/2023	14100	184800	1.61	1.41	8.27	0.12	0.05	6.86
10/15/2023	14900	196300	1.69	1.47	8.52	0.06	0.00	7.05
10/16/2023	38500	203600	2.26	2.02	9.53	0.00	0.00	7.51
10/17/2023	29100	195400	1.83	1.61	8.89	1.46	0.00	7.28
10/18/2023	29500	192200	1.73	1.51	8.42	0.00	0.03	6.91
10/19/2023	29900	181700	1.74	1.53	8.25	0.00	0.03	6.72
10/20/2023	27100	183200	1.63	1.42	8.14	0.00	0.01	6.72
10/21/2023	17400	182500	1.58	1.38	8.17	0.02	0.03	6.79
10/22/2023	23200	194100	1.67	1.45	8.47	0.04	0.01	7.02
10/23/2023	25900	191500	1.60	1.38	8.25	0.03	0.00	6.87
10/24/2023	32400	191800	1.87	1.64	8.46	0.00	0.58	6.82
10/25/2023	33900	190100	2.23	2.01	9.56	0.86	0.27	7.55
10/26/2023	29100	189400	1.99	1.77	8.98	0.48	0.01	7.21
10/27/2023	27200	174600	1.75	1.55	8.53	0.01	0.01	6.98
10/28/2023	16400	185700	1.76	1.55	8.57	0.01	0.00	7.02
10/29/2023	19000	204200	1.80	1.57	8.70	0.00	0.00	7.13
10/30/2023	24300	193700	1.73	1.52	8.46	0.00	0.00	6.94
10/31/2023	26500	188600	1.65	1.44	8.03	0.00	0.01	6.59
Total	793200	5901900	53.32	46.62	261.50	5.20	2.14	214.88
Min	14100	173600	1.48	1.29	7.89	0.00	0.00	6.54
Max	38500	206000	2.26	2.02	9.56	1.46	0.58	7.55
Average	25587	190384	1.72	1.50	8.44	0.17	0.07	6.93

Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Hockinson GPD	Meadow Glade GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
11/1/2023	33000	186100	2.01	1.79	8.45	0.00	0.71	6.66
11/2/2023	32600	190000	2.18	1.96	9.28	1.03	0.11	7.32
11/3/2023	37000	203000	2.34	2.10	8.64	0.06	0.60	6.54
11/4/2023	40100	197000	2.87	2.64	11.39	1.20	0.50	8.75
11/5/2023	39300	221000	3.19	2.93	10.32	0.30	0.77	7.39
11/6/2023	60000	230500	3.55	3.26	13.10	1.55	0.70	9.84
11/7/2023	43900	200200	2.91	2.67	11.39	0.55	0.25	8.72
11/8/2023	37600	211600	2.53	2.28	9.86	0.06	0.02	7.58
11/9/2023	36400	204600	2.49	2.25	9.33	0.01	0.18	7.08
11/10/2023	23800	186800	2.16	1.95	9.10	0.27	0.00	7.15
11/11/2023	28200	214100	2.62	2.38	9.56	0.06	0.30	7.18
11/12/2023	27800	217900	2.56	2.31	9.75	0.43	0.11	7.44
11/13/2023	33000	209900	2.38	2.14	9.56	0.27	0.03	7.42
11/14/2023	34100	210100	2.26	2.02	8.94	0.02	0.00	6.92
11/15/2023	31400	207900	2.16	1.92	8.78	0.06	0.04	6.86
11/16/2023	36200	199900	2.06	1.82	8.70	0.03	0.01	6.88
11/17/2023	31400	192000	1.97	1.75	8.51	0.00	0.00	6.76
11/18/2023	31100	199500	2.15	1.92	8.85	0.00	0.25	6.93
11/19/2023	26800	216200	2.26	2.01	9.33	0.42	0.06	7.32
11/20/2023	33900	206200	2.12	1.88	8.79	0.05	0.01	6.91
11/21/2023	36500	201000	2.21	1.97	8.58	0.01	0.19	6.61
11/22/2023	27000	209400	2.05	1.81	9.36	0.32	0.06	7.55
11/23/2023	26100	234200	2.13	1.87	9.24	0.01	0.00	7.37
11/24/2023	21400	216100	1.92	1.68	8.42	0.00	0.00	6.74
11/25/2023	22100	220200	1.97	1.73	8.52	0.00	0.00	6.79
11/26/2023	21800	221400	2.00	1.75	8.75	0.00	0.00	7.00
11/27/2023	31200	187300	1.89	1.67	8.54	0.00	0.00	6.87
11/28/2023	31400	173300	1.78	1.58	8.27	0.00	0.00	6.69
11/29/2023	29000	203800	1.78	1.54	8.18	0.00	0.01	6.64
11/30/2023	32600	211500	2.00	1.75	8.37	0.00	0.25	6.62
Total	976700	6182700	68.50	61.34	277.86	6.71	5.16	216.52
Min	21400	173300	1.78	1.54	8.18	0.00	0.00	6.54
Max	60000	234200	3.55	3.26	13.10	1.55	0.77	9.84
Average	32557	206090	2.28	2.04	9.26	0.22	0.17	7.22

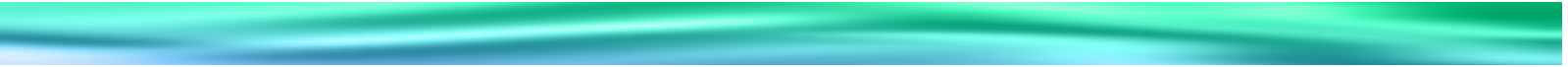
Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Hockinson GPD	Meadow Glade GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
12/1/2023	59800	253500	3.00	2.69	9.31	0.66	0.48	6.62
12/2/2023	48100	232800	3.11	2.83	11.06	1.26	0.59	8.23
12/3/2023	65200	335400	4.26	3.86	12.20	0.68	0.56	8.34
12/4/2023	49800	215600	2.82	2.56	11.26	0.31	0.17	8.70
12/5/2023	125900	484200	6.01	5.40	13.40	1.09	1.44	8.00
12/6/2023	114000	389800	4.87	4.36	16.97	2.59	1.00	12.61
12/7/2023	72600	287300	3.97	3.61	14.12	0.52	0.26	10.51
12/8/2023	52200	224100	3.16	2.88	13.08	0.22	0.02	10.20
12/9/2023	60600	305400	3.93	3.57	12.93	0.00	0.58	9.36
12/10/2023	89900	414800	5.50	5.00	16.06	1.72	0.66	11.06
12/11/2023	61100	271800	3.68	3.34	13.89	0.59	0.00	10.55
12/12/2023	46200	222500	3.10	2.84	12.37	0.03	0.01	9.53
12/13/2023	42500	216600	2.87	2.61	10.69	0.00	0.01	8.08
12/14/2023	42200	194000	2.61	2.37	10.19	0.04	0.08	7.82
12/15/2023	37300	188500	2.30	2.07	9.81	0.06	0.01	7.74
12/16/2023	27500	204300	2.40	2.17	9.77	0.00	0.00	7.60
12/17/2023	29800	205800	2.31	2.08	9.73	0.00	0.00	7.65
12/18/2023	27100	211400	2.27	2.04	9.37	0.02	0.02	7.33
12/19/2023	34600	230000	2.41	2.15	10.70	0.31	0.58	8.55
12/20/2023	27100	232700	2.29	2.03	9.62	0.16	0.01	7.59
12/21/2023	29000	229100	2.20	1.94	9.49	0.02	0.00	7.55
12/22/2023	33200	282300	2.49	2.18	9.97	0.04	0.28	7.79
12/23/2023	27900	259100	2.31	2.02	9.99	0.37	0.01	7.97
12/24/2023	28200	268500	2.23	1.93	9.82	0.00	0.01	7.89
12/25/2023	35900	296500	2.47	2.13	9.75	0.10	0.58	7.62
12/26/2023	32200	316800	2.73	2.38	10.84	0.51	0.00	8.46
12/27/2023	34100	285300	2.56	2.25	10.25	0.00	0.26	8.00
12/28/2023	23100	278700	2.47	2.16	10.32	0.32	0.04	8.16
12/29/2023	38600	273900	2.42	2.11	9.99	0.00	0.10	7.88
12/30/2023	29300	260600	2.38	2.09	9.91	0.11	0.04	7.82
12/31/2023	26300	256100	2.27	1.98	9.80	0.03	0.00	7.82
Total	1451300	8327400	93.41	83.63	346.66	11.76	7.80	263.03
Min	23100	188500	2.20	1.93	9.31	0.00	0.00	6.62
Max	125900	484200	6.01	5.40	16.97	2.59	1.44	12.61
Average	46816	268626	3.01	2.70	11.18	0.38	0.25	8.48



APPENDIX D

ERU AND SEWER LINE DATA



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

Year: Jan 2023 - Dec 2023

Month	New Residential	Total Residential	Multi Family/ Guesthomes (*.8)	Total Res/ Multi-Family	New Commercial	Total Commercial	Grand Total ERU's	Line Construction		Total Line Construction	Total Miles
								Developer	District		
Balance Forward	ERU's	28235.8		7402.0		4511.5	40149.3			2374979	449.8
Jan	34.0	28269.8	0.0	7402.0	78.3 ♦	4589.8	40261.6	5700	0	2380679	450.9
Feb	42.0	28311.8	10.0 ♦	7412.0	38.5 ♦	4628.3	40352.1	13931	0	2394610	453.5
Mar	60.0	28371.8	0.6 ♦	7412.6	1.0 ♦	4629.3	40413.7	4570	0	2399180	454.4
Apr	33.0	28404.8	0.0	7412.6	0.0	4629.3	40446.7	677	0	2399857	454.5
May	72.0	28476.8	0.0	7412.6	0.0	4629.3	40518.7	7781	0	2407638	456.0
Jun	68.0	28544.8	0.0	7412.6	1.2 ♦	4630.5	40587.9	6976	0	2414614	457.3
Jul	64.0	28608.8	38.4 ♦	7451.0	1.3 ♦	4631.8	40691.6	0	0	2414614	457.3
Aug	81.0	28689.8	120.0 ♦	7571.0	3.6 ♦	4635.4	40896.2	5875	0	2420489	458.4
Sep	67.0	28756.8	1.0 ♦	7572.0	17.9 ♦	4653.3	40982.1	6254	0	2426743	459.6
Oct	37.0	28793.8	0.0	7572.0	0.0	4653.3	41019.1	0	7344	2434087	461.0
Nov	82.0	28875.8	101.4 ♦	7673.4	4.5 ♦	4657.8	41207.0	11171	0	2445258	463.1
Dec	114.0	28989.8	13.0 ♦	7686.4	64.3 ♦	4722.1	41398.3	2239	0	2447497	463.5
Subtotals	754.0		284.4		210.6			65174	7344		
Total ERU's		28989.8		7686.4		4722.1	41398.3			2447497	463.5

♦ See reverse for explanation

**Year to Date
ERU'S**

SCTP - All	
Res	860.0
Multi-Family	287.0 (Actual)
Comm	222.3
Total	1,369.3

VTP

Res	26.0
Multi-Family	16.4 (Actual)
Comm	-
Total	42.4

RTP

Res	139.0
Multi-Family	- (Actual)
Comm	-
Total	139.0

Permits

SCTP	895
RTP	139
VTP	28
Total	1062

	January		SCTP	Nielsen Industrial Lot 3		SCTP	Manor Industrial Park			December		
SCTP	Nielsen Industrial Lot 2			11413 NE 126th St			10312 NE 72nd Ave		SCTP	Lalonde Park Ph 2 Cottages		
	11419 NE 126th St		◆	Shell Building	<u>1.0</u>		◆	Shell Buildings	<u>2.0</u>	◆	9914 NE 46th Ct	<u>13.0</u>
	◆ NW Bronco Fab	0.3			1.6				3.6			13.0
				June								
SCTP	Salmon Creek Assisted Living		SCTP	Existing Commercial			September		SCTP	Skyview Station		
	2723 NE 134th St			11026 NE St Johns Rd		SCTP	Lalonde Park Ph 2 Cottages			14019 NE 10th Ave		
◆	Assisted Living Building	<u>78.0</u>	◆	Folden Constr. Office & RV	<u>1.2</u>		9914 NE 46th Ct		◆	IQ Credit Union	1.0	
		78.3			1.2		◆	Existing home Unit 10	<u>1.0</u>	14003 NE 10th Ave		
								1.0		◆	Chipotle Mexican Grill	2.8
	February			July						14011 NE 10th Ave		
SCTP	Salmon Creek Assisted Living		SCTP	25th Ave Site Plan (Apartments)		SCTP	25th Ave Elementary School		◆	Chase Bank	1.0	
	2714 NE 134th St			9615 NE 25th Ave			◆	8408 NE 25th Ave	14.2			
◆	Duplex Cottage 1	2.0	◆	Building 1	19.2							
	2717 NE 134th St		◆	Building 2	<u>19.2</u>	SCTP	Bowyers Marketplace		SCTP	Dickys RV Resort		
◆	Duplex Cottage 2	2.0			38.4		11516 NE 119th St		◆	1312 NE 173rd St	44.5	
	2715 NE 134th St						◆	Dairy Queen	<u>3.7</u>			
◆	Triplex Cottage 1	3.0	SCTP	Nielsen Industrial Lot 2				17.9		SCTP	Salmon Creek Memory Care	
	2719 NE 134th St		◆	11419 NE 126th St		SCTP	November		◆	14715 NE 20th Ave	<u>15.0</u>	
◆	Triplex Cottage 2	<u>3.0</u>		◆ Excel Auto Detailing	1.2		Wingate Square Apartments				64.3	
		10.0					◆	9700 NE 76th St				
			SCTP	72nd Ave NE Self Storage		SCTP	Building D	5.4				
SCTP	Salmon Creek Assisted Living		◆	11503 NE 74th Ave	<u>0.1</u>		116th Way Apartments					
	2735 NE 134th St				1.3		12616 NE 116th Way					
◆	Assisted Living Building	35.5		August			◆	Buildings 1 - 5	<u>96.0</u>			
	2713 NE 134th St		SCTP	Aria Site Plan (Apartments)				101.4				
◆	Pool House	1.0	◆	10413 NE 121st Ave	<u>120.0</u>	SCTP	116th Way Apartments					
					120.0		12616 NE 116th Way					
SCTP	Sunlight						◆	Office	1.0			
	7524 NE 88th St		SCTP	Aria Site Plan (Apartments)		SCTP	PacTrust Industrial					
◆	Building A	1.0		10413 NE 121st Ave			4207 NE 78th St					
	7528 NE 88th St		◆	Office	1.0		◆	Motion Industrial	2.9			
◆	Building B	<u>1.0</u>				SCTP	PacTrust Industrial					
		38.5	SCTP	Legacy Health MOB 2			4211 NE 78th St					
	March			2101 NE 139th St Ste 350			◆	Polaris	<u>0.6</u>			
SCTP	Existing Home New ADU		◆	Evergreen Pediatrics	0.6			4.5				
	◆ 13003 NW 50th Ave	0.6										

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

Year: Jan 2023 - Dec 2023

Month	New Residential	Total Residential	Multi Family/ Guesthomes (*.8)	Total Res/ Multi-Family	New Commercial	Total Commercial	Grand Total ERU's	Line Construction		Total Line Construction	Total Miles
								Developer	District		
Balance Forward	ERU's	758.0		4.6		185.4	948.0			30855	5.8
Jan	0.0	758.0	0.6 ♦	5.2	0.0	185.4	948.6	0	0	30855	5.8
Feb	0.0	758.0	0.0	5.2	0.0	185.4	948.6	0	0	30855	5.8
Mar	0.0	758.0	0.0	5.2	0.0	185.4	948.6	0	0	30855	5.8
Apr	0.0	758.0	0.0	5.2	0.0	185.4	948.6	0	0	30855	5.8
May	0.0	758.0	0.0	5.2	0.0	185.4	948.6	0	0	30855	5.8
Jun	0.0	758.0	0.0	5.2	0.0	185.4	948.6	0	0	30855	5.8
Jul	1.0	759.0	0.0	5.2	0.0	185.4	949.6	0	0	30855	5.8
Aug	2.0	761.0	0.0	5.2	0.0	185.4	951.6	0	0	30855	5.8
Sep	0.0	761.0	0.0	5.2	0.0	185.4	951.6	0	0	30855	5.8
Oct	0.0	761.0	0.0	5.2	0.0	185.4	951.6	0	0	30855	5.8
Nov	0.0	761.0	0.0	5.2	0.0	185.4	951.6	0	0	30855	5.8
Dec	0.0	761.0	0.0	5.2	0.0	185.4	951.6	0	0	30855	5.8
Subtotals	3.0		0.6		0.0			0	0		
Total ERU's		761.0		5.2		185.4	951.6			30855	5.8

♦ See reverse for explanation

January

SCTP MG

Existing Home New ADU

◆ 19705 NE 101st Ave

<u>0.6</u>
0.6

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

Year: Jan 2023 - Dec 2023

Month	New Residential	Total Residential	Multi Family/ Guesthomes (*.8)	Total Res/ Multi-Family	New Commercial	Total Commercial	Grand Total ERU's	Line Construction		Total Line Construction	Total Miles
	ERU's							Developer	District		
Balance Forward		76.0		0.0		139.1	215.1			7061	1.3
Jan	0.0	76.0	0.0	0.0	0.0	139.1	215.1	0	0	7061	1.3
Feb	0.0	76.0	0.0	0.0	0.0	139.1	215.1	0	0	7061	1.3
Mar	1.0	77.0	0.0	0.0	0.0	139.1	216.1	0	0	7061	1.3
Apr	0.0	77.0	0.0	0.0	0.0	139.1	216.1	0	0	7061	1.3
May	0.0	77.0	0.0	0.0	0.0	139.1	216.1	0	0	7061	1.3
Jun	0.0	77.0	0.0	0.0	0.0	139.1	216.1	0	0	7061	1.3
Jul	0.0	77.0	0.0	0.0	0.0	139.1	216.1	0	0	7061	1.3
Aug	0.0	77.0	0.0	0.0	0.0	139.1	216.1	0	0	7061	1.3
Sep	0.0	77.0	0.0	0.0	0.0	139.1	216.1	0	0	7061	1.3
Oct	0.0	77.0	0.0	0.0	0.0	139.1	216.1	0	0	7061	1.3
Nov	0.0	77.0	0.0	0.0	0.0	139.1	216.1	0	0	7061	1.3
Dec	0.0	77.0	0.0	0.0	0.0	139.1	216.1	0	0	7061	1.3
Subtotals	1.0		0.0		0.0			0	0		
Total ERU's		77.0		0.0		139.1	216.1			7061	1.3

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

Year: Jan 2023 - Dec 2023

Month	New Residential	Total Residential	Multi Family/ Guesthomes (*.8)	Total Res/ Multi-Family	New Commercial	Total Commercial	Grand Total ERU's	Line Construction Developer	District	Total Line Construction	Total Miles
Balance Forward	ERU's	3292.0		396.0		340.6	4053.6			342013.0	64.8
Jan	0.0	3292.0	0.0	396.0	0.0	339.3	4027.3	0.0	0.0	341953.0	64.8
Feb	6.0	3298.0	0.0	396.0	0.0	339.3	4033.3	0.0	0.0	341953.0	64.8
Mar	15.0	3313.0	0.0	396.0	0.3 ♦	339.6	4048.6	60.0	0.0	342013.0	64.8
Apr	4.0	3317.0	0.0	396.0	1.0 ♦	340.6	4053.6	0.0	0.0	342013.0	64.8
May	15.0	3332.0	0.0	396.0	0.0	340.6	4068.6	0.0	0.0	342013.0	64.8
Jun	10.0	3342.0	0.0	396.0	0.0	340.6	4078.6	0.0	0.0	342013.0	64.8
Jul	19.0	3361.0	0.0	396.0	1.6 ♦	342.2	4099.2	0.0	0.0	342013.0	64.8
Aug	7.0	3368.0	0.0	396.0	1.0 ♦	343.2	4107.2	0.0	0.0	342013.0	64.8
Sep	11.0	3379.0	0.0	396.0	0.0	343.2	4118.2	0.0	0.0	342013.0	64.8
Oct	6.0	3385.0	0.0	396.0	6.8 ♦	350.0	4131.0	0.0	0.0	342013.0	64.8
Nov	6.0	3391.0	2.0 ♦	398.0	0.0	350.0	4139.0	0.0	0.0	342013.0	64.8
Dec	3.0	3394.0	0.0	398.0	1.0	351.0	4143.0	0.0	0.0	342013.0	64.8
Subtotals	102.0		2.0		11.7			60.0	0.0		
Total ERU's		3394.0		398.0		351.0	4143.0			342013	64.8

♦ See next page for explanation

March

SCTP R	Energy Electric	
	27150 NE 10th Ave	
♦	Lot 3 Warehouse	0.3
		<u>0.3</u>

April

SCTP R	Haarup Industrial	
	7215 S 5th St	
♦	Shell Building	1.0
		<u>1.0</u>

July

SCTP R	Ridgefield Crossing Ph 1	
	228 S 65th Ave	
♦	Tractor Supply	1.6
		<u>1.6</u>

August

SCTP R	Ridgefield Crossing Lot 2	
	110 S 65th Ave	
♦	Shell Building	1.0
		<u>1.0</u>

October

SCTP R	Pioneer Village	
	4327 S Settler Dr	
♦	Playmakers	5.8
SCTP R	Pioneer Village	
	4332 S Settler Dr	
♦	Shell Building 11	1.0
		<u>1.0</u>
		6.8

November

SCTP R	New Duplex	
♦	4200 S Kennedy Dr	2.0
		<u>2.0</u>

December

SCTP R	Discovery Ridge Ph 2	
	4801 S 3rd Way	
♦	Les Schwab Tire Center	1.0
		<u>1.0</u>