



Wastewater Master Plan

DRAFT REPORT REVIEW



February 21, 2023



Agenda

1

Overview
of WWMP
Analysis

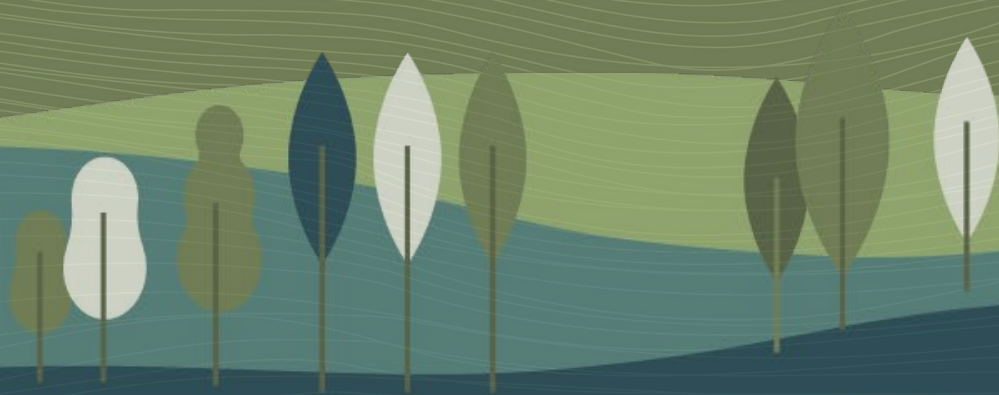
2

Proposed
Adoption
Timeline

3

Discuss Board
Comments &
Questions

Overview of WWMP Analysis



OLWS Core Commitments

OLWS and WSC have evaluated the Wastewater System with the goal of meeting the core commitments.


- Provide Excellent Customer Service
- Make Smart Investments to Keep Rates Affordable
- Keep Local Streams and Rivers Clean



Regulations and Policies

- New NPDES Permit Limits for CBOD & TSS
- Forecasting of future regulations
 - PFAS in biosolids
 - Coliphage
 - Nutrients
- IGA Modifications with Gladstone

Expiration Date: March 31, 2027
EPA Ref. Number: OR0026140
Permit Number: 100466
File Number: 62305
Page 1 of 51 Pages



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
WASTE DISCHARGE PERMIT
Oregon Department of Environmental Quality
Northwest Region - Portland Office
700 NE Multnomah St., Suite 600
Portland, OR 97232
Telephone: 503-229-5263

Issued pursuant to ORS 468D.050 and the federal Clean Water Act

| | | | |
|--|--|-----------------------|---|
| ISSUED TO: | SOURCES COVERED BY THIS PERMIT: | | |
| Oak Lodge Water Services District 14611 SE River Rd. Oak Grove, OR 97267 | Type of Waste | Outfall Number | Outfall Location |
| | Treated Wastewater | 001 001A | 45.4244/-122.6546 45.4244/-122.6540 |
| | Recycled Water Reuse | 006 | Specified in Recycled Water Use Plan (when prepared) |
| | Biosolids | N/A | Specified in Biosolids Management/Land Application Plan |

| | |
|---|---|
| FACILITY LOCATION: | RECEIVING STREAM INFORMATION: |
| Oak Lodge Water Services District Water Reclamation Facility 13750 SE Renton Avenue Oak Grove, OR 97222 County: Clackamas | WRD Basin: Willamette |
| EPA Permit Type: Major | USGS Sub-Basin: Lower Willamette Receiving Stream name: Willamette NHD Reach Code: 17090012006672-79% LLID: 1227618456580-20.D |

Issued in response to Application No. 971683 received June 1, 2009. This permit is issued based on the land use findings in the permit record.

| | | |
|---|--------------------------------|-------------------------------|
| Tiffany Yehon-Brain Deputy Regional Director 503-229-5263 507-13-4700 | April 7, 2022 Issuance Date | May 1, 2022 Effective Date |
|---|--------------------------------|-------------------------------|

PERMITTED ACTIVITIES

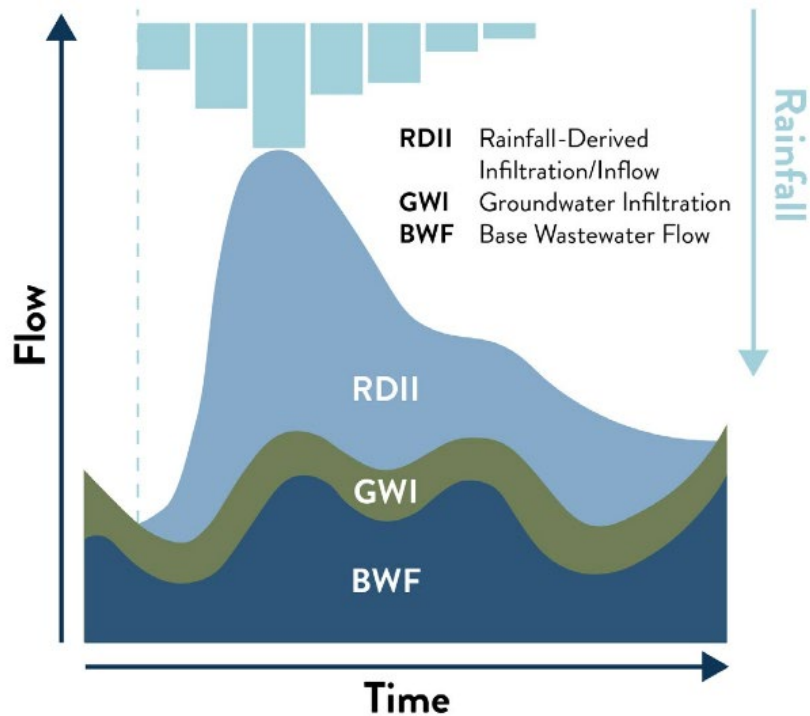
Until this permit expires or is modified or revoked, the permittee is authorized to: 1) operate a wastewater collection, treatment, control and disposal system; and 2) discharge treated wastewater to waters of the state only from the authorized discharge point or points in Schedule A in conformance with the requirements, limits, and conditions set forth in this permit.

Unless specifically authorized by this permit, by another NPDES or Water Pollution Control Facility permit, or by Oregon statute or administrative rule, any other direct or indirect discharge of pollutants to waters of the state is prohibited.

Revision 1.2001 Version 2.3

Wastewater Flows and Loads

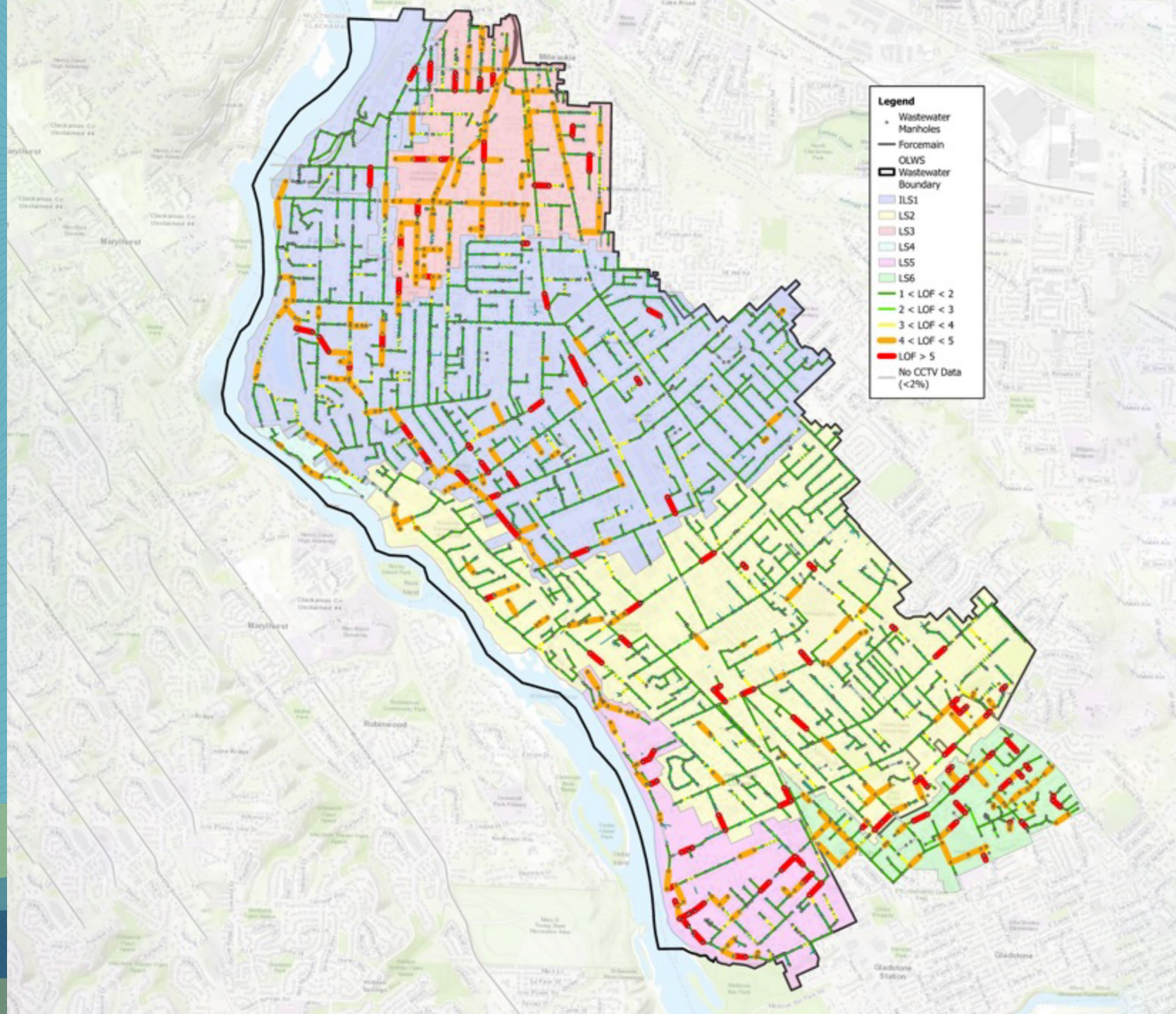
Average Annual
.77%
Growth Rate



| | Equivalent Dwelling Units (EDU) | Base Wastewater Flow (gpd) | Peak Wet Weather Collection System (gpd) | Peak Wet Weather Flow WWTP (gpd) |
|---------------|------------------------------------|-------------------------------|---|-------------------------------------|
| 2022-Existing | 14,151 | 1,853,899 | 17,504,994 | 19,059,887 |
| 2052-Buildout | 16,726 | 2,191,112 | 17,956,410 | 19,522,181 |

CONDITION FINDINGS

Orange/Red pipe
should be replaced
over the next 10
years



RDII Reduction Program Elements



Tertiary Disk Filters

**Secondary treatment
upgrades: capacity & future
regulatory compliance**

**Miscellaneous
maintenance to aging
equipment**

**New solids handling
building & digester
replacements**

WWTP Recommendations

CAPITAL IMPROVEMENT PROGRAM

Prioritization and flexibility is key for CIP planning

\$160M

**in capital projects
and engineering
planning over next
30 years**

\$88M

**In collections
system projects to
address capacity
and condition**

\$70M

**in treatment
system projects to
address aging
equipment,
capacity, and new
regulations**

**Each project
assigned a
prioritization score
to aid in annual
budgeting
decisions**

**Budgets include
allocations for
OLWS staffing and
contingency**

OVERVIEW

The plan is a flexible roadmap designed for efficient annual updates



MASTER PLAN
5-YEAR
UPDATE CYCLE



✓ Annual adjustments will align proposed projects with available budget

✓ 5-year updates will keep the plan relevant and the update process efficient

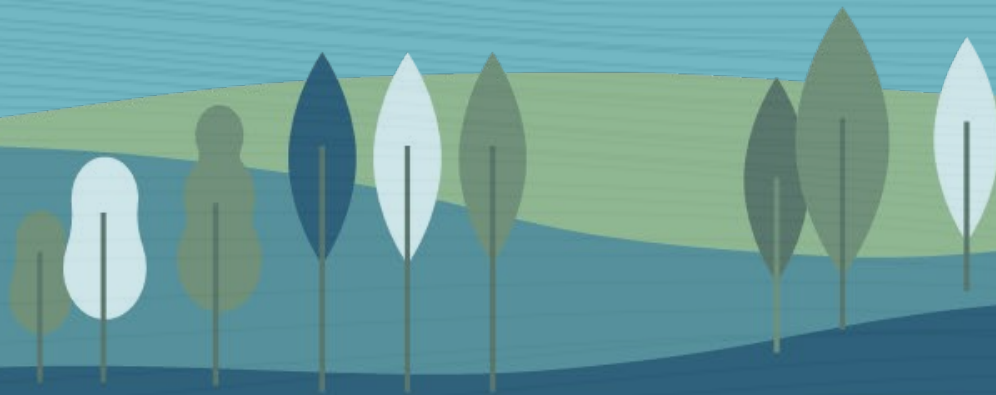
Acknowledgments



Sarah Jo Chaplen
Brad Albert
David Hawkins
Jeff Page
Chad Martinez
Haakan Ogbeide
Gail Stevens
Elaine Murray
Wastewater Collections Maintenance
Wastewater Treatment Operators



Proposed Adoption Timeline



Upcoming Board Meeting Schedule

February 21st

Receive comments and feedback from Board and incorporate into Final WWMP

March 21st

Adopt Final WWMP

Late Spring

Present SDC Analysis

Mid-Summer

SDC Public Hearing

Early Fall

Adopt New SDCs





Comments?
Questions?

WASC