

<u>2006 – 2007 Proposed Budget --- Budget Summary</u> <u>Wastewater Services Fund – Water Reclamation Facility</u>

<u>2006 – 2007 Water Reclamation Facility</u> <u>Budget Highlights</u>

- The Oregon Department of Environmental Quality (DEQ) is in the process of conducting a second Total Maximum Daily Loading (TMDL) evaluation on the South Yamhill River. This TMDL will be focused on temperature, bacteria, iron, and also may include a review of the nutrient evaluation conducted during the first TMDL (ammonia and phosphorus). It will be critical for the WRF staff to participate in the TMDL process as much as DEQ allows our involvement. To help facilitate this process, West Yost and Associates and CH2M Hill will develop a technical memorandum during the WRF facilities plan update to identify the regulatory challenges facing the WRF. This document will help us determine what will ultimately impact the operation of the WRF facility and how to plan for the future.
- ♣ In addition to the TMDL process the current National Polluntant Discharge Elimination System (NPDES) permit for the WRF expires on December 31, 2008. This budget year represents the beginning process to meet the permit renewal requirements that will span two budget cycles. Permit renewal requirements have changed since the WRF's last permit was issued. Application for a new permit now includes performing what is called a Reasonable Potential Analysis for Toxic Pollutants (RPA) prior to submitting application for a permit. The RPA involves testing the effluent (treated wastewater) from the WRF for 126 chemical compounds or "priority pollutants". Each pollutant is then measured against water quality standards for a potential violation. DEQ's internal management directive requires performing three priority pollutant scans prior to submitting a permit application. Permit applications are due 180 days prior to the permit expiration date.

- New Programs, Projects, or Equipment:
 - \$15,000 --- Phase II of the Mixing Zone Evaluation Study.
 - \$40,000 --- Outside laboratory expense for performing additional laboratory analysis including RPA, bioassay, semi-annual metals, and quarterly biosolids.

Full-Time Equivalents

	<u> 2005 - 2006</u>	<u>Change</u>	<u> 2006 - 2007</u>
FTE Adopted Budget Extra Help - WRF	14.41	- 0.65	
FTE Proposed Budget			13.76

Short- and Long-Term Issues

WRF Operations:

♦ Short-Term Issues

- Participate in the on-going facilities plan update for the WRF.
- Complete operator training on the recent upgrades to the SCADA (supervisory control and data acquisition) control system.

Long-Term Issues

- Participate in South Yamhill Total Maximum Daily Load (TMDL) process with DEQ.
- Evaluate the impacts to the WRF of the proposed TMDL process for the South Yamhill River.



In 2005, 4,986,140 pounds of pollutants were removed from wastewater prior to being discharged into the South Yamhill River.

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Short- and Long-Term Issues - Continued

WRF Maintenance:

↑ Short-Term Issues

- Evaluate performance of digester aeration equipment upgrade.
- Complete pump station control system upgrades for the older stations.

↑ Long-Term Issues

- Ensure all future motor and gearbox replacements are with energy efficient models.
- Continue to identify equipment replacement or major rehab requirements and develop appropriate maintenance schedule.

Pretreatment Program:

Short-Term Issues

- Identify and survey all non-residential users to characterize their wastewater discharge.
- Complete review of local discharge limits. Includes relaxed upper pH limit being proposed (current 9.0 limit, increase to 11.0).

⚠ Long-Term Issues

- Revise majority of pretreatment program procedures and documents, including Sewer Use Ordinance, Pretreatment Implementation Guide, and Enforcement Response Plan. Requirement of DEQ audit and Federal Streamlining regulation changes.
- Expand community outreach regarding stormwater management and fats, oils, and grease (FOG) control. Also offer pretreatment informational session and WRF tour for local industry.

Laboratory

↑ Short-Term Issues

- Complete objectives of 2006 Sampling and Analysis Plan necessary to develop a data set for calculating revised local limits and performing the Reasonable Potential Analysis as required for the WRF's next NPDES permit application.
- Formalize summer internship program with Linfield College Environmental and Chemistry Departments.

↑ Long-Term Issues

- Continue to develop laboratory protocol that meets the National Laboratory Accreditation Program requirements.
- Evaluate options for future data management requirements, including expansion of current operations database by adding a Laboratory Information Management module.

Core Services

Operations

- Provide cost effective and efficient operation of the WRF necessary to achieve NPDES permit requirements.
- Provide 24-hour per day alarm monitoring response for WRF and pump stations.

Maintenance

- Perform predictive, preventative, and corrective maintenance required to keep equipment operational and minimize down time.
- Perform equipment repairs and upgrades that will extend the useful life of the WRF and pump station equipment.

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Core Services – Continued

Pretreatment

- Provide source control for the collection system and WRF to protect against illicit discharges and harmful wastes that impact the treatment processes or may be harmful to employees working in the collection system.
- Prepare and issue permits to industrial dischargers and enforce the sewer user ordinance as required.



In 2005, the pretreatment program administered user charges for flow and extra strength wastewater totaling \$222.500.

Laboratory

- Perform required laboratory analysis per the NPDES permit.
- Maintain precision through extensive quality assurance and quality control measures.



McMinnville's first wastewater treatment facility begins operation on May 4, 1953. The construction cost totaled \$396,456.40 and was designed to serve a population of 8,000. The residential user fee was \$0.75 per month.

- 1964 First sewage treatment plant upgrade was completed in March adding a new 35' digester with mechanical mixing and upgraded digester heating system.
- 1971 Major expansion of the original trickling filter plant to an activated sludge treatment system to meet a growing population and changing water quality standards.
- 1989 Department of Environmental Quality (DEQ) conducts first Total Maximum Daily Loading (TMDL) evaluation on the South Yamhill River. River is water quality limited for phosphorus and ammonia.

<u>Wastewater Services Fund – Water Rec. Facility ---</u> <u>Historical Highlights</u>

1992 City's Pretreatment
Program is approved by
DEQ on October 25, 1992.

1993 City breaks ground on new Water Reclamation Facility (WRF).

1995 City explores outsourcing WRF operations and management. City Council decides to retain direct operating control of WRF after considering cost analysis.

1996 The \$28 million Water
Reclamation Facility
(WRF) begins operating
on January 24, 1996, in
response to new water
quality standards and the
City's growing population.

1998 WRF receives two awards from The Pacific Northwest Pollution Control Association ---. Municipal Water Protection Award for WRFs contribution to clean water and George W. Burke Facility Safety award.

1999 The Oregon Association of Clean Water Agencies (ACWA) presents WRF with Outstanding Member Agency Award for its contribution to improving water

quality.

2005 WRF begins tenth year of operation in January 2005.



The WRF recycled 4.0 million gallons of biosolids (fertilizer) to agricultural land in 2005.



WRF Laboratory received 2,349 samples and performed over 16,400 analyses last year.

The WRF treated 1.7 billion gallons of wastewater in 2005.



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ACTUA 2003-0		BUDGET 2005-06			NUMBER OF EMPLOYEES	PROPOSED 2006-07	APPROVED 2006-07	ADOPTED 2006-07
				REQUIREMENTS				
				PERSONAL SERVICES				
75,37	2 77,037	79,478 8 R	80245-00 ton Bittler	WRF OPERATIONS MANAGER	1.00	81,674	81,674	81,674
64,90	1 65,145	67,624 8 /E	0257-00 rnie Strahm	WRF OPERATIONS SUPERINTENDENT	1.00	69,490	69,490	69,490
34,26	8 0	0 8	0295-00	WRF ENVIRONMENTAL SVCS SUPVR	0.00	0	0	0
7,68	0 43,464	46,867 8 6 St	0298-00 teve Covey	WRF LABORATORY TECH - SENIOR	1.00	50,586	50,586	50,586
37,32	1 44,436	46,093 8 6	0304-00 ora Lyons	WRF LABORATORY TECHNICIAN	1.00	49,036	49,036	49,036
10,44	9 42,951	46,324 8 6 La	0304-05 arry Morse	WRF SR ENVIRONMENTAL TECH	1.00	46,097	46,097	46,097
20,26	7 35,074	40,253 8 6 La	0305-00 aura Johnson	WRF ENVIRONMENTAL TECH II	1.00	38,465	38,465	38,465
50,43	6 51,180	52,540 8 0 D	0307-00 Pave Gehring	WRF OPERATOR - SENIOR	1.00	53,984	53,984	53,984
127,58	4 130,911	R	60308-00 im Munro tick Williams fatthew Young	WRF PLANT OPERATOR II	3.00	143,238	143,238	143,238
91,99	2 93,384		30323-00 Pavid Allen eland Koester	WRF MECHANIC	2.00	99,488	99,488	99,488
37,77	6 12,338	0 8	0341-00	FACILITIES MAINT SPECIALIST II	0.00	0	0	0
30,98	4 31,452	32,302 8	0371-00 atti Buffett	OFFICE SPECIALIST II	1.00	33,205	33,205	33,205
15,98	1 10,637	25,000 8	0385-00	EXTRA HELP - WRF	0.76	13,500	13,500	13,500
9,99	9 10,050	15,000 8	0386-00	OVERTIME	0.00	14,000	14,000	14,000
	0 0	0 8	0388-00	FRINGE BENEFITS:	0.00	0	0	0
44,81	· ·	52,376 8		FICA	0.00	52,997	52,997	52,997
108,89	•	159,576 8		PERS - OPSRP - IAP	0.00	167,578	167,578	167,578
63,65	3 86,155	94,188 8	0391-00	MEDICAL INSURANCE	0.00	90,144	90,144	90,144

City of McMinnville Budget Supplement - Adopted

55	10				2006-07				02-Aug-06
	ACTUAL 2003-04	ACTUAL 2004-05	BUDGET 2005-06			NUMBER OF EMPLOYEES	PROPOSED 2006-07	APPROVED 2006-07	ADOPTED 2006-07
	1,074	932	897	80392-00	LIFE INSURANCE	0.00	897	897	897
	12,634	14,299	18,751	80393-00	WORKERS' COMPENSATION INS	0.00	28,488	28,488	26,649
	0	1,493	2,500	80394-00	UNEMPLOYMENT	0.00	2,000	2,000	2,000
	3,246	3,587	3,673	80395-00	DISABILITY INSURANCE	0.00	3,792	3,792	3,792
	849,324	910,048	1,016,645	TOTAL	PERSONAL SERVICES	13.76	1,038,659	1,038,659	1,036,820
					MATERIALS & SERVICES				
	325	1,195	1,000		SAFETY TRAINING/OSHA quired to conduct safety meetings, training films, posters, and hand	0.00 outs. etc.	1,500	1,500	1,500
	1,029	467	900	80420-00	EMPLOYEE DEVELOPMENT entations, seminars, and workshops providing continuing development	0.00	800	800	800
	8,969	10,543	12,000	Memberships ar Federation Nation	TRAVEL & EDUCATION nd registrations to professional organizations, attendance at the War onal Conference; and reimbursements to employees for approved en ness incurred. Includes continuing education credits required for em	ducation progran	14,000 ns	14,000	14,000
	4,806	4,289	5,000		GAS - OIL - GREASE ease used by vehicles, plant, and pump stations.	0.00	5,000	5,000	5,000
	319,259	306,315	319,300	223,500 Electr 48,600 Electr 41,500 Electr 6,500 Electr	FUEL & POWER ical and natural gas for WRF ical and natural gas for Raw Sewage Pump Station ical and natural gas for Cozine Pump Station ical for all other pump stations	0.00	320,100	320,100	336,300
				•	ower and fuel costs do not include any future rate adjustment or cha ons by McMinnville Water & Light or NW Natural Gas.	ange in demand			
	17,500	17,687	20,000	Telephone and	TELECOMMUNICATIONS fax usage, telemetry lease lines, pagers, and Nextel communication sts for the fiber connection to WRF for computer services.	0.00 system charges	20,000	20,000	20,000
	15,871	14,996	11,000	Employee prote	MATERIALS & SUPPLIES ctive clothing, general cleaning supplies, office supplies, garbage serinting, postage, and shipping costs.	0.00 ervice,	21,000	21,000	25,000

Budget Note: With the shift of supervision of the Sanitary Sewer and Storm Drain Maintenance Division to the WRF Operations Manager, all material and supplies for both departments are covered by this account. Note - Material and Supplies Account #55-12-80461 dollars eliminated in Proposed

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ACTUAL 2003-04	ACTUAL 2004-05	BUDGET 2005-06	NUMBER OF EMPLOYEES	PROPOSED 2006-07	APPROVED 2006-07	ADOPTED 2006-07
13,965	18,379	29,400 80463-00 LAB EXPENSE 14,000 Materials and supplies 1,500 Laboratory instrument maintenance agreements and equipment calibratio 2,000 Water purification system filters and maintenance 2,100 Ambient Program; river sampling and data logger replacements 400 Quality Assurance and Quality Control (QA/QC) EPA study	0.00 n service	20,000	20,000	20,000
23,683	22,810	25,500 80469-00 PERMIT & BASIN COUNCIL FEES 10,344 National Pollutant Discharge Elimination System (NPDES) annual base for 2,685 Population base fee 2,685 Pretreatment Program fee - includes significant industrial user fees 6,200 US Geological Survey river monitoring station annual fee 2,500 Yamhill Basin Council support 1,500 DEQ plan review fee 1,150 DEQ annual wastewater certification support fee 740 NPDES Permit re-opener fee - incorporates a stormwater 1200 Z permit 250 Yamhill County annual electrical inspection fee 750 DEQ hazardous substance possession fee 500 Oregon Department of Consumer Services - compressor permits 390 DEQ Stormwater Program fee	0.00 ee	30,475	30,475	30,475
0	0	0 80472-99 REPAIRS & MAINTENANCE:	0.00	0	0	0
155,143	188,787	162,500 80473-00 R&M - EQUIPMENT 70,000 Routine mechanical and electrical at plant and pump stations 60,000 Oxidation ditch - gear box and motors 30,000 Instrumentation and control repairs 10,000 Administration building roof repair 5,000 HVAC control maintenance - Headworks & return building on WRF site; resewage pump station (RSPS); and Cozine pump station 10,000 Biofilter maintenance 2,000 Remtal equipment 1,000 Irrigation system and in WRF water system maintenance	0.00 aw	192,000	192,000	192,000
2,691	2,320	4,400 80477-00 R&M - VEHICLES	0.00	5,000	5,000	5,000
19,978	20,506	21,000 80481-00 R&M - SUPPLIES Repair and maintenance supplies such as HVAC filters, fasteners, packing, electric brackets, paint, and PVC pipe fittings.	0.00 cal components,	25,000	25,000	25,000
3,457	2,878	4,200 80493-00 R&M - RENTAL PROPERTY Riverside Drive rental property repairs and routine maintenance. Property taxes a expense is approximately 50% of total.	0.00 nd insurance	4,200	4,200	4,200
57,600	67,100	64,500 80511-00 INSURANCE-PROPERTY & LIABILITY	0.00	65,400	65,400	65,400

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ACTUAL 2003-04	ACTUAL 2004-05	BUDGET 2005-06		NUMBER OF EMPLOYEES	PROPOSED 2006-07	APPROVED 2006-07	ADOPTED 2006-07
51,799	42,352	47,500	80521-00 CHEMICALS 35,000 Aluminum chlorohydrate (ACH) and alum 3,500 Sodium hypochlorite 10,000 Polymer 6,500 Herbicides, molasses, and lime	0.00	55,000	55,000	55,000
1,271	5,738	8,800	80609-00 JANITORIAL SERVICES & SUPPLIES Janitorial contract for administration and headworks building.	0.00	8,800	8,800	8,800
22,047	15,861	94,550	80611-00 PROFESSIONAL SERVICES: 15,000 Mixing zone study - Part II Effluent discharge evaluation 30,000 Engineering and technical support Miscellaneous 10,000 Pretreatment program development 10,000 Environmental legal fees Pretreatment program 3,200 Audit fee allocation 600 Water & Light Department sewer billing fee - annual 350 Section 125 employee accounts administration fee 850 Miscellaneous Budget Note: A "mixing zone" is a designated portion of the river to serve as a zone to thoroughly mix wastewater with river water.	0.00	59,150	59,150	70,000
1,410	33	2,600	80611-05 PS - HUMAN RESOURCES	0.00	2,400	2,400	2,400
0	0	25,000	80611-21 PS - ADMIN BLDG ENERGY CONSV	0.00	0	0	10,000
0	0	30,000	80611-23 PS - OXIDATION DITCH UPGRADE	0.00	0	0	0
20,548	5,511	0	80611-53 PS - EQUIPMENT STORAGE BLDG	0.00	0	0	0
16,830	16,800	16,283	80612-00 COMPUTER SERVICES - IS FUND Shared network services cost - Network and PC support agreements, licenses, financial systems, internet connection etc.	0.00	18,790	18,790	18,790
0	0	0	80615-00 CONTRACT SERVICES:	0.00	0	0	0
76,241	53,268	68,700	80615-01 CS - BIOSOLIDS Biosolids hauling from the WRF.	0.00	125,000	125,000	125,000
22,441	21,069	65,000	80615-02 CS - LAB Outside laboratory services - semi-annual metals testing using "ultra clean" samplin permit requirement to perform bioassay (toxicity test) on effluent. Quarterly biosolid Complete local limits analysis and priority pollutants for conducting the Reasonable	s analysis.		40,000	40,000
5,794	8,581	23,750	1,800 Elevator maintenance contract 600 Fire alarm monitoring and service calls 2,800 Fire sprinkler maintenance, extinguishers, and backflow testing 3,000 Fire system inspections, testing, and repair twice per year 15,000 WRF landscape maintenance contract	0.00	23,200	23,200	23,200

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ACTUAL 2003-04	ACTUAL 2004-05	BUDGET 2005-06		UMBER OF MPLOYEES	PROPOSED 2006-07	APPROVED 2006-07	ADOPTED 2006-07
5,470	7,070	6,600	80633-00 SOFTWARE MAINTENANCE WRF Control System Software: 2,000 MP2 support 2,000 RS - Rockwell support 2,100 Ops 32 support	0.00	6,100	6,100	6,100
0	0	0	80680-00 M&S ASSETS: Materials & Supplies Asset purchases, with values under \$4,999 and more than one-year	0.00 ar useful life.	0	0	0
0	0	0	80681-00 M&S EQUIPMENT:	0.00	0	0	0
0	0	0	80681-01 M&S EQUIP - PLANT	0.00	0	0	0
0	0	0	80681-03 M&S EQUIP - PUMP STATIONS	0.00	0	0	0
4,030	1,485	7,200	 80681-05 M&S EQUIP - LAB 5,000 Spectrophotometer - Measures pollutants by using light absorption to measure various chemical compounds 4,500 IDEXX Quantitray - bacteria analysis 4,800 Drying oven - total suspended solids (TSS) analysis 2,100 Muffle furnace - solids samples 	0.00	16,400	16,400	16,400
1,836	452	17,000	80681-07 M&S EQUIP - WRF COMPUTERS 11,000 Pretreatment database for regulatory compliance 5,000 Process computer maintenance and communication card replacements 2,000 ISCO flowlink software for field samplers	0.00	18,000	18,000	18,000
			Budget Note: The new pretreatment database will replace an old EPA software that is r supported. New software will improve WRF's ability to maintain necessary records to er compliance with DEQ's Pretreatment Program requirements.				
3,600	17,382	14,290	80683-00 M&S COMPUTERS - IS FUND 1,600 Department Computer Equipment Replacement computer - 1 9,377 M&S Equipment - IS Department Network Hardware and Software *Computer Headworks #2	0.00	10,977	10,977	10,977
877,593	873,874	1,107,973	TOTAL MATERIALS & SERVICES	0.00	1,108,292	1,108,292	1,149,342
			CAPITAL OUTLAY				
33,334	14,368	16,500	80701-00 EQUIPMENT	0.00	0	0	0
0	0	0	80704-00 EQUIPMENT COMPUTER - IS FUND	0.00	0	0	0
0	0	0	80704-99 EQUIPMENT COMPUTER - WRF	0.00	0	0	0
0	0	107,000	80731-00 VEHICLES 96,865 Service truck with crane - carryover from 2005-2006 2,700 Pick-up canopy - carryover from 2005-2006	0.00	0	0	99,565

55	10	10 2006-07						
	ACTUAL 2003-04	ACTUAL 2004-05	BUDGET 2005-06		NUMBER OF EMPLOYEES	PROPOSED 2006-07	APPROVED 2006-07	ADOPTED 2006-07
	0	0	0 80771-00	BUILDING IMPROVEMENTS:	0.00	0	0	0
	0	0	155,000 80771-21	BI - ADMIN BLDG ENERGY CONSRV	0.00	0	0	85,000
	0	0	140,000 80771-23	BI - OXIDATION DITCH UPGRADE	0.00	0	0	0
	2,160	329,974	0 80771-53	BI - EQUIPMENT STORAGE BLDG	0.00	0	0	0
	0	0	0 80773-00	LAND IMPROVEMENTS	0.00	0	0	0
	35,494	344,342	418,500 TOTA	L CAPITAL OUTLAY	0.00	0	0	184,565
	1,762,411	2,128,264	2,543,118	TOTAL REQUIREMENTS	13.76	2,146,951	2,146,951	2,370,727