Public Works Department Level of Service

City of Camas

04/23/2018 Council Special Meeting

Public Works Mission Statement:

"...To provide quality community services for the health and safety of its citizens and the environment."

Who do we serve?

EXTERNAL CUSTOMERS

- Residents, Businesses, Industries
- Intergovernmental State, Clark County, other
 Cities, School Districts, Utility Districts
- Economic Development Agencies CREDC,
 CWEDA, DCA
- Contractors, Developers, Attorneys, Planners,
 Engineers, Title Companies, Real Estate Brokers,
 Vendors, Students

INTERNAL CUSTOMERS

- Mayor & Council
- Boards & Commissions
- All City Departments
- Employees

What defines what we do?

- Public & Citizen Input
- **CMC** Titles 3, 10, 12, 13, 14, 15, 16, 17 & 18
- City of Camas Design Standards Manual
- City of Camas Comprehensive Plan (2035 Plan)
- Administration/Budgets/Staffing
- WA State Permits Health, Ecology, Clean Air
- Economy & Development Trends
- Professional Ethics
- WA State Auditor's Office

General Fund		Enterprise Funds
Engineering	<u>Operations</u>	<u>Operations</u>
Development	Streets	Water
Capital	Parks	Sewer
Traffic Management	Cemetery	Stormwater
Operations Support	Central Services	Solid Waste
		Equipment Rental

What services do we provide?

What staffing do we have?

Engineering

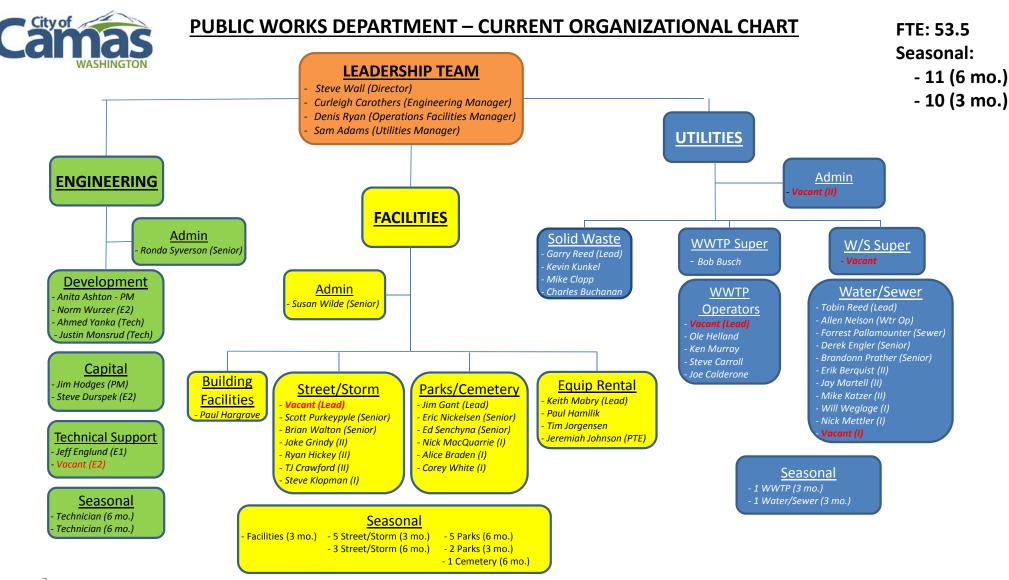
- 10 FTE
- 2 Seasonal (6 mo.)

Operations - General Fund Supported

- 16 FTE
- 9 Seasonal (6 mo.); 8 Seasonal (3 mo.)

Operations – Utilities

- **27.5 FTE**
- 2 Seasonal (3 mo.)
- = 53.5 FTE Total + Seasonal Employees



What Budget do we have?

2018 Operating Budget

- Engineering = \$1.29M
- Parks Maintenance = \$1.03M
- Central Services = \$228K
- Streets = \$2.86M
- Cemetery = \$229K
- Stormwater = \$1.57M (Stormwater Rates)
- Solid Waste = \$2.7M (Garbage/Recycling Rates)
- Water/Sewer = \$8.17M (Water & Sewer Rates)
- Equipment Rental = \$1.13M (Equipment Interfund Rates)
- Total 2018 Operating Budget = \$19.21M (Does not include any Capital)



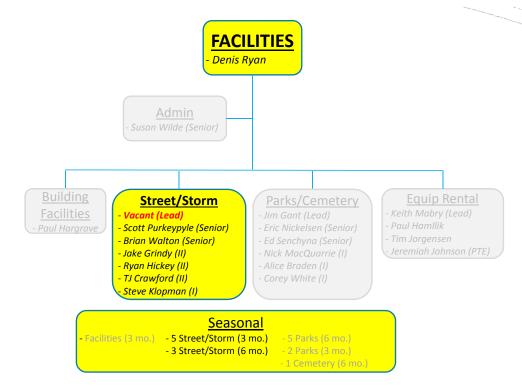
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What services do we provide?

Quick Facts

- 110+/- Centerline Miles of Pavement
- 3,200+/- Street Lights
- **4,000+/- Signs** (estimated)
- 50+/- Downtown Flower Baskets + other
 Planter Boxes
- Banner Poles & Pennants (Downtown/at Gateways)
- Public Sidewalks & Street Trees
- Miles of Guardrail, Striping, Raised
 Pavement Markers, Roadside Vegetation
- Responsible for Support of Events

Staffing & Budget



- 5 FTE in Streets Budget, 8 Seasonal
 - 20+/- yrs since hiring new crew member
- Operations + Stormwater w/l Lead Worker
- 2018 Operating Budget = \$2.86M
 - Includes \$0.775M in Pavement Preservation

General Streets

Streets



- Street Lighting
- Pavement Repairs
- Roadside Mowing/Brush Cutting
- Signs & Striping
- CRMs
- Debris/Litter
- Crack Sealing
- Code Enforcement & **Engineering Support**
- Pavement Mgmt. Program
- Weather related response



- Landscaping
- Landscaping
 Flower Baskets 50+ takes 6 mo..
 seasonal
 Events 12 First
 Fridays; 11 other
 major events
 Farmers Market
 Tree Maintenance
 Tree Lights Fridays; 11 other

 - Tree Maintenance & Tree Lights





Snow & Ice

- De-icing & Plowing of **Priority 1 Routes**
- Emergency Response Assistance
- Repair of damaged assets
 - Street lights; guard rails; trees

- Significant /Ongoing Preventative Pavement Maint.
- Shoulder Work & Enhancement
- Roadside Spraying (Contract out to County)
- Sign Maintenance & Replacement
- Guardrail Maintenance
- Curb & Sidewalk Repairs
- Contracted Work: Striping; Signal Preventative Maint; Street Light Electrical

Snow & Ice

Streets

- Priority 2 & 3 Roads During Events Often Not Maintained
- Residential Roads Rarely Receive Maintenance During Events

What We're Not Able to Do

Current State

Current staffing levels do not meet demands

Challenges & Risks

- Most Work Corrective vs. Preventative (repairs, CRMs)
- Small Crew on Streets & Stormwater Maintenance
- Vacation, Comp & Sick Leave (PTO) Reduce Crew Size
 - Any given day ~20% use PTO
 - Minimum 6 FTE for roadway projects
 - "Only able to do one project at a time"
- Downtown Mall & Events = Sizeable Time Commitment
 - Ex. Blowing & sweeping every week
- Not All CRMs/Requests Easy to Address!
 - Ex. Downtown planter boxes
- Development & Encroachment Permit Trickle Down
- Operations Center Space

Future State

SERVICE DELIVERY GOALS

- Stand-Alone Streets Maintenance & Stormwater Maintenance Crews
- More Pavement Preventative Maintenance
 - Crack sealing, patching
- Signal & Lighting Program w/Trained Staff
- Sign Inventory & Maintenance Program
- Discussion
 - Snow & Ice Removal
 - Downtown Mall
 - Sidewalk Removal Program
 - Pavement Management Program fully fund?

Strategy for Streets

REQUESTED SUPPORT

- 2018 (Immediately)
 - Fill Vacant Lead Worker Position (zero budget impact)
- **2019-2020 Budget**
 - Stand-Alone Streets Maintenance Division
 - Add 2 New FTEs fill gap, stand-alone Stormwater Division
 - Reduce Seasonal Staff offset budget impacts
 - Purchase asphalt maintenance equipment
- Level of Service Considerations
 - Snow & Ice?
 - Downtown Mall?
 - Sidewalk Removal Program?
 - Pavement Management Program?
 - \$775k/yr. Need \$1.1M min. keep Pavement Condition Rating

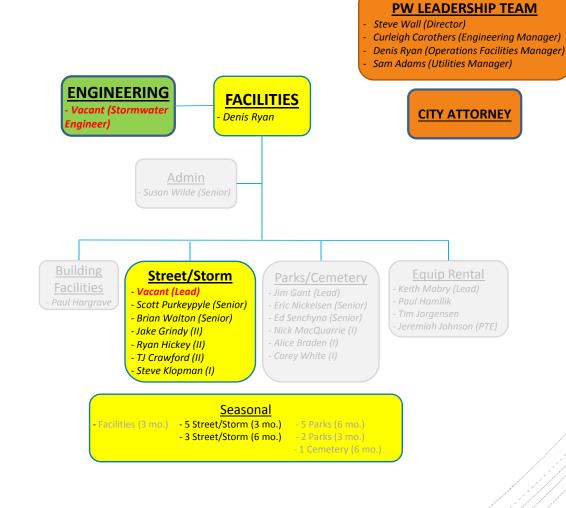


General Fund		Enterprise Funds
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Stormwater

What services do we provide?

Stormwater Staffing & Budget 20



Stormwater

Staffing & Budget

- No <u>Dedicated</u> Stormwater Operations
 Crew or Technical Support Staffing
 - Operations w/Streets share 1 Lead Worker
- No <u>Dedicated</u> Stormwater Engineer to Manage NPDES Permit
 - Tracking by Development Project Manager w/Leadership Team support
 - Vacant Engineering position for Stormwater
 Program with Leadership Team oversight
- 2018 Operating Budget = \$1.57M
 - Same budget w/Maintenance, Operation & NPDES Permit monitoring

Operations & Maintenance

Stormwater

What we do & what we can't always get to



- Public stormwater facility inspections
- Catch basin maintenance
- Public stormwater pond & bio-swale maintenance
- Emergency inclement weather response
- Spill response
- Catch basin & street sweeping debris disposal
- Public storm filter cartridge inspection & replacement
- Street sweeping



Ongoing &Preventative:

- Drainage Ditch Maintenance
- Storm line preventative maintenance
- Routine TV Inspections
- Major Repairs
- Manhole inspections
- Outfall inspections
- Private facility inspections & follow-up

Stormwater

What our Permit Requires us to do

- NPDES National Pollutant Discharge Elimination System
 - "Authorizes discharge of Stormwater to surface waters of the State"
- Western WA Phase II Municipal Stormwater Permit Regulated "MS4s"
 - MS4 = Municipal Separate Storm Sewer Systems
 - Phase II for Communities > 10K population
- Requirements
 - Management Program
 - Education & Outreach
 - Public Involvement & Participation
 - Illicit Discharge Detection & Elimination
 - Controlling New Development/Redevelopment Runoff
 - Municipal Operations & Maintenance (identified on prior slide)
 - Monitoring & Assessment
 - Reporting & Tracking

Stormwater

Current State

Current staffing levels do not meet demands

Challenges & Risks

- NPDES Permit Requirements (barely meeting)
 - "G.20 Letter" issued 2017
- No Dedicated Maintenance Crew
- No Dedicated Technical/Professional Staff
 - No support to maintenance staff, inspectors, etc.
- Consultant Reliance inspection & other tasks (no staff availability)
- Limited Technology Availability
 - No true GIS support
 - Inspection tools outdated
- Office Space

SERVICE DELIVERY GOALS – NPDES PERMIT

Stormwater

Future State NPDES Permit

- Develop Stormwater Management Program (dedicated staff)
 - Technical staff & Operations/Maintenance staff
- NPDES Permit Requirements Full Compliance
 - Manage & track maintenance needs
 - Work w/HOAs Stormwater facility inspections & follow up
 - Work w/Stormwater Partners group provide citizen outreach & education
 - Annual reports, documents, & mapping updates
 - Ongoing staff training re: Permit requirements
 - Illicit Discharge screening & removal
- Building & Operations Staff Technical Support

SERVICE DELIVERY GOALS - MAINTENANCE

Dedicated Stormwater Maintenance Division

Stormwater

Future State Maintenance

- Preventative Maintenance Program
 - Mainline & Manhole inspection
 - Public facility maintenance
 - Ditch cleaning
 - "Hotspot" corrections
 - Repair & Replacement projects
- Stormwater Utility Maintenance & Asset Management Programs



Stormwater

Strategy for Stormwater

Requested Support

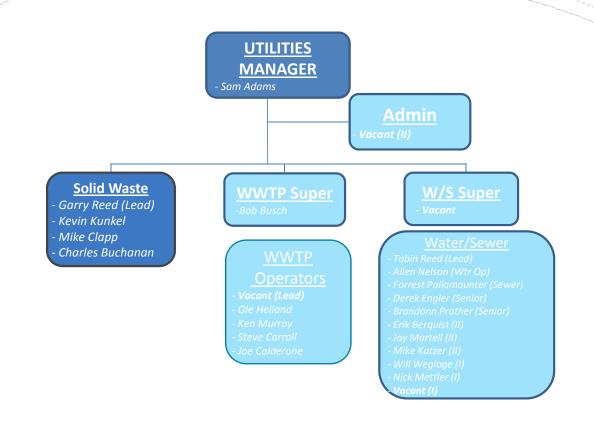
- 2018 (Immediately)
 - Fill Vacant Engineer Position (Stormwater Rates funded)
- 2019-2020 Budget
 - Lead Worker (new FTE)
 - Stormwater Utility Rates Funded
 - Stand-Alone Stormwater Maintenance Division
 - May require Streets 2 New FTEs (General Fund impact)
 - Technology Requests
 - Field staff tables to record activities
 - GIS/Mapping Support
 - Equipment Requests Mini Excavator, Trailer & 5-yd
 Dump
- **2020-2023**
 - Additional Maintenance Worker (new FTE)
 - Stormwater Utility Rates Funded
- Level of Service Considerations
 - Reduce Street Sweeping frequency free up staff



General Fund		Enterprise Funds
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What services do we provide?

Staffing & Budget



- 4 FTEs
- 2018 Operating Budget = \$2.7M
 - \$744K Garbage Disposal Columbia Resource Co.
 - \$440K Recycling Waste Connections

What We Do



- 4 Garbage Trucks / Drivers
- City Collects Garbage (Waste Connections collects Recycling & Yard Debris)
- City Bills Customers for Garbage & Recycling (Waste Connections bills City for Recycling)
- Only Clark County "Public Garbage Hauler"
- 7,500+/- Customers
 - 2019 Annexation Areas customers immediately increase by 940
- 11 Routes / 5 Days
- Cart Washing, Maintenance & Delivery
- Special Services Provided
 - "Extra Items" List
 - Carry-out/Driveway Service (by request/approval)
 - Manual Downtown & Park Service
 - Every-Other-Week Service (800+/- customers)
 - "Unsolicited" Walk-Up Service

Current State

Current staffing levels meet demands until 7/2019

Challenges & Risks

- 4-Person Crew Long-Term Employees (PTO reduces to 3)
- 2019 Annexation Areas
- Routes Not Distributed Evenly Throughout Week
- Every-Other-Week Collection (many set out weekly)
- Carry-Out/Driveway Service Unsafe (2017 improvements)
- No New-Drivers Process/Maps Training
- Lack of Technology "Route Sheets" & Recording Extras Manually
- Operations Center Lacks Trucks & Cans Space
- Garbage Trucks Mechanics Time is Significant
- Curbside Recycling Collection Not Enough for Waste
 Connections Cost of Service

Future State

SERVICE DELIVERY GOALS

- New Driver & Truck 2019 Annexations & Growth
 - Assists with PTO issues
 - Option Contract w/Waste Connections to continue collection a period of time
- Balance Routes, Coordinate Recycling/Yard
 Debris
 - Process underway
- Technology
 - Automate Route Sheets & Extras records (links to Finance)
 - Route Maps to train new drivers
- Education, Outreach & Communication Strategy

Strategy for Solid Waste

REQUESTED SUPPORT

- 2018 (Immediately)
 - Rebalance Routes
- 2019-2020 Budget
 - New Driver (FTE) & Garbage Truck
 - Technology
 - Field staff tablets to record activities
 - GIS/Mapping Support
- Solid Waste Rates Funds
- Level of Service Considerations
 - Reduce/Remove "Extra Items" Pick-up
 - Cart Size Options
 - Every-Other-Week Service
 - Downtown Mall Area Solar Trash Compactors?
- New Mechanic
- Other Considerations looking at Rate Structure



General Fund		Enterprise Funds
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Water / Sewer

What services do we provide?

20 Total FTEs

- 12 Water-Sewer
- 6 WWTP
- 2 Admin

UTILITIES MANAGER Admin Vacant (II) **WWTP Super** W/S Super -Bob Busch Water/Sewer **WWTP** - Allen Nelson (Wtr Op) Operators - Forrest Pallamounter (Sewer) - Derek Engler (Senior) Ole Helland - Brandonn Prather (Senior) Ken Murray - Erik Berquist (II) Steve Carroll - Jay Martell (II) Joe Calderone - Mike Katzer (II) - Will Weglage (I) Nick Mettler (I)

Staffing & Budget

37

Water-Sewer Division

2018 Operating Budget

- WWTP = \$2.22M
- Water-Sewer = \$3.9M
- Admin = \$2.05M
- Total = \$8.17M

^{*}Does not include any Capital

Quick Facts

- 9,000+ Water/Sewer Customers
- Class IV 6.1 MGD WWTP w/ Class-A Biosolids
- 27 Pump Stations (3 new N. Shore)
- 5,300+/- STEP Systems (Septic Tank Effluent Pumping Systems)
- 7 Reservoirs (8.45 MG Storage), 10 Wells (14.8 MGD pumping capacity), 8 Water Booster Pump Stations
- 2.26mgd Slow Sand Water Treatment Plant
- 1,700+ Acre Watershed & Forest Management Area
- 120+ Sewer Main Miles / 120+ Waterline Miles
- 900 +/- Fire Hydrants
- PLUS, Water Valves, Air Release Valves, Pressure Reducing Valves

Water System Tasks

	What We Do		What We're Not Able to Do	
	Utility Locate Services	CRMs	Valve Exercising	
	Water Quality Testing	Emergency Repairs	Backflow "Program"	
	Slow Sand Wastewater Treatment Plant Operations	Backflow data entry –minimum necessary	Fire Hydrant Maintenance & Flow Testing	
	Water Meter Installs/ Reading / Shut-off / Turn on	Watershed & Headworks Maintenance	Repair & Replacement Program	
	Well Maintenance & Regulatory Compliance	Customer & Finance/billing requests	Maintenance Management /Asset Management	
	Reservoir Site Maintenance	Pressure Reducing Valve Maintenance	Create/Update Standardized Mapping	
	Booster Pump Stations	Development Plan Review	Leak Detection & Repair	
	Mainline Flushing			

Water System Current State

Current staffing not keeping up; growth, maintenance management & special programs require more staff

Challenges & Risks

- Minimum Regulatory Compliance (Backflow Program)
- Mostly Corrective Work (Reactionary) vs. Preventative
- Rapidly Growing Customer Base
- New Slow Sand WTP Requires Additional FTE Support
- Significant Capital System Expansion Needed keep up w/development (rate pressure)
- Water Loss Meters Need Replacing (replacement program in process)
 - Large meters challenging
- No Work Activity Tracking Maintenance/Asset
 Management Programs Needed
- Combined Water & Sewer Division (one or the other focus)
- WWTP Electrical Systems Outdated

Sewer System Tasks

What	We Do	What We're Not Able to Do	
Utility Locate Services	CRMs	Gravity Sewer Flushing Program	
STEP Tank pumping	Emergency Repairs	Gravity Sewer Repair & Replacement	
STEP tank Emergency Services	Customer & Finance/billing requests	STEP Tank Preventative Maintenance & Inspection Program	
New STEP Tank Inspections	Development Plan Review	Advanced & Ongoing Odor & Corrosion Control	
Regulatory Compliance		Maintenance / Asset Management	
Air Relief Valve Maintenance		Create/Update Standardized Mapping	
		Fats, Oils & Grease (FOG) Program	

Sewer Collection System Current State

Current staffing does not meet demands

Challenges & Risks

- Mostly Corrective Work (Reactionary) vs.
 Preventative
- Rapidly Growing Customer Base
- STEP System Complex; emergency callouts; maintenance needs; odors; impacts on WWTP
- No Work Activity Tracking –
 Maintenance/Asset Management Programs Needed
- Combined Water & Sewer Division

WWTP & Pump Station System Tasks

Routine Maintenance

- Wastewater Treatment Plant
 - Process control
 - Laboratory & sampling
 - Solids handling
 - Mechanical/electrical maintenance
- Pump Stations
 - Daily checks & monitoring
 - Draw downs

Unique Maintenance

- Breakdowns & repairs
- Repair & replacement projects

What We're Not Able To Do

- Running Solids Handling System Long Enough
- Preventative Maintenance
- Generally keep up with work load!

WWTP & Pump Stations Current State

Current staffing does not meet demands

Challenges & Risks

- VERY Complex System especially for City size
- Mostly Corrective Work (Reactionary) vs. Preventative
- Lack Pump Stations Telemetry & SCADA (except N. Shore)
- Lack Pump Stations Security Fencing
- Little, if any, WWTP & Pump Stations Preventative
 Maintenance in the past
- Not Running Solids Dryer Enough w/Current Staffing
- WWTP Electrical Systems Outdated
- Imminent Future WWTP Upgrade Project
- Need Significant Pump Station Repair & Replacement
- WWTP Not Connected to City Hall Server



CELEBRATE OUR SUCCESS!

Sewer

- WWTP & Pumps Stations Major Equipment Condition Assessment Completed in 2017!
- New N. Shore Pump Stations SCADA & Telemetry System
- Nearing WWTP Maintenance Management System Purchase

Water

All Major Water System Equipment Condition
 Assessment Completed in 2017

Future State

SERVICE DELIVERY GOALS

- Develop Maintenance/Asset Management Programs
- Water-Sewer
 - Develop full STEP system maintenance Program
 - Complete Radio-Read Meters Transition
 - Develop Large-Meter replacement/Testing program
 - Reinstate Backflow Prevention Program
- Asset Inventory & Condition Assessments lead to Asset & Maintenance Management Program
- Reorganize Water & Sewer Utilities to Stand-Alone
 Water & Sewer Divisions (dedicated personnel for each)
- Complete Water System Plan Update & General Sewer Plan Update
- GIS Support (Mapping, Inventory, Easements & Rights-of-Way)

Future State

SERVICE DELIVERY GOALS

- WWTP & Pump Stations
 - Follow Condition Assessment Recommendations
 - Improve Remote Capabilities
 - Increase Solids Handling System Runtime
 - Systems Optimized for Right Conditions
- Ops Center to WWTP Fiber Connection Completions

Strategy for Water & Sewer Utilities

REQUESTED SUPPORT

Immediate

- Fill Admin, Lead WWTP Operator & Utility Maintenance
 Worker Vacancies
- Evaluate Filling Water-Sewer Supervisor

5-year Rate Study Model timeframe (2019-2023)

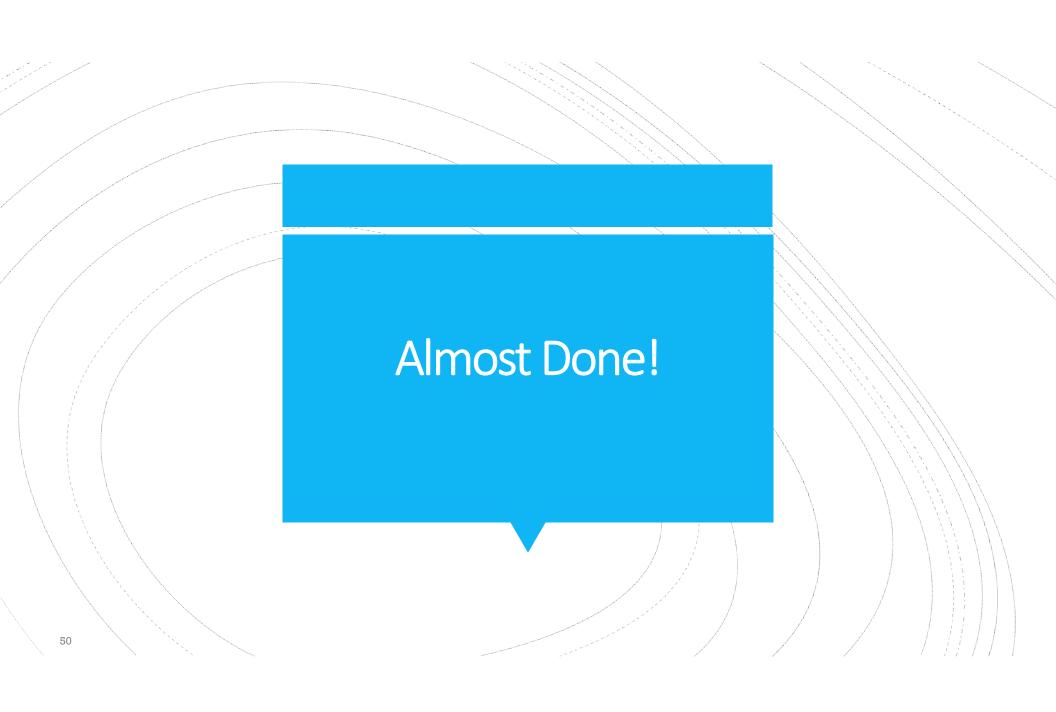
- Add FTE Support for Higher Level of Service
 - Water 2 More Maintenance Workers
 - Backflow Specialist & Maintenance Worker backfill WTP Operator
 - Sewer 2 More Maintenance Workers
 - STEP Program & general Maintenance
 - WWTP 2 Additional Operators
 - "Maintain minimum chaos"
- Rate Model/Rate Setting Process to Support Positions

Strategy for Water & Sewer Utilities

REQUESTED SUPPORT

5-Year Rate Study Model Timeframe (2019-2023)

- Inventories & Condition Assessments Funds per Strategic
 Plan
- Asset/Maintenance Management System(s) Funds
 - Invest in GIS system & technician
- Pump Station & WWTP SCADA/Telemetry Upgrades Funds
- WWTP & Pump Station R&R Plan Funds
- STEP System Program Funds
- Fiber Connection to WWTP Funds
- Level of Service Considerations
 - STEP System Program
 - Full program additional staff & equipment to pump & maintain systems



Public Works

Big Picture Thoughts

- Invest in Staff! Training & Resources
- Try to Turn Corner on Preventative & Corrective Maintenance
 - Asset & Maintenance Mgmt. Systems key!
- Currently Unable to Track Performance
- GIS Services Must Play Role Moving Forward
 - Propose addition of FTE & System
- Operations Center Needs Expansion
 - Second location North Shore??
- Equipment Rental Division Not in Presentation
 - Needs are just as important

Public Works

Big Picture Thoughts

REPRESENTATIVE QUOTES

- "Preventative Maintenance has been sacrificed through the years..."
- Many areas of Department are "managed chaos"
- "Don't forget with new bodies comes new vehicles, computers, etc."
- "GIS Support sorely needed in all Departments across the City..."
- "Can't take care of things when you're understaffed...can't do training because too busy to get training"