



City Council Meeting Schedule September 2020

City Council passed Resolution 20-08 on June 23, 2020, which temporarily designates the location for regular, special and study session meetings to the virtual location until Benton County enters into Phase Three of the Governor's Safe Start Reopening Plan. The City broadcasts City Council meetings on the City's website <https://www.go2kennewick.com/CouncilMeetingBroadcasts>.

September 1, 2020

Tuesday, 6:30 p.m.

REGULAR COUNCIL MEETING

September 8, 2020

Tuesday, 6:30 p.m.

WORKSHOP MEETING (the workshop meeting will be done via Zoom and broadcast on the City's website <https://www.go2kennewick.com/CouncilMeetingBroadcasts>)

1. WWTP Phase II Update
2. Capital Improvement Plan Update
3. City Attorney's Office Annual Update
4. Closed Session RCW 42.30.140(4)(b) Collective Bargaining beginning immediately at the conclusion of the workshop

September 15, 2020

Tuesday, 6:30 p.m.

REGULAR COUNCIL MEETING

September 22, 2020

Tuesday, 6:30 p.m.

EXECUTIVE SESSION pending litigation (30 minutes)

WORKSHOP MEETING (the workshop meeting will be done via Zoom and broadcast on the City's website <https://www.go2kennewick.com/CouncilMeetingBroadcasts>)

1. Water & Sewer Rate Study Update
2. Council Sub-Committees
3. 2021/2022 Budget Assumptions

September 29, 2020

Tuesday, 6:30 p.m.

NO MEETING SCHEDULED

To assure disabled persons the opportunity to participate in or benefit from City services, please provide twenty-four (24) hour advance notice for additional arrangements to reasonably accommodate special needs.

Please be advised that all Kennewick City Council Meetings are Audio and Video Taped

Council Workshop Coversheet



Agenda Item Number	1.	Meeting Date	09/08/2020
Agenda Item Type	Presentation		
Subject	WWTP Phase II Update		
Ordinance/Reso #		Contract #	
Project #		Permit #	
Department	Public Works		

Info Only	<input checked="" type="checkbox"/>
Policy Review	<input type="checkbox"/>
Policy DevMnt	<input type="checkbox"/>
Other	<input type="checkbox"/>

Summary

The Utility Services Division of Public Works will be providing an update to the Wastewater Treatment Plant Phase II Upgrade. This update will explain the current Facility Plan Upgrade and an alternate Biosolids Management option (Florida Green)

Through	John Cowling Sep 03, 17:00:04 GMT-0700 2020	Attachments: Presentation
Dept Head Approval	Cary Roe Sep 03, 17:02:20 GMT-0700 2020	
City Mgr Approval	Marie Mosley Sep 03, 20:22:09 GMT-0700 2020	

Wastewater Treatment Plant Upgrade Council Workshop Update

September 8, 2020

Cary M. Roe, PE, Public Works Director

John A. Cowling, PE, Utility Services Manager

Ted Merrell, Vice President, Co-Owner, Merrell Brothers



Wastewater Treatment Plant Upgrade

- Background

- In 2015 the City completed the Wastewater Treatment Plant Facility Plan
- Goals of the plan included:
 - Updating flow and load projections through 2034
 - Evaluation of major unit processes
 - Development of alternatives to address critical needs
 - Preparation of a phased capital improvement plan



- The plan proposed four phases of improvements to retain adequate treatment capacity, maintain reliable operation and satisfy known permit conditions. The phases were spread out over 10 to 20 years



Wastewater Treatment Plant Upgrade

Current Facility Plan Phases

Phase I (Complete)

- Replace Ultraviolet (UV) Disinfection System, generator, headworks bypass, Aerated Sludge Lagoon lift station.

Phase II (Next)

- Waste activated sludge thickening and anaerobic digestion
- Mechanical dewatering of digested solids

Phase III

- Grit removal
- New concrete aeration basins with fine bubble aeration

Phase IV

- Green houses (Class A biosolids)



Wastewater Treatment Plant Upgrade

- Facility Plan Phase II
 - *WWTP Facility plan proposed anaerobic digestion to process biosolids*
 - *addresses current odor issues*
 - *more predictable processing*
 - *produces Class B biosolids*
 - *Class B biosolids have limited land applications available due to the presence of detectable pathogens.*
 - *The City currently processes biosolids after lagoon dredging / de-watering and land applies them at Natural Selection Farms*
 - *Management of Class B biosolids has an ongoing contracted cost of ~2.5 Million every 3-4 years.*



Anaerobic Digester



Natural Selection Farms



Wastewater Treatment Plant Upgrade

- Florida Green Concept
 - *Merrell Brothers, an expert in biosolids management developed/patented this process and opened the first plant of it's type in the country in Pasco County, Florida*
 - *This process has the potential of significant cost savings to produce Class A biosolids when compared to the current Facility Plan*

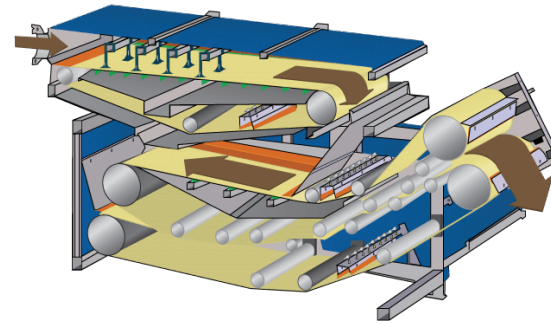


Merrell Brother Biosolids Plant, Pasco County, FL

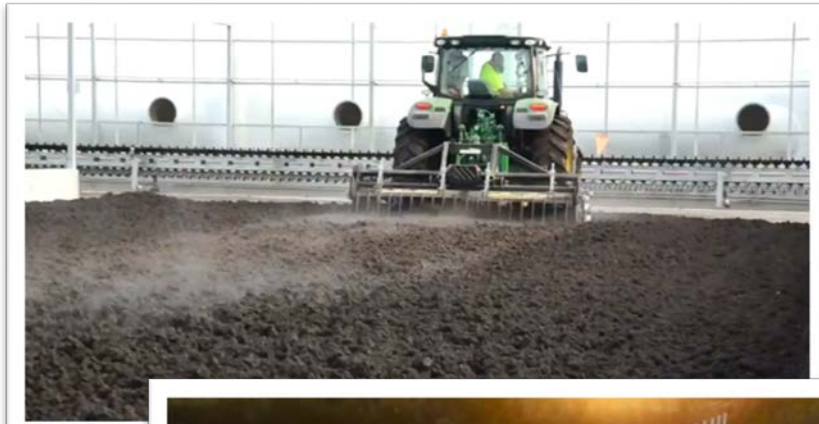


Wastewater Treatment Plant Upgrade

- How it works:
 - *Step 1: WWTP Sludge is dewatered by belt filter press to achieve ~20% solids*



Step 1



- *Step 2: Dewatered biosolids are spread in a greenhouse for pre-drying to achieve ~60% solids through evaporation by solar heat, tilling and air circulation*

Step 2



- *Step 3: Air is moved through the greenhouse and is scrubbed through an activated carbon filter to emit odor free air*

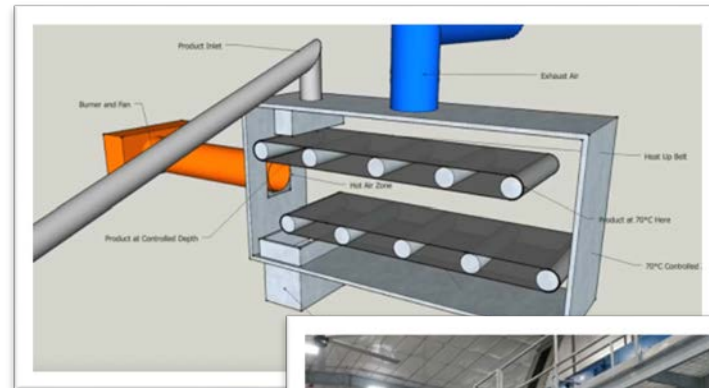
Step 3



Wastewater Treatment Plant Upgrade

- How it works:

- Step 4: Biosolids are transferred from the greenhouses to a day hopper and finally a thermal dryer. The thermal dryer is designed to meet EPA regulation for pasteurization of 70°C (158°F) for 30 minutes.



Step 4



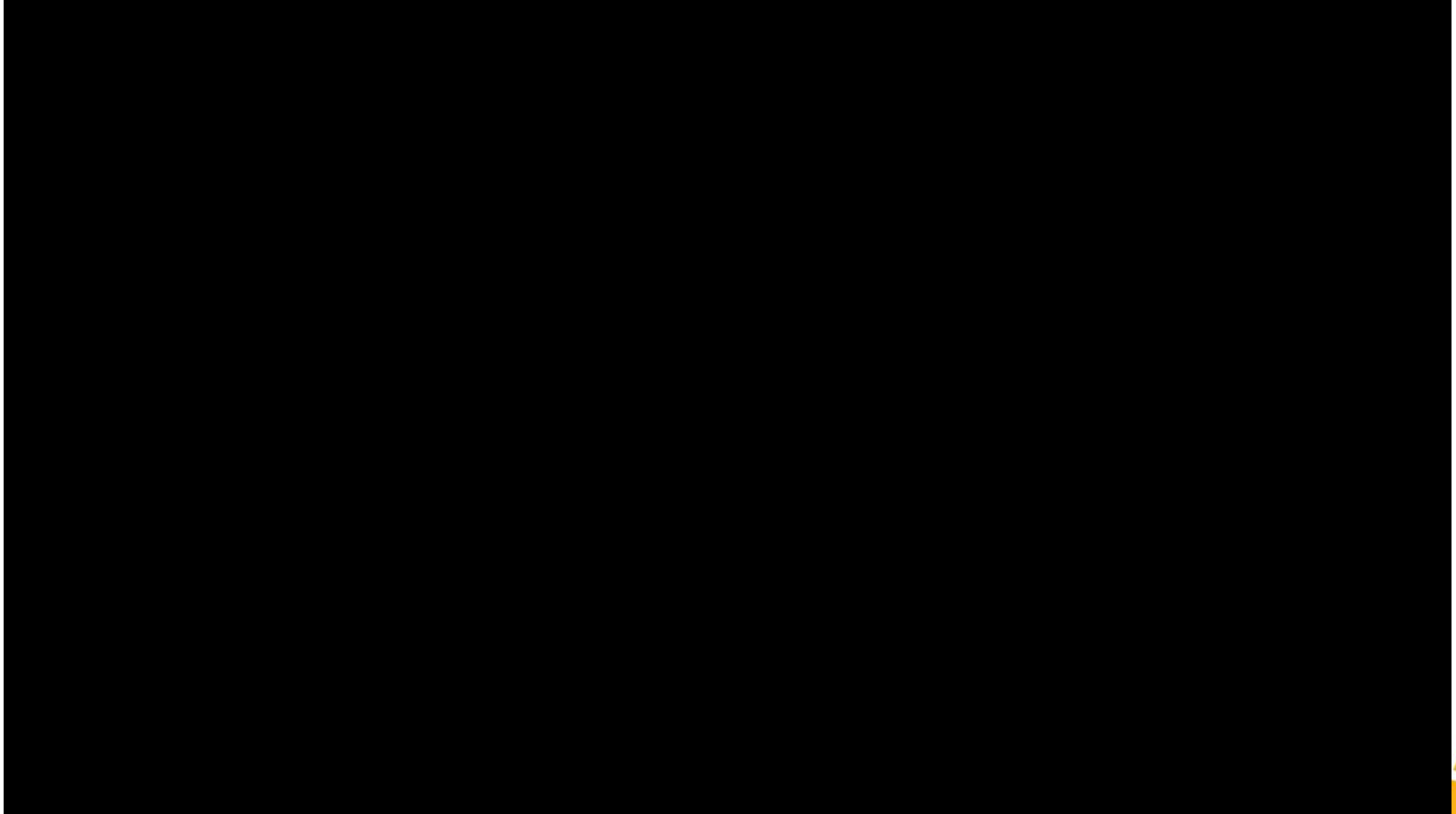
Step 5

- Step 5: Final product is Class "A" biosolids that do not have the same use or application restrictions as Class "B" due to pathogen reduction
- Class A can be used as fertilizer for crops.



Wastewater Treatment Plant Upgrade

- How it works:
 - The Process & The Science



Wastewater Treatment Plant Upgrade

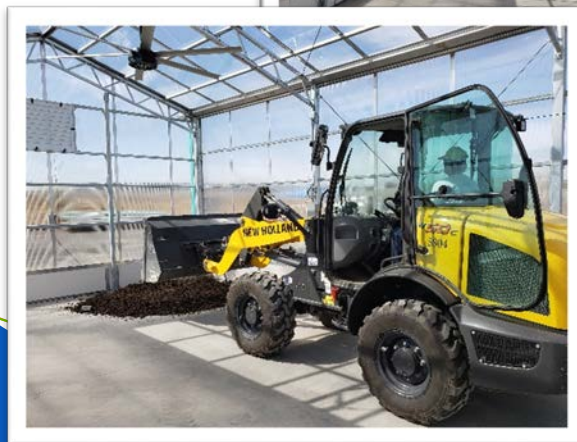
Portable Belt Press

- Current Status:

- *The City in coordination with Merrell Brothers completed a pilot study to validate how the process works in Kennewick climate (summer & winter)*



Temporary Greenhouse



- *The pilot project consisted of the following:*
 - *Portable belt pressing*
 - *Construction of a temporary greenhouse and air scrubber*
 - *Drying and tilling of solids until 60% solids achieved*
 - *Shipping biosolids to FL for pasteurization in a belt dryer*
 - *Final Class A biosolids shipped back to Kennewick for testing and evaluation*



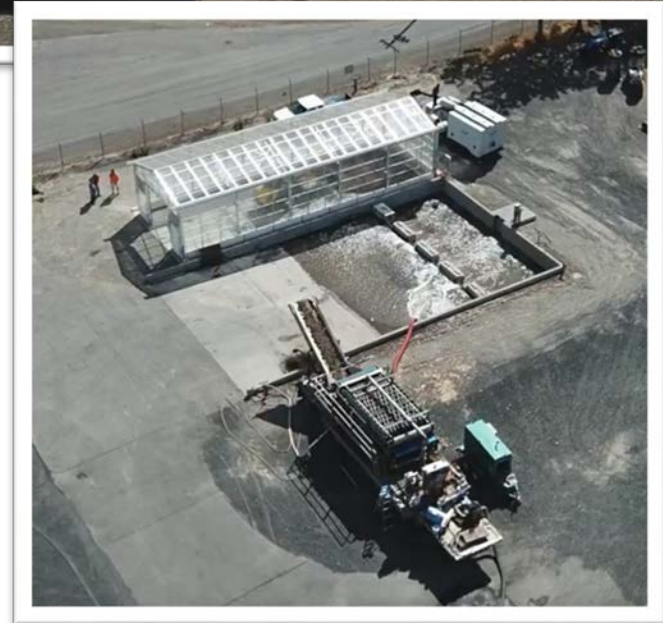
KENNEWICK
WASHINGTON

Wastewater Treatment Plant Upgrade

- Current Status:

- *Seasonal pilot studies were completed*
 - *Summer – complete (Aug/Sept 2019)*
 - *Winter – (Jan/Feb 2020)*
- *Pilot studies were successful. Dry time was longer in the winter months which indicates the need for in floor heating in the greenhouse slabs for colder months.*
 - *The longer dry time in the winter will determine the sizing needs for the green houses to provide additional capacity.*

Portable Carbon Filter



Wastewater Treatment Plant Upgrade

- Current Status:

- The City and our consultant JUB Engineers have completed a Technical Memorandum looking at the Cost and Operational Comparison of Biosolids Management in the current Facility Plan and Florida Green
- Management options were ranked based on capital and operational cost, permit compliance, reliability, ability to expand, energy efficiency, odor potential, ease of operations and ease of disposal
- Based on these factors Florida Green ranked as the preferred method for biosolids management

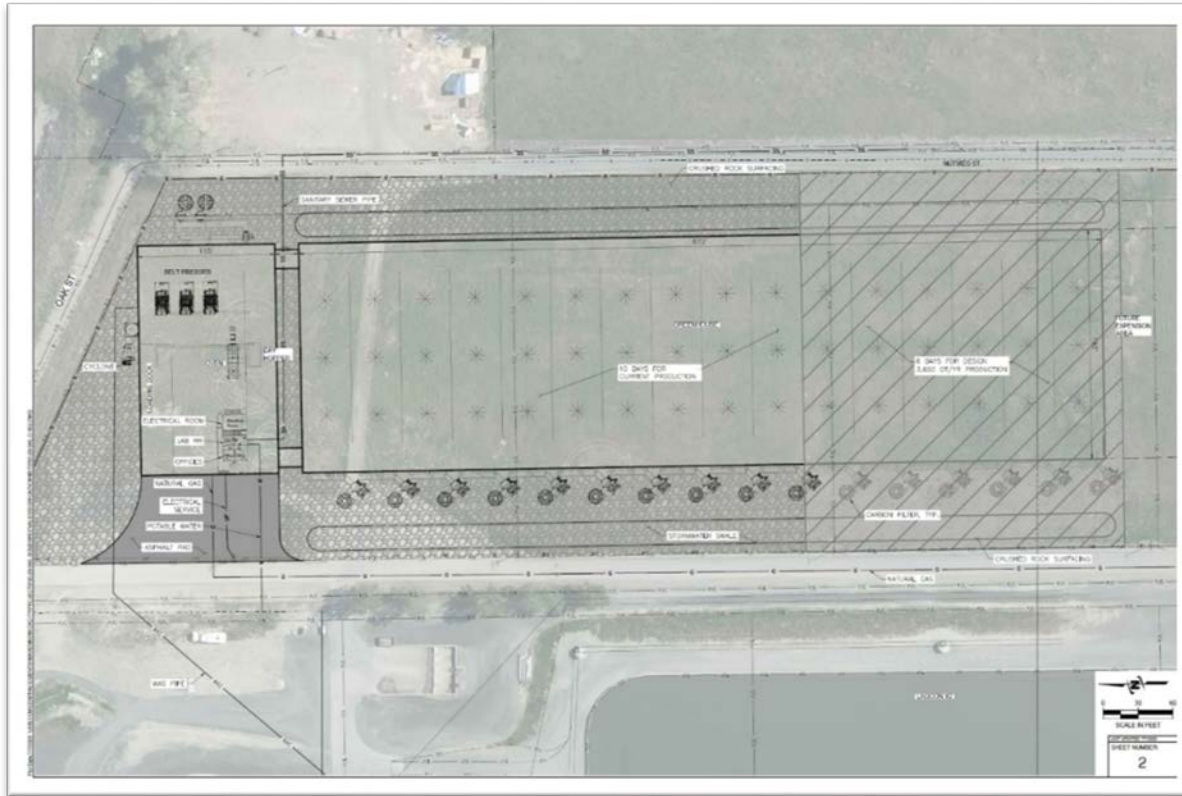
Component	Facility Plan		Cost, Millions, 2020	Florida Green	
	Phase 2 ^A	Phase 4 ^B		Component	Cost, Millions, 2020
Thickening, Digestion, Dewatering	\$16.22		\$18.74	Dewatering Unit Process	\$18.61
Contingency 30%	\$4.87		\$5.62	Solar Drying Greenhouses	
State Sales Tax	\$1.75		\$2.02	Thermal Drying Unit	
Design/CMS	\$4.22		\$4.87	Contingency 30%	\$5.58
Legal Administrative	\$0.21		\$0.24	State Sales Tax	\$1.54
Present Value of Annual Operating Cost	\$10.1		\$11.66	Design/CMS	\$3.14
PV of Disposal	\$ 3.1 ^C		\$3.54	Legal Administrative	\$0.19
Solar Dryers		\$6.17	\$7.13	Present Value of Annual Operating Cost	\$13.28
Contingency 30%		\$1.85	\$2.14	PV of Disposal	???
State Sales Tax		\$0.67	\$0.77		
Design/CMS		\$1.60	\$1.85		
Legal Administrative		\$0.08	\$0.09		
Present Value of Class A Disposal		\$0.46	\$0.53		
Present Value of Annual Operating Cost		\$3.15	\$3.64		
Phase Total		\$13.98	\$16.15		
Phase Total	\$40.43		\$43.69		
Total		\$54.41	\$62.84	Total	\$42.34

^A Facility Plan Table 7-14, Breakdown, with labor rate at \$60/hr
^B Facility Plan Table 7-18, Breakdown, with labor rate at \$60/hr
^C Present value cost of Class B disposal assuming Phase 4 construction in 2034.



Wastewater Treatment Plant Upgrade

- Current Status:



- Highlights of the comparison:

- Cost savings of ~20 Million to produce Class A Biosolids
- Ease of ability to expand (only additional greenhouse space needed)
- Ease of operations (not complicated for staff)



Wastewater Treatment Plant Upgrade

- Questions
- Summary
- Recommendation – Florida Green
- Next Steps:
 - *Design of the selected upgrade – 2021*
 - *Funded with SRF Loan*
 - *Construction – 2022/2023*



Council Workshop Coversheet



Agenda Item Number	2.	Meeting Date	09/08/2020
Agenda Item Type	Presentation		
Subject	Capital Improvement Plan Update		
Ordinance/Reso #		Contract #	
Project #		Permit #	
Department	Public Works		

Info Only	<input checked="" type="checkbox"/>
Policy Review	<input type="checkbox"/>
Policy DevMnt	<input type="checkbox"/>
Other	<input type="checkbox"/>

Summary

The Utility Services Division of Public Works will be providing an update of future Capital Water and Sewer Projects. This update will cover needed projects due to deferred maintenance and capacity expansions.

Through	John Cowling Sep 03, 17:02:37 GMT-0700 2020	Attachments: <input type="text" value="Presentation"/>
Dept Head Approval	Cary Roe Sep 03, 17:04:12 GMT-0700 2020	
City Mgr Approval	Marie Mosley Sep 03, 20:24:37 GMT-0700 2020	



Kennewick Public Works Department Utility Services Capital Projects Update

Council Workshop - September 8, 2020

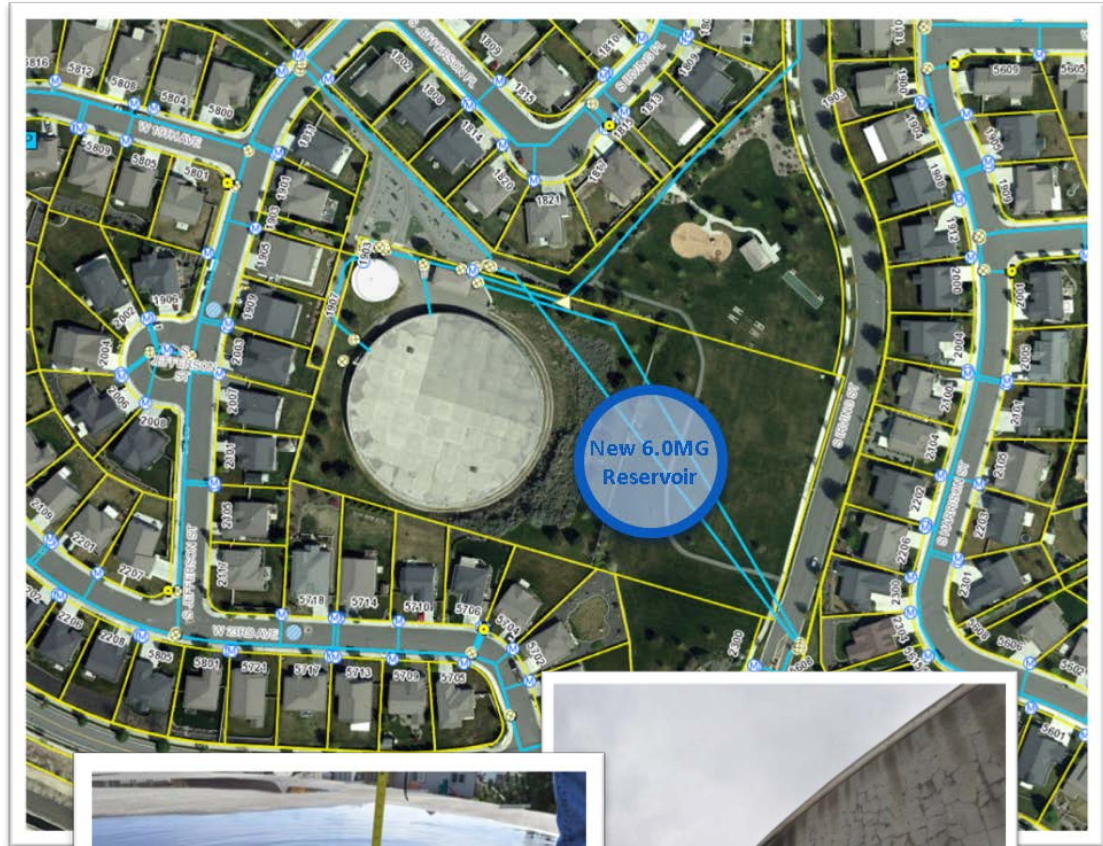
Public Works Director
Cary M. Roe P.E.



Water /Sewer CIP Projects – 2020 - 2021

18th & Kellogg Reservoir Replacement

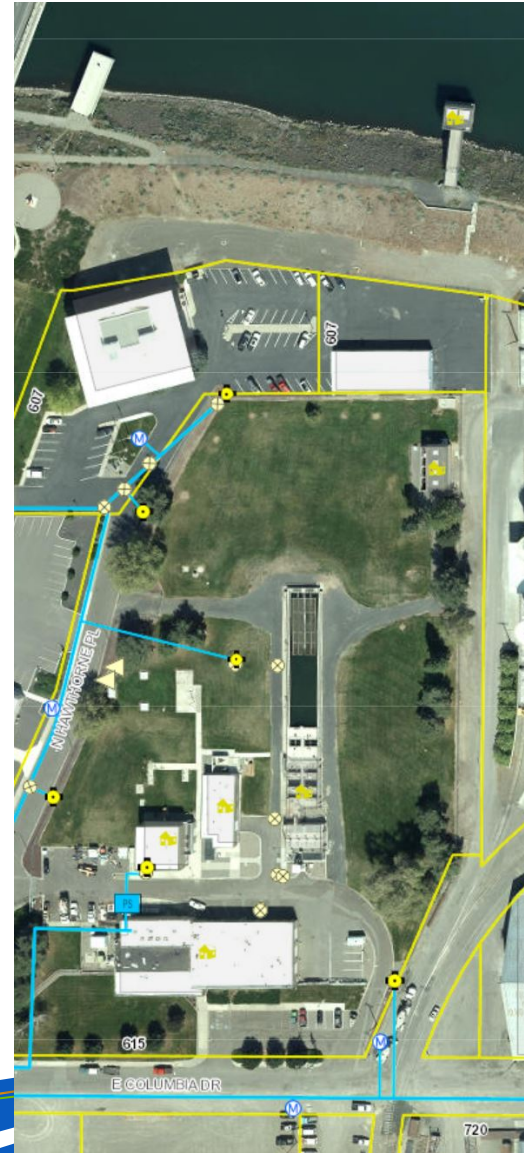
- Replace structurally deficient 10 MG reservoir with new 6 MG reservoir and booster pump station with provisions for a second future twin reservoir for capacity and redundancy.
- Construction occurring while existing reservoir is in service followed by demolition of the existing reservoir
- Construction 2020-2022
 - (18-24 months)
- Construction cost:
 - \$15,079,561



Water/Sewer CIP Projects – Future

Water Treatment Plant Repairs and Improvements

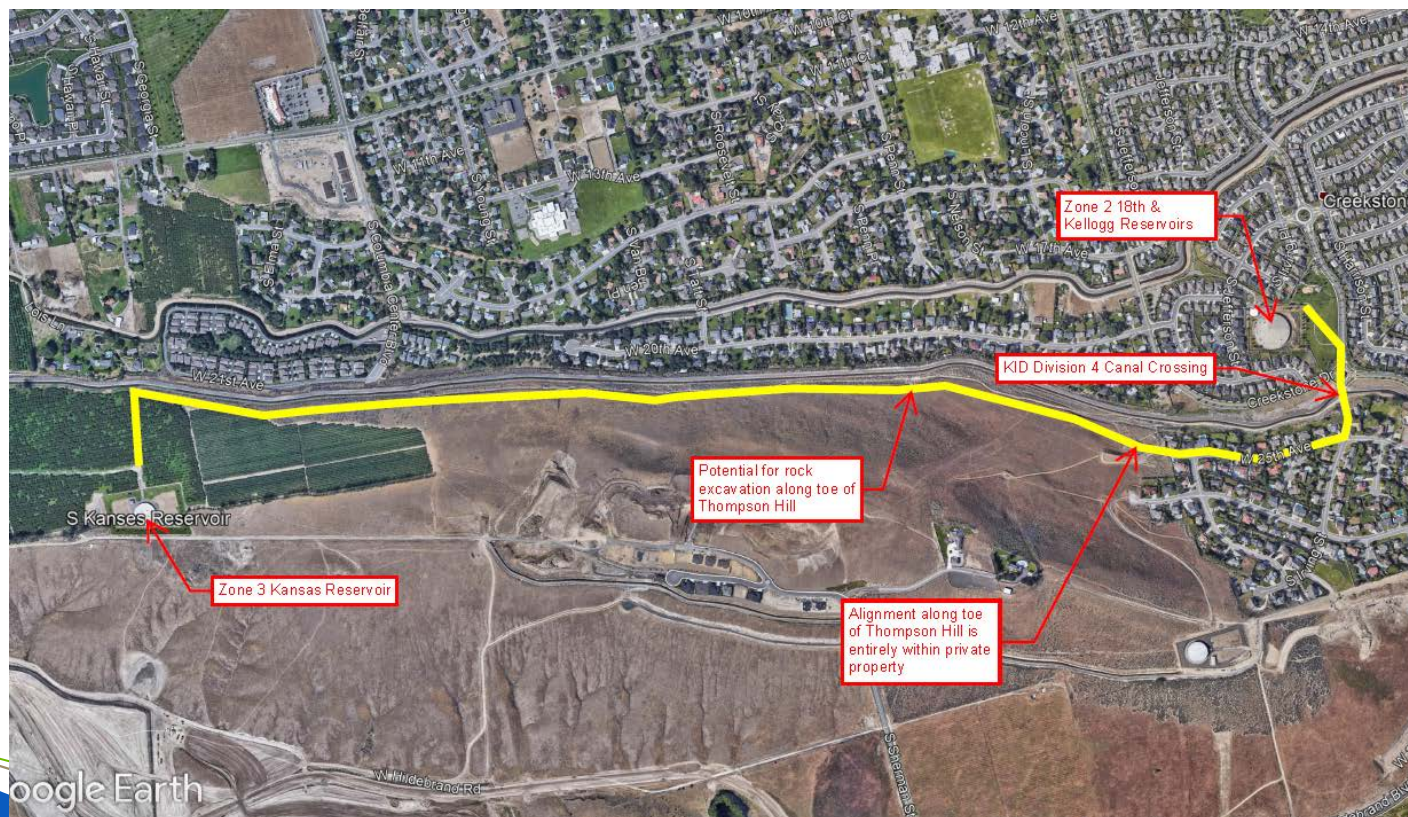
- Replace Membranes and coat membrane filtration basins
- Replace leaking Sodium Hypochlorite Tanks (4)
- Replace Aging chemical systems and feed pumps
- Replace existing surge tank (designed for 5MGD capacity) severely undersized for today's capacity
- Upgrade aging sludge collection system
- Estimate Cost \$4,075,000



Water/Sewer CIP Projects – Future

Zone 3 West Transmission Main

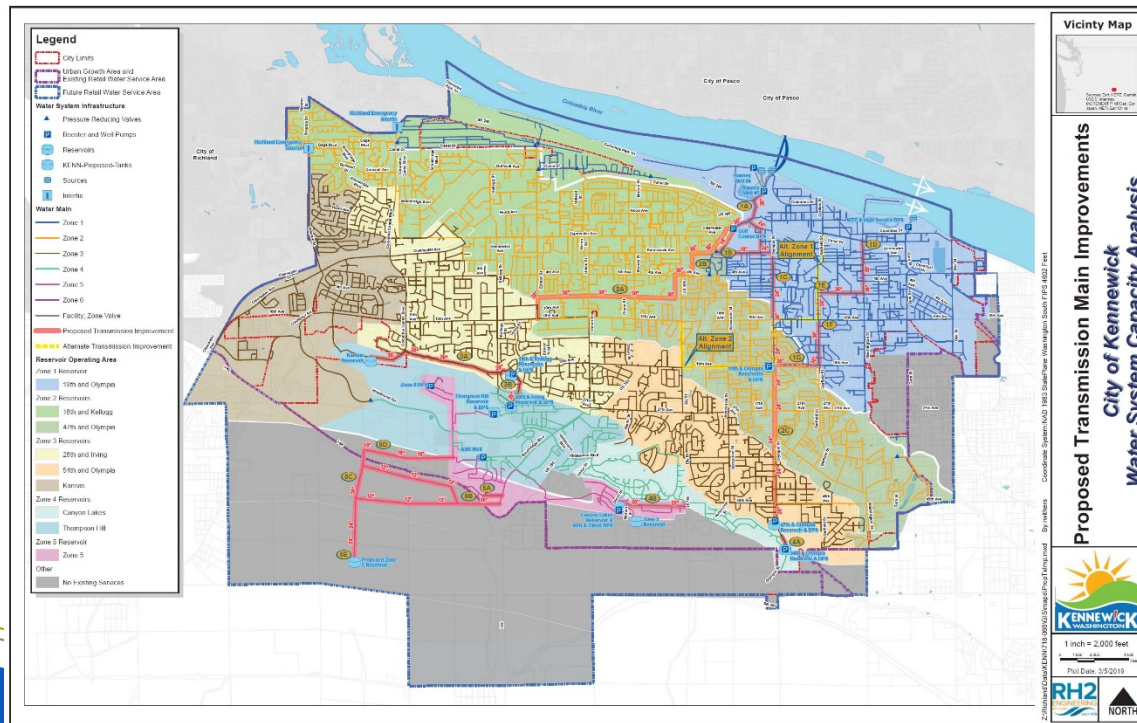
- The Zone 3 West Transmission Main project will construct a dedicated 20" water main between the new booster pump station at 18th and Kellogg to the Kansas Reservoir.
- The City hired HDR to perform an alignment study to assess the best route between the new pump station and the existing Kansas reservoir. Below is the preferred alignment.
- Design planned for 2020/2021 with Construction in 2022
- Estimated Construction Cost: \$4,821,527



Water/Sewer CIP Projects – Future

Transmission Mains and Pump Station Upgrades

- Zone 1 RC 5 Transmission Main – Estimated cost \$1,155,000
- Zone 1 Transmission Main Phase 1 thru 4 – Estimated cost \$8,239,000
- Zone 1 Golf Course Pump Station Transmission Main - \$460,000
- Zone 1 Transmission Main Phase 2 – Estimated cost \$2,782,000
- Zone 2 East Olympia Transmission Main – Estimated cost \$2,568,000
- Zone 3 West Transmission Main – Estimated cost \$963,000
- Zone 4 East Transmission Main – Estimated cost \$963,000
- Pump Station Capacity Upgrades and Surge Mitigation - \$7,900,000



Water/Sewer CIP Projects – Future

Reservoir Repairs

- 47th and Olympia Reservoir Repairs - Estimated cost \$100,000
- 19th and Olympia Reservoir Repairs - Estimated cost \$200,000
- Irving Reservoir Repairs - Estimated cost \$165,000



Water/Sewer CIP Projects – Future

Zone 1 PRV Replacement

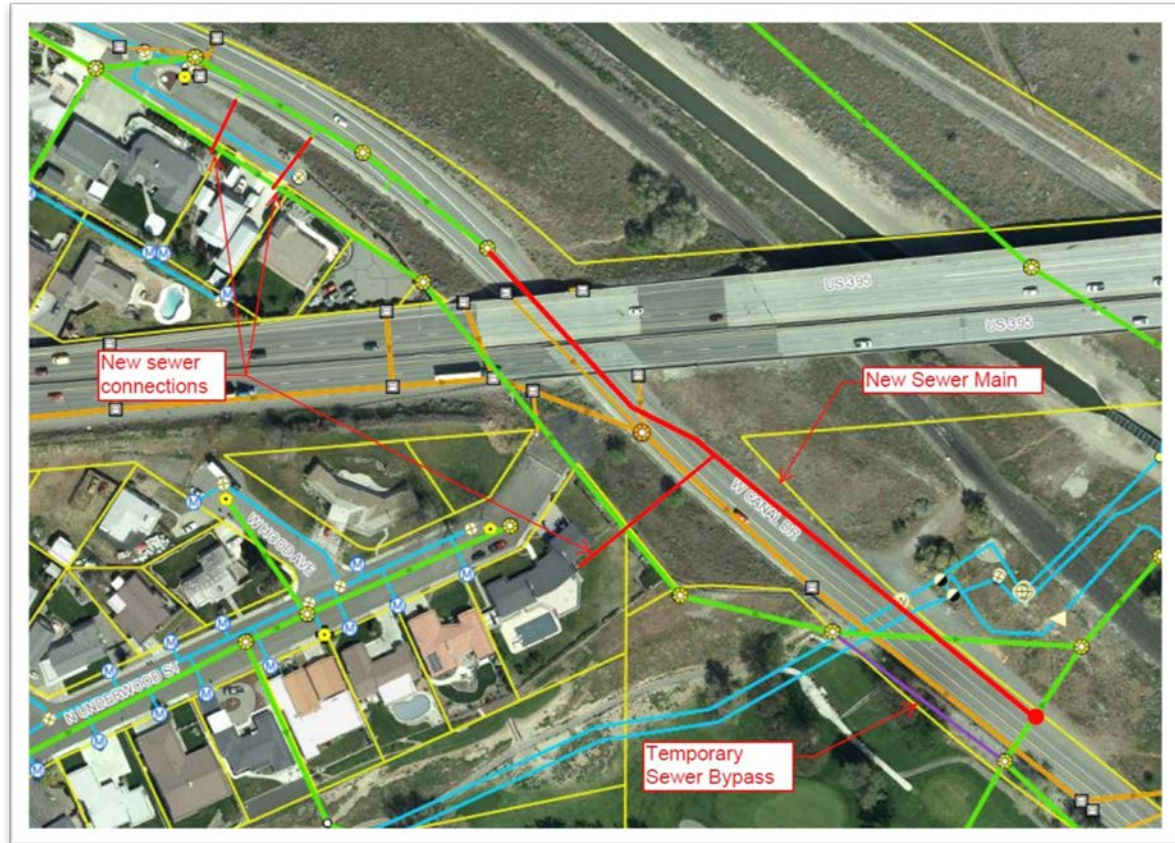
- Replace existing Pressure Reducing Valve and vault for the Zone 1 - 36th Ave. PRV Station.
- Estimate Cost \$150,000



Water/Sewer CIP Projects – Future

Canal Drive Sewer Replacement

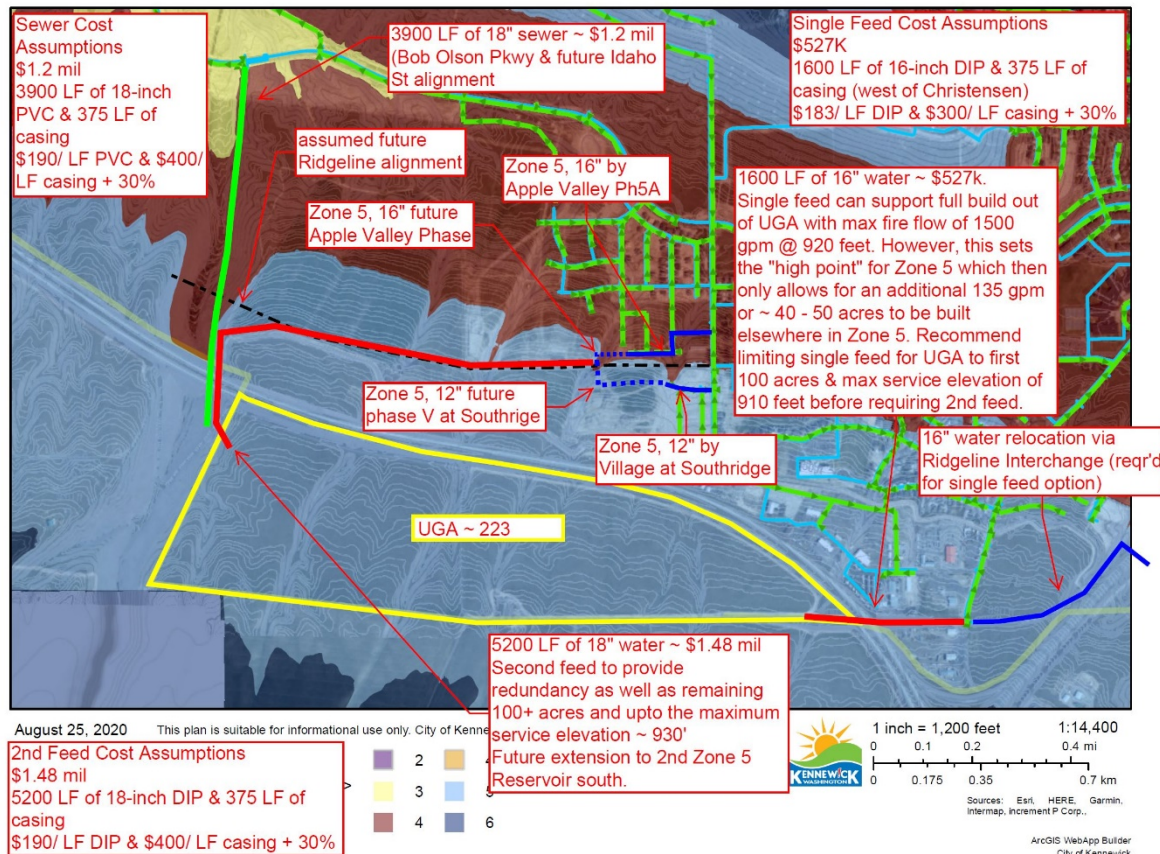
- Installation of a new 12-inch dia. sewer line down Canal Drive from the US 395 bridge 600 LF eastward to replace failing concrete line on the south side of roadway.
- Emergency repairs were completed last December 2019, enabling this project to be de-escalated in priority.
- Currently in design phase.
- Estimated construction is in 2021
- Estimated Construction Cost: \$363,870



Water/Sewer CIP Projects – Future

UGA Expansion – Water and Sewer

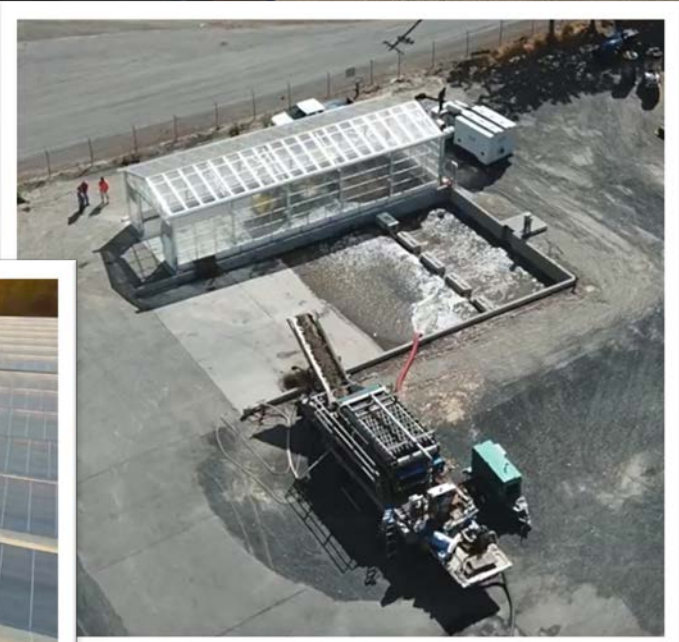
- Both water and sewer require borings under I-82 to provide utilities to the proposed UGA expansion area
- Requires working with undeveloped land and development for future alignments
- Estimated cost – Water & Sewer - \$3,960,000



Water/Sewer CIP Projects – Future

Wastewater Treatment Plant Upgrade

- Biosolids Management
 - Project improves how biosolids are managed resulting in Class A biosolids.
 - Eliminates Odor concerns
 - Eliminates ongoing dredging/dewatering and land application of Class B biosolids
 - Estimated Cost - \$28,870,000



Questions?



**Council Workshop
Coversheet**



Agenda Item Number	3.	Meeting Date	09/08/2020
Agenda Item Type	Presentation		
Subject	City Attorney's Office Annual Update		
Ordinance/Reso #		Contract #	
Project #		Permit #	
Department	City Attorney		

Info Only	<input checked="" type="checkbox"/>
Policy Review	<input type="checkbox"/>
Policy DevMnt	<input type="checkbox"/>
Other	<input type="checkbox"/>

Summary

As a part of the biennial budget process, the City Attorney's office has prepared the attached presentation which describes the scope and complexity of the office, the services provided, and some of the outcomes for 2019.

Through	Selena Swearingen Sep 01, 15:03:49 GMT-0700 2020	Attachments: <input type="text" value="Presentation"/>
Dept Head Approval	Lisa Beaton Sep 01, 16:13:38 GMT-0700 2020	
City Mgr Approval	Marie Mosley Sep 03, 20:26:57 GMT-0700 2020	

2020 Report

City Attorney's Office

Lisa Beaton, City Attorney
Jessica Foltz, Assistant City Attorney II

September 8th, 2020

Who We Are

- Lisa Beaton, Kennewick City Attorney
 - Civil Division
 - Jessica Foltz, Assistant City Attorney
 - Selena Swearingen, Legal Assistant
 - Criminal Division
 - Laurencio Sanguino, Assistant City Attorney
 - Tyler Grandgeorge, Assistant City Attorney
 - Christina Perez, Legal Assistant
 - Bianca Orozco, Docket Clerk
 - Risk Management
 - Dan Lemieux, Risk Management Coordinator



What We Do-Civil Division

- Advice & Training to Council, City Manager, Department Heads, Contract Service Providers (Animal Control), and Staff;
 - 134 formal work orders completed in 2019.
(number does not include telephone or email consultations or advice)
- Contract Drafting and Review;
- Code Amendment Drafting and Review;
- Defend City in Administrative Appeals;
- Risk Management and Insurance Program;
- Public Records Act responses and review;
- Litigate Claims on Behalf of the City;
- Litigate Drug Asset Forfeiture Cases;
- Litigate Code Enforcement Cases & Judicial Abatement;



What We Do-Risk Management

- Processes Claims For and Against the City;
- Facilitates and Assists Insurance in Recovering Third Party Claims to Mitigate City's Capital Loss Due to Damage;
- Assists WCIA in Acquiring the Information They Require to Negotiate, Settle, or Litigate Liability Claims;

By The Numbers-2019 Stats

- ❖ Liability Claims: 41 Total Claims Filed
- ❖ Third Party Billing Claims: 40 Total Claims Billed for a Total of \$164,229.45
 - ❖ A total of \$137,634.41 was recovered for the City (84% success rate for recovered claims)
 - ❖ 11 Claims remain pending resolution



What We Do-Criminal Division

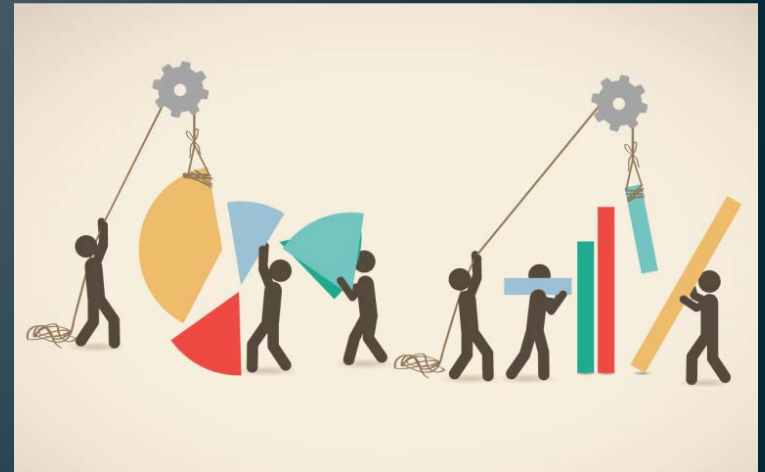
- Criminal Prosecution of Adult Misdemeanors and Gross Misdemeanors;
- Criminal Prosecution of Juveniles 16 years or older for Traffic Offenses;
- Contested Traffic Infractions for citizens 16 years or older;
- Barking Dog Cases Initiated by Citizens;
- Advise KPD on Charging and Legal Matters;
- Criminal Case Screenings;
- Case Settlement & Negotiation;
- All Pre-Trial, Trial, and Appeals Court Appearances for Criminal Causes;
 - Assistant City Attorneys appear in court 4-5 days a week and handle hundreds of cases a week.



Statistical Data Compilation

Criminal Division

- Statistics are compiled for cases that were entered into our internal case management system and acquired from Benton County District Court (BCDC) between January 1, 2019 through December 31, 2019
- These numbers may differ from KPD or BCDC statistics based on factors used to track the statistic.
- Some statistics have a footnote to explain variables in the statistic that could affect accuracy.



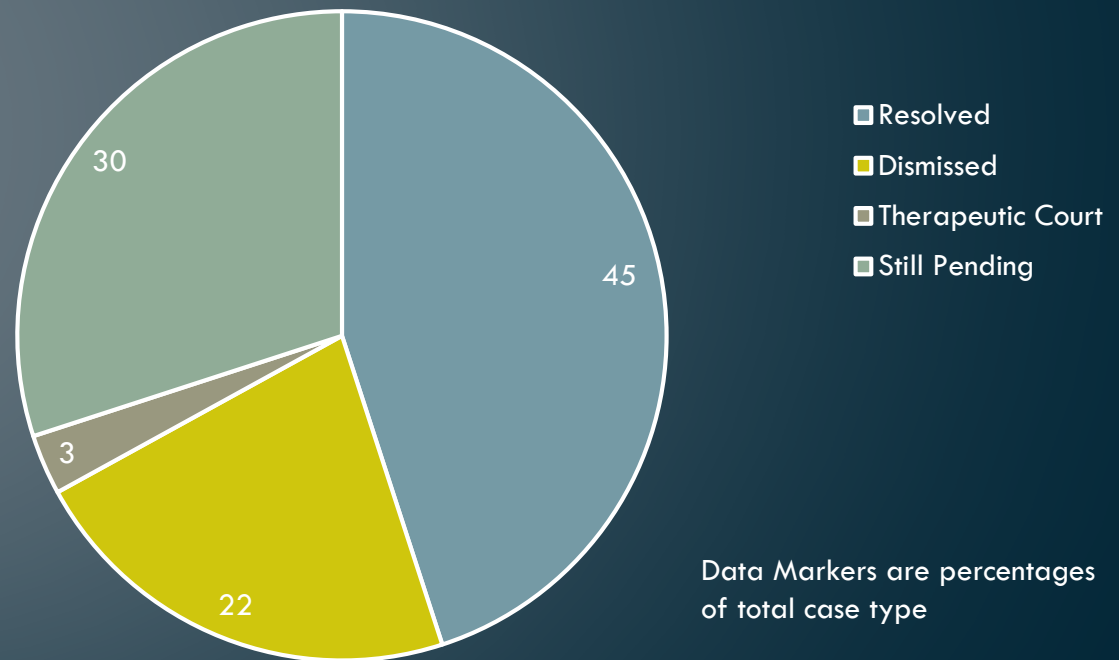
Criminal Division Statistics

Statistic	Total Number
Criminal Cases Filed in BCDC for Kennewick	3,587
Criminal Case Files Opened in the City Attorney's Office	2,820 (79%)
Pre-Trials/Sentencings/Other Hearings	16,707
Trial Readiness & Bench Trial Hearings	440
Jury Trials Called Ready	29
Calendared Witness Interviews*	103
Weapon & Property Forfeiture Hearings	15
Barking Dog Complaints Received in City Attorney's Office	32
Barking Dog Complaints Resulting in Infractions Filed	10
Screening Decisions Made**	1,007
Infraction Cases Filed in BCDC for Kennewick	13,029
Contested Hearings Held for Kennewick Cases	2,892 (22%)

Not all requests result in calendaring. Hundreds of additional calls are made and letters are sent out annually in attempts to make contact with uncooperative victims or witnesses. **KPD lost some date due to a technical issue for about a 2 month period. On average that is an additional 200-250 cases not included in the above number.*

CRIME SPECIFIC DATA – DV Related

- Assault and Assault-DV Total # 291
- Violation of NCO – many are DV Total # 148
- Harassment and Cyberstalking Total # 29



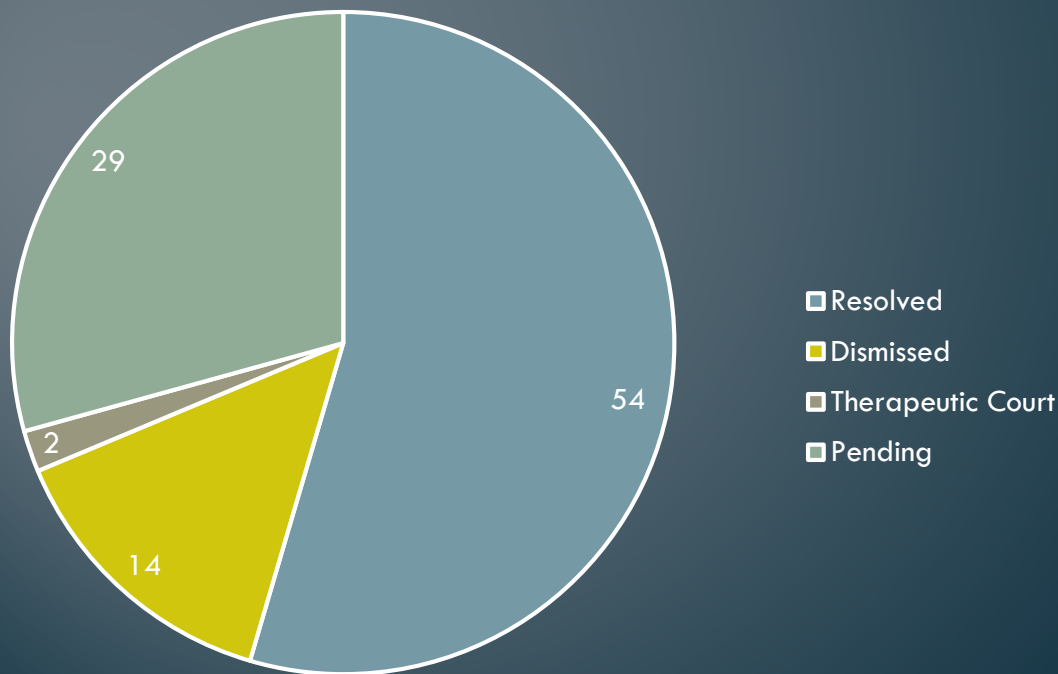
CRIME SPECIFIC DATA – Property Related

- Theft /Vehicle Prowl
- Destruction of Property
- Hit and Run

Total # 460

Total # 96

Total # 72



Data Markers are percentages of total case type

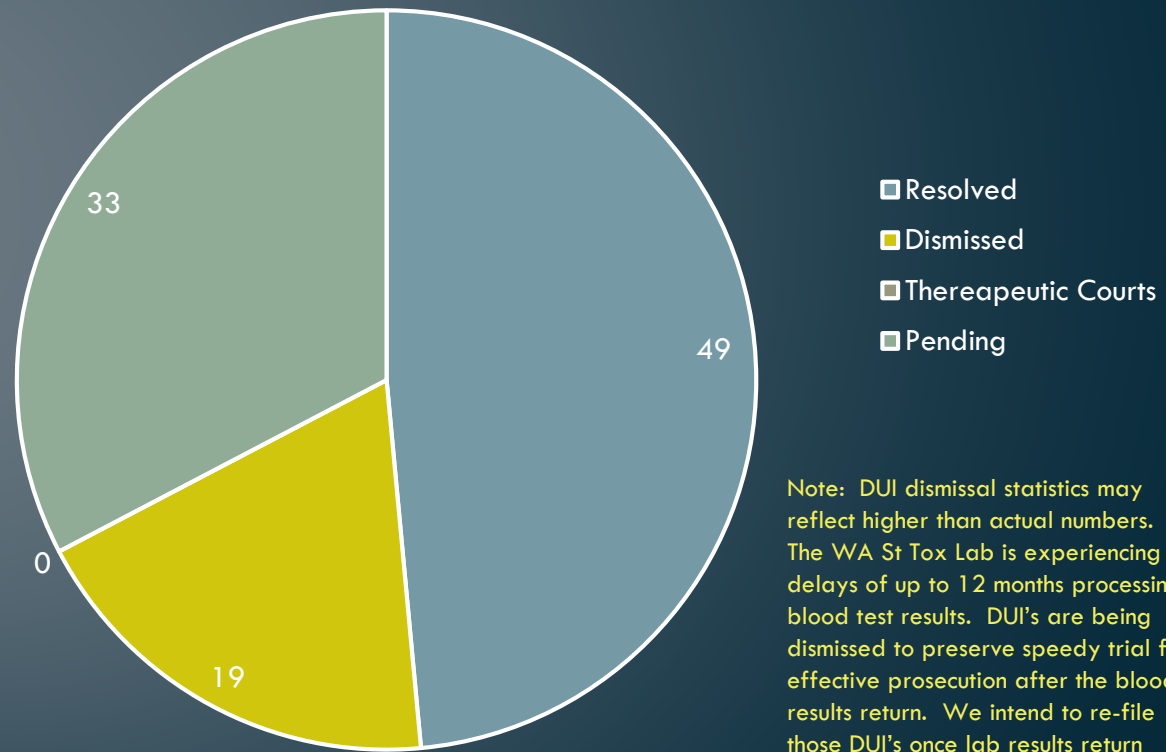


CRIME SPECIFIC DATA – Driving: Alcohol Related

• DUI & NEG DRIVING 1ST

Total # 135

- Due to a 10-12 month backlog at the Washington State Toxicology Lab where blood is tested, some of these may be dismissed and refiled in another statistical year for final prosecution.



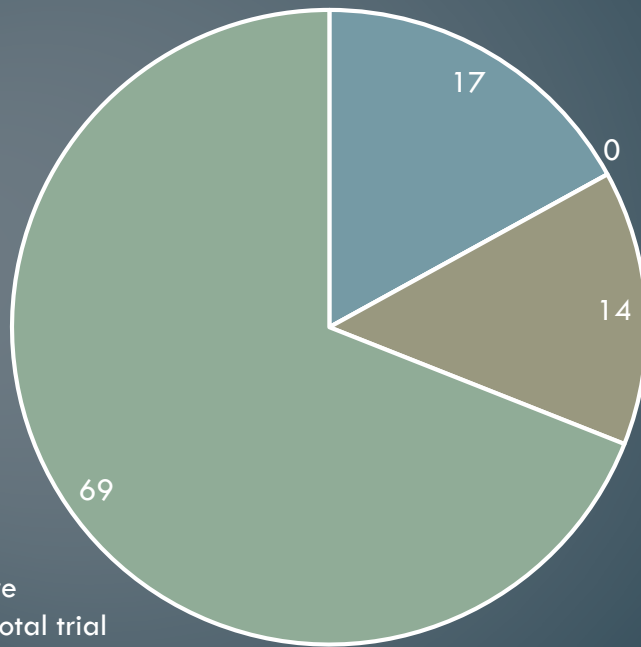
Note: DUI dismissal statistics may reflect higher than actual numbers. The WA St Tox Lab is experiencing delays of up to 12 months processing blood test results. DUI's are being dismissed to preserve speedy trial for effective prosecution after the blood results return. We intend to re-file those DUI's once lab results return positive-many in different statistical reporting years.

Data Markers are percentages of total case type



Jury Trial Overview

Outcomes-29 Called Ready for Trial



Data Markers are percentages of total trial called ready

- Resolved Prior to Trial Commencing
- FTA at Trial-Warrant Issued
- Continued & Reset for Trial
- Verdict Rendered After Trial



Questions?





City Council Meeting Schedule October 2020

City Council passed Resolution 20-08 on June 23, 2020, which temporarily designates the location for regular, special and study session meetings to the virtual location until Benton County enters into Phase Three of the Governor's Safe Start Reopening Plan. The City broadcasts City Council meetings on the City's website <https://www.go2kennewick.com/CouncilMeetingBroadcasts>.

October 6, 2020
Tuesday, 6:30 p.m. REGULAR COUNCIL MEETING

October 13, 2020
Tuesday, 6:30 p.m. WORKSHOP MEETING (the workshop meeting will be done via Zoom and broadcast on the City's website <https://www.go2kennewick.com/CouncilMeetingBroadcasts>)

1. Animal Shelter Update
2. Ethics Code Amendments

October 20, 2020
Tuesday, 6:30 p.m. REGULAR COUNCIL MEETING

October 27, 2020
Tuesday, 6:30 p.m. WORKSHOP MEETING (the workshop meeting will be done via Zoom and broadcast on the City's website <https://www.go2kennewick.com/CouncilMeetingBroadcasts>)

1. 2021/2022 Proposed Budget

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