CITY OF ELLENSBURG
AGENDA
Council Conference
Thursday, May 20, 2021
3:30 PM - Utility Advisory Committee

1. CALL TO ORDER

2. ROLL CALL

3. APPROVAL OF MINUTES

3.A Approve minutes - April 15th, 2021 regular meeting minutes
UAC Minutes 4-15-21.docx

4. APPROVAL OF CONSENT AGENDA

Consent items have been distributed to committee members in advance for study and will be enacted by one motion. If separate discussion is desired on an item, that item may be removed from the Consent Agenda and placed on the Regular Agenda at the request of a committee member or at the request of a member of the public with concurrence of a committee member.

4.A Project Acceptance - Bid Call 2020-28 Ridgeview Lane Sewer Main Extension

5. CORRESPONDENCE AND CITIZEN COMMENTS ON NON-AGENDA ITEMS

Time is set aside each meeting to allow citizens to address the Utility Advisory Committee on city utility issues that are not on the agenda. Please limit remarks to three minutes. The Committee will not take action when the issue is first raised, but may place the issue on a future agenda. Citizen comment on items on the agenda is also welcome. Please let the chair know you wish to speak and then wait to be recognized.

6. TELECOMMUNICATIONS UTILITY DISCUSSION ITEMS

7. ELECTRIC, NATURAL GAS, WATER, WASTEWATER, STORMWATER UTILITY DISCUSSION ITEMS

8. INFORMATION ONLY ITEMS

8.A Stormwater Management Plan update 2020-2021.Â Â
2020-2021 swmp.docx

8.B City Gas Division is a recipient of the System Operational Achievement Recognition (SOAR) award.
SOAR - Press Release - 2021.pdf

8.C Public Works & Utilities Issues and Updates
UAC May 2021 Public Works & Utilities Issues Update.docx

9. NEXT MEETING

9.A June17th, 2021 at 3:30 pm

10. ADJOURNMENT

CITY OF ELLENSBURG **Utility Advisory Committee**

Date of Meeting **April 15, 2021**
Time of Meeting **3:30 PM**
Place of Meeting **Virtual Conference**

Nancy Lillquist, Chairperson, term expires May 31, 2022
Ed Barry, Vice Chairperson, term expires May 31, 2023
Nancy Goodloe, City Council, term expires May 31, 2021
Gary Gleason, CWU, term expires May 31, 2022
Bob Johnson, KITTCOM, term expires May 31, 2023
Jim Goeben, Telecommunications Utility customer, term expires May 31, 2023
Nate Sitton, City Utility Customer, term expires May 31, 2023

1. CALL TO ORDER

Chair Lillquist called the meeting to order at 3:30 pm.

2. ROLL CALL

Members present: Nancy Lillquist, Chair; Ed Barry, Vice Chair; Nancy Goodloe, City Council; Gary Gleason, CWU; Jim Goeben, Telecomm; Bob Johnson, Telecomm; Nate Sitton, City Utility Customer.

Also present: Ryan Lyyski, Public Works & Utilities Director; Kim Caulkins, Operations Analyst; Buddy Stanavich, Power & Gas Manager; Darren Larsen, Assistant Utilities Director; Darin Yusi, Gas Engineer; Mike Helgeson, Assistant PW Director; Derek Mayo, Engineering Manager; Ben Faubion, IT & Telecomm Manager; Margaret Reich, CenterFuse; Andrew Lyons, HopeSource; Bryan Clark, Kittcom.

3. APPROVAL OF MINUTES

3.A. Approve minutes - March 18th, 2021 regular meeting minutes

Barry moved to approve the minutes. Goodloe seconded. All in favor; **motion approved.**

4. APPROVAL OF CONSENT AGENDA

Consent items have been distributed to committee members in advance for study and will be enacted by one motion. If separate discussion is desired on an item, that item may be removed from the Consent Agenda and placed on the Regular Agenda at the request of a committee member or at the request of a member of the public with concurrence of a committee member.

5. CORRESPONDENCE AND CITIZEN COMMENTS ON NON-AGENDA ITEMS

6. TELECOMMUNICATIONS UTILITY DISCUSSION ITEMS

6.A. Telecommunications Utility April Update

Ben Faubion presented a telecom update. After an extensive discussion around the City's strategic plan, it was decided that telecomm will hold another study session to create a draft report to be reviewed by the UAC before going to council.

7. ELECTRIC, NATURAL GAS, WATER, WASTEWATER, STORMWATER UTILITY DISCUSSION ITEMS

7.A. February sale of natural gas

Barry moved the committee make a favorable recommendation to City Council for proceeds to be returned to gas utility customers by dedicating half of the proceeds into stabilizing rates to prevent potential rate increases and half into a reserve to finance future capital Gas projects. Gleason seconded. All in favor; **motion approved.**

7.B. Spurling Court Solar Agreement with HopeSource

Goodloe moved the committee make a favorable recommendation allowing the City manager to sign the Implementation Agreement in the amount of $30,000 between the City of Ellensburg and HopeSource for a Renewable Energy System on Low-Income Housing and authorize signing the Match Commitment Letter. Forward a favorable recommendation to City Council authorizing a carry forward of the previously adopted 2019/20 biennium budget for this $30,000 project to the 2021/22 budget. Barry seconded. All in favor; **motion approved.**

8. INFORMATION ONLY ITEMS

8.A. Past Due Utility Accounts

Staff shared charts and graphs of past due utility accounts. Andrew Lyons mentioned HopeSource is currently setting up a program to disburse additional federal dollars received for low income utility customers.

8.B. March Groundwater Elevations

Mike Helgeson shared historic graphs of static water levels on City wells.

8.C. Public Works & Utilities Issues and Updates

Darren Larsen commented the Gas division will be replacing the rectifier anode at Walnut Street in 2021, instead of the projected 2023/2024 budget cycle. Mike Helgeson shared the water department finished their annual leak detection survey with less leaks found this year than last year.

9. NEXT MEETING

9.A. May 20th, 2021 at 3:30 pm

10. ADJOURNMENT

With no further discussion, the meeting adjourned at 5:20 pm.

Kim Caulkins

Recording Secretary
Drafted: 4/19/2021
Approved:

AGENDA REPORT

Meeting Date: May 20, 2021

Agenda Subject: Project Acceptance - Bid Call 2020-28 Ridgeview Lane Sewer Main Extension

Submitted by: Hunter Slyfield Public Works & Utilities

Recommended Action or Motion: Make a favorable recommendation to City Council to accept Bid Call 2020-28 as complete.

Background/Summary:

The construction of the Ridgeview Lane Sewer Main Extension is now complete and staff has recently received the necessary project closeout paperwork from the contractor.

Construction was completed in December 2020 and upon final TV inspection of the sewer main deficiencies were noted at nine pipe joint locations. The contractor elected to repair them internally by utilizing a cured in place liner at the location of each joint. After completion of repairs the sewer main was again TV inspected and passed.

Previous Council Action:

June 15th, 2020 Regular Council Meeting- Council authorized staff to design and build the Ridgeview Lane Sewer Main Extension and charge property owners their respective share of the main extension/connection fees as their properties are connected.

September 21st, 2020 Regular Council Meeting- Council awarded the above-mentioned project to Clearwater Contracting.

Analysis: The original contract amount bid for the project was $88,129.13, with the final contract amount of $96,159.57 being within the amount budgeted for the project.

Financial Impact: Funding for this project came from a carry forward from the

2020 Sewer Fund budget.

AGENDA REPORT

Meeting Date:	May 20, 2021
Agenda Subject:	Stormwater Management Plan update 2020-2021.
Submitted by:	Jon Morrow Public Works & Utilities
Recommended Action or Motion:	Approve Stormwater Management Plan update 2020-2021.
Background/Summary:	Annually the Stormwater Utility is required by the Department of Ecology to update it's management plan, approve at a public meeting and post on the City's website.
Previous Council Action:	Council has annually approved the plan on consent agenda through a favorable recommendation from the UAC. The plan is not required to be approved by both public meetings. Therefore, staff suggests future management plan updates will be approved by the UAC and no longer be sent to the City Council.
Analysis:	Annually the City is required to update the Stormwater Management Plan, upload to Ecology's Annual Report due March 31st of each year and be approved through a public process.
Financial Impact:	None

Attachments:
2020-2021 swmp.docx

City of Ellensburg

Stormwater Management Plan Update

2020/2021

Written by

Jon Morrow Stormwater Utility Manager

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Introduction:

NPDES Program Compliance:

A. Public Education and Outreach
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B. Post- Construction Stormwater Management for New Development and Re-Development
C. Illicit Discharge Detection and Elimination (IDDE)
D. Construction Site Stormwater Runoff Control
E. Public Involvement and Participation
F. Operation and Maintenance
G. S8 Monitoring and Assessment
H. Achievements and planned activities
   1. Gateway I, II Stormwater Retro-fit Projects Update
   2. Reecer/Currier Flood Project

I. S7 Compliance with (TMDL)
J. Operation and Maintenance Plan Update

Appendices: Stormwater Utility Budget

Introduction:

On January 17, 2007 the City of Ellensburg was issued an Eastern Washington Phase II Municipal Stormwater permit. In compliance with the provisions of the State of Washington Water Pollution Control Law, Chapter, 90.48 Revised Code of Washington and The Federal Water Pollution Control Act (The Clean Water Act), the City formed the Stormwater Utility in 2009.

The City of Ellensburg adopted ordinances, created a fee for equivalent residential units and hired the necessary staff to develop and implement programs aimed at complying with the permit. Those programs and projects are captured each year in the annual report to Ecology and Stormwater Management Plan (SWMP).

In addition to the NPDES Permit requirements, the City wrote its own Stormwater Operation and Maintenance (O&M) Plan in 2010 and updated it in 2017. The City trained all field staff from all departments on Best Management Practices and pollution prevention from 2010 to 2020 annually. A copy of the O&M Plan is available upon request.

The City of Ellensburg maintains approximately 2,367 catch basins and manholes in the public right of way. The public storm system is comprised of 50.26 miles of underground pipe. The system discharges to 80 outfalls in local streams. In addition, most of the newer parts of town infiltrate stormwater in bio-retention facilities (swales). The City's public storm system also receives runoff from private property, but not in all locations.

The SWMP outlines specific programs and projects aimed at improving water quality throughout the City. Public outreach/education, illicit discharge elimination, construction/post construction runoff controls, public participation, operation maintenance and LID stormwater retro-fit projects are covered in detail with this plan.

Copies are made available upon request or can be obtained online at:

https://ci.ellensburg.wa.us/738/Stormwater-Division

COVID 19 UPDATE:

Several education programs are on hold for 2020-2021 as noted on the following pages. Drain Rangers is happening virtually in the schools, KEEN was held January 2020 and the Dial 811 contractor's seminar happened February of 2020 before COVID was announced. Media inserts, fliers still go out to all businesses and rate payers, and the city will be conducting an outreach/effectiveness study in 2021/2022.

A. <u>Public Education and Outreach</u>

Partnership with Central Washington University Center for Leadership:

The City of Ellensburg teams up with The CWU Center for Leadership annually and semiannually to provide outreach education activities in the community. Leadership volunteers have stenciled all storm drains in Ellensburg, performed multiple litter pick parties and planted several hundred trees along the banks of local streams. All these events are organized by the Utility with CWU annually. More events are planned for 2020.

ON HOLD

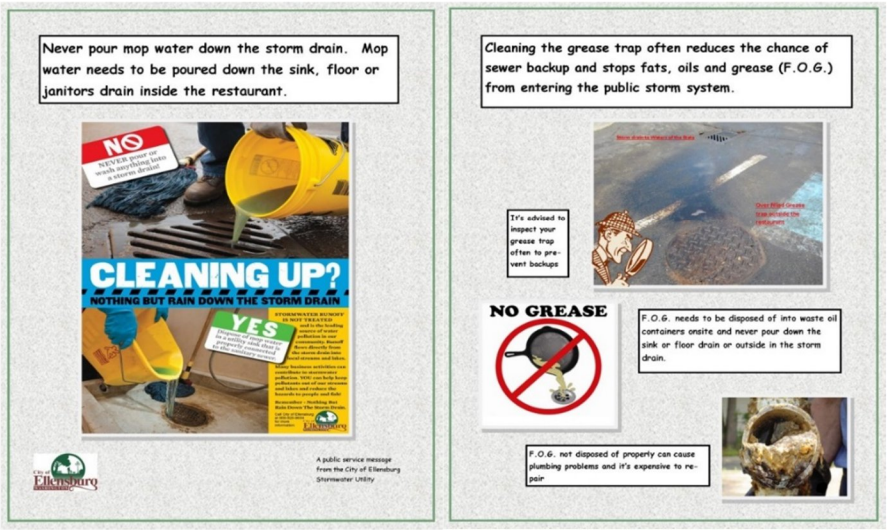
Two years ago, the City Council approved a grant program whereby stormwater utility funds are used to improve the health of local streams and the environment. Applicants who can demonstrate water quality health improvements within the city limits are encouraged to apply annually. Grant applications are scored and ranked by the Environmental Commission and those applicants that meet the funding guidelines are awarded. The utility awards up to $10,000 annually out of the stormwater budget.

In 2019/2020 the Mid-Columbia Fisheries Enhancement Group (MCFEG) was awarded grant funding to continue operation of the adopt a stream program, backyard stream protection program and a water in the classroom education program. Volunteer groups from the community planted trees and removed trash from local streams.

ON HOLD

Media, workshops, seminars, fairs, schools, stream walks and activities:

The Eastern Washington Stormwater Permit requires an outreach education program that targets restaurants, industrial businesses, mobile businesses, fueling, automotive and the general public. In 2020 the utility sent out fliers (pictured below) to all businesses and residents with the exception of the fats oils and grease poster.



In 2021-2022 the utility will work with Osborn Consulting to study a fast food businesses and track behavior change as required by the 2019-2024 permit.

KEEN Winter Fair

Annually the Kittitas environment and education network (KEEN) holds an annual fair. The 2019 fair was moved back to Hal Holmes Event Center. The stormwater utility always sponsors an educational booth along with 35 other exhibitors. The fair is a great outreach mechanism for the City's utility, and it reaches out to several different levels of interest. It's nice to be part of a great community event that promotes stewardship.

KEEN's Fair was held January 25th 2020 at Hal Holmes Event Center.

Copied is the link to the City's stormwater web page.
https://ci.ellensburg.wa.us/1035/Stormwater-Utility

Dial 811 Contractors Safety Training Seminar

Annually the City's stormwater Utility is a guest speaker at the Dial 811 Contractors Training Safety Seminar. The event reaches out to all contractors, irrigators, county and city work crews. The stormwater utility finds that it is a great opportunity to reach out to all local contractors and discuss erosion control, permit compliance issues and help with development related questions. The stormwater utility has been a guest speaker since 2010. The Utility was a guest speaker at the February 20, 2020 workshop.

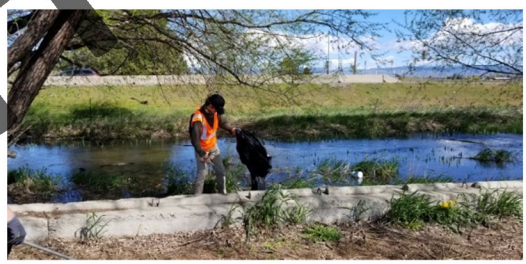
Earth Day Activities: 2019/2020

The City of Ellensburg and CWU's Center for Leadership along with Mid-Columbia Fisheries Enhancement Group, Bureau of Land Management and Fish and Wildlife all take part in the Yakima River Cleanup annually. The Yakima River Cleanup has been an ongoing event for over 41 years.

The event in 2019 focused on litter pick up and streamside tree planting. The City partnered with CWU volunteers and planted trees along Mercer Creek and picked up litter at Reecer Creek.

Earth Day 2019

CWU volunteers picked up 1000 pounds of trash out of and along Wilson Creek at the Flying J Truck Stop.



Earth Day 2020 is scheduled for April 18th at Main Street Extension. Native trees and shrubs will be planted along Mercer Creek with the help of CWU volunteers and the public.

ON HOLD

Car Wash Kits: (Ongoing Program)

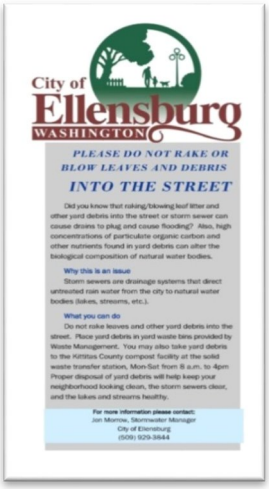
In 2011 the City of Ellensburg purchased two car wash kits. Car wash kits trap the soapy water from entering the storm drainage system and pump it to the nearest sanitary sewer connection.

The car wash kits are an ongoing annual program. The kits are permanently loaned out to local businesses that sponsor car wash fundraising activities. The program is free to the public. Use the QR code below to watch a video on how to set up a car wash kit and learn about your watershed.

ON HOLD

Media Releases, Utility Inserts and Multi Media Public Education:

To date several articles featuring the stormwater utility with regards to pollution prevention, pet waste runoff, pesticide use, flooding, hazardous materials handling, and car washing have been sent in utility billing inserts, on the radio and in the newspaper.


City of Ellensburg WASHINGTON

PLEASE DO NOT RAKE OR BLOW LEAVES AND DEBRIS INTO THE STREET

Did you know that raking/blowing leaf litter and other yard debris into the street or storm sewer can cause drains to plug and cause flooding? Also, high concentrations of particulate organic carbon and other nutrients found in yard debris can alter the biological composition of natural water bodies.

Why this is an issue

Storm sewers are drainage systems that direct untreated rain water from the city to natural water bodies (lakes, streams, etc.).

What you can do

Do not rake leaves and other yard debris into the street. Place yard debris in yard waste bins provided by Waste Management. You may also take yard debris to the Kittitas County compost facility at the solid waste transfer station, Mon-Sat from 8 a.m. to 4pm Proper disposal of yard debris will help keep your neighborhood looking clean, the storm sewers clear, and the lakes and streams healthy.

For more information please contact:
Jon Morrow, Stormwater Manager
City of Ellensburg
(509) 929-3844

When nature calls, make sure you pick up.

With the number of dogs in your community, imagine how unhealthy it would become if no one picked up after their pets. Dog waste carries bacteria, and if left on the ground, can make people sick. It can also wash into storm drains, polluting your community and local waterways. Dog owners can help prevent pollution by taking these simple steps:

- Pick up after your pet every single time. Check with your pet store for products that make picking up easy.
- Throw away pet waste in the garbage; never wash it into the gutter or storm drain.
- Carry extra bags in your car, so you are prepared when you travel with your pet.
- Get involved in a pet group and remind others to pick up after their pets.

To learn more ways to keep your neighborhood and waters healthy and clean, visit www.ci.ellensburg.wa.us/stormwater

City of Ellensburg WASHINGTON

NO

NEVER wash soap or dirty water down the storm drain

WASHING THE FLEET?

NOTHING BUT RAIN DOWN THE STORM DRAIN

YES

Wash vehicles in a facility where all water drains into sanitary sewer system

STORMWATER RUNOFF IS NOT TREATED and is the leading source of water pollution in our community. Runoff flows directly from the storm drain into local streams and lakes.

Many business activities can contribute to stormwater pollution. YOU can help keep pollutants out of our streams and lakes and reduce the hazards to people and fish!

Bottomline - Nothing But Rain Down The Storm Drain

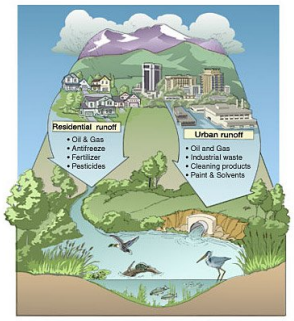
Call City of Ellensburg at 509-925-8614 for more information

Before COVID last year in February the Utility was a guest speaker on Town Talk the local radio station. The topics were maintenance of private stormwater detention ponds and blowing leaves out into the street. There have been several newspaper articles in the Ellensburg Daily record to date regarding the same topics.

Interlocal Agreement Franklin County Conservation District (Drain Rangers) Ongoing

In 2021 the City and Franklin County Conservation District will be providing outreach education in local grade schools through Zoom leanring. Franklin Conservation District has a program called Water on Wheels Week and has incorporated stormwater education into the curriculum. In 2017 Water on Wheels week became Drain Rangers. Events held at all the elementary schools provided students an opportunity to learn about stormwater.

Drain Rangers will be happening again 2021, but will be virtual programs for in home learning due to COVID.



B. Post Construction Stormwater Management for New Development and Redevelopment

Permanent stormwater control facilities shall be maintained and operated in compliance with Chapter 9.100 'Storm Drainage and Surface Water Management Utility' of the Ellensburg Municipal Code and the current Stormwater Management Manual for Eastern Washington. Stormwater control facilities include manmade stormwater control facilities that combined constitute the city's stormwater control
facility.

Cited above is an excerpt from the City of Ellensburg Storm Drainage Standards. It references the code Chapter 9.100. The ordinance requires that owners (private or public) of stormwater facilities that were constructed after the effective date of this permit be required to maintain their facilities in accordance with the standards and details to which they were constructed.

https://ci.ellensburg.wa.us/803/Engineering-Division

The link above references the Stormwater Design standards and details for the City of Ellensburg. All projects (public and private) that disturb one acre or more, and from projects of less than one acre that are part of a larger common plan of development or sale, adhere to the Stormwater Management Manual of Eastern Washington. Ellensburg Stormwater Standards require at a minimum all applicants use the Stormwater Management Manual for Eastern Washington when designing treatment and flow control facilities. The design storm shall treat the first ½ inch of rainfall in 24 hours (6 month 24 hour storm event) for all pollution generating impervious surfaces.

Flow control shall be designed based on the 10 year 24-hour storm event and if detention is proposed, it shall be based on the first 1.6 inches of rain in 24 hours (25 yr. storm event).

The standards have a section devoted to enforcement/penalties and a brand new section devoted to Low Impact Development (LID).

Staff reviews all projects that disturb one acre or greater and records comments on a spreadsheet. (See review comments spreadsheet excerpt) In addition staff reviews all stormwater pollution prevention plans (SWPPP's) and temporary sediment erosion control plans (TESC) for completeness.

With each rain event that exceeds the 10 year 24 hour storm (approximately 1.2-1.4 inches, depending on the location in Ellensburg), staff inspects all treatment and flow control facilities owned and operated by the City. No recorded storm events exceeded 1.3 inches/24 hr in 2020. Facilities are inspected for damage and if found to have problems, they're put on a capital facilities list. In 2020 staff inspected all city owned BMP's to determine if they need maintenance. S5.6.i.ii.a of the permit requires inspections every two years or as needed for 95% of treatment and control facilities. Below is a snip of the database that tracks the inspections and recommendations.

	annual City maintained Swale inspection					
Swale ID	Maintainance notes	Project #	Plat / Dev. Name	Street	X Street	inspected 2020
205	still works, but excess vegetation	2003-055	Water St Impr project	Manitoba	Water	10/1/20
490	no issues	2014-063	at Morgan Jr. high	Sampson St	Capitol Ave	10/1/20
477	no issues - grass maintained by city contract	2013-083	3rd Ave extension to Pfenning	3rd Ave	Pfenning Rd	10/1/20
538	no issues - new construction	2018-084	Willow St impr.	Willow St	Mtn View to Cap	10/15/20
36	cleaned inlet pipe; new homeowner is maintaining the swale	2002-075	Kayla/Mylissa short plats	Ridgeview Ln		11/10/20
63	still works, but excess vegetation	2002-080	Helena Ave Impr.	Helena Ave.	Chestnut St.	10/15/20
64	still works, but excess vegetation	2002-080	Helena Ave Impr.	Helena Ave.	Chestnut St.	10/15/20
99	still works, but excess vegetation	2002-080	Helena Ave Impr.	Helena Ave.	Alder st.	10/15/20
334	no issues	1997-029	Water St Impr project	John Wayne Tr	15th Ave	1/6/20
219	constant groundwater drainage, leads to excess vegetation at inlet	1997-029	Water St Impr project	Water St.	11th Ave	9/2/20
417	free of standing water this year; felt dry	2010-083	John Wayne Trail extension	Sanders Rd	Alder St	11/10/20
65	no issues - grass maintained by city contract	2005-127	Mtn View Improvements	Mountain View	Willow St.	9/2/20
212	no issues - grass maintained by city contract	2005-127	Mtn View Improvements	Mountain View	Ruby St.	9/2/20
213	no issues - grass maintained by city contract	2005-127	Mtn View Improvements	Mountain View	Ruby St.	9/2/20
214	no issues - grass maintained by city contract	2005-127	Mtn View Improvements	Mountain View	Ruby St.	9/2/20
215	no issues - grass maintained by city contract	2005-127	Mtn View Improvements	Mountain View	Ruby St.	9/2/20
216	no issues - grass maintained by city contract	2005-127	Mtn View Improvements	Mountain View	Ruby St.	9/2/20
217	no issues - grass maintained by city contract	2005-127	Mtn View Improvements	Mountain View	Whitman St.	9/2/20
220	no issues - grass maintained by city contract	2005-127	Mtn View Improvements	Mountain View	Chestnut St.	9/2/20
221	no issues - grass maintained by city contract	2005-127	Mtn View Improvements	Mountain View	Chestnut St.	9/2/20
222	no issues - grass maintained by city contract	2005-127	Mtn View Improvements	Mountain View	Chestnut St.	9/2/20
223	no issues - grass maintained by city contract	2005-127	Mtn View Improvements	Mountain View	Chestnut St.	9/2/20
224	no issues - grass maintained by city contract	2005-127	Mtn View Improvements	Mountain View	Chestnut St.	9/2/20
225	no issues - grass maintained by city contract	2005-127	Mtn View Improvements	Mountain View	Chestnut St.	9/2/20
226	no issues - grass maintained by city contract	2005-127	Mtn View Improvements	Mountain View	Chestnut St.	9/2/20
227	no issues - grass maintained by city contract	2005-127	Mtn View Improvements	Mountain View	Chestnut St.	9/2/20
228	no issues - grass maintained by city contract	2005-127	Mtn View Improvements	Mountain View	Chestnut St.	9/2/20
229	no issues - grass maintained by city contract	2005-127	Mtn View Improvements	Mountain View	Chestnut St.	9/2/20
230	no issues - grass maintained by city contract	2005-127	Mtn View Improvements	Mountain View	Willow St.	9/2/20
231	no issues - grass maintained by city contract	2005-127	Mtn View Improvements	Mountain View	Willow St.	9/2/20
232	no issues - grass maintained by city contract	2005-127	Mtn View Improvements	Mountain View	Willow St.	9/2/20
233	no issues - grass maintained by city contract	2005-127	Mtn View Improvements	Mountain View	Willow St.	9/2/20
287	no issues - grass maintained by city contract	2005-127	Mtn View Improvements	Mountain View	Chestnut St.	9/2/20
307	standing water in swale bottom, from groundwater flow into upstream	1997-066	Aspen Grove MHP	Umptanum Rd	Chestnut St.	9/2/20
139	no issues - grass maintained by city contract	2006-080	Dolarway Rd. Impr project	Dolarway Rd.	Prospect St	9/2/20

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Some public stormwater swales are maintained by local contract with private companies and catch basin cleaning is performed by City staff. The city inventoried all post construction BMP's private and public. There are 475 systems citywide. Most were all built before 2007. The same annual inspection will occur in 2021.

(2020 post construction BMP inspection database)

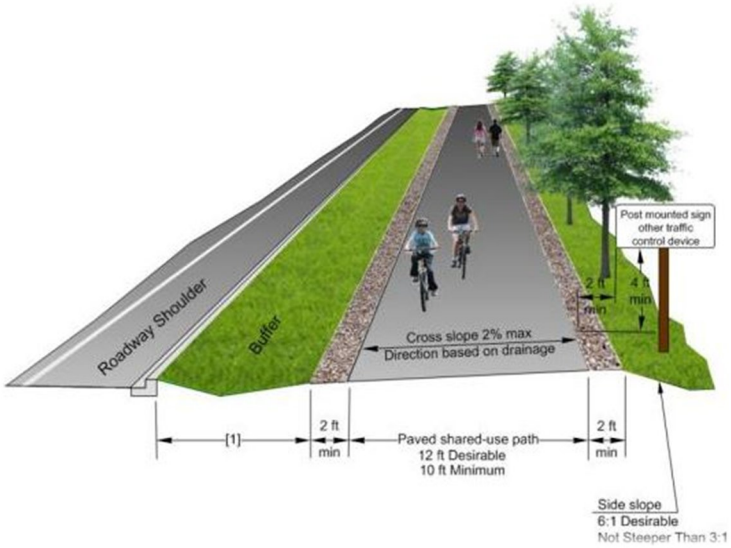
			Road & parking lot Swales, retention/detention ponds, pervious concrete, etc				Swale issue or problem in pink					
ID #	Project #	Plat / Dev. Project	owner / Dev. name	Owner	ownership notes	Street	Notes	year built	In city pond swale qty	eventual discharge to creek?	25 yr storm discharges to ___ water body	after 2007 acreage if >1 Ac pre dev
531	2019-076	SR 97 Truck Wash expansion	Dhiman Corp	Private	apts/comm prop	SR 97	1 interior Retention, for bldg & asphalt addition	2020	1	No	no outfall	NA
532	2017-096	Rainier St. extension	Spurling Ct Associates LLP	Private	apts/comm prop	Rainier St.	2 interior Retention	2020	two	No	no outfall	yes
533	2019-086	ESD new Elem school	ESD	Private	ESD	Cora St	2 interior Retention swales	2020	three	No	no outfall	yes
534	2019-086	ESD new Elem school	ESD	Private	ESD	Cora St	1 interior Detention pond	2020	one	yes	to irrigation	yes
535	2019-086	Cora St ext for new school	ESD	Private	ESD	Cora St	1 interior Detention pond	2020	one	yes	to irrigation	yes
536	2019-086	Cora St widening & extension	ESD	in R/W	ESD	Cora St	7 roadside swales in R/W: 6 at Mt Stuart & 1 at new school	2020	x7	No	no outfall	X
537	2019-087	ESD - Mt Stuart Elem replacement	ESD	Private	ESD	Cora St	1 interior Detention pond	2020	one	yes	to irrigation	yes
538	2018-084	Willow St impr, Mtn View to Capitol	City R/W	City		Willow St	19 roadway water Retention swales	2020	25	No	no outfall	X
539	bldg permit	403 S Water St	was church, now IUOE Union hall	Private	apts/comm prop	Water St	1 interior Retention	1999	1	No	no outfall	X
540	2017-079	713 E 7th Ave	Pederson	Private		7th Ave	2 roadway Retention - owner added curb w/ raingarden in front of house	2019	2	yes	East br Wilson	X
455	locations							in City swale qty	599			
zxc	16-067	PUD	PUD	Private			3 interior Retention	2020	three	No	no outfall	yes
zxc	16-122	parking lot addition	Bid Mechanical	Private	Bid Mechanical	RR Ave	2 interior Retention; 20,495 sf ISA	zxc	two	No	no outfall	no
			non swale storm detention retention - perv conc etc									
Pervious surface: concrete, pave drain brick, etc												
PS 01	2009-087	planned parenthood		Private	apts/comm prop	Pine St.		2009	1			less than
PS 02	2011-048	Carls Jr		Private	apts/comm prop	Opportunity St		2011	1			less than
PS 03	2016-101	Community Health bldg expansion		Private	apts/comm prop	Mountain View Ave		2019	3			less than
PS 04	2018-121	Libenow duplexes - Helena Ave		Private	apts/comm prop	Helena Ave		2019	2			less than
									7			
Wet Ponds												
WP 01	2007-049	Alliance SP No 1	City property	City	City purchased in 2017	Enterprise Way	proposed detention pond deepened to create wet pond during const.	2007	1	yes	Whiskey Cr	yes
WP 02	2003-077	Sander's Mill	Sander's Mill	Private		Olive Lane	pre-existing agricultural pond; pond size reduced during construction	NA	1	yes	Mercer Cr	NA
WP 03	1997-029	Water St Impr project, phase 2	City property	City		Water St.	high groundwater pond, not water quality cell	2002	1	No	Mercer Cr	
WP 04	bldg permit	2202 Canyon Rd - Buzz Inn		Private		Canyon Rd	high groundwater pond, not water quality cell	NA	1		no outfall	NA
WP 05	2001-044	CWU Music Building		CWU		Alder St.	high groundwater pond, not water quality cell	2001	3		no outfall	

The City inspects private post construction BMP's every two to four years for BMP's built after 2007. Above is a snip of the master database of 475 facilities and inspection notes. New requirements for after August 2019 may require some sort of inventorying and inspection for BMP's that discharge to groundwater. That will be captured in the 2020-2021 SWMP.

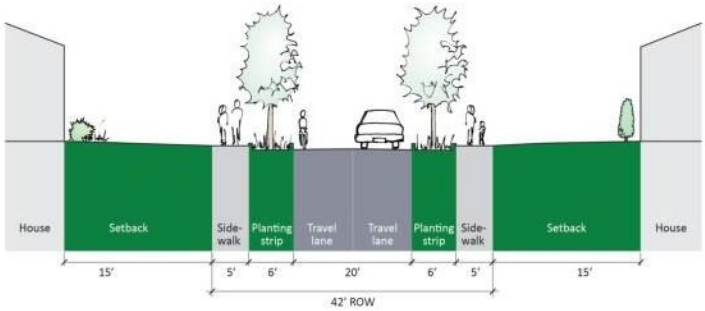
The private BMP's are already mapped and inventoried and the system is updated daily.

Pictured on the opposite page 16 are a few public and private examples of post construction flow control and treatment BMP's within the City of Ellensburg.

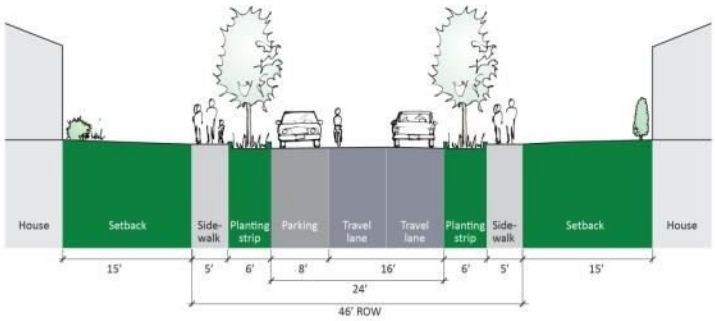
All frontage improvements are now required to provide infiltration for street water instead of connecting to the existing storm system. Recently the City adopted new street standards. The new standards narrowed the streets and now require vegetated or rock lined planter strips to accommodate runoff. Pictured below are examples out of the City Code that depicts the new street standards.



20' Wide *Street*



24' Wide *Street*



30' Wide *Street*

The City receives approximately 8.89 inches of precipitation annually. Most often, that falls in the form of snow. The region is classified as high desert/shrub steppe. Maintenance of post construction facilities are an issue statewide. More often than not, the facilities fall in the hands of homeowner's associations that fail to form and or developers that refuse to take care of the systems. Most are in private ownership and were built prior to permit in 2007. Most have fallen victim to the lack of maintenance over the years and are in decay, a condition of out

of sight and out of mind. Most become overgrown with vegetation, quit working and plug, and become dumping grounds for trash.

Success story for 2020. The stormwater detention pond pictured at the left just underwent a complete transformation and was reconstructed early spring of 2020. The pond is no longer a dumping ground for trash and is doing what it was designed to do. Capturing our post construction inspection program, inspection gains compliance most of the time.

Rock lined swales (Xeriscaping) are becoming very popular in Ellensburg. They're relatively inexpensive to construct and very little maintenance is required. They're aesthetically pleasing to the eye and blend in with the native landscape. They're usually visible to the public and that eliminates the out of sight, out of mind issues. Watering is not required on xeriscaping facilities and is one of the benefits to conservation. Pre-treatment is required to treat the first half inch of rainfall. 60/40 Bio-soil retention media mulch, grassy strips, downturn elbows and other BMP's are offered in the Eastern Washington Manual and it is up to the design engineer to choose, which one best fits the design.

Department of Ecology now requires on all sites greater than one acre of disturbance or part of a common plan or sale, the builder provide the local jurisdiction with an O&M plan. The plan outlines how maintenance will be conducted, the financial element to make that happen and who is responsible for maintenance.

New for 2020-2021 is a flier that can be handed out to new homeowners and developers on how to maintain private stormwater facilities.

C. Illicit Discharge Detection and Elimination (IDDE)

Provided is a link to the City's prohibited discharges Municipal Code Section 9.25.320, allowable discharges 9.25.322, conditional discharges 9.25.324 and the prohibited illicit connections to the storm drainage system 9.25.326
http://www.codepublishing.com/WA/Ellensburg/#!/Ellensburg09/Ellensburg0925.html#9.25.320

The City has an escalating enforcement procedure under ordinance 4717, Chapter 1.80 of the Civil Violations and penalties section of the City Code. The ordinance allows the City to escalate enforcement for water quality and other stormwater violations beyond the educational correction notice. This code can apply to IDDE, Post Construction and Construction.

The utility enforces the storm drainage code on a complaint basis. Complaints from the public are kept anonymous but are a matter of public record. All complaints are followed through until compliance has been achieved or the problem rectified. All complaints that violate state water quality standards are reported to the Washington State Department of Ecology's Environmental Tracking System (ERTS)

A spreadsheet is kept annually to track complaints. For privacy reasons a copy of the complaint database is only available through the public records request procedure.

Outfall Inspection Program 2020-2021

Annually the City conducts outfall screening in the dry season and after rain events that exceed the 10 year 24 hour storm. In 2020 no recorded storm events exceeded the 10 year 24 hour storm. No spot checks were required. The City mapped all of the outfalls to local streams in 2010 and again in 2013. Approximately 80 discharge points (outfalls) exists within the 50.26 mile underground system. Below is a breakdown of the underground pipe/outfall size in inches (diameter) and the number of (how many) of each pipe type exists within the system.

Pipe/culvert size diameter on top row and number of pipes/culverts that match that size on the bottom row

48”	42”	36”	30”	24”	18”	16”	12”	10”	8”	6”	4”
15	6	3	4	82	129	137	1013	136	947	354	30

Below is a recent 2020 inventory of storm pipes that indicates the pipe make, type, length etc.

Dia.	Length (ft) by Material*												Total Feet	Total Miles	% Total
	CI	DI	CMP	HDPE	PVC	AC	CONC	TRUSS	VC	STL	OJ	UNK			
4"			8.04	189.01	29.94		160.37			59.71		323.97	771	0.15	0.31%
6"	82.71	22.27	3017.17	1064.08	2423.01	242.90	8572.56	75.26	217.09		953.25	404.58	17,075	3.23	6.85%
8"		188.81	7028.79	12421.92	23815.64	769.77	18284.71	2626.28	529.42		1980.71	1862.49	69,509	13.16	27.87%
10"			683.66	3234.00	2472.54		4074.47		607.71				11,072	2.10	4.44%
12"		713.17	6841.51	50571.43	26151.46	351.98	13381.26	5315.87	143.48		3985.10	198.30	107,654	20.39	43.16%
14"		38.51											39	0.01	0.02%
15"				9992.91	2314.24		7666.53						19,974	3.78	8.01%
18"			942.94	8566.51	1193.59		2816.48						13,520	2.56	5.42%
21"			1749.38		189.00		618.95						2,557	0.48	1.03%
24"			1617.21	2953.05	484.91		1404.92						6,460	1.22	2.59%
30"			149.63										150	0.03	0.06%
36"							35.76						36	0.01	0.01%
42"				344.11									344	0.07	0.14%
48"			144.97										145	0.03	0.06%
Unknown/ Irregular			136.41	2.28									139	0.03	0.06%
Total Feet	**83**	**963**	**22,320**	**89,339**	**59,074**	**1,365**	**57,016**	**8,017**	**1,498**	**60**	**6,919**	**2,789**	**249,443**	**47.24**	**100%**
Total Miles	**0.02**	**0.18**	**4.23**	**16.92**	**11.19**	**0.26**	**10.80**	**1.52**	**0.28**	**0.01**	**1.31**	**0.53**			

CI = Cast Iron, DI = Ductile Iron, CMP = Corrugated Metal Pipe, HDPE = High Density Polyethylene, PVC = Polyvinyl Chloride, AC = Asbestos Concrete, CONC = Concrete, STL = Steel, ABS = Pressure Pipe, TRUSS = Thermoplastic Composite, Double-Walled Pipe, VC = Vitrified Clay, OJ = Open Joint, UNK = Unknown

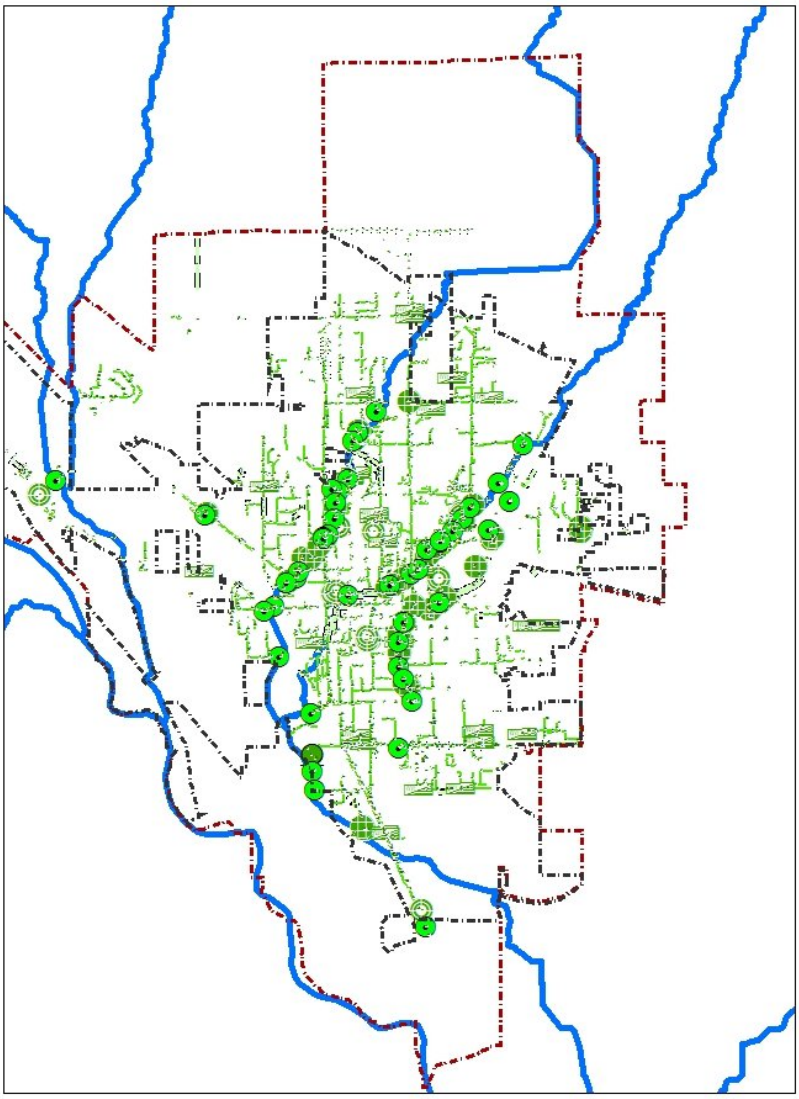
All pipe totals are manually entered and come from the most current GIS storm main totals. Verify totals each year as the map is updated.

Updated: EM 01/14/2020

Catch Basins	2101
Manholes	305

The average underground pipe size in Ellensburg is 12 inches in diameter. The number of outfalls to local streams is tabled on the outfall database in the appendix. An outfall is defined by 40 CFR 122.2, a point where a discharge leaves the MS4 and discharges to waters of the state.

Ellensburg Outfall Discharge Points



Each outfall is identified by an ID number correlating with the City's GIS maps. Each outfall was screened for flow, odor, color and any visible signs of pollution. Pictures were taken of every outfall. Each outfall inventoried has an NPDES dry weather field screening data form. See page 25 for outfall inspection database.

(2020 outfall inspection database)

south to north	Upstream Facility ID #	Location	Outfall location / comments	Stream/Outfall	Pipe Size	Pipe Type	2020 inspection date	2020 Dry screening	2020 Comments
Mercer Cr.									
Mercer 1	55-2030	1st Ave dead end at terminus with creek	usually visible from RR Ave	Mercer Creek	12	HDPE	10/14/2020	No Flow	high & dry; found upstream CB
Mercer 2	55-1017	5th Ave, west of Wenas	outfall buried under rip rap boulders; drains 5th Ave west of Kittitas St.	Mercer Creek	12	Concrete	10/14/2020	No Flow upstream MH	standing water, no movement
Mercer 3	55-2053	6th Ave, west of Wenas	1st upstream CB buried under fallen tree branches & leaf litter	Mercer Creek	8	AC	10/14/2020	No Flow upstream CB	
Mercer 4	55-2057	Wenas St, south of 7th Ave	3 CB at 7th & Wenas; outfall at culvert & not visible	Mercer Creek	6	Concrete	10/14/2020	No Flow upstream CB	
Mercer 5	55-2059	7th Ave, east of Wenas	Point of connection inside culvert - not visible	Mercer Creek	8	PVC	10/14/2020	No Flow upstream CB	
Mercer 6	65-2057	east of Cle Elum St, south of University Way @ Hampton Court Apartments	Point of connection inside culvert - not visible; 18" line is inside the walls of the abandoned Reed Mill ditch at the University Way crossing	Mercer Creek	18	Concrete	10/14/2020	No Flow upstream CB	
Mercer 7	65-1037	University Way, east of Okanogan	Point of connection inside culvert - not visible	Mercer Creek	12	Concrete	x	needs traffic control to inspect MH in arterial street	dry upstream CB
Mercer 8	65-7000	11th & Water St.	Pipe drains 11th Ave & Columbia St. and discharges direct to the creek, parallel to swale.	Mercer Creek	12	HDPE	10/14/2020	minimal trickle of water	
Mercer 9	65-1041 Splitter MH	11th & Water St.	12" low flow from Water St goes into swale #219, which overflows into creek	Mercer Creek	swale #219 overflows into creek	PVC	10/14/2020	standing water & saturated soil from groundwater at outfall pipe into swale.	swale vegetation now on City landscape maintenace contract
Mercer 10	65-1041 Splitter MH	11th & Water St.	18" high flow pipe IE is .2 ft higher than 12" low flow pipe	Mercer Creek	18	HDPE	10/14/2020	groundwater trickle	groundwater trickle increased, due to constant groundwater flow from Main St ext. improvements
Mercer 11	66-1009	at back of 1101 N. Main St.	outfall is on private property; is buried under willow tree stump	Mercer Creek	8	Concrete	10/15/2020	upstream MH totally dry	Willow tree over outfall was removed October 2018
Mercer 12	66-2073	Main St. at Kiwanis Park, by well house.	year round groundwater; drain comes from area north of 17th Ave through Englehorn pond; MH cover in grass east of walk	Mercer Creek	10	PVC	10/15/2020	constant year round groundwater	

Page 1

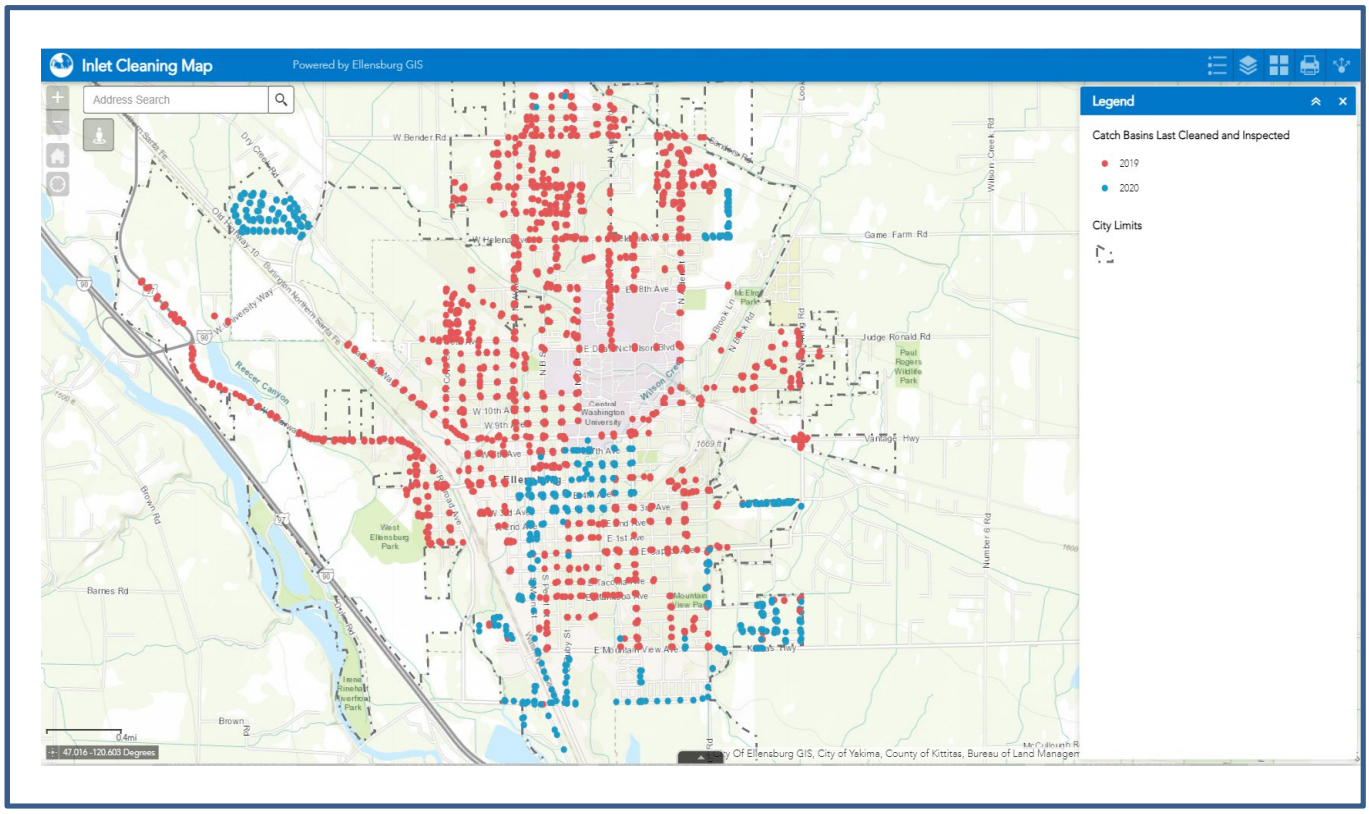
The City operates a 24 hour hotline for spills on its stormwater web page (509) 962-7230 after hours (509) 925-8534. See link https://ci.ellensburg.wa.us/738/Stormwater-Division

The Utility has a software program powered by ESRI GIS to assist with IDDE inspections. The vactor truck crew is outfitted with a tablet that tracks each cleaning and collects data on IDDE inspections. Each catch basin, manhole and pipe is inspected before cleaning. The crews inspect each inlet and outlet for flow, odor, color, sheen, staining and floatables. They also note if side laterals have obvious discharge from private sources. Once inspected, they clean the lines, and that too is tracked in the software program. If any structural damage is noted, then that information is put on a capital facilities plan. If pollution problems are noted, the Utility technician is notified and source traces the problem for elimination.

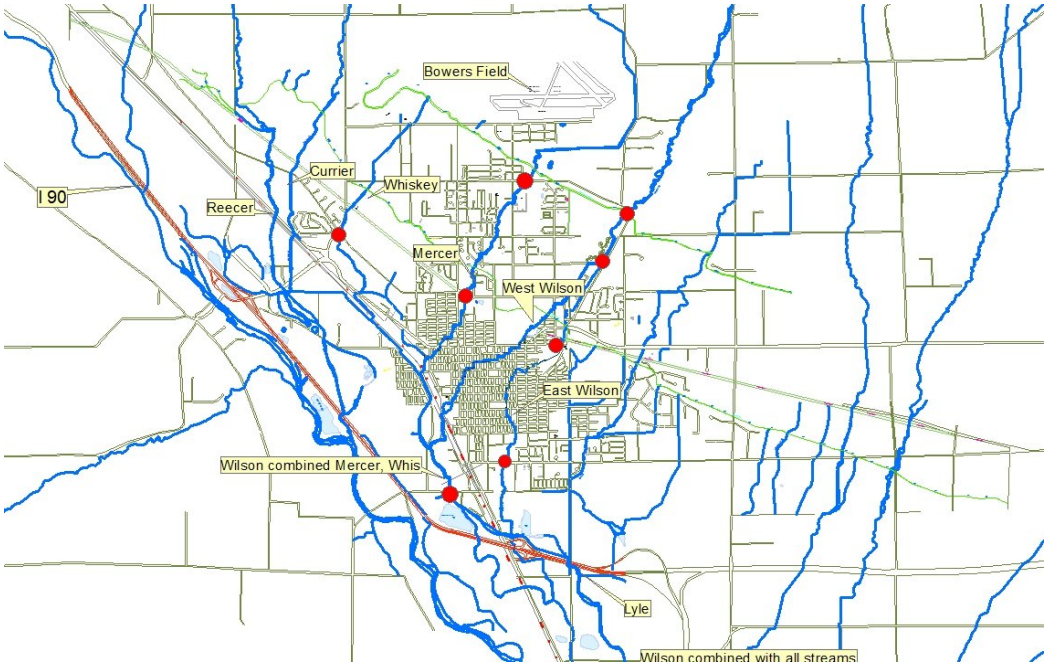
The City is on target for meeting its permit obligation to inspect and clean the entire system by December 31st 2018 (at time of writing this report, the system has been entirely inspected and cleaned as of September 2017). In 2014 (728) catch basins were cleaned, 2015, (637) cleaned, 2016, (410) and (602) in 2017 and (361) in 2018. The utility met the new requirements for 2019 and cleaned one half of the town during the spring-summer-fall season. Same will be done for the remainder of the new permit.

2020-2021 IDDE Inspection and Cleaning map

The IDDE program also conducts weekly bacteria monitoring on local streams to detect for illicit connections in addition to the O&M inspection program.



The utility now conducts bacteria monitoring at five locations on Wilson Creek twice a week. The monitoring is a part of the IDDE program, and the data is being shared with Ecology for their TMDL program. The bacteria monitoring is a source tracing program and utilizes Coli-scan Easy Gel. A one milliliter sample is plated and incubated for 24 hours at the Wastewater Treatment Plant for results in CFU/milliliter.



(Monitoring locations map)

The utility has detected and eliminated a few illicit discharges since the program was implemented in 2010.

The data collection spreadsheet shows the date and time the bacteria sample was collected and the level recorded in coliform units per 100 milliliters. (Disclaimer) Data collected does not use EPA certified Standard Methods. The method of collection and analysis is certified for finding out the presence of coliform units per 100 milliliters. Membrane filtration is the certified standard method. The collection augments the City's IDDE program and if sources are detected, they are traced and eliminated.

Recent data collection below, not yet entered into the spreadsheet.

	Date sample taken	Wilson @ Sanders cfu/mL	Wilson above Fairgrounds @ 8th & Alder cfu/mL	Wilson @ 5th w of Poplar cfu/mL	Wilson @ Mtn. View south side cfu/mL	Wilson @ Sonic Burger cfu/mL	Precip past 24 hrs	comments
	10/27/2020	Ø	100	Ø	Ø	Ø	None	
M	11-2-20	Ø				Ø	None	
W	11-4	Ø					None	
M	11-9	Ø	Ø	Ø	300	100	None	
T	11-17	Ø	Ø	Ø	800	200	None	
Th	11-19	Ø	Ø	Ø	600	100	Trace	
M	11-23	Ø	Ø	Ø	Ø	Ø	None	
M	11-30	Ø	Ø	Ø	Ø	200	None	
W	12-2	Ø	Ø	Ø	Ø	Ø	None	
W	12-9	Ø	Ø	Ø	Ø	Ø	None	
M	12-14	Ø	Ø	100	Ø	Ø	Trace	
W	12-16	Ø	Ø	Ø	Ø	Ø	None	
W	12-23	Ø	Ø	Ø	Ø	Ø	None	
								2021
W	1-6-21	Ø	Ø	Ø	Ø	Ø	Trace	

Ellensburg began collecting data to see how much bacteria loading occurred as Wilson entered the City limits and what the concentration was when it left town. Early results indicated a large dilution factor as it progressed through town. The data collected by Ecology indicated that most of the loading was coming from outside the City limits. As Wilson passed through town, it diluted significantly by the time it reached Berry Road and Umptanum. The City worked with the County Fairgrounds to eliminate all storm drains from entering Wilson Creek in the year 2012.

In addition to outfall screening and O&M inspections, the utility also fields complaints from citizens and staff. The complaints range from spills to drainage problems, water quality violations, swales, construction/erosion control and flooding. The requests are kept on a spreadsheet, tracked and followed up on. If it's a water quality violation, spill or discharge under S4F of the permit, the problem is reported to the Department of Ecology's ERTS tracking system. The City also receives ERTS from Ecology and they are tracked and followed up on. We're now required to report water quality violations on a statewide electronic database. In 2020 there was only three reportable incidents that required it be on the Portal. We keep a

spreadsheet with the 2020 complaints, which are not all water quality violations. Below is an example of that spreadsheet.

(Example of complaint database)

of Stormwater Issues/Complaints for City of Ellensburg

Date	Site Address	Name associated with Site	Notes	Water Quality Issue	Erosion Control	Utility Concern	Drainage Concern	Swale Issue	Flooding Concern	Stormwater Billing concern	Outreach Education Visit	Case Closed	WQ report filed
3/10/20	111 King Place	na	caller reported oil spill. Investigation revealed a Non issue. About a 6' long dribble on the driveway, already covered in kitty litter by resident. Did not even reach the curb line. No harcopy file.	1								x	x
7/6/20	Cora St, at new Mt. Stuart replacement school site	Advantage Dirt	About 1:00 on Monday July 6 the ESD contractor Advantage Dirt hit & broke a water main on the west side Cora. Most of the silty water flowed into the brand new sewer main they are constructing, and some silty water headed south & west, into the mix of irrigation lines & storm lines. They also diverted water west out onto the lawn area of the school grounds. By the time I heard about the break & got there around 2:45, they had the main shut off & the water had ceased flowing, with not much to see at the surface. The only CB that - eventually - drains to Mercer Creek, (#75-2005, red arrow) is the 1st CB west of Cora. The next City CB to the west on 15th Ave. ties into the irrigation drainage of Mt Stuart School. The CBs/storm on the east side of Cora drain to the Stonebridge swale. The contractor has been instructed to clean the silt at the curb line & to clean and/or replace the CB socks. The City crew will assess & clean the catch basins as required, and also sweep the street.	1	1							x	x
7/13/20	new Mt. Stuart replacement school site	Advantage Dirt/Garco Const.	ERTS Incident #699328 - Dust complaint from a resident living nearby the construction zone. PW field inspector sent emails to contractor regardoing need to control dust. Case is ongoing, and likely will continue until the project is done. Contractor has increased use of water truck for dust supression, and will use PAM, too.		1							ongoing	x
7/23/20	404 W Ridgeview	FIEROH, KYLE & SARAH	inquiry about swale located in front of her residence. The swale was installed as part of the neighboring short plat improvements. The resident may request to modify the swale to reduce the cattail & weed maintenance. No harcopy file.					1				x	x
9/28/20	112 W Courtney Ct	Michelle O'Brien & Steven	Field crew report of fence building activity in a swale located on this property. Gordon met with Michelle & Steven, discussed how swales work & proposed fence. They are to uncover pipe entry to swale & keep outfall CB open. 2nd discussion at site regarding fence OK at top of swale, but not on property line at bottom of swale. No harcopy file.					1				x	no
9/29/20	Helena Ave, E of Alder St.	unknown perpetrator	When Bryan was out inspecting catch basins, he found one with a small amount of oil inside. A thin skim in CB 78-2010, some additional skim on the crown of the outlet run but nothing at all in the downstream CB 78-2004. Bryan put an absorbent tube in the CB & returned with the vac truck. Looks like intentional dumping into the CB. Report filed on DOE WQ website.	1								x	yes
10/1/20	206 E Kirsten Ave	resident at 208 E Kirsten Ave	ERTS Incident #700844 Report that resident at 208 E Kirsten Ave has open containers of oil next to the retention cell adjacent to 208. also reported that the resident at 208 E Kirsten was sumping household trash in the retention swale. Jon looked at it, found no signs of dumping. Some trash nearby but not in swale. Swale is owned by homeowner's association.					1				x	yes
10/12/20	Water St & 2nd Ave	City of Ellensburg	A water main on 2nd Ave east of Water St. broke in the early AM on 10/12/20. The Water Dept. responded & shut off the main; the Street Dept. responded to clean up silt & rocks that was washed over the roadway from the leak. Most of the water went in to the Water St. storm drain system which out falls to a storm water detention pond. Some portion of the water traveled west on 1st Ave to 2 catch basins that drain in to the Fred Meyer private storm water system, which also drains to a storm water detention pond. The Sewer Department will assess how much silt went into the catch basins & clean the catch basins as necessary. The water crew checked for chlorine at the outfall, and found no detectable chlorine.	1								x	yes

D. Construction Site Stormwater Runoff Control

The link below is the City of Ellensburg's Stormwater Development Standards. Site operators, civil engineers, city staff and private developers must adhere to these standards when designing and constructing projects. Sites one acre or greater are required to complete a Stormwater Pollution Prevention Plan (SWPPP). SWPPP's along with the O&M plan and sediment control plans are reviewed by the Stormwater Manager for completeness. Engineering plans are reviewed by the both the stormwater manager and the plans examiner to meet the requirements of the EWA Manual.

https://ci.ellensburg.wa.us/339/Development-Standards

Ellensburg Standards has a whole section devoted to LID and site design (copy link above). Also new is the section on treatment and volume-based design. The Eastern Washington Stormwater Manual was updated in 2019 and the City adopted that manual into their standards making it city code.

City of Ellensburg WASHINGTON

STORMWATER CONSTRUCTION FACT SHEET

DEPARTMENT OF ECOLOGY State of Washington

- If your site is one acre or greater of disturbance or part of a common plan, or sale, you need to comply with the Department of Ecology regulations and apply for a Stormwater General Construction Permit well in advance of any site work taking place (see link below)

  http://www.ecy.wa.gov/programs/wq/stormwater/construction/index.html
- A stormwater pollution prevention plan (SWPPP) is required (see template link above on DOE website) and will be reviewed by City staff for completeness before work takes place.
- Temporary Erosion Sediment Control (TESC) is required on all plans submitted if disturbance is one acre or greater. Plans must be reviewed by City staff and approved before work takes place.
- New rules apply for construction de-watering, dust control and several other construction related elements (see link above)
- Commercial and residential stormwater flow control/treatment facilities (swales/detention ponds, bio-filtration) on sites one acre or greater must be designed to meet Core Element 2,5 and 6 out of the Eastern Washington Stormwater Management Manual along with the City of Ellensburg Development Standards. http://www.ci.ellensburg.wa.us/index.aspx?nid=339
- **New:** An Operation and Maintenance plan for the perpetual maintenance of the facilities is now required. http://www.ci.ellensburg.wa.us/index.aspx?nid=252

The stormwater construction fact sheet (page 30) and O&M template are handed out at every pre-application meeting informing the developer that sites an acre or greater require a SWPPP, TESC, Construction General Permit from Ecology and a O&M plan. Both the O&M template and the fact sheet can also be found on the City's Stormwater webpage at,

https://ci.ellensburg.wa.us/738/Stormwater-Division

All sites > 1 acre are required to use the Eastern Washington Stormwater Design Manual. Private projects and projects proposed by the permittee's own departments adhere to the same standards and details as set forth in the Eastern Washington Stormwater Design Manual.

All employees involved in field activities, (Operation and Maintenance, Plan Review, and Construction Inspection) undergo stormwater pollution prevention training.

The City adopted ordinances to prohibit silt, sediment, concrete slurry and all construction related products from entering the public storm system. See City code sections 9.25.320, 322, 324 and 326 from the link provided.
http://www.codepublishing.com/WA/Ellensburg/#!/Ellensburg09/Ellensburg0925.html#9.25.320

City ordinances, the adoption of the Eastern Washington Stormwater Manual, the design/development standards, the required SWPPP, TESC, O&M Plan, site review and field inspection combined, ensure compliance with the regulatory framework of the permit.

City staff who manage capital projects, oversee Operation and Maintenance, review site plans, inspect in the field and manage stormwater are all Certified Erosion Sediment Control Leads (CESCL). Every three years city staff renew their CESCL accreditation.

All projects disturbing one acre or greater since the issuance of the Phase II permit are on file with the City of Ellensburg. The permit requires construction records be kept for a period of up to five years after completion. All records at the City of Ellensburg pertaining to public projects or private development are kept indefinitely thru archiving and project files.

Stormwater Development Standards require staff review <u>all</u> site plans for treatment and flow control, inspect all stormwater BMP's and erosion control even if the threshold is under one acre or greater.

NPDES Stormwater Construction Review

PW Project #	Project Title	Applicant	Reviewer	prelim storm review	comments	Checked BMP selection and Calcs (added 3-17-18)
	in P/W review					
17-091	Pfenning & Radio Rd ext - Lyle Creek Plat	Stalder	JM		New owner re-submitted in Dec 2019 for 100+ lot long plat, in 4 phases. Phase 1 civil plans in review	Plans ready for approval - waiting on landscape plans
18-132	Ellington St Ext - Ellensburg Flats Plat	Borton			submitted to PW 2/1/2021	
19-048	Transfer Station	KCSW	JM		95% calculations and modeling are good to go. Waiting on TESC, O&M, SWPPP	
19-108	Sanders Rd - 1200 Block - French Plat	Willard	JM		Sizing calculations are good to go, waiting on civils, TESC, SWPPP, O&M	
20-085	505 S Railroad Ave - Storage Facility	Greear	JM		interior storm water does not discharge to City MS4. No exterior changes that affect existing roadway drainage.	PW - On Hold - Fire access issues
20-099	Walnut & Sampson - Lincoln Elem school remodel	ESD			interior storm water does not discharge to City MS4. Proposed UIC. No exterior changes that affect existing roadway drainage.	
	Projects underway					
20-058	Benjamins Corner plat - 26th Ave	Glahn	JM		Does not discharge to City MS4. Plans submitted for review to PW 6-5-20 submitted TESC & OM 8-27-20; approved by JM. Submitted drainage calcs, infil rates geo-tech 6-22-20; approved by JM	Plans ready for approval as noted with minor redline
20-062	1100 blk N Cora St - 7 Lot SP	Goninan			Does not discharge to City MS4. Slightly more than 1 acre site. Proposed filter fabric wrapped trench for on site retention of private driveway.	Approved for construction by PW
19-087	Mt. Stuart replacement Elem school	ESD	GC & JM		Does not discharge to City MS4. Proposed detention pond drains an existing irrigation tailwater ditch.	Approved for construction by PW
19-086	Cora St. Extension & new Elem school	ESD	GC & JM		Does not discharge to City MS4. Two on-site detention ponds will each have an outlet to an existing grassy area that drains an existing irrigation tailwater ditch.	Cora St. ext. Approved for construction by PW 4/29/20
18-123	Opportunity St - Marriott Hotel	Hogback	GC & JM		2 interior Retention swales; 2.69 Acre site, but does not drain to MS4.	Approved for construction by PW
17-096	Rainer St Development	Spurling CT	JM		Interior storm water mostly drains to 2 storm ponds; roadway water and a portion of parking lot water drain to 2 stormchamber facilities; UIC# 34552. Existing drainage into the development was not addressed by the applicant's Engineer; proposal submitted in April 2020 is for a perf pipe infiltration bed.	Approved for construction by PW 9/27/2019
18-128	CWU Health Sciences	CWU	JM		PGIS is less than 5000 square feet, site will reduce existing impervious square footage because of increased landscaping and existing building footprint smaller than the existing. Exempt in Chapter 2 of the SWMMEW for flow control and treatment. Rooftop water will go to a standalone rain garden as extra protection, but not required. CWU has provided a SWPPP, TESC and an O&M Plan.	Approved for construction by PW
19-069	407 N Water St - Apartment Building	Glahn	JM	9/19/19	BMP T.5.20 Infiltration trenches with perforated pipe is classified as a UIC. New UIC guidance and a new 2019 SMMEW came into existence August 1, 2019. Refer to chapters 1.4.6 and 5.6 of the new 2019 SMMEW. There is new rule authorization and/or permit required to meet the non-endangerment standard. Registration can be found on page 400 5.6.3 of the manual. the site is listed at DOE's UIC website.	Approved for construction by PW
	Completed Projects					
18-124	Airport Rd & Idaho Ave - Apartments	Stalder	JM		less than acre; does not drain to MS4. On-site proposed to have 2 swales. Roadway to drain to 3 roadside swales	Idaho Ave Approved for construction by PW
19-088	N. Main St - Mercer Creek Church Driveway	Mercer Creek Church	JM		Does not discharge to City MS4. driveway connection to new City roadway; drains to existing on-site church property.	
18-122	1307 N Dolarway Rd - Pilot Travel Center	Pilot	GC & JM		Does not discharge to City MS4. Site shows the runoff will be collected in several infiltration ponds and trenches that will meet the 100 year onsite, any overflow will go to a drainage ditch underneath I-90 and then onto the Yakima River, therefore they are exempt under chapter 2. A SWPPP and TESC have been submitted and the city will issue its PW permit.	Approved for construction by PW
18-121	111 W Helena - duplex sites	Jim Libenow	JM	Jan 2019	less than acre; does not drain to MS4	Approved for construction by PW
18-121	113-115 W Helena Ave - Duplex lots	Jim Libenow	JM	Jan 2019	less than acre; does not drain to MS4	Approved for construction by PW
18-099	Dolarway - Central Paving office & storage	CENTRAL PAVING LLC	GC & JM		6 acre site; does not drain to MS4	Reviewed by PW, plans approved 8/17/18
18-096	CWU Jongeward Paving Project	CWU	Morrow	5/30/18	Does not discharge to City MS4. No geo-tech report, depth to groundwater or perc test results to support drainage calculations for infiltration facilities. **UIC - Multiple CB with perf pipe in filter fabric wrapped drain rock**. Site is 1 acre or greater of disturbance, no SWPPP, O&M Plan, but TESC is approved per the plans. As of 4/22/20, their site is not listed at DOE's UIC website.	Approved for construction by PW
18-089	KVFR on Vantage Hwy	KVFR	JM	7/1/19	Demolish & re-build building; parking lot drainage will now go to 2 on site swales. Meets all the requirements of the SMMEW including geo tech	Approved for construction by PW
					Does not discharge to City MS4. Site is less than one acre disturbance so no TESC, SWPPP or O&M required and abandonment of swale is allowed	

Page 1

(2020-2021 Plan Review Spreadsheet example)

The project number, title, applicant, reviewer, comments, plan approval and status are the fields that get reviewed. Under comments, the status of the TESC and SWPPP are reviewed for completeness. Every project, public or private goes through the same internal process. With Ecology's assistance, a spreadsheet was made to run and simulate storm calculations to check up on sizing requirements. See column on review spreadsheet. After the permit is issued and groundbreaking commences, staff inspects the BMP's to ensure they match the plan requirements throughout the project. Staff keeps a daily log called the "Inspectors Daily Report" (IDR).

(Example IDR)

CITY OF ELLENSBURG

Public Works Department

Inspector's Daily Report

Project:	Pilot Flying J	**Date:**	9/24/2019
Weather AM:		**Weather PM:**	sun 80
Location:	Dollarway		
Contractor:		**presentative:**	Mike Ricker
Contractors:	Justin Schmidt/ Compass Land Development		
Equipment:	Backhoe		
Labor:			

Item Of Work	n-Progress	Complete	rosion Contro	Require	Installed	Approved
Saw Cutting			EC Plan			
Clearing/Grubbing	x		SWPP			
Excavation & Haul			Tire Wash			
Storm Sewer			Silt Fence			
Utilities			Wattles			
Water			Wattles			
Sidewalks			Check Dams			
HMA Patch			Drain Filter			
Signage			Seeding/Sod			
Punch List			Sed. Ponds			
Sewer						
Paving						

raffic Control Needed **Yes** **No** **ffic Control Acceptab** **Yes** **No** **N/A**

Drove by the project and noticed that there was an 8 inch pipe running out towards the ditch and being pumped up from the ground. I talked with Mike Ricker about Dust and Socks in the catch basins and potential track out. He told me that Ecology was visiting him about the pipe going to the ditch.

Photos/Video taken?		Inspector's On Site Hours
yes	Dustin Auckland	0.5 Hours

The City's construction inspector keeps daily inspection records. (See example above)

All construction site operators, developers, and engineers are provided information on erosion control training available, how to install effective Best Management Practices (BMP's) and how to comply with requirements in Appendix 1 of the Phase II Eastern Washington Municipal Permit. Information is provided on how to apply and install the BMP's as prescribed in Chapter 7 of the Stormwater Management Manual for Eastern Washington.

Training for private contractors is provided annually as a part of the "Contractors training safety seminar" held every year at the Kittitas County Fairgrounds. (See outreach education Dial 811 Training) The stormwater utility is a guest speaker annually and provides training on Low impact development, erosion control, spill control and other various stormwater related topics as they relate to construction. This event will not happen in 2021 due to COVID.

Internally Capital Improvement projects undergo the same scrutiny with regards to permitting, erosion control, plan review, field inspections and guideline compliance as the private sector.

In 2014 the Utility created a flyer aimed at educating contractors to implement erosion control on all sites even if the threshold is less than one acre. The flier is handed out to all developers and contractors at predevelopment meetings and is available in the Building Department at City Hall.

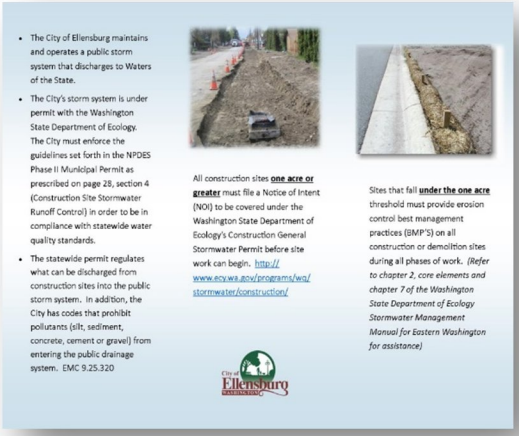
- Minimize track out by stabilizing construction entrance/exit
- Washout concrete slurry onsite
- De-water only clean water
- Use of silt fence or straw waddles to protect toe of slope
- Saw cutting slurry is not allowed to enter the storm system

New for 2013-2014

Erosion Control is Now Required on All Construction Sites and Demolitions

Sites may apply for an "Erosivity Waiver" If they qualify under Appendix 1, Core Element 2 of the Eastern Washington Phase II Municipal Stormwater Permit.

Contact the Stormwater Utility With questions at (509) 929-3844



- The City of Ellensburg maintains and operates a public storm system that discharges to Waters of the State.
- The City's storm system is under permit with the Washington State Department of Ecology. The City must enforce the guidelines set forth in the NPDES Phase II Municipal Permit as prescribed on page 28, section 4 (Construction Site Stormwater Runoff Control) in order to be in compliance with statewide water quality standards.
- The statewide permit regulates what can be discharged from construction sites into the public storm system. In addition, the City has codes that prohibit pollutants (silt, sediment, concrete, cement or gravel) from entering the public drainage system. EMC 9.25.320

All construction sites **one acre or greater** must file a Notice of Intent (NOI) to be covered under the Washington State Department of Ecology's Construction General Stormwater Permit before site work can begin. http://www.ecy.wa.gov/programs/wq/stormwater/construction/

Sites that fall **under the one acre** threshold must provide erosion control best management practices (BMP'S) on all construction or demolition sites during all phases of work. *(Refer to chapter 2, core elements and chapter 7 of the Washington State Department of Ecology Stormwater Management Manual for Eastern Washington for assistance)*

E. Public Involvement and Participation

On the third Wednesday of each month, the City of Ellensburg's Environmental Commission holds its public meeting at 5:15 pm, at 501 North Anderson Street (City Hall). The meeting is open to the public. From time to time, the agenda will have stormwater items requiring SEPA that is reviewed by the committee.

The City of Ellensburg Utility Advisory Committee (UAC) meets on the 3rd Thursday of the month from 3:30-5pm at City Hall and these meetings are open to the public. All committee meetings have stormwater agenda items and will remain to do so in the future. This plan goes before the UAC for public approval and is recommended by the UAC for City Council approval. Most items like SWMP, O&M, grants/projects and ordinances always are presented at the UAC first, then to City Council for authorization and public comment.

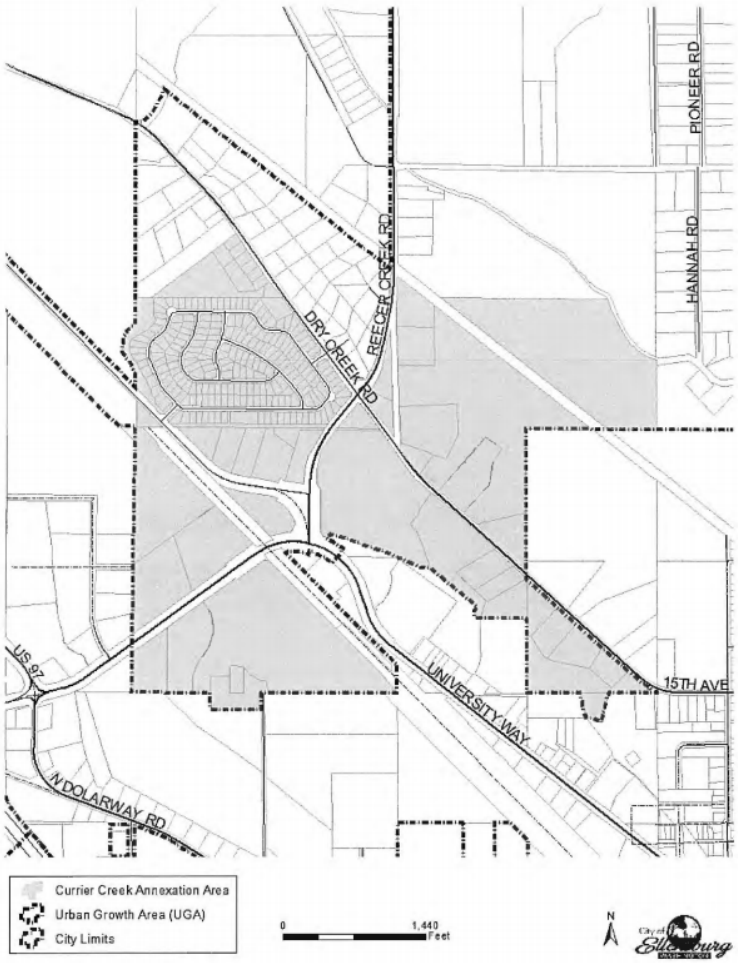
The public is always welcome to comment on the utility's program development, the City's NPDES permit, how to volunteer or general questions regarding the utility. The City's stormwater webpage offers citizens a chance to voice concerns, report problems and be informed of upcoming events. The public can contact the Stormwater Utility Manager at 509-925-8619 with questions, concerns or comments.

One annexation occurred in 2020. Ordinance NO. 4847

ORDINANCE NO. 4847 AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF ELLENSBURG, WASHINGTON, ANNEXING AN AREA COMMONLY KNOWN AS THE "CURRIER CREEK ANNEXATION AREA" AND DEPICTED IN EXHIBIT A, AND WHICH INCLUDES PARCELS LISTED AND LEGALLY DESCRIBED IN EXHIBIT B, TO THE CITY OF ELLENSBURG, WASHINGTON, ASSIGNING SIMULTANEOUS ZONING CLASSIFICATIONS AS DEPICTED IN EXHIBIT C, PROVIDING FOR THE ASSUMPTION OF EXISTING CITY INDEBTEDNESS AND FIXING A TIME WHEN THE SAME SHALL BE EFFECTIVE. WHEREAS, on June 11, 2019, the City of Ellensburg submitted a notice of intention to commence annexation proceedings pursuant to the "direct petition" method of RCW 35A.14.120 for parcels depicted in Exhibit A and further described in Exhibit B, said exhibits incorporated herein by this reference, known as the "Cunier Creek Annexation Area"; and WHEREAS, on June 17, 2019, the City Council ofthe City ofEllensburg, Washington held a public meeting with the annexation initiators pursuant to RCW 35A.14.120 and detennined that the initiators could proceed to acquire a 60% petition for annexation pursuant to RCW 35A.14.120; and WHEREAS, at its June 17, 2019 public meeting the City Council set the annexation area and fmiher detem1ined that the property subject to atmexation would be assigned zoning designations, and assume the annexation area's share of City indebtedness; and WHEREAS, the owners or the Mayor on behalf of owners with a Utility Extension Agreement of not less than 60% in value, according to the assessed valuation for general taxation of the property hereinafter described, signed the petition pursuant to RCW 35A.14.120 for the annexation of said area to the City of Ellensburg, Washington; and WHEREAS, the petition for annexation was certified as sufficient by the Kittitas County Assessor, on December 18, 2019, having determined that the petition signatures have a combined total assessed

value for general taxation of not less than 60% of the total assessed value for general taxation of all property in the proposed annexation area, in compliance with RCW 35A.OI.040; and WHEREAS, the City provided public notice of the petition for annexation and has provided an opportunity for comment thereon by all interested citizens; and WHEREAS, on December 12, 2019, pursuant to proper notice given in accordance with RCW 35A.14.130, the Planning Commission conducted a public hearing on the proposed annexation, and following such hearing recommended City Council approve the annexation Ord. 4847 - Almexation ofP19-075 - Currier Creek Area - Page 1 of 16 (03/02/20) request and upon annexation recommended the property be zoned a combination of ResidentialSuburban, Residential-Low, Residential-Medium and Cmmnercial-Highway zoning; and WHEREAS, on January 21 and March 2, 2020, pursuant to proper notice given in accordance with RCW 35A.I4.130, the City Council received and reviewed all of the documentation associated with this mmexation proposal, conducted public hearings on the proposed annexation in accordance with RCW 35A.I4.140 and RCW 35A.I4.330-.340, and following such hearings determined to effect the annexation of the territory described in Section 1 of this ordinance, finding that the petition for annexation met the applicable requirements, and that the best interests of the City of Ellensburg, Washington will be served by the annexation and that it is appropriate to good government of the City of Ellensburg, Washington and therefore accepted the petition for annexation pursuant to RCW 35A.I4.120 and Chapter 15.360 ofthe Ellensburg City Code; and WHEREAS, following the January 21, 2020 hearing, the City Council assigned zoning to the area being annexed through a combination of Residential-Suburban, Residential-Medium, Light-Industrial (1-L) and Conunercial-Highway zoning, as shown in Exhibit C, incorporated herein by this reference; and WHEREAS, the territory described in Section I of this ordinance is contiguous to the City ofEllensburg, Washington and entirely within the City of Ellensburg Urban Growth Area established pursuant to RCW 36.70A.I10, NOW THEREFORE, THE CITY COUNCIL OF THE CITY OF ELLENSBURG, WASHINGTON, DO HEREBY ORDAIN AS FOLLOWS: Section 1. Annexation. The parcels and rights-of-ways described in Exhibit Bare hereby annexed to and made a part of the City of Ellensburg, Washington. Section 2. Assessment and Taxation. All property within the tenitory so annexed shall be assessed and taxed at the same rate and on the same basis as other property of the City of Ellensburg, Washington is assessed and taxed to pay for any outstanding indebtedness of the City of Ellensburg, Washington as presently adopted or as is hereafter amended. Section 3. Comprehensive Plan Designation. All property within the tenitory so annexed shall be subject to and a part of the Comprehensive Plan ofthe City ofEllensburg, Washington as presently adopted or as is hereinafter amended. Section 4. Land Use Designation and Zoning. Pursuant to authority ofRCW 35A.14.330, all property within the tenitory so annexed, and as described in Exhibit B, attached hereto, shall be hereby zoned as depicted in Exhibit C. Ord. 4847 - Annexation ofP19-075- Cunier Creek Area- Page 2 of 16 (03/02/20) Section 5. Transmittal and Filing. The Ellensburg City Clerk is directed to file a certified copy of this ordinance with the Kittitas County Auditor and the Kittitas County Board of County Conm1issioners. Section 6. Severability. If any pmtion of this ordinance is declared invalid or unconstitutional by any court of competent jurisdiction, such holding shall not affect the validity of the remaining portion(s) of this ordinance. Section 7. Co.-rections. Upon the approval of the City Attomey, the City Clerk and the codifiers of this ordinance are authorized to make necessary corrections to this ordinance, including but not limited to, the conection of scrivener's/clerical enors, references, ordinance numbering, sections/subsections numbers and any references thereto. Section 8. Effective Date. This ordinance shall take effect and be in full force five (5)

days after its passage, approval and publication. The foregoing ordinance was passed and adopted at a regular meeting of the City Council on the 2nd day of March, 2020. Approved as to form: CITY ATTORNEY Publish:3-I-7.(J7.0 Dv.':,.\){'\ bo.-\1'\'bW" Q_ ATTEST: I, .8eth Leadt:t, City Clerk of said City, do hereby certify that Ordinance No. 4847 is a tme and conect copy of said Ordinance of like number as the same was passed by said Council, and that Ordinance No. 4847 was published as required by law. Ord. 484 7 - Atmexation of P 19-07 5 - Cun·ier Creek Area - Page 3 of 16 (03/02/20) Currier Creek Annexation Area Urban Growth Area (UGA) City Limits EXHIBIT A -~==----i.'~~et Ord. 484 7 - Atmexation of P 19-07 5 - Currier Creek Area - Page 4 of 16 (03/02/20)

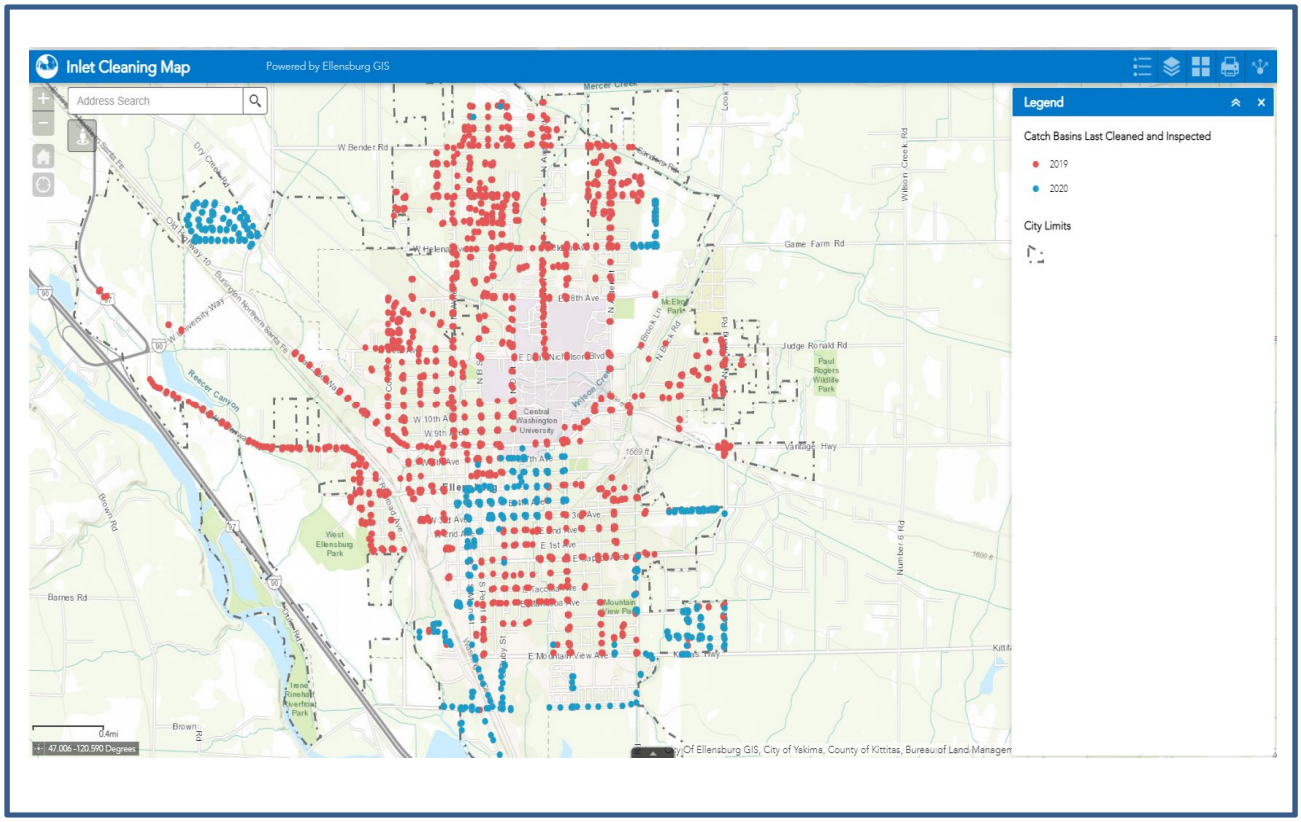


Ord. 4847 – Annexation of P19-075 – Currier Creek Area – Page **4** of **16** (03/02/20)

F. Municipal Operations and Maintenance

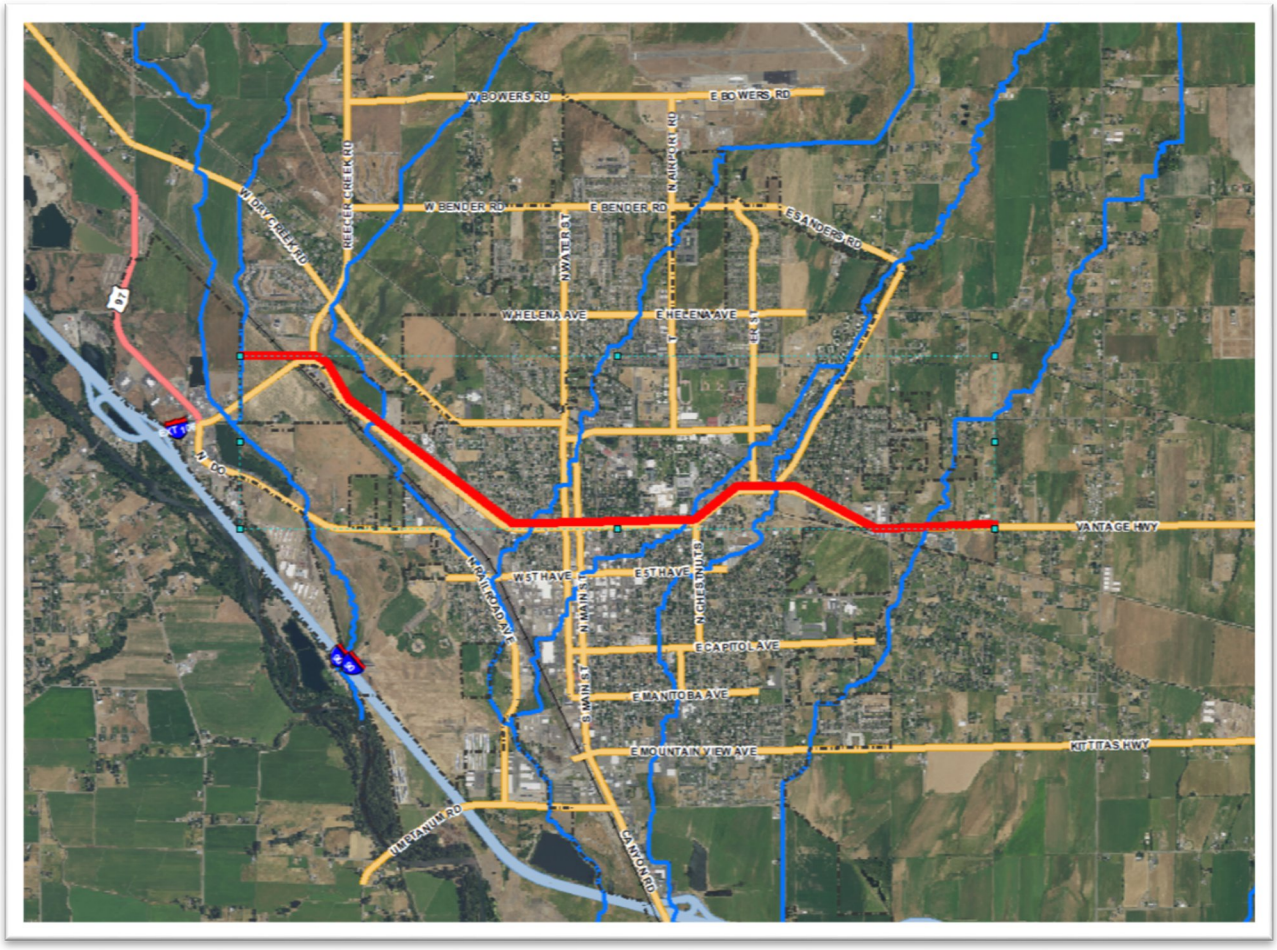
The City of Ellensburg wrote its own Operation and Maintenance (O&M) Plan in 2010. The Utility updated that plan in 2017 to meet the permit requirement S5 6a. All City staff is trained on Best Management Practices (BMP's) and pollution prevention. A copy of the updated O&M plan is available upon request.

As previously mentioned in the IDDE section, the vactor truck is outfitted with a software tool that tracks inspection, cleaning and jetting. City crews were successful cleaning all of Ellensburg's storm system in the years 2014-2017. 2020 cleaning map below shows all of the town was cleaned and inspected for IDDE.



Cleaning and inspection map 2019-2020

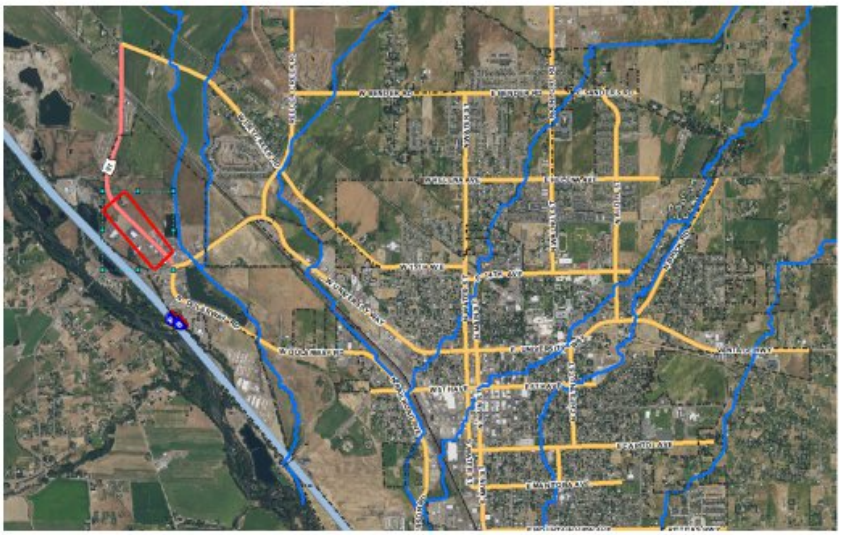
The city has inspected and cleaned the entire system three times since 2017 . The new permit is requiring the town be inspected and cleaned every two years instead of four. The city met these obligations in 2019 and 2020. The city recently budgeted for a full time employee to spend 6 months on the storm vactor truck with Bryan and the other 6 months (off season) with sewer. This assures the system has 6 months (April-September) of inspection and cleaning. The town is divided into two sections, each receiving 6 months of attention (see map below).



On page 38 is the inspection and cleaning map for 2019-2020.

G. S8 Monitoring and Assessment

The City of Ellensburg took lead on its own study, which was one of eight studies accepted by ECY in the approved list from the Eastern Washington Stormwater Group. The study compares street sweeping to catch basin cleaning on State Route 97. The study runs for two years and will deliver a final report to ECY on the findings.



The study (red shaded box) is on State Route 97 west of the west interchange. The area was chosen because it's flat, has four catch basins evenly spaced on each side of the road, lots of traffic and no trees. The study will sweep one side of the street 2018, clean catch basins the opposite side 2018 and then flip flop for 2019.

Data collection began April 2018 and ran through October of the same year. The study conducted two technical advisory (TAG) meetings in 2018. One to kick off the project and one to wrap up for the year end. Pictured are data collection events, assemblage of the field apparatus, laboratory sample results, data recovered on graphs and miscellaneous photos of 2018. A lot of work, time and money has been spent on this study. As mentioned above, the stream source tracing program had to be suspended because of the enormous time commitment and money devoted to this monitoring requirement in the permit.

See project photos and descriptions following pages.

Final report for project attached.

https://ci.ellensburg.wa.us/DocumentCenter/View/14322/City-of-Ellensburg-Street-Sweeping-vs-Catch-Basin-Cleaning-Effectiveness-Study-Final-TER

Step 1, obtain locates in the field

Step 2, make and install outfall equipment

Step 3, pre-measure catch basins

Step 4, pre-weigh collection socks

Step 5, install socks in all 8 outfall catchments

Step 6, make and install drain tube valves

Step 7, get tare weight on all tanks

Step 8, set out tanks for collection day

Step 9, collection day

collection day

Step 10, remove sediment sock

Step 11, decant vactor

Decant sweeper

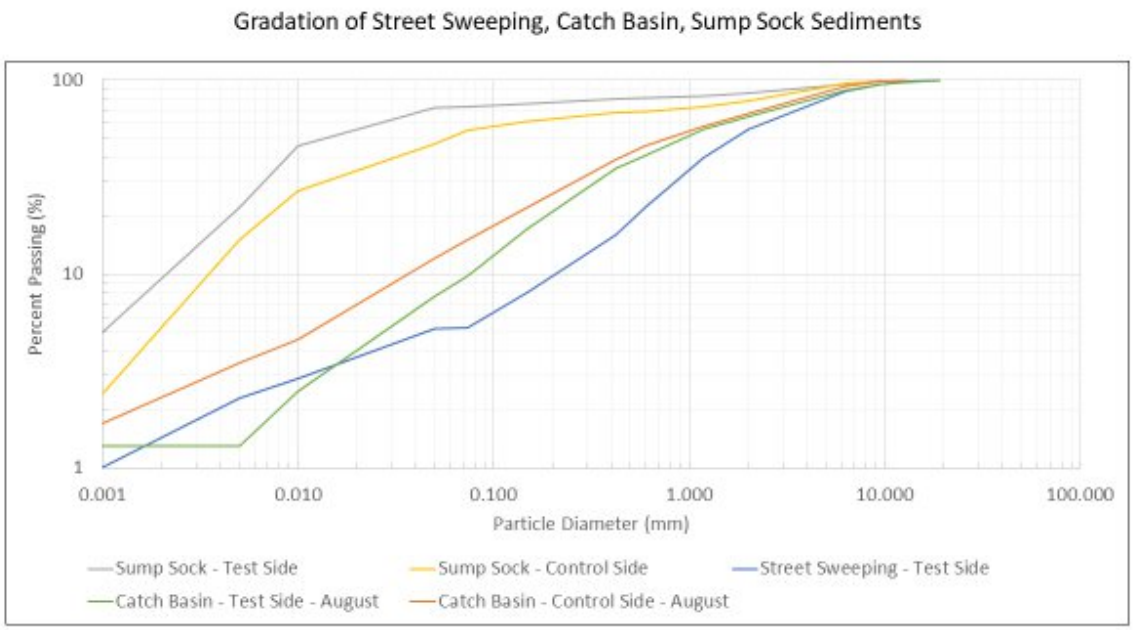
Fill both containers

Let all tanks drain and evaporate for two weeks

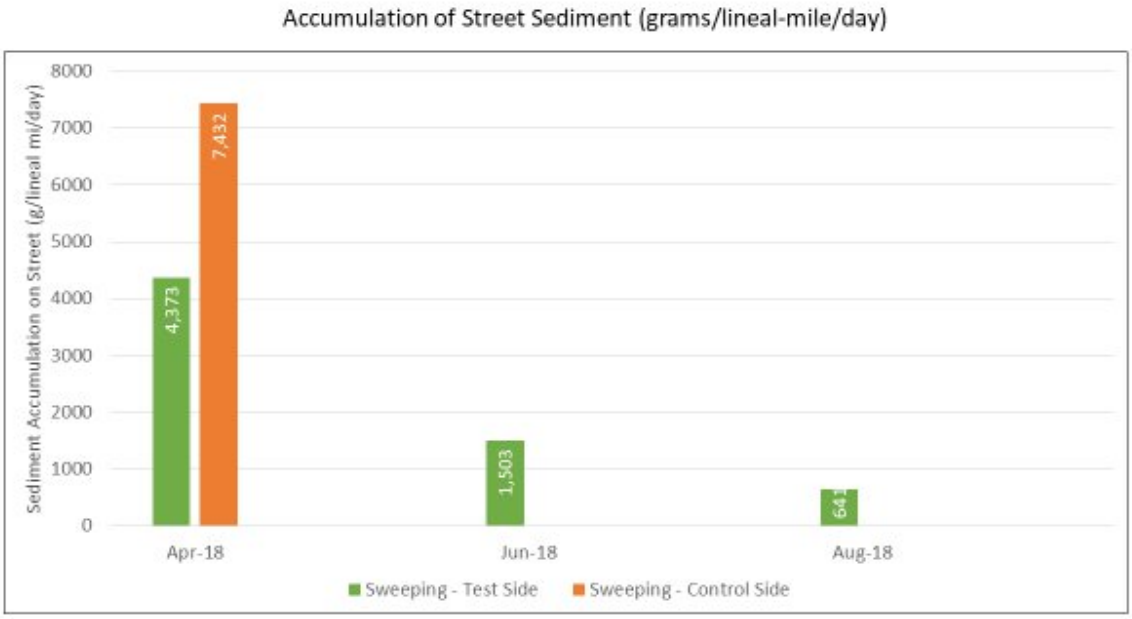
Step 12, after completely draining, weigh all tanks and begin sediment collection/ send to lab for testing

Samples are collected from each tank for particle size distribution, moisture content and organic content. Samples follow the chain of custody, put on ice and sent overnight to the lab.

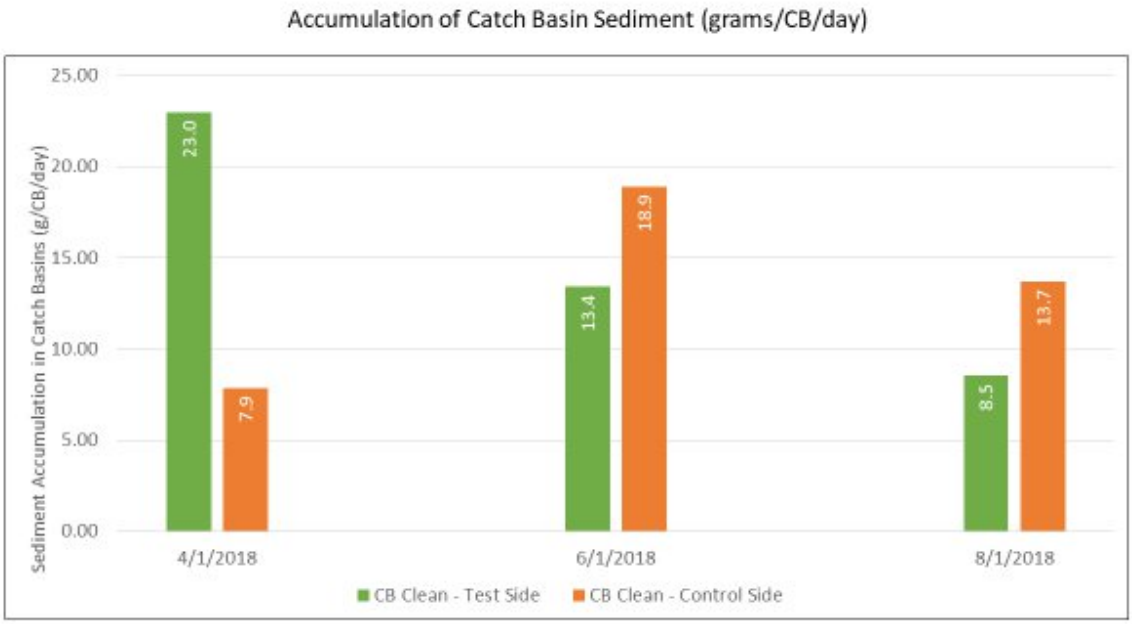
Next page shows the data results.



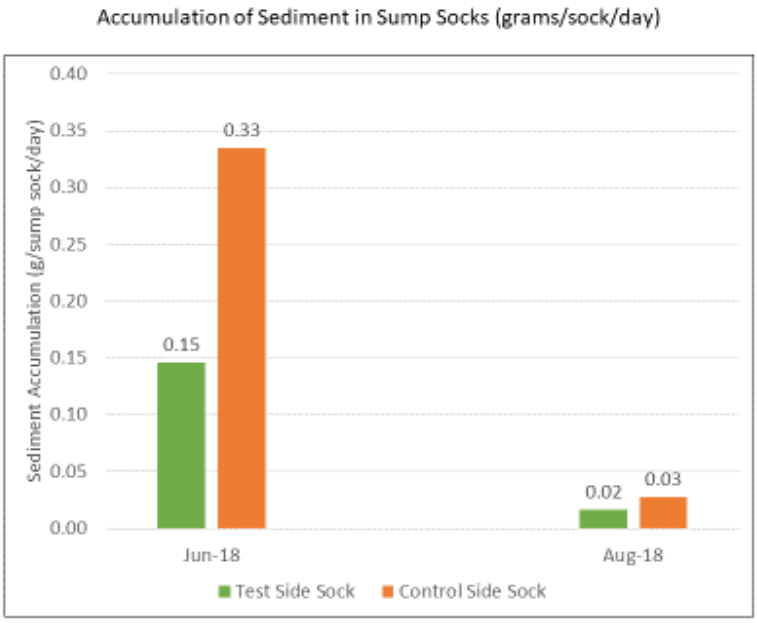
Sump socks showing particle diameter and percent passing through the sieve.



Shows sediment accumulation collected for both sides and operations.



Accumulation of catch basin sediment collected both sides



Accumulation of sediment in sump socks

Synopsis for year one: I think right now the study is showing us that the sweeper collects large particles and the fines end up in the catch basin. Indicating both operations serve a viable

purpose. Data may suggest after one more year of collection that sweeping does a better job or vice versa. For the remainder of 2019 the project will carry on with data collection starting April 1 through October, but will switch the test and control sides. The project wrapped up in 2020 and the final report is posted on the city's stormwater web page.

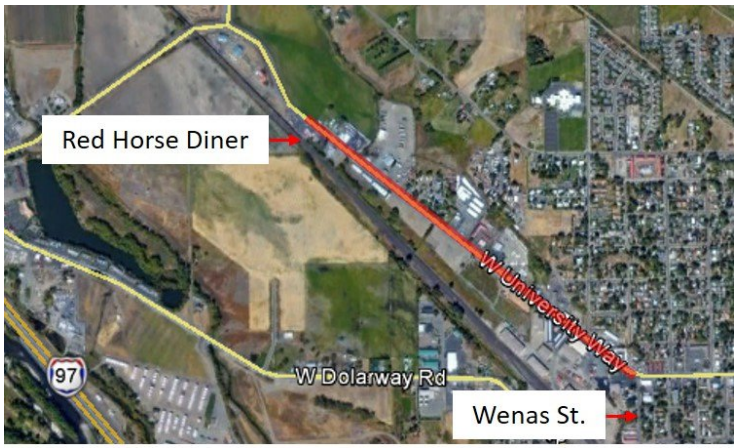
The link to the final report is below.

https://ci.ellensburg.wa.us/DocumentCenter/View/14322/City-of-Ellensburg-Street-Sweeping-vs-Catch-Basin-Cleaning-Effectiveness-Study-Final-TER

H. Achievements and Planned Activities

1. Stormwater Gateway Grant WQC-2019 EllePW-00012

In 2017 the City applied for grant funding with the Washington State Department of Ecology's Stormwater Financial Assistance Program. The application requested funding to retro-fit two miles of University Avenue and install stormwater treatment (bio-infiltration swales) along with porous concrete pedestrian/bicycle paths on both sides of the road. At the time of writing this plan, the project is at 100% design and expected to be constructed 2021-2022.



Attached is the fact sheet that outlines the entire project. (See below)

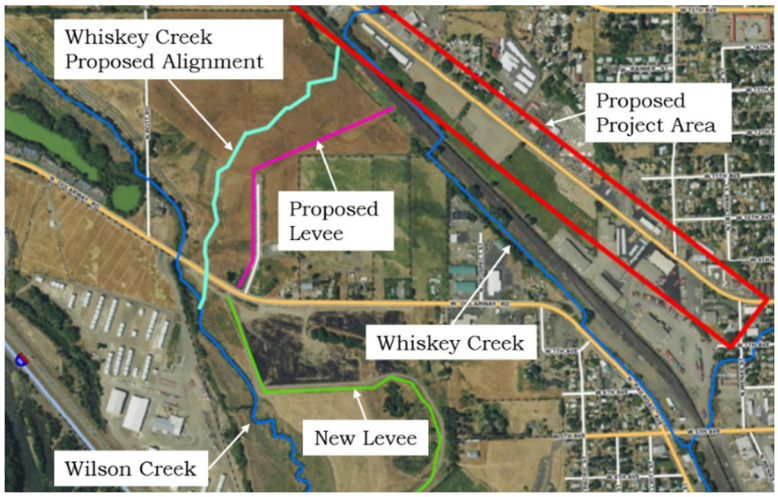
University Way from Wenas Street to Red Horse Diner

The proposed project is located in the City of Ellensburg along a one-mile stretch of University Way between the Red Horse Diner and Wenas Street. This city street is on the national highway system and includes two lanes and a center turning lane (each 12-foot wide) and two 4-foot wide shoulders. University Way has an annual average daily traffic (AADT) count of 7,400 to 11,000 making it the second busiest arterial in Ellensburg and the main arterial from I-90 to downtown Ellensburg and Central Washington University. This area is zoned as light industrial and the land cover within the 100-foot right-of-way (measured from the centerline to both sides of the street) is primarily pollutant generating impervious surfaces (PGIS).

Background Information

This location was selected for a stormwater LID retrofit project because water quality impairments have been documented in the creeks adjacent to the project and stormwater has been identified as a pollutant source. The project site was developed prior to the implementation of the Phase II NPDES MS4 permit. As such, no structural treatment or flow control BMPs are located within the project area. Instead, untreated runoff is collected in grate inlets and conveyed through an existing storm drain network to both Whiskey and Mercer Creeks. Mercer Creek and Whiskey Creek are both tributaries of Wilson Creek. Wilson Creek is listed on Ecology's 303d water body list for bacteria, TSS, and temperature. Wilson Creek has a TMDL for these parameters, which calls for the city to reduce untreated stormwater runoff from municipal applications. Whiskey Creek is the preferred conduit for the reintroduction of steelhead as defined in the Yakima Basin Integrated Plan (YBIP).

Flooding is an issue in the project area. During rain on snow events, businesses along University Way have reported flooding on their property. The 6-year improvement plan for the project area focuses on floodplain projects and creek realignment. A new levee was constructed southwest of the project area and another levee is proposed west of the project area. The proposed realignment of Whiskey Creek is part of a Washington State Department of Ecology's Floodplains by Design project that is intended to improve the creek habitat suitability for steelhead salmon. The proposed alignment will connect to Reecer Creek which was also recently realigned. Reducing pollutant loading from stormwater (TSS and dissolved metals Cu and Zn) from the 2nd busiest street in Ellensburg to these Creeks will support the City in meeting their TMDL obligations for improving water quality and providing a habitat suitable for anadromous fish populations.



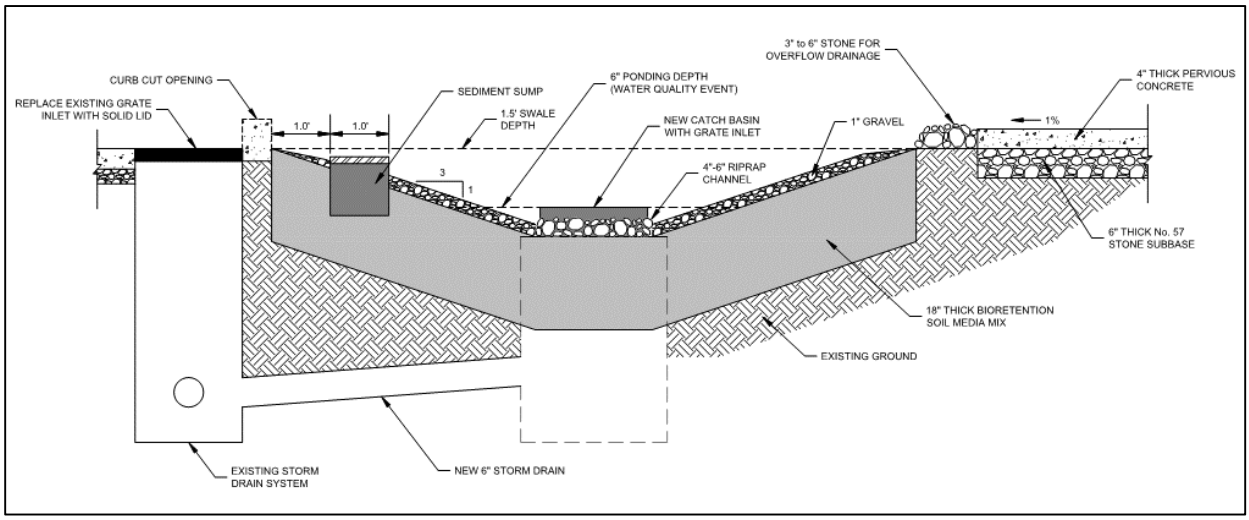
Project Goals & Approach

Project Goals	Approach
Improve water quality in Whiskey, Mercer, and Wilson Creeks	Decrease pollutant loading to creeks by: • Remove PGIS within the right-of-way • Provide treatment of stormwater runoff using BMPs bio-infiltration swales • Reduce vehicular traffic on University Way by adding bus stops, bike lanes & sidewalk
Bring street up to municipal standards	• Move power lines underground • Upgrade lighting • Install curbs and gutters (where existing is nonstandard or degraded)
Provide example of how to implement LID in a semi-arid location and provide community beautification benefits	• Use BMPs that do not require *supplemental water source* such as permeable pavement and bio-infiltration swales with a rock mulch • Use drought tolerant trees
Improve interconnectedness of pedestrian pathways in natural and urban areas	Connect proposed permeable paver sidewalk to levee extension trail and maybe John Wayne trail in near future.
Integrated watershed approach	Incorporate recommendations for management of municipal stormwater from YBIP, the Wilson Creek TMDL, and the City's transportation utility into the design

Project Vision for Stormwater Management

Existing PGIS adjacent to the road (and within in the right-of-way) will be removed and replaced with a permeable concrete/paver pedestrian pathway (7-feet-wide on the north side and 12-feet-wide on the south side). Linear bio-infiltration swales will be constructed parallel to the road and located between the road and sidewalk. The swale design will resemble a dry riverbed with rip-rap at the swale base, 1-inch gravel on the side slopes, and drought tolerant trees planted in the swale. The existing grate inlets on University will be replaced with solid lids and new curb cuts will be added to intercept and direct stormwater runoff to the swales. The swales will be designed to provide treatment for the water quality event (6-month, 24-hour) which will occur as runoff ponds in the swale and infiltrates through a bio-infiltration soil media to the underlying soils. Runoff from larger rainfall events will overflow into catch basin installed in the swales (the rim elevation of grate inlet is 6 inches above the swale bottom) which will connect to the existing storm drain network.

University Way today (left) and after stormwater retrofit construction (right)



Proposed bio-infiltration swale and permeable concrete sidewalk cross section

Hydrological & Geotechnical Information

Ellensburg is located in Central Washington, a semi-arid region with climate conditions characterized by cold winters with snowfall and hot dry summers with high winds and short-duration high intensity rainfall events. The Mean Annual Precipitation in Ellensburg is 9 inches, of which 22 inches is in the form of snow. The Soil Web survey indicates that the hydrologic soil group is predominantly C and D. As such, the infiltration rate for the conceptual BMP design was assumed to be 0.5-inches/hour. The groundwater elevation is estimated to be within 5- to 10-feet of the ground elevation and highest during the summer months due to irrigation returns from upland areas. Both a geotechnical and groundwater investigation will be conducted prior to the start of design to verify the actual field conditions.

Project Budget

The estimate for the design and construction costs for the Gateway to Ellensburg Project is $3.3M. The City of Ellensburg's plans for funding the project include the following combination of sources:

- Stormwater Retrofits – Ecology grant funding from the Stormwater Financial Assistance Program (SFAP).
- The City's Gas and Light Department will underground and re-locate their utilities at their own expense of $1.8M.
- Relocate Utilities – The City plans to fund the design/construction for relocating utilities prior to construction of the stormwater retrofit project because they are currently located where the proposed BMPs will be installed. This includes:
    - Utilities and Lighting – $1.3M to move utilities and lighting. Both utilities and lighting will be upgraded to current municipal standards.
    - Gas – $0.5M to relocate gas lines.

Project Timeline	
Winter/Spring/Fall 2019	Begin Design
2020	Design/Permit
2021	Begin Construction of Overall Project
2022	Finish Construction
December 31, 2023	Final Acceptance/Closeout Grant

2. Gateway II WQC-2020 EllePW-00053

The city was successful obtaining grant funding from the Department of Ecology to design, permit and construct Gateway II. Gateway II is the same identical project as Gateway I in scope and size, just on the opposite end of town. The agreement between Ecology and the City is fully executed. Once the annual report and management plan are finished in March 2021, we will begin our search for a consultant to begin designing the project. Next page is an artist rendition of what the project might look like when finished on one side of the street. The project will be constructed on both sides of the street.

Curb Cut Opening
Upstream of
Catch Basin
1" Gravel
1" Buffer with
3" to 6" Stone for
Overflow Drainage
4" Thick
Porous
Concrete
New Overflow
Storm Drain
System
18" Bioretention
Soil Media Mix
Existing
Ground

3. Reccer/Currier Floodplain Project

The city has been working on flood management projects with regards to West Ellensburg and Reecer Creek since 2010. Phase I re-located a section of Reecer Creek into a new channel that supported fish habitat and constructed a setback levee. Phase II bonded five million dollars to acquire 56 acres of land, extend the setback levee up to the Burlington Northern Railway, build a new fish passable 35 foot bridge on Dolarway and three contiguous flood swales. The project is slated for construction 2021-2022.

I. S7 Permit Requirements (TMDL)

The Utility will resume distributing literature to citizens at recreational swimming areas and streamside homeowners to not feed water fowl. This information is on a flier and goes out in the utility billing annually. This is the requirement under S.5.B.1 in appendix 2 of the NPDES permit TMDL.

In addition to the waterfowl education, the city is required to have pet waste stations at all public parks, city property and open spaces. The City has pet waste stations at all locations and they are maintained by city staff.

J. Operation and Maintenance Plan Update 2020

Every five years the NPDES permit requires permittees to update their stormwater operation and maintenance plan. The plan shall document all field activities performed by city work crews and address pollution prevention at the shop. The plan addresses best management practices for each activity. The plan update is available upon request and was completed July 2017. The plan serves as the stormwater pollution prevention plan (SWPPP) for the city shop/treatment plant as approved by Ecology. (See Ecology E-mail below)

Hello Jon,

Nice to hear from you and happy New Year! Your second email literally gave me the chills.

OK, regarding the O&M plan and the SWPPPs: The permit requires SWPPPs for material storage areas, heavy equipment areas, and maintenance areas – which likely applies to the shop.

As it sounds like your O&M plan includes all the important and applicable SWPPP elements, you do not need to fill out the SWPPP template as well. The important thing is that the O&M plan or at least the portion that applies to the shop is kept on site so that staff can have access to it, the BMPs are inspected and maintained, and staff is properly trained. You could also include an explicit statement that the O&M plan for the shop will serve as the SWPPP.

Although there is no surface water or MS4 discharge the permits do apply to discharges to ground…

Thanks for the question, I appreciate your diligence!

Abbey

It has been decided at the time of writing that the maintenance shop will be getting a SWPPP. Although it's not needed, one will be drafted to accompany the O&M plan update scheduled for 2021.

Appendices:

Stormwater Utility Budget

https://g3coe-my.sharepoint.com/:b:/g/personal/morrowj_ci_ellensburg_wa_us/EbmyLXGwufZAvURsvvLZLXEBFbiq2AoRR6tT8pJKFsFMjg?e=MwEDVW

AGENDA REPORT

Meeting Date: May 20, 2021

Agenda Subject: City Gas Division is a recipient of the System Operational Achievement Recognition (SOAR) award.

Submitted by: Darin Yusi Public Works & Utilities

Recommended Action or Motion: Information Only.

Background/Summary: In 2014 the American Public Gas Association (APGA) began a process to honor natural gas distribution utilities that demonstrate commitment to excellence in four areas: System Integrity, System Improvement, Employee Safety, and Workforce Development. The result of their process was the System Operational Achievement Recognition (SOAR) award. This award was given to utilities who demonstrated their commitment to excellence through a lengthy application process that is scored by experts from the APGA Operation and Safety Committee. There are three award options, Gold, Silver and Bronze.

The City Gas Division has applied in the past and received the Bronze recognition. The application for award also serves as an accountability for system improvement and the City Gas Division works hard to constantly improve upon its already high level of achievement in its commitment to the four areas of SOAR.

The City's Natural Gas Division has been recently selected as one of fifteen (SOAR) recipients recognized in 2021 by the APGA. Out of approximately 750 APGA members, the City of Ellensburg Gas Division was selected for SOAR level Silver by its peers on the APGA Operations and Safety Committee.

The APGA press release is attached.

Previous Council Action: n/a

Analysis: n/a

Financial Impact: None

Attachments:
SOAR - Press Release - 2021.pdf

FOR IMMEDIATE RELEASE
CONTACT: Erin Kurilla, Vice President of Operations & Safety
Phone: (202) 905-2904
Email: ekurilla@apga.org

APGA Congratulates the City of Ellensburg Gas Division for Operational Excellence!

Washington, DC- (May 3, 2021) - The American Public Gas Association (APGA) presented the City of Ellensburg Gas Division with the prestigious APGA System Operational Achievement Recognition (SOAR) for excellence in operating its natural gas utility. Public natural gas systems are entrusted by their customers to deliver clean and affordable natural gas through a safe and reliable distribution pipeline system. To accomplish this mission, a forward thinking natural gas utility constantly strives to improve its operating capabilities, overcome challenges and adapt to its changing environment.

Out of approximately 750 APGA members, the City of Ellensburg Gas Division was selected for SOAR level Silver by its peers on the APGA Operations and Safety Committee. The selection was based on demonstrated excellence in the four areas of system integrity, system improvement, employee safety, and workforce development.

System integrity refers to the natural gas distribution system performing its overall intended function safely, efficiently and effectively—distributing energy to all customers without being degraded or impaired by its internal or external environment. System improvement refers to keeping the natural gas system well maintained and up-to-date through a self-improvement program that includes both an eye on the future through research and development, technology integration and a commitment to system improvement programs. Systems that exhibit excellence in employee safety include adopting a safety program that includes policies and procedures for education involvement and accountability for all employees, as well as tracking safety performance. Lastly, workforce development focuses on creative recruitment, training, education and development practices that provide a return on investment through increased employee loyalty, motivation, safety and productivity.

APGA President and CEO Dave Schryver remarked, “The City of Ellensburg Gas Division was highly rated in all four areas that are required of SOAR. The City of Ellensburg Gas Division consistently demonstrates a commitment to providing natural gas safely and efficiently to all those in their community and as such, serves as a model for all other natural gas utilities in the country. APGA is proud to recognize the City of Ellensburg Gas Division and is confident in their continued success.”

The City of Ellensburg Gas Division was one of fifteen SOAR recipients recognized in 2021, joining the 41 previous SOAR award recipients. The system also received a plaque signifying the City of Ellensburg Gas Division’s commitment to and achievement in excellence in operating a natural gas utility system. APGA looks forward to recognizing the City of Ellensburg Gas Division at its Annual Conference in Santa Ana Pueblo, New Mexico in July.

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APGA is the national association of municipally and publicly-owned local distribution systems. There are about 1,000 public gas systems serving more than 5 million customers. These public gas utilities are not-for-profit retail distribution entities that are owned by, and accountable to, the citizens they serve. They include municipal gas distribution systems, public utility districts, county districts, and other public agencies that have natural gas distribution facilities.

Ellensburg Utility Advisory Committee
Public Works & Utilities Issues and Updates
May 20, 2021

Consent Items

Agenda Reports for items approved by the City Council since our last meeting are attached.

All Utilities

- Bull Road utility project began on Monday, March 15th

- Staff was contacted by Representative Kim Schrier's Office to submit appropriation requests for projects. Staff did participate in a meeting with a representative of Shrier's office and decided to submit three potential projects that might best fit. Staff submitted: 1) The Anderson Road Sewer Project $2,650,000 with a $980,000 request in the appropriation request (remainder funded through City bond) 2) City of Ellensburg Wastewater Treatment Facility – Renewable Natural Gas (RNG) Conversion/Aeration Process Replacement $14,500,000 with a 20% City match 3) Renewable Natural Gas Conversion and Methane Gas Recovery at the City of Ellensburg Wastewater Treatment Facility $1,050,000 with a 20% City match. Representative Schrier recently notified the Public Works & Utilities Department that its application was one of 80 submitted to her district, and was recently selected as one of her district's top 10 projects which are still in consideration for funding. Potential award of the grants funds is not expected to be made until later this year. If the City is successful in pursing the grant, construction would occur in 2022-23. Representative Shrier met with City staff and the Mayor at the wastewater treatment facility Saturday, May 8th to review the project.

Sewer

- Collections crews are training the new Collections Serviceperson.
- Collections crews are continuing work on the Spring Jet List.
- Crews are continuing grounds maintenance projects at the WWTF.
- WWTF staff are preparing for installation of the four new, recently received aerators.

Water

- Water pumped for April 2021 was 110,137,144 compared to April 2020 which was 104,451,000.
- Crews are repairing leaks discovered during phase 1 of leak survey.
- Staff is working with Coho Water Resources on various water resource items.
- The water utility is working with Conley Engineering on replacement of the telemetry system software.
- Crews are performing valve and hydrant maintenance.

Storm

- Stormwater Management Plan update and the annual report are finished and submitted to Ecology. The management plan will be on the UAC May agenda for approval and acceptance.
- Gateway, I design is nearing 100%. Staff is working with communications along the corridor. The project may bid in the fall of 2021.
- Gateway II, staff will prepare to select a consultant next week to begin design.

- Bridge levee re-design is underway and alongside this effort is the certification work both by Aspect Engineering. Both are being worked on simultaneously so a re-design can meet FEMA standards. Hope is to go out to bid late summer at this point.
- Staff gave two presentations regarding the street sweeping study and gateway I at the annual Municon Stormwater Conference April 5-8, 2021.

Electric

- A Journeyman Lineman position is still vacant and being advertised as well as a Temporary Lineman.
- Crews are focusing on a large Capital underground project on North Walnut.
- City management and the IBEW Union have reached an agreement for 2021-2023 contract.
- The installations and energization of the permanent electrical service for the new Mt. Stuart Elementary School is scheduled for June 1st.
- Work on the Cora St electrical improvements and at the new elementary school is ongoing.
- Installation of conduits for the north portion of Bull Rd. is in progress. The instillation of casings at the I-90 crossing is scheduled to begin the week of May 17th.
- Twin City Foods has scheduled their annual outage for maintenance and inventory for May 21st and 22nd.

Gas

- The Natural Gas System Plan final report was recently received. Staff should have a final system plan report at the June UAC meeting.
- The Gas Technician position was filled by Kody Graham. Kody was a Heavy Equipment Operator for the Street Department for 2-1/2 years and was the city's meter meter for three years prior to moving to the Street Department. He also spent a summer as a temporary laborer in the Water and Street Departments. Kody started on May 3rd in the Gas Division.
- Chet Weekes has successfully moved into Step 4 of his Gas Apprenticeship as of May 16th.
- Crews are working on the annual atmospheric corrosion survey as well as other scheduled construction and maintenance projects. After the annual corrosion survey is complete, crews will move onto annual regulator station maintenance, valve maintenance, and leak survey.
- Each year the City Gas Division conducts a phone survey to measure the effectiveness of the natural gas safety Public Awareness Program. As part of the Public Awareness Program, the City provides safety messages in utility bills, on the City's website, on the radio and in the newspaper to make sure customers and citizens know what to do in case of a natural gas emergency. This year's phone survey will begin on May 17, 2021, including 12 questions, and takes about a minute to complete. Customers that do not want to be called are invited to contact the City Gas Division to be removed from the call list.

Telecommunications

- Attended construction meetings for the ESD 401 new schools.
- Central Connect a newer Wireless ISP Gigabit internet services from City Fiber Installation completed.
- The Telecom subgroup conducted a study session to discuss feedback from the UAC April Meeting.
- City Fiber construction jobs are starting to pick up.
- Telecom is working with Public Works on the Gateway 1 & 2 Projects. Telecom will be relocating fiber in both projects. In support of "Dig Once" the Telecom will be utilizing common trenching and installing conduit for future use where viable.