



MOA STORMWATER

Presentation to the
Infrastructure, Enterprise, and Utility Oversight
Committee
May 21, 2026

KENNA BILLUPS
WATERSHED MANAGER
PROJECT MANAGEMENT & ENGINEERING



OUR ISSUES

Failing storm drain at Thimbleberry Dr



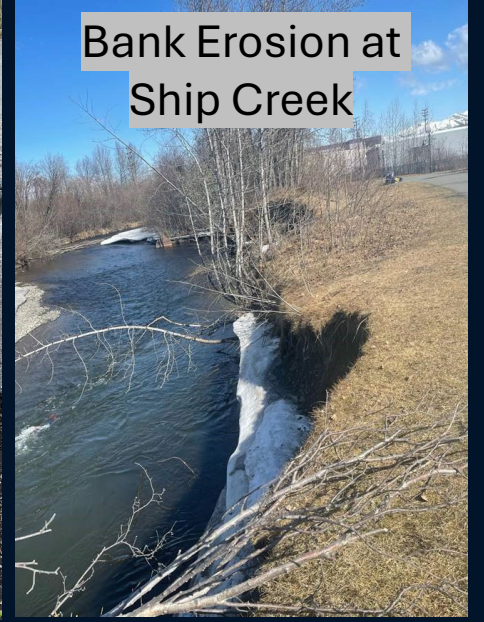
Failing culvert at Old Hillside Way



Erosion at E 20th Ave



Bank Erosion at Ship Creek



Road reconstruction at E 74th and Nancy St



Blocked culvert at Nathan Dr



Road reconstruction at Nancy St and E 75th



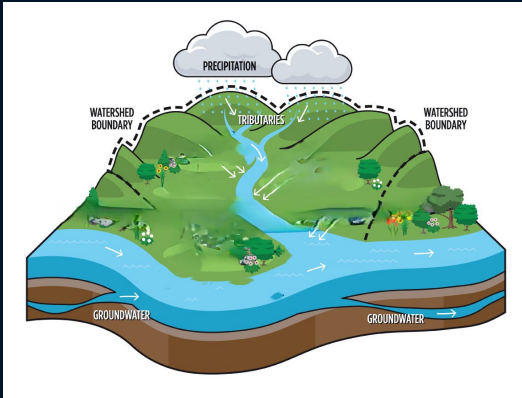


OUR ISSUES

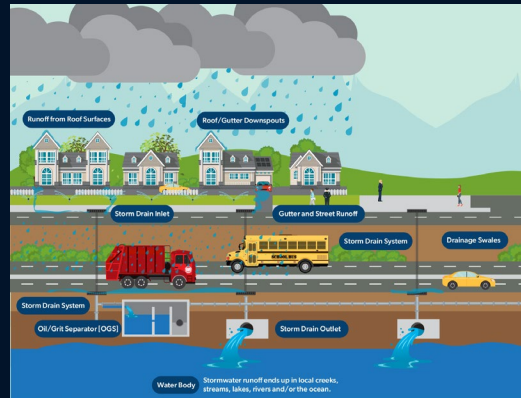




AGENDA



01 Watersheds



02 Stormwater



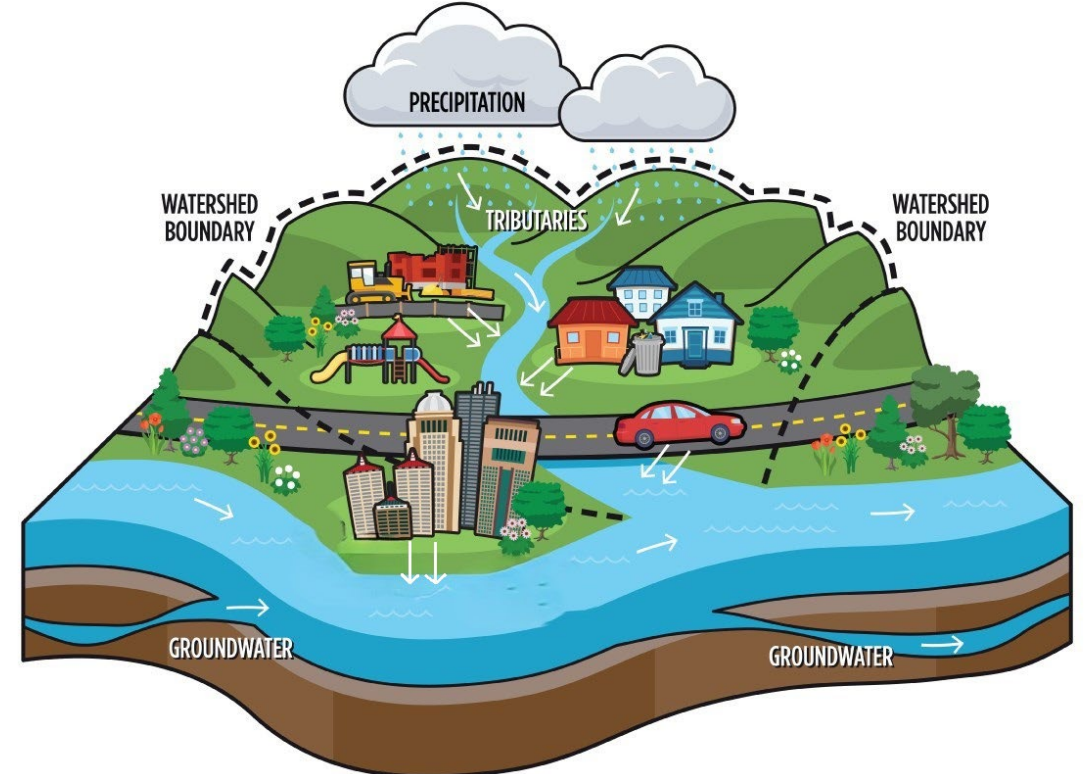
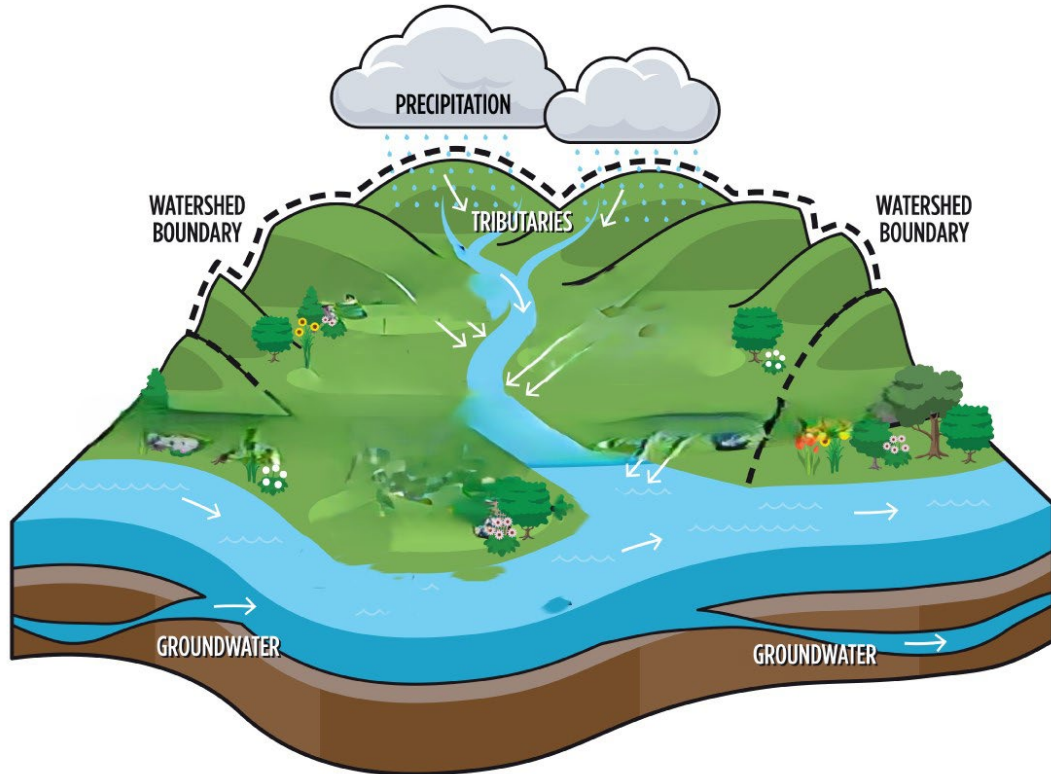
03 Our System



04 System Issues

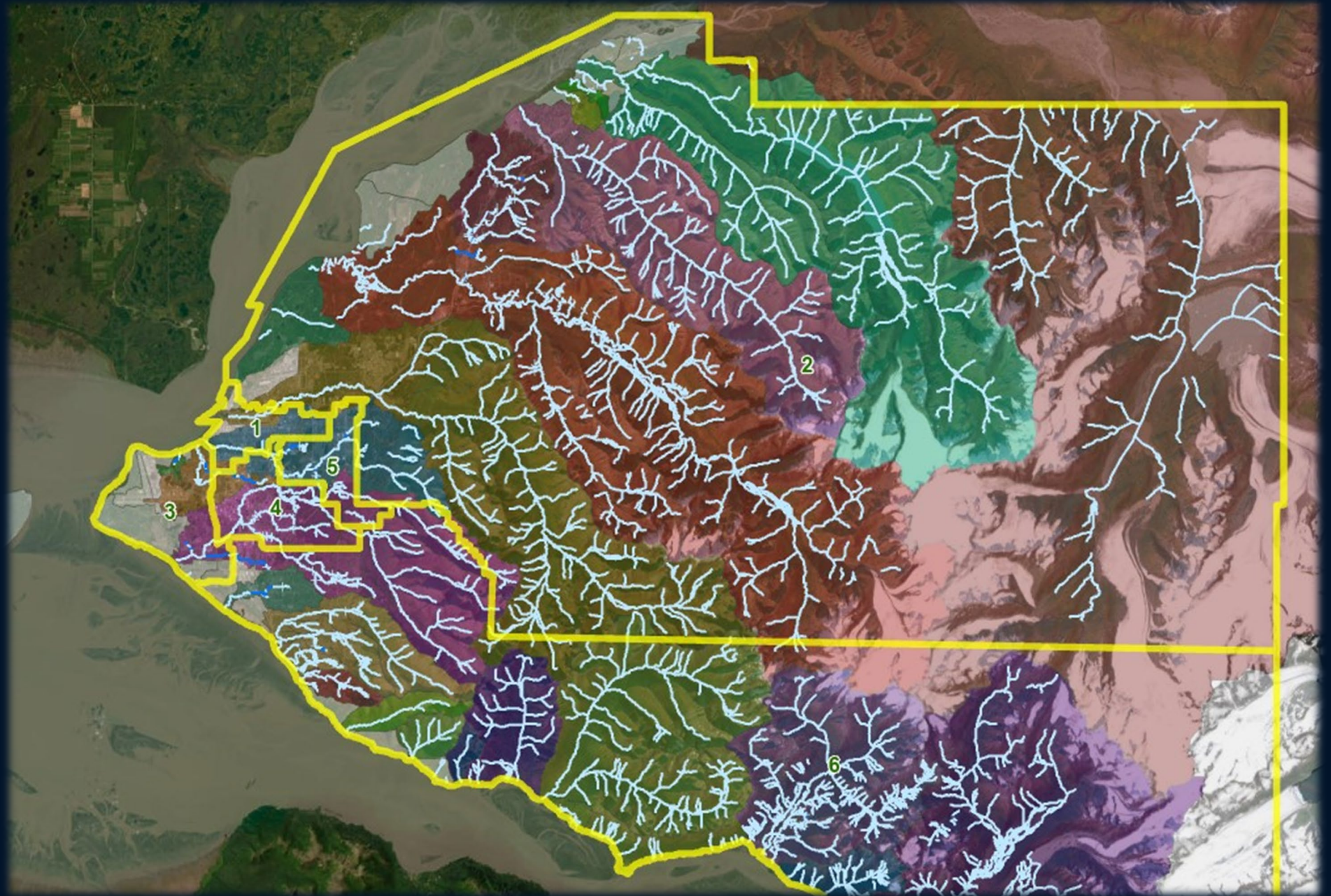


WHAT IS A WATERSHED





MUNICIPAL WATERSHEDS



STORMWATER



Runoff from Roof Surfaces

Roof/Gutter Downspouts

Storm Drain Inlet

Gutter and Street Runoff

Storm Drain System

Drainage Swales

Storm Drain System

Storm Drain Outlet

Water Body

Stormwater runoff ends up in local creeks, streams, lakes, rivers and/or the ocean.



MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) PERMIT

- Construction
- New and Redevelopment
- Industrial & Commercial Stormwater Discharge Management
- Storm Water Infrastructure & Street Maintenance
- Illicit Discharge Management
- Public Education and Involvement
- Monitoring

MOA MS4

Permit Number: AKS052558

Page 1 of 39



ALASKA POLLUTANT DISCHARGE ELIMINATION SYSTEM

ANCHORAGE MUNICIPAL SEPARATE STORM SEWER SYSTEM
INDIVIDUAL PERMIT – FINAL PERMIT

Permit Number: AKS052558

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Wastewater Discharge Authorization Program
555 Cordova Street
Anchorage, AK 99501

In compliance with the provisions of the Clean Water Act (CWA), 33 U.S.C. '1251 *et seq.*, as amended by the Water Quality Act of 1987, P.L. 100-4; this permit is issued under provisions of Alaska Statutes 46.03; the Alaska Administrative Code (AAC) as amended; and other State laws and regulations. The

**The MUNICIPALITY OF ANCHORAGE and
The ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
(hereafter "permittees")**

is authorized to discharge from all municipal separate storm sewer system (MS4) outfalls existing as of the effective date of this permit to receiving waters of the United States which include but are not limited to: Cook Inlet, Knik River, Eklutna River, Edmonds Lake Creek, Mink Creek, Parks Creek, Mirror Creek, Little Peters Creek, Peters Creek, Carol Creek, Fire Creek, Eagle River, Meadow Creek, South Fork Eagle River, Ship Creek, Chester Creek, North Fork Chester Creek, Middle Fork Chester Creek, South Fork Chester Creek, Fish Creek, Campbell Creek, North Fork Campbell Creek, South Fork Campbell Creek, Little Campbell Creek, Craig Creek, Bayshore Creek, Furrow Creek, Hood Creek, Little Survival Creek, Rabbit Creek, Elmore Creek, Little Rabbit Creek, Potter Creek, Rainbow Creek, Bird Creek, Indian Creek, Tidewater Slough, Alyeska Creek, California Creek, Glacier Creek, Virgin Creek, Winner Creek, Crow Creek, Peterson Creek, Twentymile River, Portage Creek, and Placer River, their tributaries, associated lake systems, and wetlands located within the corporate boundary of the Municipality of Anchorage, in accordance with the conditions set forth herein.

This permit shall become effective on August 1, 2020



OUR STORMWATER SYSTEM



590 miles
storm drainpipes



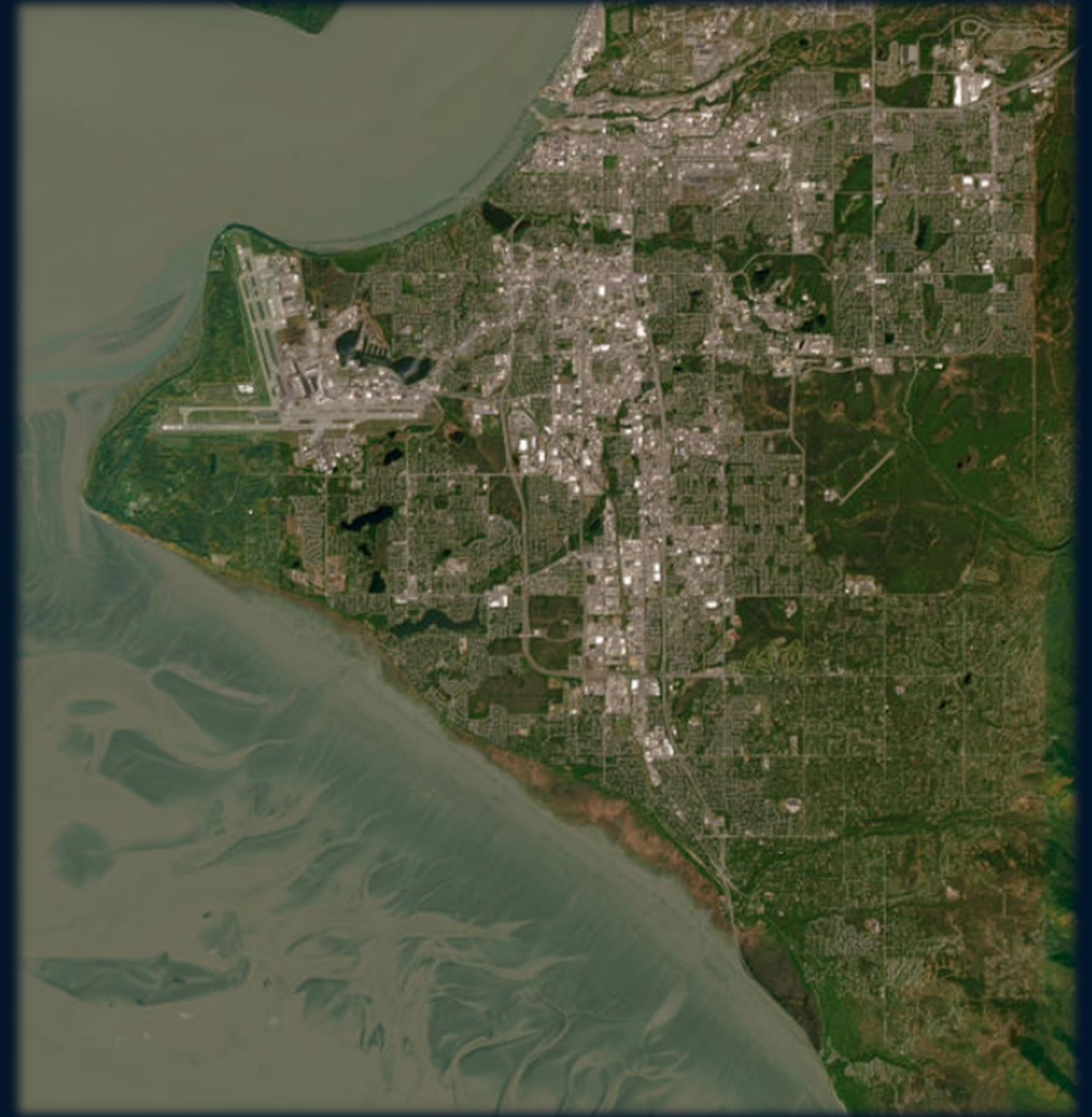
155 miles
streams



325 miles
Open channels



9 distinct
watersheds

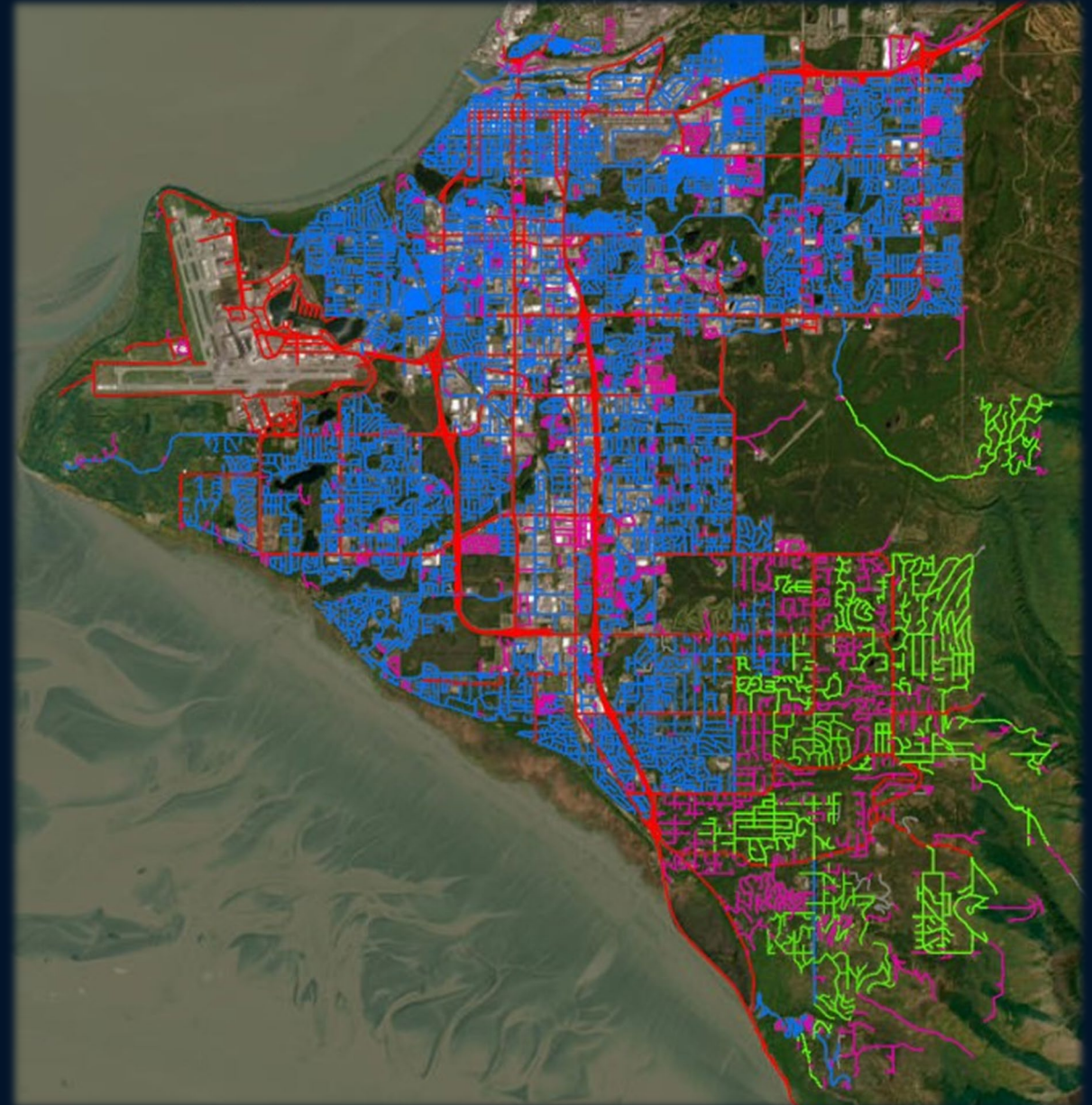




IN THESE AREAS WE HAVE ...

MANAGEMENT

- MOA
- DOT&PF
- LRSA/RRSA
- Private





STORMWATER MANAGEMENT ISSUES

CURRENT



Aging & Failing System





FAILING SYSTEM



12" Collapse/ Roots - Vanguard



Storm drain pipe failure and sinkhole in a back yard on Canton Loop





STORMWATER MANAGEMENT ISSUES

CURRENT



Aging & Failing System



Unpredictable funding levels

LWV BALLOT REVIEW

Prepared by the League of Women Voters of Anchorage for the
Anchorage Regular Municipal Election, Tuesday, April 7, 2026

Project	Estimated Cost	Estimated Annual O & M
Northwood Warm Storage Repair	\$ 400,000	-
AMATS: 32nd Ave Reconstruction – Lois Dr to Minnesota Dr	150,000	-
AMATS: 3rd Ave Reconstruction – E St to Gambell St	1,000,000	-
AMATS: 4th Ave Signals and Lighting – Cordova St to Ingra St	750,000	-
AMATS: Academy Dr/Vanguard Dr Area Traffic Circulation Improvements – Brayton Dr to Abbott Rd	2,300,000	-
ARDSA ADA Improvements Annual Program	1,000,000	\$ 2,000
ARDSA Alaska Railroad Crossing Rehabilitations Annual Program	1,000,000	-
ARDSA Chip-Sealing Equipment	1,200,000	-
ARDSA Flooding, Glaciation and Drainage Annual Program	2,000,000	15,000
ARDSA Intersection Resurfacing Annual Program	200,000	-
ARDSA Pavement and Subbase Rehabilitation Annual Program	2,000,000	5,000
ARDSA Pedestrian Safety and Rehabilitation Annual Program	2,500,000	15,000
ARDSA Road and Drainage Rehabilitation Annual Program	2,500,000	8,000
ARDSA Sound Barrier/Retaining Wall Replacement Annual Program	500,000	-
ARDSA Storm Drainage Deficiencies Annual Program	2,000,000	-
Bragaw St Corridor Safety Improvements – Glenn Highway to Northern Lights Blvd	1,000,000	-
Downtown Lighting and Signals Upgrades Annual Program	4,000,000	-
Downtown Wayfinding Road Improvements	500,000	-
HSIP Mountain View Dr Safety Improvements	150,000	-
Northern Lights Blvd Safety Improvements Pilot Project– Matching Funding (SS4A)	200,000	-
Tasha Dr Reconstruction	5,100,000	-
Thimble Berry Dr Storm Drain Improvements	2,000,000	-
Tudor Centre Storm System Water Quality Improvements	1,000,000	-
Turnagain St Upgrade – Northern Lights Blvd to 35th Ave	500,000	-
West Bluff Dr/Ocean Dock Rd Area Storm Drain	4,500,000	-
Total:	\$38,450,000	\$45,000

(AO 2026-4)



STORMWATER MANAGEMENT ISSUES

CURRENT



Aging & Failing System



Unpredictable funding levels

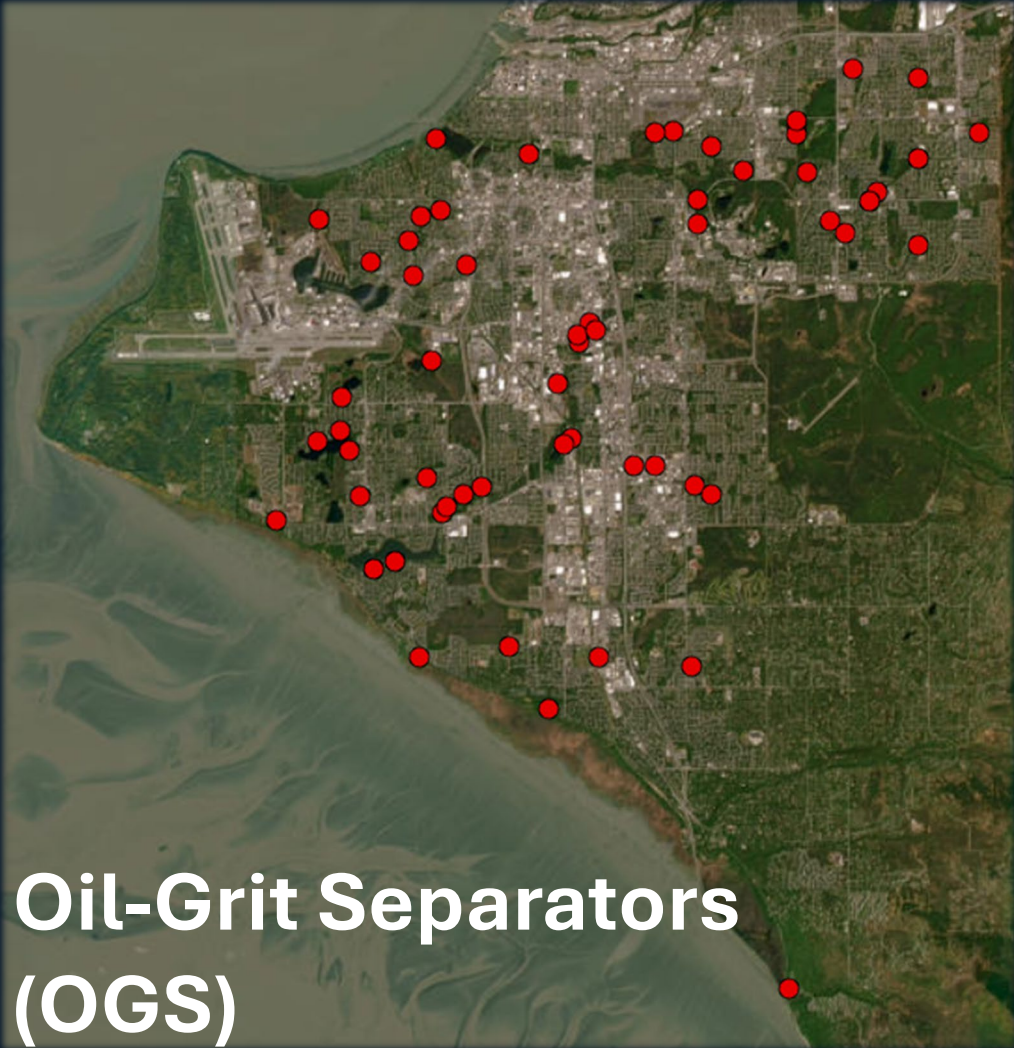


Insufficient and inconsistent resourcing

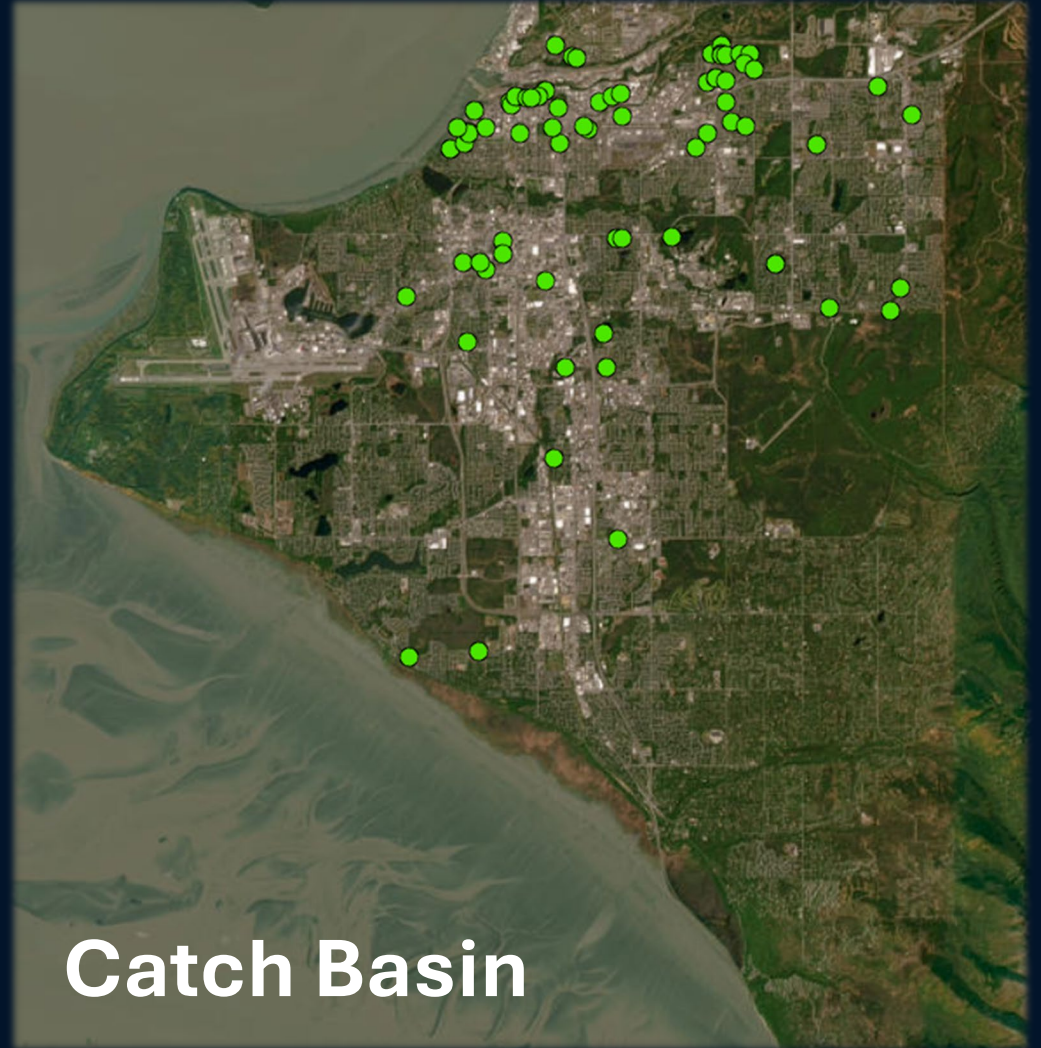




FAILURES



**Oil-Grit Separators
(OGS)**



Catch Basin



STORMWATER MANAGEMENT ISSUES

CURRENT



Aging & Failing System



Unpredictable funding levels



Insufficient and inconsistent resourcing



Reactive service, case-by-case responses





HOMEOWNERS FEEL IT TOO





QUESTIONS?

