# 2019 Watershed Update

Wednesday, February 27, 2019

Municipality of Anchorage
Alaska Department of Transportation and Public Facilities

At the BP Energy Center, Birch Room
900 E. Benson Blvd.

The Municipality of Anchorage and Alaska Department of Transportation and Public Facilities
Invite you to the APDES Watershed Update Highlighting
Anchorage Storm Water Permit Compliance Activities

**Welcome** Municipality of Anchorage and Alaska Department of Transportation *Refreshments provided starting at 9:00 a.m.* 

# **Program**

- 9:30 APDES Storm Water Program
  - Agency Updates
  - Storm Water Utility Project Update
  - Storm Sewer Condition Assessment Camera Program
  - M&O Storm Water Controls
  - Stream Setbacks
  - DCM Implementation/O&M Agreement
  - 2019 Projects
- 10:45 Poster Session of Projects from 2018
- 11:15 Storm Monitoring Assessment

Birch Room

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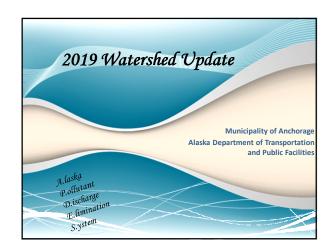
**Animal Facilities Evaluation** 

Aspen Room

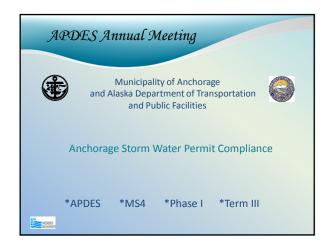
- 11:45 Discussion Project Team Will Be Available To Address Questions
- 12:00 Adjourn

We're pleased to have you join us for all or a portion of the 2019 Watershed Update

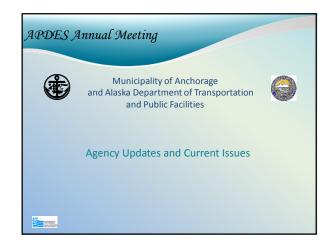
You can find additional information on the stormwater permit at anchoragestormwater.com

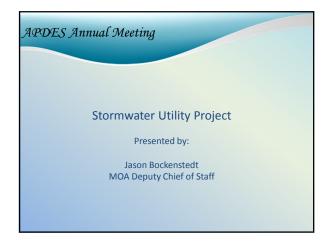


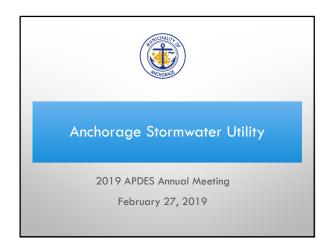


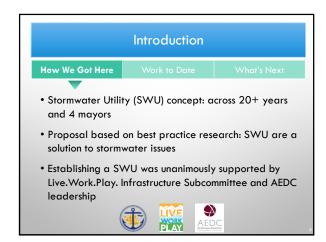




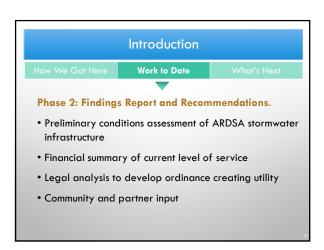


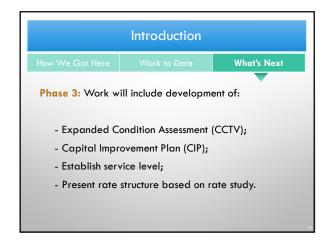




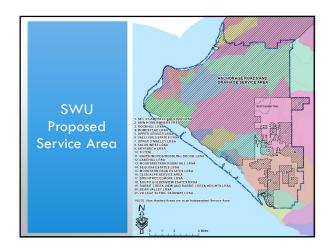




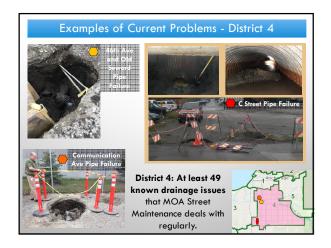




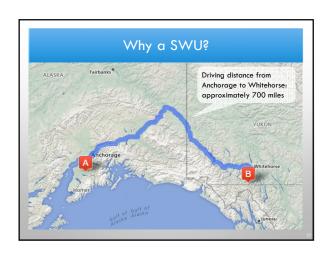


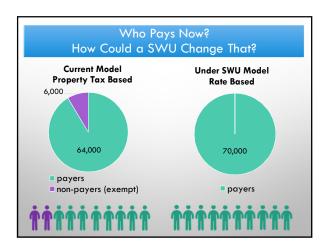




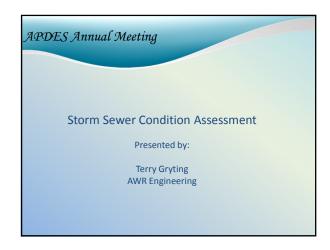


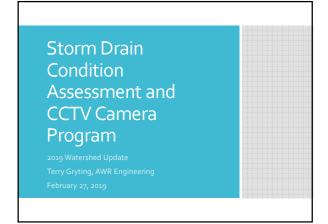








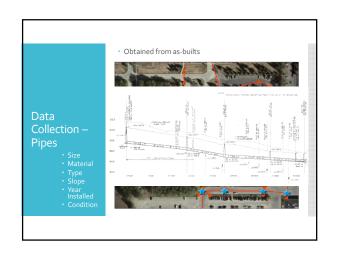






Process
Overview
(Ongoing)

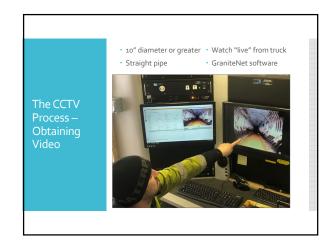
1. Collect data and create GIS map
2. Estimate pipe condition: failing/moderate/good
3. Use CCTV to confirm pipe condition (or not...)
4. Update condition (in GIS) based on results, and apply condition to similar nearby pipes
5. Repeat



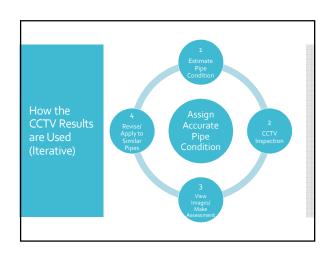


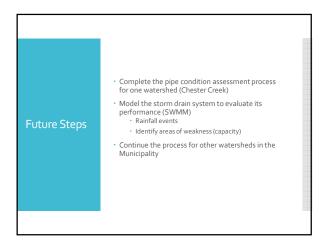


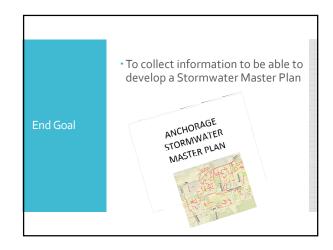








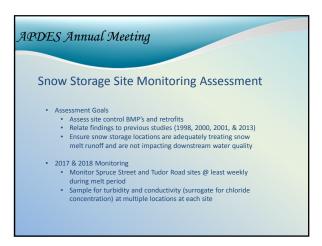


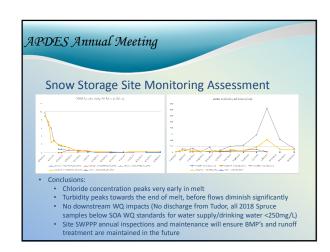


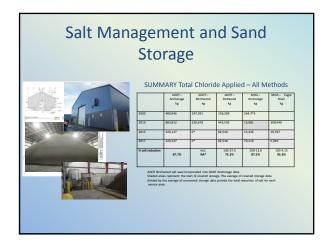












# APDES Annual Meeting

#### Stream Setback Ordinance

Presented by:

Jeffrey Urbanus MOA Watershed Hydrologist

# Stream Setback

In 2018, WMS completed an to update the MOA Stream Setback Ordinance (Title 21)

- Changes adopted by Anchorage Assembly in October and became effective on that date
- Increase in setback size on larger streams
- Various clarifications and cleanup of miscellaneous provisions

### Stream Setback

### WHY DID WE MAKE CHANGES?

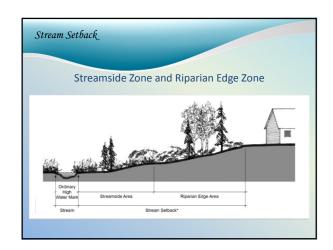
The prior version of the code contained language directing the MOA to revisit the issue of stream setbacks and to:

A.) To provide wider stream protection setbacks; and B.) to provide relief for property that would be impacted or rendered nonconforming by such wider setbacks.

### Stream Setback

# LARGER SETBACKS

- Stream setbacks are no longer uniform but are based on stream size, stream characteristics, and the pattern of adjacent development
  - Large, undeveloped stream= large setback
- A two-zone setback
  - 25 foot Streamside Zone
  - Variable (25 or 75 foot) Riparian Edge Zone



#### Stream Setback

- Streamside Zone
  - First 25 feet from ordinary high water
  - Essentially a non-disturbance zone
  - Exceptions for trail, road, and utility crossings
  - Expressly allows things like stream gages, monitoring equipment, fish platforms, etc.
  - Essentially the same as the existing 25-foot setback

# Stream Setback

- Riparian Edge Zone
  - Starts at the outer edge of the streamside zone and extends out an additional 25 or 75 feet (in some areas only the streamside zone applies)
  - An area reserved for natural stream functions, with some allowance for temporary and/or pervious uses, up to ½ of riparian edge zone area
    - Paved trails
    - Decks
    - Accessory structures 150 square feet or less on nonpermanent foundations
    - SOME allowances for lawns

### Stream Setback

#### WHAT STAYS THE SAME?

- EXISTING USES BECOME GRANDFATHERED
- Small streams and tributaries stay at 25 feet (i.e. streamside zone ONLY)
- Channelized streams with encroaching urbanization stay at 25 feet
- Lots less than 10,000 square feet stay at 25 feet
- Hillside is largely unchanged, except for some allowances for smaller lots

### Stream Setback

# MORE INFORMATION

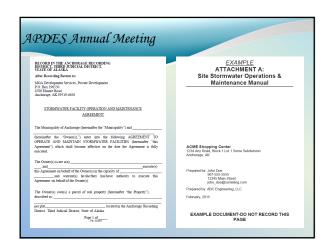
Anchoragestormwater.com/maps
Stream Setbacks within the MOA

- Map of ALL streams within the Muni WITH setback info
- · Links to relevant documents, codes, etc.

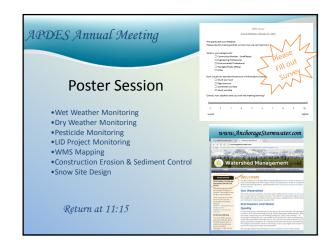
# APDES Annual Meeting

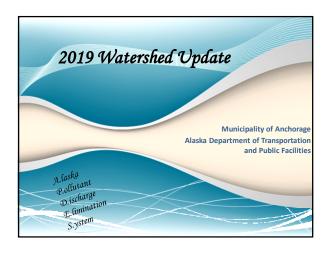
DCM Implementation / O&M Agreement

> Presented by: Kristi Bischofberger







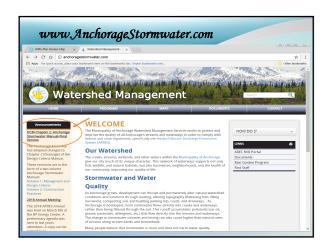




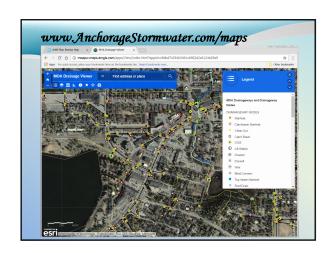


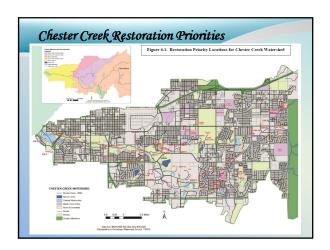




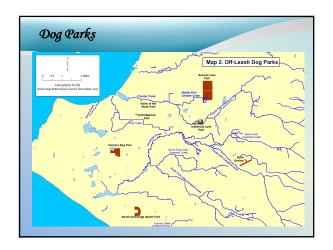






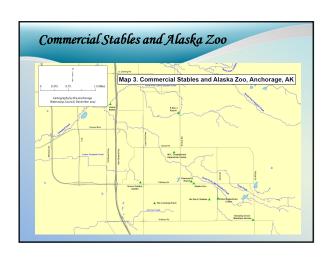


















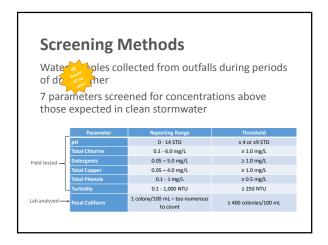


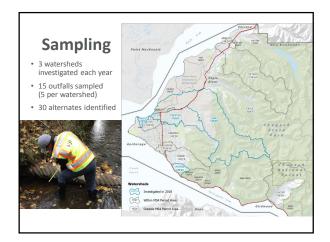


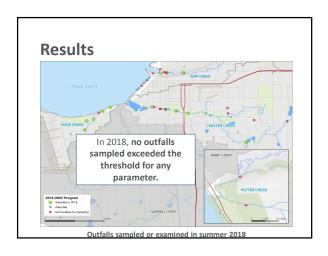


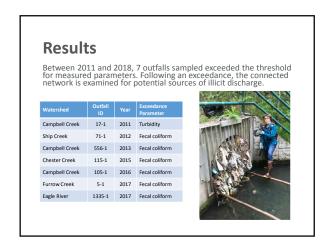


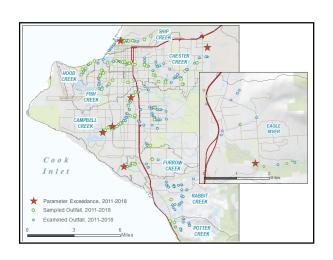


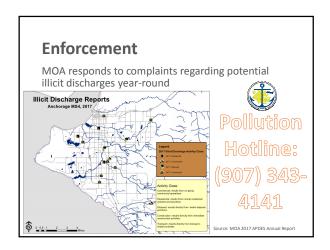






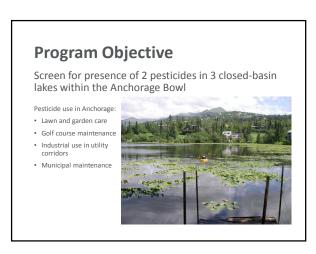


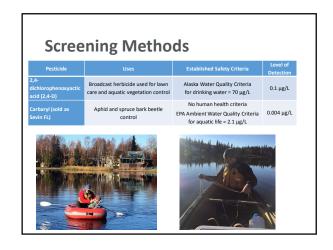


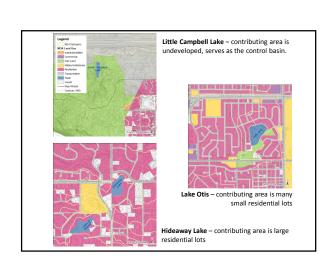


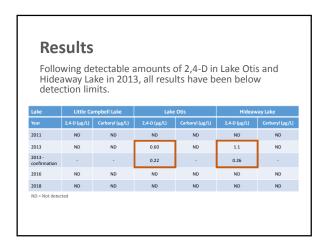


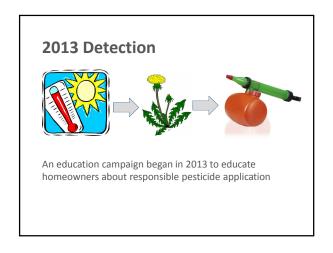


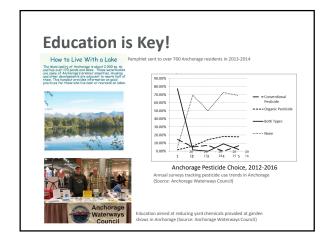




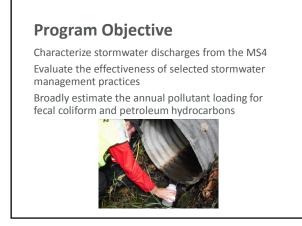


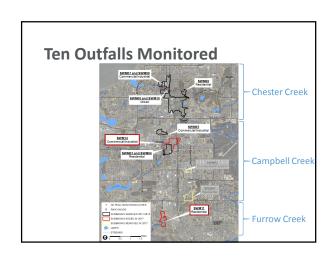


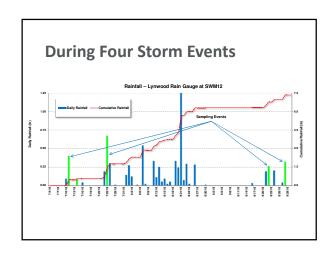


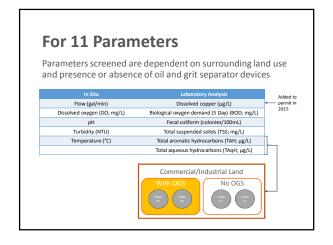


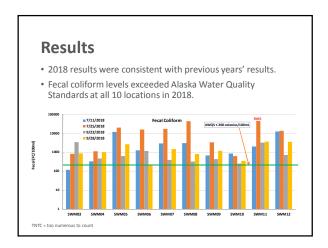


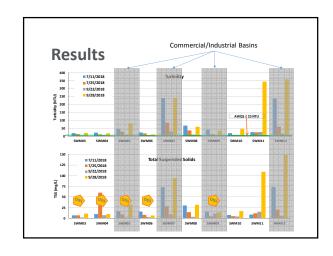


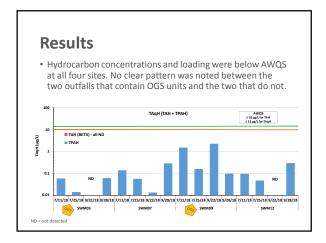


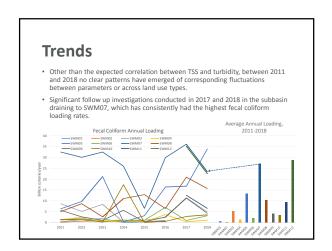


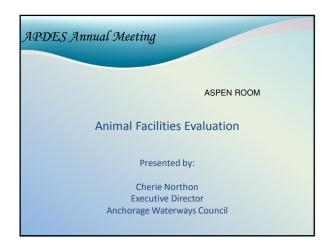












Anchorage Waterways Council February 27, 2019

In the 2015-2020 Municipality of Anchorage's 2015 ALASKA POLLUTANT DISCHARGE ELIMINATION SYSTEM (APDES) Permit, there was a requirement by 2018 to evaluate commercial animal facilities, which include:

- pens,recreational facilities,stables,forms

- urban farmsshow facilities,dog parks,

Although other Anchorage Municipal Codes contain regulations that affect domestic pets, most are contained in Title 17.

Officer Bradley Larson of AACC was interviewed and provided good insight into the code as well as problems and issues faced by AACC.

- Facilities and the different types of licenses
   Mushing kennels
   Home kennels
   Commercial licenses (stores, boarding kennels, and stables)
   Rules, standards, and inspections for licensed facilities
   Typical complaints
   Animal waste

#### Anchorage Water and Wastewater Utility (AWWU)

AWWU does not specifically address animal facilities with standards for discharge, other than the applicable prohibited discharge standards, such as:

• Any solid or viscous substance, or liquid that can become viscous when cooled, that could interfere with the proper operation of the sewerage system, such as:

• fat,

• grease,

• uncomminuted garbage (garbage that has not been pulverized),

• animal guts, tissues, hair, hide, fleshings or entrails

• No special treatment requirements, unless discharges could cause blockages, in which case pretreatment is necessary to prevent sewer blockages, such as

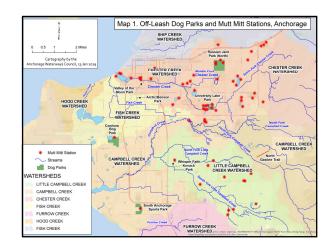
• disposing of animal hair to solid waste or installing floor drains.

License Type	Number (%)
Mushing 4-10 dogs	9 (4.2%)
Mushing 11+ dogs	13 (6.1%)
Commercial License (stores, boarding kennels, & puppies)	32 (15%)
Commercial License (stables)	12 (5.8%)
Home Kennel 4-10 dogs	125 (58.9%)
Home Kennel 11+ dogs	21 (10%)

Facilities and Venues Were to be Visited and Mapped in Regard to

- Off-Leash dog areas:
  Seven are parks
  One is a trail
  All are in Anchorage. Eagle River is considering one.

- All are in Anchorage. Eagle River is considering or Animal event venues:
  Mushing and horse events, dog agility trials, etc.
  Animal services facilities:
  ACC, Alaska SPCA, Bird TLC, and the Alaska Zoo
  Stables and an urban farm
  Indoor and outdoor animal facilities:
  Boarding and doggy daycare
  Groomers, veterinarians, and pet stores
  No licensed facilities in private homes were visited.



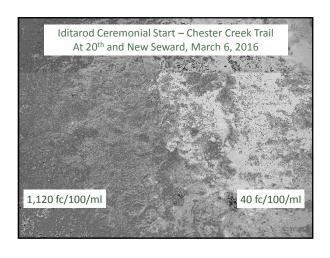
#### Off-Leash Dog Areas

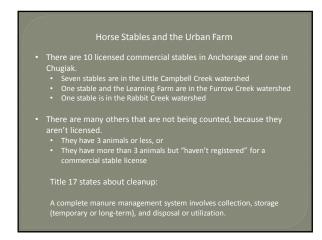
- High usage by and concentration of dogsMuch of the pet waste is not cleaned up
- large amount of dog poop is typically found adjacent to parking areas

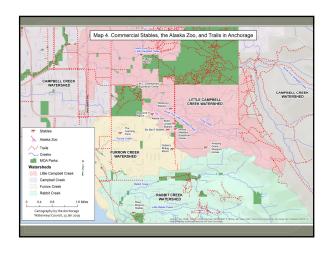
  Socializing with other pet owners and not watching dogs
  Focusing on their phones and not their dogs
  Placing poop in bags and leaving it hanging in trees and bushes or along the trail
  Not using designated off-leash areas
  Solutions:
  Education
  Peer pressure
- - Peer pressure
     Enforcement of pet waste violations (\$250 first offense) need

- - Pet owners:
    Many continue to ignore leash laws
    Many contend that their dogs are under "Voice Control" and the owners let the dogs run, even out of sight—often it is obvious that owners can't control their dogs when the dogs are right beside the owner
    Many just don't clean up after their pets
    Certain activities, such as mushing, horseback riding, skijoring, x-country skiing, jogging, and biking, don't lend themselves well to cleaning up after their pets
- - Education
     Enforcement of pet waste violations (\$250 first offense) need more AACC officers

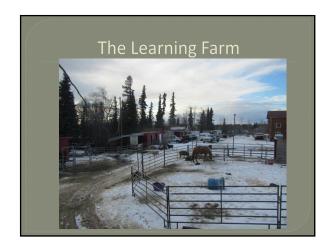






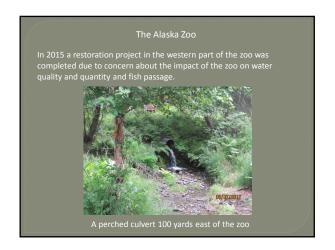






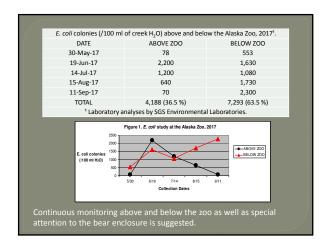














Based on Our Research the Areas of Major Concern

Off-Leash dog areas
The Alaska Zoo
Mushing events
Stables

Recommendations for Ordinance Changes

Title 17 has most of the rules that are necessary for dealing with animals and pet waste.

The obvious problem is the lack of staff to enforce the regulations.

With over 200 parks, miles of trails, and almost 100 school yards—this is not practical.

Having officers focus on off-leash areas could be a good start because of the concentration of pet owners in one area. Word of mouth and observation of citations can be powerful.



Recommendations for Ordinance Changes

An ordinance is needed to make it illegal to dump fish, other aquatic organisms, and aquatic plants into Anchorage lakes and creeks.

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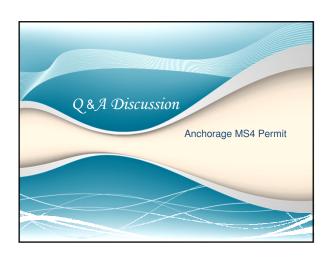
Recommendations

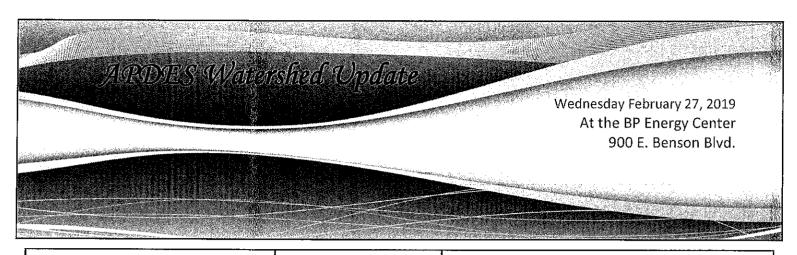
Hire more animal control officers and enforce ordinances on the books.

Perform fecal coliform testing above and below stables that are adjacent to waterways to ensure there are no problems.

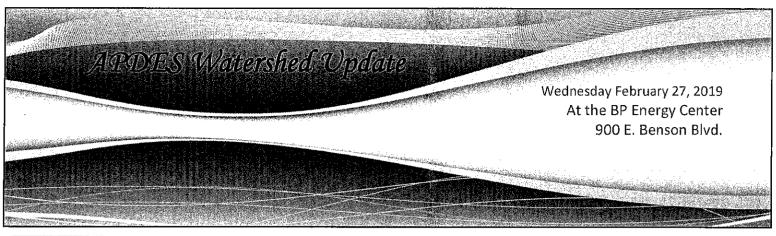
Perform fecal coliform testing above and below the Alaska Zoo to ensure there are no problems.

Perform fecal coliform testing above and below any boarding or doggy daycare facilities adjacent to waterways to ensure there are no problems.

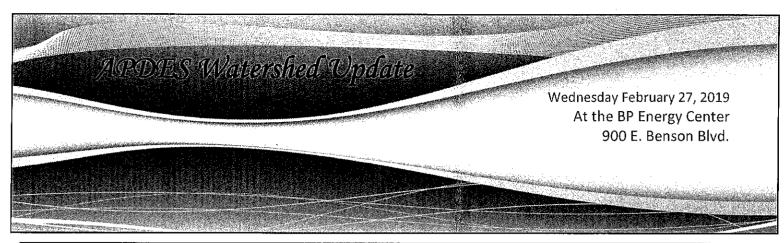




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Heidi Robvik	DOWL	MODIUE AMALLON
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Name	Organization	Email Address
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Mario Croce	HWWU	mario croce @ auwu. biz
Catherine Inman	MSCS /SDG	catherine o matsuconservation. com
Andrew Fragein	Enstar	andrew frasser @ englarnaturalgas. com
Brad Milour	Dowl	brelocik Q dowl. con
KNE KELLEY	mo A	KELEY KTQ MUNIORG
Angela Hunt Greg Patz	DEC	anada hunt Dalaska gov
	ADOT & PF	aregosticalaska.gov
DEARS Kotecz	PB	deankares @ pt3111colaska.com
Russ Oznaco	PM+E	OSWALDRIEMWICKE
TIM HUNTTING	PMZE	Timothy Heatting Canhorage ak. 901
Varion Vreeland	DOT /M+0	, ,
Elephanie Govid	Stanlec	ste phanie, april @ stanke com
RUSSEll Grand-11	ARRC	grandel v & AKVV. COM
Niwle Jones-Vocal	MDA-RED	Dicole Jones-Vogel Campurage ak go
Erik Ohm	NWAK	EOHMO NWALASKA, ORG
Justin Panfield	CEA.	justin_penfield@chuqudelectric.com
Tunk Marker	MOA/PM+E	maney de la municara
Ronee Goentsel	DOTEPF MED	rence goentrela alaska gov
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Name	Organization	Email Address
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Disobel Roy	PME	Wegen. noni @ alaika, jui royi @ muni. 6 vg BAL HULGUIST HELLES. COM SECTIONAL BIDSK2M
BRIAN HARTEN	HOUTQUIST HOMES	BALC HULTOUST HOMES, COM
Samo BUZ	MoA	Solow de Bipskam
		·
		·
		D-m <sup>2</sup>
		44 P. 1994, A. 1994