

Public Meeting

Former Hospital – School Pipeline

Release

Alaska Department of Environmental Conservation
Division of Spill Prevention and Response



May 6, 2019

Outline for today

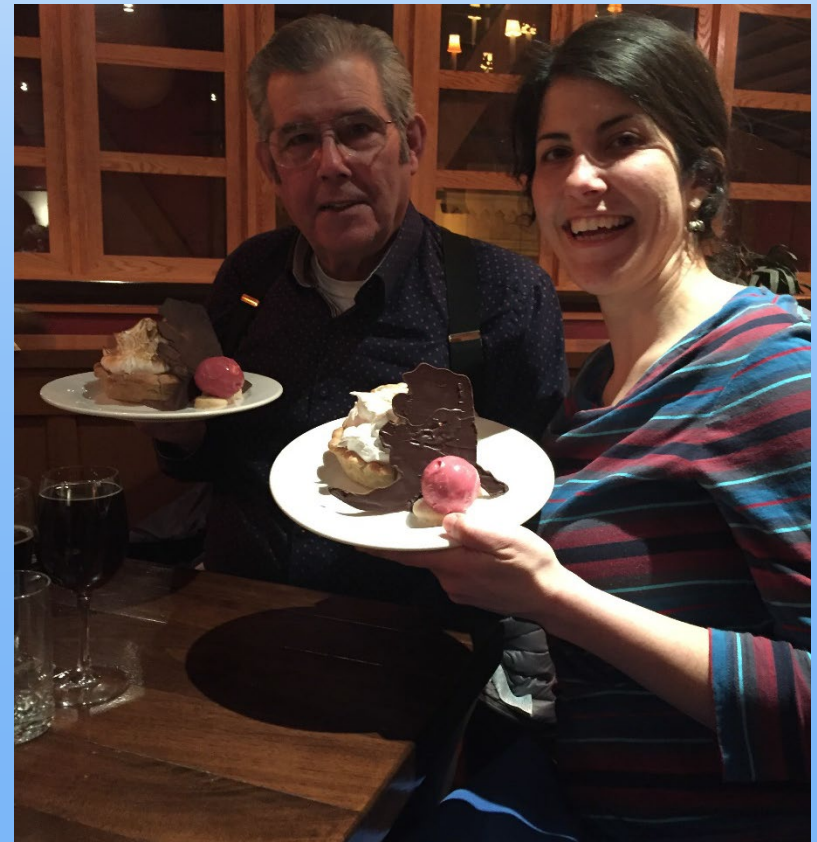
- Objective
- Introduction to ADEC
- Ownership and involved parties
- History
- Goals
- Recent project work
- Summer 2019 work
- What is next?
- Question and answer session

Objective for this meeting

- Provide information to the community of Kotzebue about the Former Kotzebue Hospital-School Pipeline Release contaminated site
- Listen and learn from community members

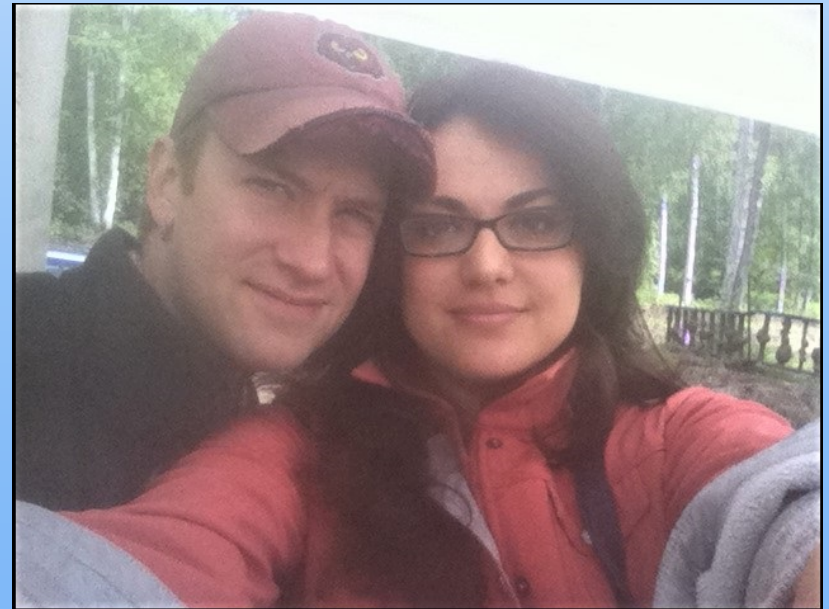
About Erin!

- Born and raised in Fairbanks Alaska. Received a BS in chemistry from Western Washington University in 2009, received a MS in environmental chemistry from UAF in 2014.
- I have been with ADEC contaminated sites program since 2016. I have been the project manager for Kotzebue since fall 2017.
- I love riding my bicycle, my dog Watson, and spending time with family and friends.



About Natalie!

- Born and raised in Fairbanks and Anchorage, Alaska. Received an Associate of Arts in General Education and a Bachelor of Arts in English from the University of Alaska Anchorage.
- Former local TV news reporter. Been with ADEC Contaminated Sites Program since 2018, as the public involvement specialist.
- I love spending time with my husband Eric, my cats Dharma and Sushi, family and friends. I also love exploring and being creative.



Introduction to ADEC

- Alaska Department of Environmental Conservation (ADEC)
 - Division of Spill Prevention and Response
 - Contaminated Sites Program
- Contaminated sites program protects human health and the environment by managing the cleanup of contaminated soil and groundwater in Alaska.



SITE HISTORY

1945 Hospital



1945 School





1959



1963

*Photos purchased from Quantum Spatial

Site Map from 2015



*courtesy WHPacific (2015 Report)

Current Aerial Photo



*Courtesy of Bing Images

Current Ownership

Parcel	Owner Name	Year Acquired
Tract 4a	NWAB	1985*
Lot 3	IHS	1963
Lot 4	IHS	1963
Lot 5	KIC	1989

- Other parcels between the school and Kotzebue sound that are not part of the original property *may* be contaminated.

Working Group

- Bureau of Indian Affairs (BIA)
- Indian Health Service (IHS)
- Northwest Arctic Borough School District (NWABSD)
- Northwest Arctic Borough (NWAB)
- Alaska Department of Education (ADEED)
- Kikiktagruk Inupiat Corporation (KIC)
- City of Kotzebue
- Maniilaq Association
- Department of Environmental Conservation (ADEC)

Site History

- 1950s: Kotzebue residents recall release from bulk tank facility. Location of bulk facility is unknown.
- 1960s: fuel line ruptures and releases fuel
- 1962: fire in hospital facility
- 1970s: fuel in school basement was reported to the local fire marshal

Site History

- 1970-1980: residents collect fuel from their private wells, ditches, etc. for heating
- 1980: school recovers 100,000 gallons of fuel from basement
- 1980: ADEC is notified of fuel coming into the school basement
- 1980-1984: ADEC initiates investigation of site and further recovery of fuel

Site History

- 1984: ADEC observes fuel on the beach and ocean in Kotzebue sound near Front Street
- 1985: fuel pipeline was abandoned in place
- 1985: NWABSD requests and receives funding from legislature to fill/pave school basement
- 1988: beach barrier installed to prevent migration of fuel onto beach and into the ocean

Site History

- 1989: ADEC contracted for an environmental site assessment. They inventoried tanks and pipes on site, and collected soil and water samples.
- 2008: Local residents observed a sheen on Kotzebue sound.
- 2008-2010: ADEC hired a contractor to collect samples to investigate contamination in the beach, ocean, and soil.

Site History

- 2008-2010: ADEC identifies responsible parties
 - Responsible parties are BIA, IHS, DEED, NWAB, NWASD, KIC
- 2010 Alaska Dept. of Transportation installs a seawall because of erosion problem. This is done separately from the contaminated site.



RECENT SITE WORK

2014 Phase One investigation by Indian Health Service

- Interviews with local residents and visual observations
- Lead based paint testing
- Locating old groundwater wells and fuel collection trench

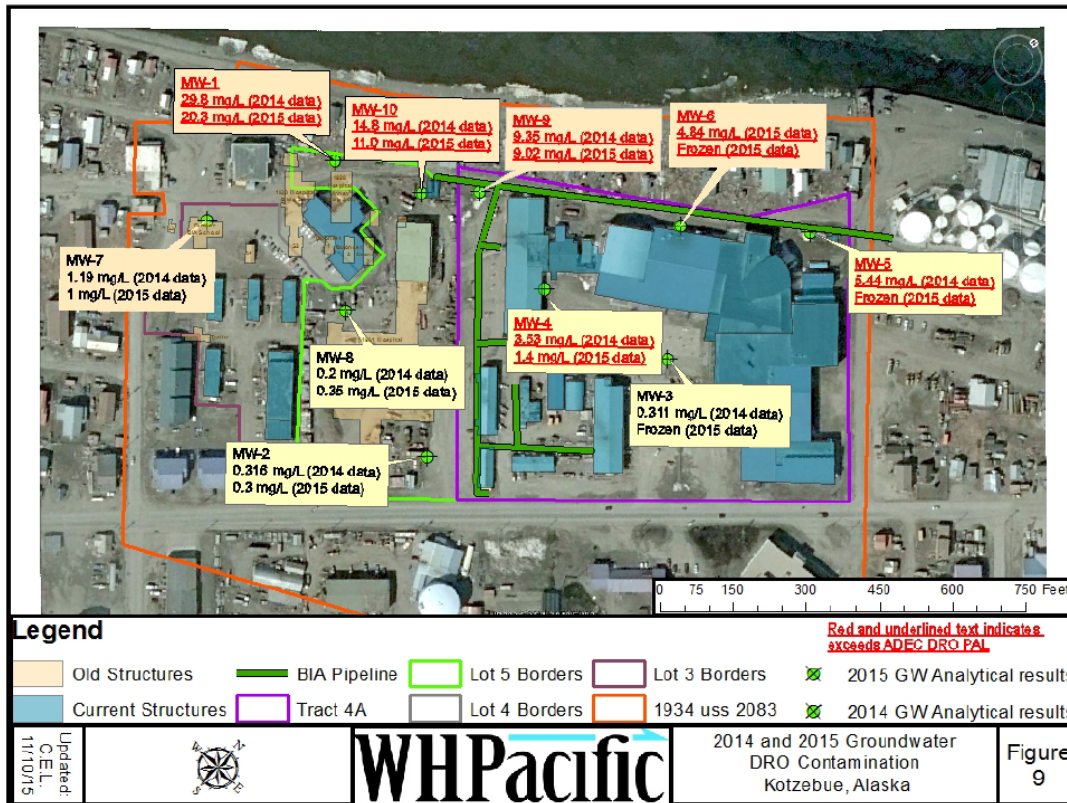
Figure 3 Historic Structures



*courtesy WHPacific (2015 Report)

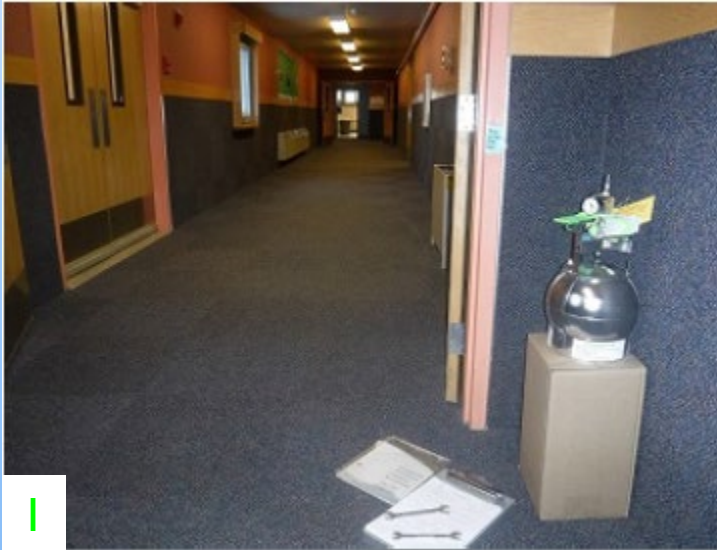
2014/2015 Site Investigation by Indian Health Service

Figure 9. 2014 and 2015 Groundwater Sample Results



- test pits and borings for soil sampling
- groundwater monitoring wells
- measured vapor in soil

2018 Vapor Study by Northwest Arctic Borough School District



1



3



2

1. indoor air sampling
2. sub-slab air sampling
3. outdoor air sample

* Courtesy Shannon and Wilson (2018 Report)

Winter 2019 tank and pipeline inventory

Table 2: Inventory of underground storage tanks

1989 Tank Number	2019 Parcel Discription	1989 Building/ Lot Address	Owner 1989	Owner/Operator 2019	Volume (gallons)	Grade (ft)	Storage Use	Product	Status (1989)	Present/Absent?	If present, is it in use?	Storage Use (
55	Tract 4A	High School	School District	NWABSD	300	below	?	fuel oil	Not in use	Absent		
56	Tract 4A	School shop	School District	NWABSD	500	below	vehicles	gasoline	abandoned	Absent		
57	Tract 4A	Elem School	School District	NWABSD	10000	below	Heating	fuel oil	abandoned	Unknown		
58	Tract 4A	Schools	School District	NWABSD	800	below	Heating	fuel oil	abandoned	Absent		
59	Tract 4A	Schools	School District	NWABSD	800	below	Heating	fuel oil	abandoned	Absent		
60	Tract 4A	Schools	School District	NWABSD	?	below	Heating	fuel oil	abandoned	Unknown		
61	Lot4	Hospital	BIA	IHS/Maniilaq	?	below	vehicles	gasoline	abandoned	Present	no	
51	Tract 4A	Borough	Borough	NWABSD	10000	below	Heating	fuel oil	In use	Present	No	
44	Tract 4A	Schools	School District	NWABSD	10000	-2	Heating	fuel oil	In use	Absent		
45	Tract 4A	175	School District	NWABSD	10000	-5	Heating	fuel oil	In use	Absent		
NEW	Lot 3	Bldg 315	IHS	IHS	6500	1	Heating	fuel oil	N/A	No evidence	no	No
NEW	Lot 3	Bldg 315	IHS	IHS	2000	2	Heating	fuel oil	N/A	No evidence	no	No

Summary of history

- Property was owned and operated by IHS and BIA originally
- Property has since been operated by DEED, KIC, NWAB, NWABSD
- Leaks from underground pipelines and tanks
- History of on and off cleanup by various parties
- No complete investigation and cleanup to date

Goals for site

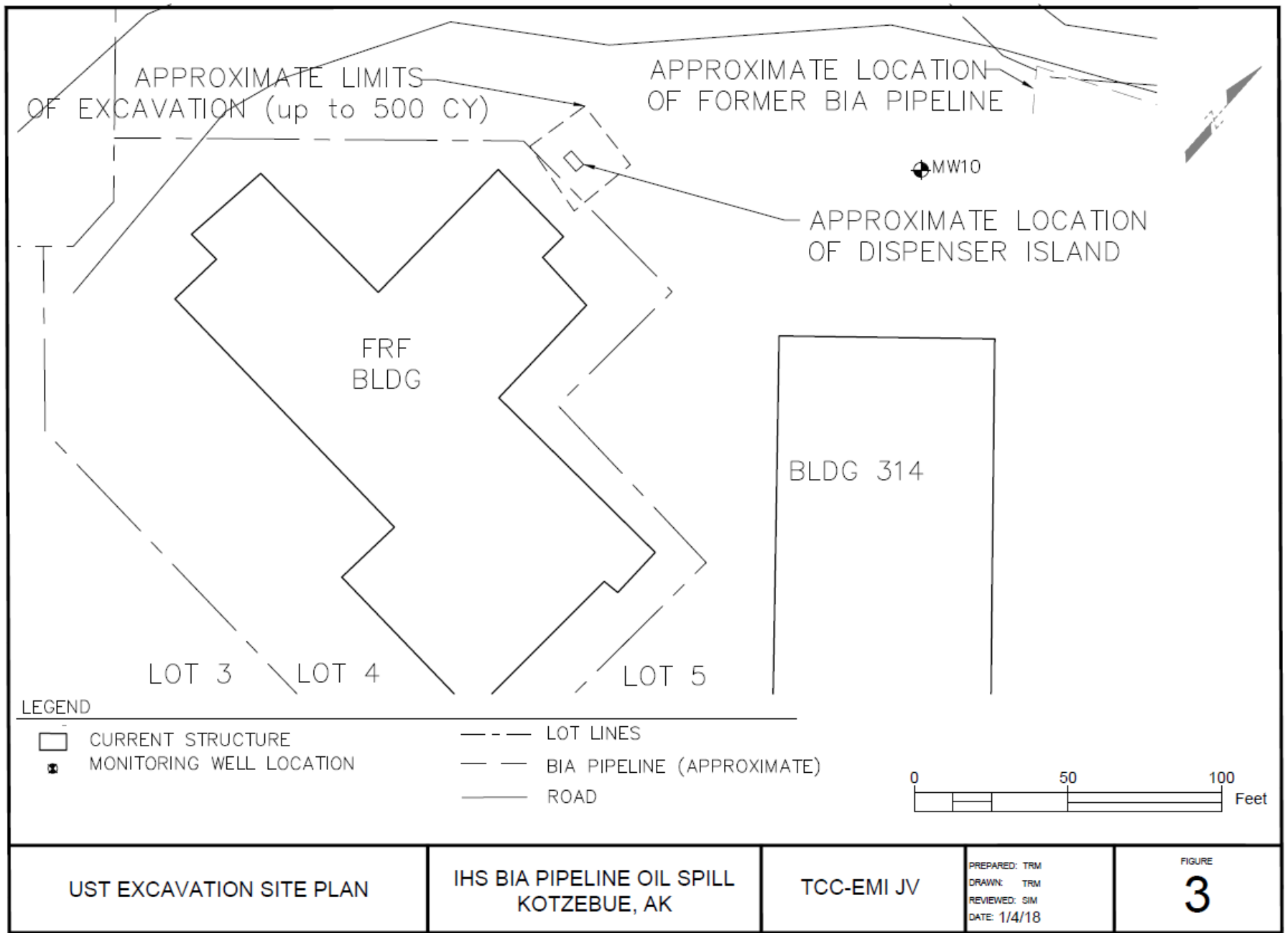
1. Determine the extent of fuel contamination around the former hospital-school site
2. Cleanup any contamination that poses a risk to human health and the environment
3. Communicate with Kotzebue during the process to ensure the needs of the community are met



2019 SITE WORK

Scheduled work

- Remove underground storage tank (UST) at Ferguson building
- Take contaminated soil to KIC landfarm out by the landfill
- Sample groundwater



*Courtesy Tanana Commercial Company (2018 work plan)



VICINITY MAP

IHS BIA PIPELINE OIL SPILL
KOTZEBUE, AK

TCC-EMI JV

PREPARED: TRM
DRAWN: TRM
REVIEWED: SIM
DATE: 7/11/18

FIGURE

1

*Courtesy Tanana Commercial Company (2018 work plan)

Requested work

- October 2019 vapor study at the elementary school
- Complete the tank and pipeline inventory

What happens after 2019 site work?

- Written report will be created for the summer 2019 work.
- Summer 2020 we plan to sample the groundwater again. Sample locations will be based on the summer 2019 information.
- ADEC plans to conduct an informal visit in winter of 2019.
- ADEC plans to host a public meeting spring 2020 to inform community on results from 2019 and the new work planned for 2020.

Discussion Group Tomorrow

Location: Nikaitchuat Ilisagviat

Time: 6pm

Purpose: Discussion group focused on latest cleanup efforts scheduled for the Former Hospital-School Pipeline Release contaminated site.

- * Light refreshments provided.
- * Open to the public.



Questions?

Erin Gleason
ADEC Project Manager
907-269-7556
Erin.Gleason@Alaska.gov



School Ownership History

1976

- DOI/BIA conveys Kotzebue Native School to State of Alaska, public school authorities via quitclaim deed
- ADOE issues a use permit to NWABSD

1980

- DOI uncertain of validity of deed; leases school to ADOE

1985

- ADOE assigns leasehold interest from to NWABSD for a 25 year term
- DOI determines 1976 deed is valid

1986

- ADOE conveys school to NWABSD via quitclaim deed (not recorded until 2004)

Hospital Ownership History

1907

- Land designated by federal gov't. in US Survey 2083 for BIA Schools

1928

- First hospital built on site and transferred to BIA

1961

- New hospital built on site

1963

- New hospital transferred to DHHS/IHS

1989

- KIC agrees to land exchange (Lots 1-2, 5) with IHS to build a new hospital off-site (IHS retains liability subject to ADEC compliance order)

2009

- IHS prepares for property transfer (Lots 3-4) to Maniilaq

Contaminants of Concern

- DRO, GRO, RRO
- Volatile organic compounds
- Polyaromatic hydrocarbons
- BTEX
- Chlorinated solvents
- Lead



Petroleum release