

Newtok Planning Group September 2019 Update

ROMY CADIENTE, NEWTOK VILLAGE COUNCIL

GAVIN DIXON, ALASKA NATIVE TRIBAL HEALTH CONSORTIUM



Shore Line Erosion Update

NEWTOK, ALASKA

PATRICK M. LEMAY, PE



**LeMay Engineering
& Consulting, Inc.**

Statistics

From 1954 to 2016, 4,168 feet of land has been lost at a rate of 67 feet per year.

From 2006 to 2016, 700 feet of land has been lost at a rate of 70 feet per year.

From 2012 to 2016, 250 feet of land has been lost at a rate of 62.5 feet per year.

From 2016 to October 28, 2018, 125 feet of land has been lost at a rate of 62.5 feet per year.

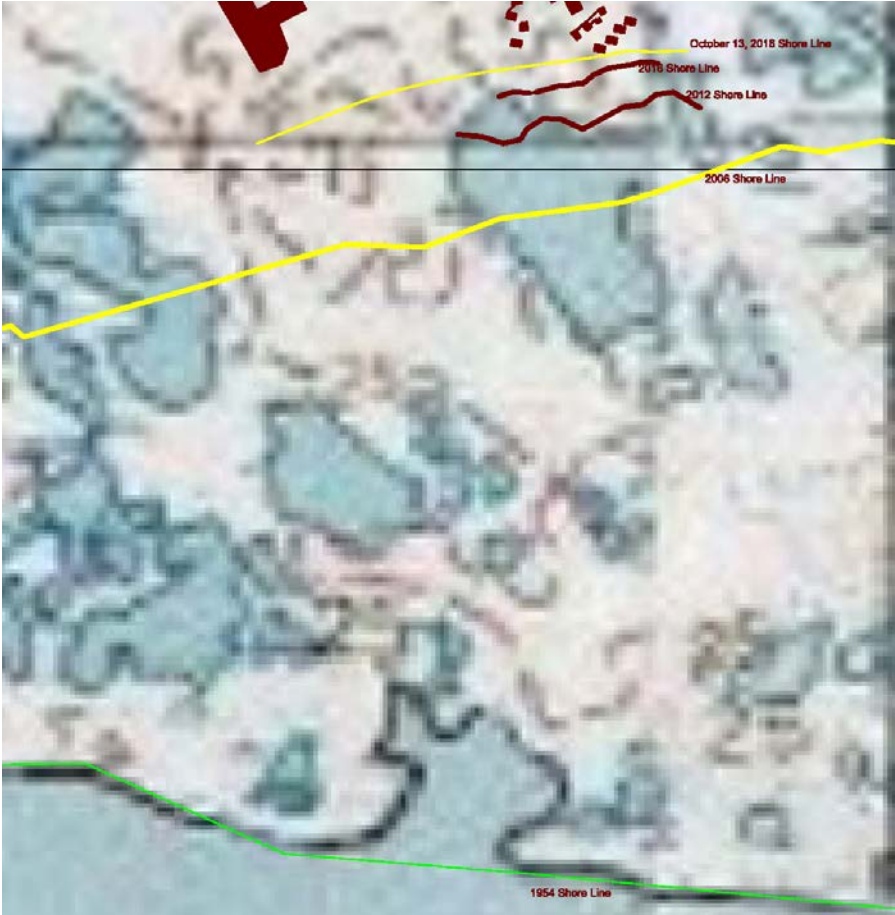
Since October 13, 2018, 25 feet of land has been lost within one Fall/Winter Storm cycle occurring September 2-7, 2019.

The former drinking water source (community's backup) was lost in June 2019 with the pond draining.

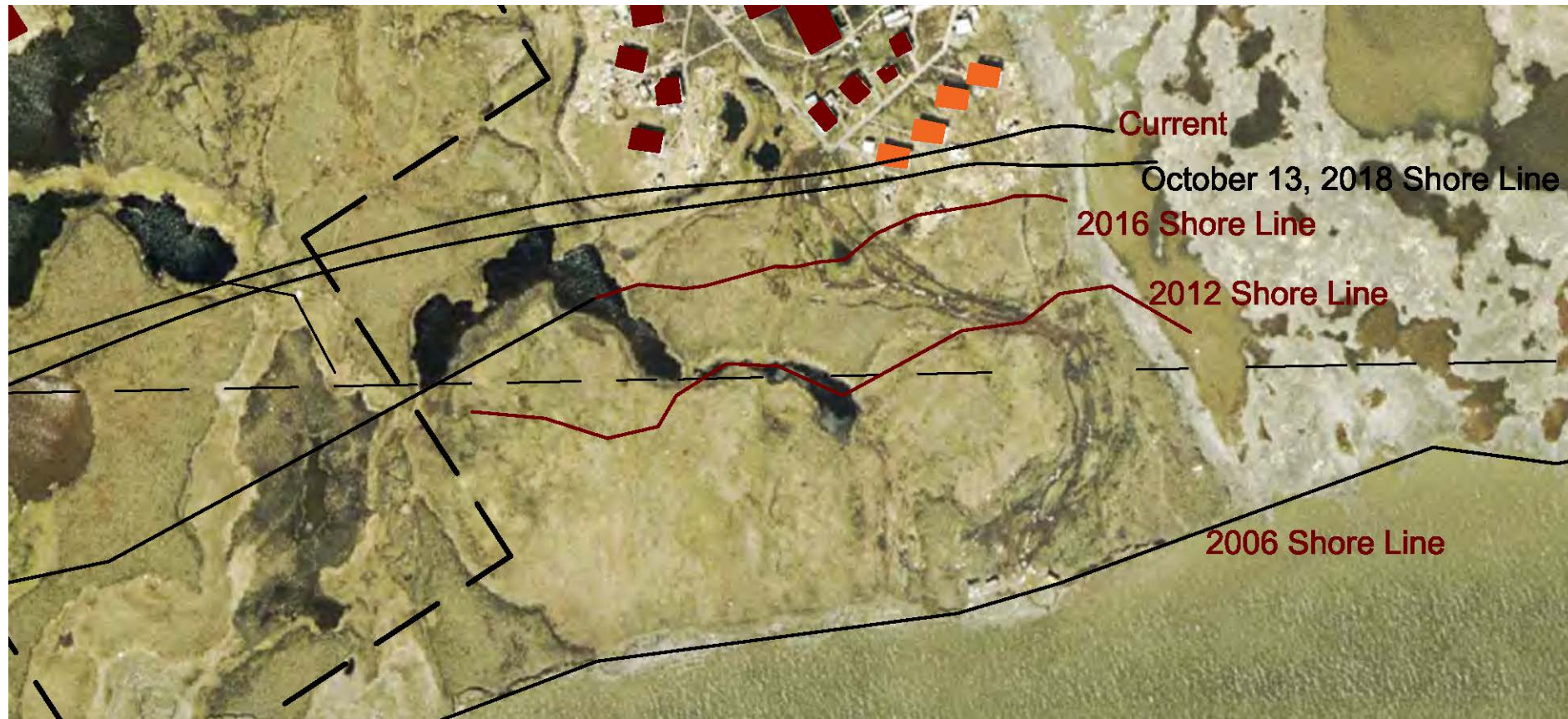
1954 Quad-Map of Newtok, Alaska



1954 Quad-Map of Newtok, Alaska



Shore Line from 2006 to Current



June 2019 Google Image



June 2019 Google Image



September 3, 2019 Shore Line



Former Water Source—May 13 & August 21, 2019



Aerial View—Former Water Source—May 13, 2019



Aerial View—Newtok, Alaska—May 13, 2019



Aerial View—Newtok, Alaska –May 13, 2019



Additional Statistics

As of September 9, 2019, there is 71 feet from the shore line to the first LKSD-threatened Teacher House.

As of September 9, 2019, there is 210 feet from the shore line to the School.

As of September 9, 2019, there is 225 feet from the shore line to the School's Water Treatment Plant.

As of September 9, 2019, there is 275 feet from the shore line to the DOT Runway.

Average erosion rate of 67 feet per year.

Since October 13, 2018, 25 feet of land has been lost within one Fall/Winter Storm cycle occurring September 2-7, 2019.

Housing Demolition Project



Newtok Utilities Update

Power Utility Status

Washeteria Improvements Status

Boardwalk Improvements Status

Newtok Administration Update

Mertarvik Housing

- Housing Scoring Criteria and Selection Process
- Housing Resident Selection Complete
- Homeowner Agreements for Housing

Additional Agreements:

- YKHC Lease for Clinic Space
- LKSD Lease for MEC School Space, Teacher Housing Unit
- Newtok Native Corporation Store
- GCI Lease

Newtok Team: Additions and Changes

Newtok Native Corporation

Passing of Glen Price - Attorney



IRT Wrap Up

Project Start: June 10

Project Finish: August 26

Average Staffing: ~40 Service Members

Brought 2 Pieces of Equipment

Self Supply Food and Services

Assist in Construction



IRT Wrap Up

Accomplishments:

1.2 Miles of Road

95% of Landfill

Housing Construction Support for 13 Houses

No Heavy Equipment Shop



IRT Wrap Up

Key Takeaways:

Community Engagement/Welcoming Events

Support and Coordination with Contractor

Identifying Priorities



Mertarvik Construction Accomplishments – Summer 2019

Gravel Materials Production

Landfill

MBR Sewer System

Construction Camp

Power Plant

Water Plant

Roads

Housing

PASS

Average Crew Size: ~70

Average IRT Crew: ~40

Average Local Hire: 10-20





Quarry Development



New Construction Camp



MBR Sewer System



Modular Power Plant



Modular Water Plant



Landfill



Townsite Roads



PASS



Housing



Recent Mertarvik Design Accomplishments

Interim Bulk Fuel Facility

- 90,000 gallons of storage
- Reuse of existing construction containment

MEC Interior

- Evacuation Center
- School Facility
 - 3 Classrooms, 2 Bathrooms, Kitchen, Offices, Storage

Interim Health Clinic

- Exam Room, Trauma Room, Pharmacy, Bathroom, Office

Newtok Native Corporation Store



End of Season Construction - September

Modular Power and Water Construction

Electric Distribution System

Housing – 3 Units Complete

Repairs to Older SIP Homes

Interim Bulk Fuel Facility

Telecommunications Set Up

PASS – 7 Units Completed

7 Families Relocate at End of Month



End of Season Construction – October / November

MEC Interior Completed

Housing – 10 New Units Completed

Relocate Marie Fairbanks Home

PASS -14 Units Completed

Interim Health Clinic / Store Completed

Equipment Fleet Set up for Maintenance

8 Families Move first week of October

6 Families Move middle of October



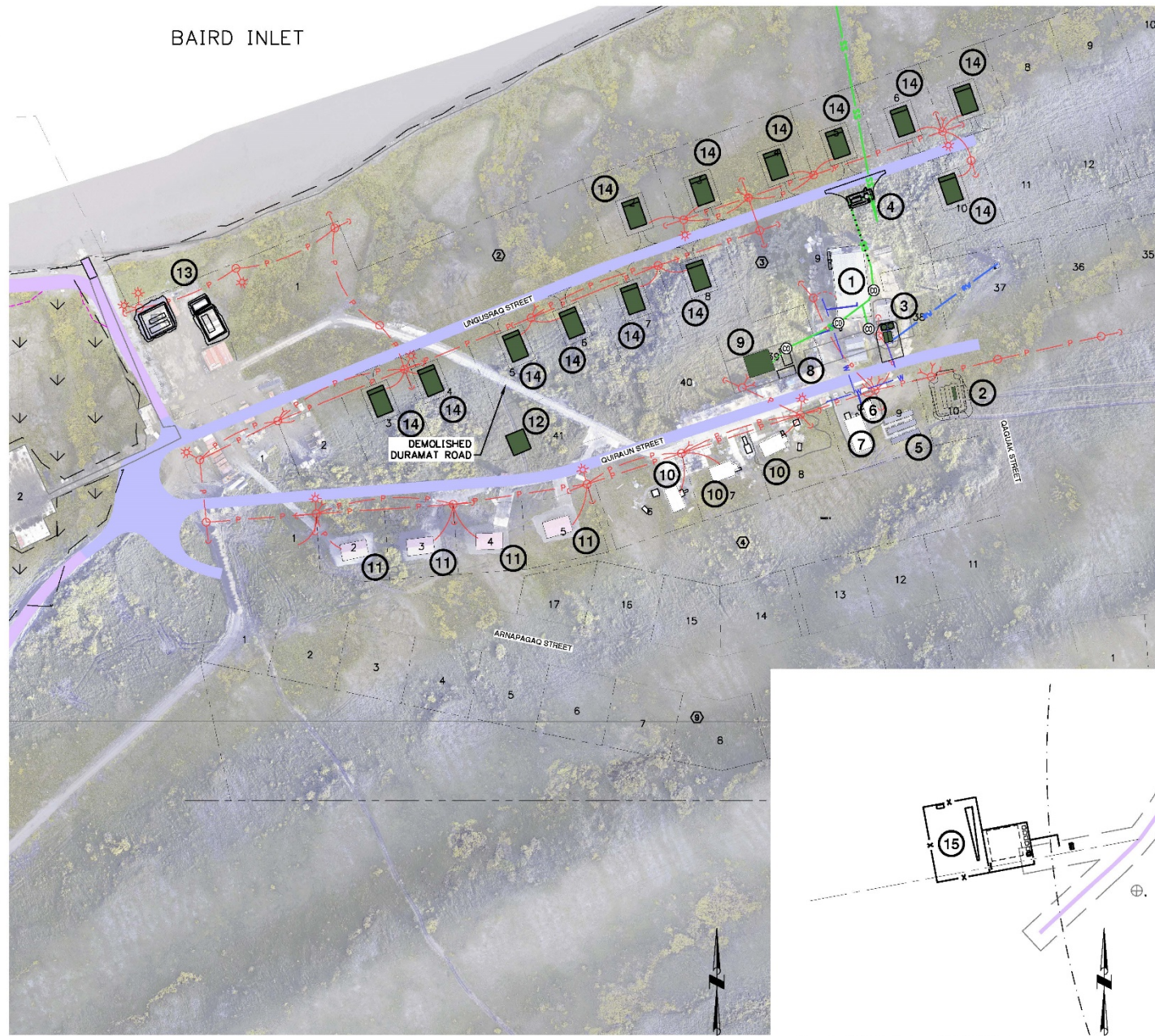
BAIRD INLET

D

C

B

A



INFRASTRUCTURE KEY	
IDENTIFIER	DESCRIPTION
1	MERTARVIK EVACUATION CENTER (MEC)
2	POWER PLANT
3	WATER TREATMENT PLANT AND WATERING POINT
4	MBR SEWER TREATMENT PLANT
5	NVC MANCAMP
6	NVC BATHROOMS/SHOWER FACILITY
7	CLINIC/STORE
8	NVC BUNKHOUSE
9	NVC MANCAMP
10	SIP HOUSES
11	AVCP HOUSES
12	MARIE FAIRBANKS CCHRC DEMO HOUSE
13	INTERIM BULK FUEL FACILITY
14	CCHRC INTEGRATED TRUSS HOUSES
15	LANDFILL



Division of Environmental Health and Engineering
4500 Diplomacy Drive
Anchorage, Alaska 99509
(907) 729-3600

0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING, IF NOT ADJUST SCALES ACCORDINGLY

MERTARVIK, AK
COMMUNITY LAYOUT
WORKING DRAWINGS

NO.	DESCRIPTION	DATE	INIT

PLAN SET: MWK-17-000
PROJ MGR: GND
PROJ ENG: JEH
DRUMS ENG: CM
DRAWN BY: ----

SHEET TITLE
PHASING PLAN - 2019
AND LANDFILL

CF-102
SHEET ---- OF ----

LEGEND	
ITEM	DESCRIPTION
	EXISTING LOT & HOUSE CONSTRUCTION
	2019 STRUCTURE CONSTRUCTION
	EXISTING ROAD & TRAIL CONSTRUCTION
	2019 ROAD CONSTRUCTION
	2019 OVERHEAD ELECTRIC CONSTRUCTION
	2019 WATER SERVICE/MAIN LINE
	2019 SEWER SERVICE

A1 MERTARVIK - NOVEMBER 2019
1" = 300'

A3 LANDFILL - PHASE 1
1" = 300'

September 2019

- = Homeowner training
- = Move-In dates
- = Infrastructure dates

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	2	3 Community Meeting + Council Meeting in Newtok	4	5	6	7
8	9 "Water is Life" week (student play production and community activities)	10	11	12	13	14
15	16	17	18	19	20	21
22	23 Community Meeting + Training for first 8 houses in Newtok	24	25	26	27	28 Water plant + Power plant complete
29 Move in CCHRC house 1,2,3	30 Move in SIP house 1 LKSD class in cafeteria					

October 2019

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	Move in SIP house 1 LKSD class in cafeteria	1 Move in SIP house 2	2 Move in SIP house 3 Fuel opens	3 Move in Marie Fairbanks house	4	5
6	7 Community Meeting + Training for next 12 houses in Newtok			10	11 Move in CCHRC house 4,5,6,7	12
13 Move in AVCP-NVC house 1,2,3	14	15	16 Move in CCHRC house 9,10,11,12,13	17 CCHRC house training in Mertarvik		19
20	21 LKSD school in MEC	22 PASS + Healthy Homes training in Mertarvik			25	26
27	28	29	30	31		

Training and Preparation for Relocation

Utility Operator Training

PASS Residential Operations Training (Yugtun)

New Home Operations Training (Yugtun)

Mertarvik Guidebook Review

Student Activity Book Relocation Lessons (Yugtun)

Portable Alternative Sanitations System
P.A.S.S.-am Aturyaraa



ALASKA NATIVE
TRIBAL HEALTH
CONSORTIUM
Environmental Health & Engineering

Cold Climate Housing Research Center
Lifewater Engineering Company
CampWater Industries, LLC
National Tribal Water Center

4500 Diplomacy Drive, Anchorage, Alaska 99508 Main: (907) 729-3600 Fax: (907) 729-4090 <http://www.anthc.org>

Ellallum/Ivsum Kuciitaan Aturyaraa

Kucitam cupluan ciuqlian quyurtelaraa ellalluk/ivsuk caarrlut-llu. Cupluq muirraarcelluku iqalriamek mermek, caarruiinguq meq kucitamun qurrlurciquq cuplurkun puc'kamun/napartamun.

Elluarrluku calillerkaanun kucitam cupluan ciuqlia, carrirturaraqluku kataagun.



Planning the Move

Moving and Packing Guide Produced

Residents to Relocate personal goods via Boat

NVC to assist residents with transporting furniture / freezers with landing craft

ANTHC working with Brice Inc., UICC, and RyanAir to secure transportation support



Recent Funding Acquired: Denali Commission

Barge Landing Improvements: \$1,100,000

- Design Barge Landing Improvements
- Construct Fuel Header
- Construct Barge Landing Improvements

- Match Provided in part by Calista and Brice Inc.



Other Recent Funding Acquired

BIA Tribal Resilience:

Travel Support for Newtok Planning Group,
AFN, BIA Providers Conference

EPA IGAP:

Environmental Program Support – Solid Waste
Focus



Declined Funding Applications

HUD FY18 ICDBG

- \$600,000
- Two 3 BR Houses in Mertarvik 2020
- AVCP Construction

BIA Tribal Resilience

- Barge Landing Design Improvements
- Health Clinic Design

2020 IRT Program (National)



Active Applications

DMVA HMPG

- Buyout And Demolition of 5 Homes in Newtok
- 2020

FEMA PDM

- Phase 2 Water Treatment and Distribution for Mertarvik
- 2020-2021

FEMA PDM

- Additional Housing Pads for Mertarvik
- 2020

YKHC

- IHS Small Ambulatory Program
- New Mertarvik Health Clinic Construction

2020 IRT Program (Local)

- Alaska Sponsored
- Heavy Equipment Shop Construction
- Roads Construction

USACE

- MEC Associated Infrastructure

Planned Funding Applications

Planned Applications:

- BIA HIP FY20 – 2020 Housing
- ICDBG FY20 – 2020 Housing
- Rasmussen Tier I – Temporary Clinic
- HMPG October 2019 – Newtok Housing Buyout and Demolition
- 2021 IRT Program



Agency Updates

- Alaska DOT – Mertarvik Airport
- Division of Homeland Security and Emergency Management – SCERP and Other Updates
- Lower Kuskokwim School District – School Operations
- Yukon Kuskokwim Health Corporation – Clinic Operations
- HUD
- BIA

2020 Critical Funding Needs

- Housing Construction Funding
- Electric Distribution Infrastructure Extension
- PASS Installation for New Housing
- Town Site Roads Extensions

Long Term Funding Priorities

- New School Facility – Funded by end of 2020
- Housing – Enough Housing Funded for Entire Population Funded by 2022
- Water / Sewer – Once Critical Mass of Housing Established

Opportunity: Relocating Newtok Structures

- Decommissioning Newtok – How can we maximize Newtok Infrastructure into Mertarvik
- What do we need to do now to plan and prepare?

Additional Updates

National Tribal Water Center – Water is Life

- Water Week : (9/9 – 9/15)
- Theatre Production

Community Veterinary Clinic

- YKHC
- Vaccinations/Spay/Neuter: (9/16-9/20)

Mertarvik Quarry Road – Emergency Landing Strip

- Successfully accommodated a medevac flight during Summer 2019
- Working with FAA to assign Private Landing Strip standing
- Working with Grant air and other airlines to establish service plans
- Working with USPS to establish Mail and bypass mail service to Mertarvik

Site Visits

Distinguished Visitors Day – July 19th

Senator Murkowski and Staff – August 15th



IRT Video:

<https://www.youtube.com/watch?v=gcTus97OTp4>

Recent Articles:

<https://www.kyuk.org/post/newtok-partners-military-escape-coastal-erosion>

<https://www.eenews.net/stories/1061110713>

Thank You

Newtok Village Council:

- Romy Cadiente – bunjng2@gmail.com

ANTHC:

- Gavin Dixon – _gndixon@anthc.org

