

House Finance Committee FY13 Budget



Alaska Mental Health Trust Authority

The TRUST
The Alaska Mental Health
Trust Authority

February 2, 2012



Trust Beneficiaries

- People with mental illness
- People with developmental disabilities
- People with chronic alcoholism and other substance related disorders
- People with Alzheimer's disease and related dementia
- People with traumatic brain injury

Guiding Principles

- **To improve the lives of Trust beneficiaries, The Trust is committed to:**
 - Education of the public and policymakers on beneficiary needs;
 - Collaboration with consumers and partner advocates;
 - Maximizing beneficiary input into programs;
 - Prioritizing services for beneficiaries at risk of institutionalization;

Guiding Principles - continued

- Useful and timely data for evaluating program results;
- Inclusion of early intervention and prevention components;
- Provision of reasonably necessary beneficiary services based on ability to pay.

Trust Advisors and Partners

- **Alaska Mental Health Board**
- **Advisory Board on Alcoholism & Drug Abuse**
- **Governor's Council on Disabilities & Special Education**
- **Alaska Commission on Aging**
- **Commissioners of Health and Social Services, Natural Resources, Revenue, and Corrections**
- **Alaska Brain Injury Network**
- **Statewide Suicide Prevention Council**

Trust Funding FY13

Distributable Income

Trust Fund Payout 4.25%	\$17,630,000*
Prior Years Lapse	3,740,000
Land Office Income	2,480,000
Interest	810,000
Total Projected	\$24,660,000

*Payout based on four-year average principal and reserve balances of \$415M.
The TLO has generated more than \$90M in principal since inception.

Formula for Success

Committed partners + Strategic thinking = Results for Trust beneficiaries

- Identify a problem or community need
- Collaborate with governmental agencies, advisory groups, non profits, service providers, philanthropic organizations and private sector
- Develop strategic, sharply focused solutions
- Make lasting system improvements for Trust beneficiaries

Five Program Focus Areas

- **Bring the Kids Home**
 - reforming Alaska's mental health care for children and adolescents so they are diagnosed earlier and are treated as close to home as possible
- **Disability Justice**
 - reducing the involvement and recidivism of Trust beneficiaries in the criminal justice system
- **Affordable, Appropriate Housing**
 - increasing a continuum of housing options for Trust beneficiaries
- **Workforce Development**
 - creating an available and competent workforce for Trust beneficiaries and service providers
- **Beneficiary Projects Initiative**
 - supporting grassroots, peer-to-peer programs for Trust beneficiaries

Bring the Kids Home

- **Problem**

- FY06: 743 Alaskan children with severe emotional disturbances received out-of-state residential psychiatric treatment services
 - separated from families and communities
 - difficult transitions back to Alaska
 - length of stay varied from several months to multiple years
 - cost = \$40 million Medicaid paid to out-of-state providers

- **Committed partners**

- DHSS, behavioral health service providers, parent and youth advocates, Trust partner boards, Alaska Native health providers, Dept. of Education, Denali Commission and others

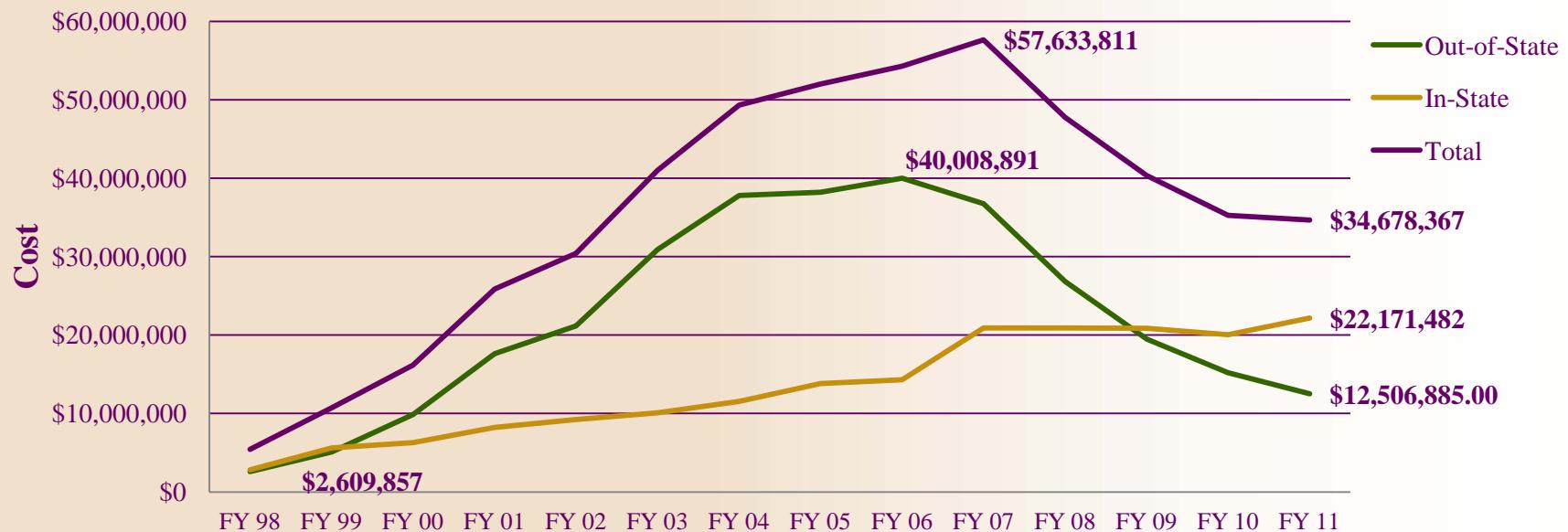
- **Strategic thinking**

- Intervene earlier, more intensively and more effectively
- Engage and treat the family
- Target use of residential resources carefully
- Expand implementation of effective practices
- Develop in-state capacity to serve youth with complex needs

BTKH Reinvestment

Shift: decreased claims overall, increased in-state claims

Residential Psychiatric Treatment Center (RPTC) Medicaid Claims



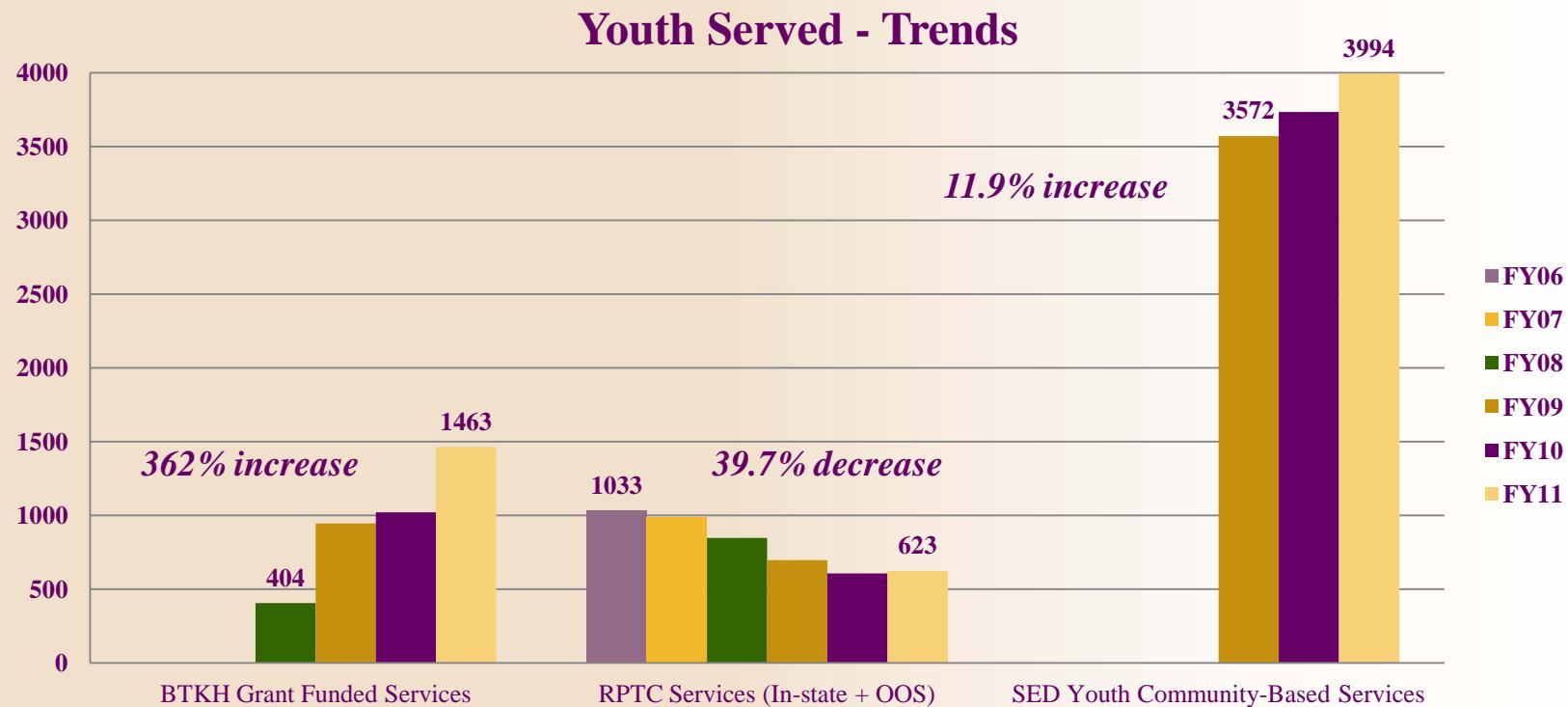
* Data provided by DHSS, Division of Behavioral Health, Policy and Planning

Financial impact:

- \$22.9M+ overall decrease in Medicaid for RPTC since FY07
- \$27.5 M+ decrease in out-of-state expenditures since FY06
- \$19.5 M+ increased in-state investment for RPTC since FY98

BTKH Reinvestment

Shift: increased service delivery at lower levels of care

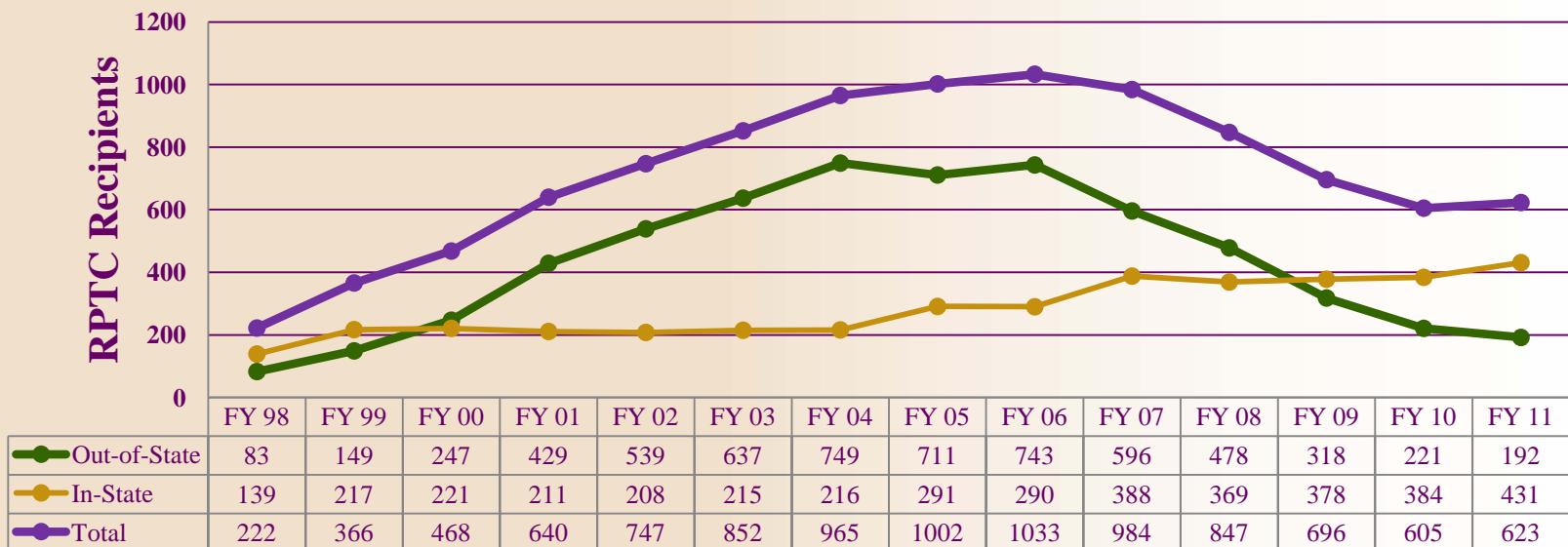


* Data provided by DHSS, Division of Behavioral Health, Policy and Planning

Results for Beneficiaries

Keeping youth in Alaska and ensuring quality

Trends: shifting from Out-Of-State to In-State RPTC



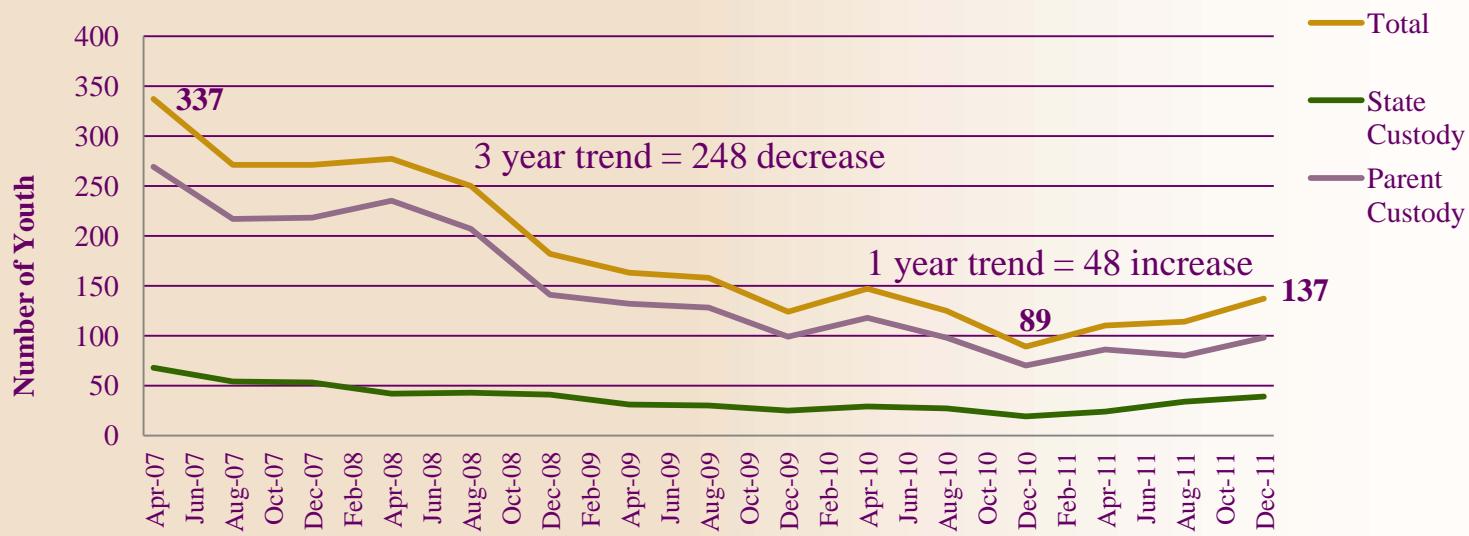
- Reducing use of out-of-state residential psychiatric treatment centers (RPTC)
 - 74% decrease out-of-state RPTC recipients FY04 to FY11
 - 40% decrease overall RPTC recipients FY06 to FY11
- Improving outcomes:
 - recidivism to RPTC within 1 year dropped from 20% to 7% (FY04 - FY11)

* Data provided by DHSS, Division of Behavioral Health, Policy and Planning

Results for Beneficiaries

What's Next?

Point-in-time count youth in out-of-state residential psychiatric treatment centers (RPTC)



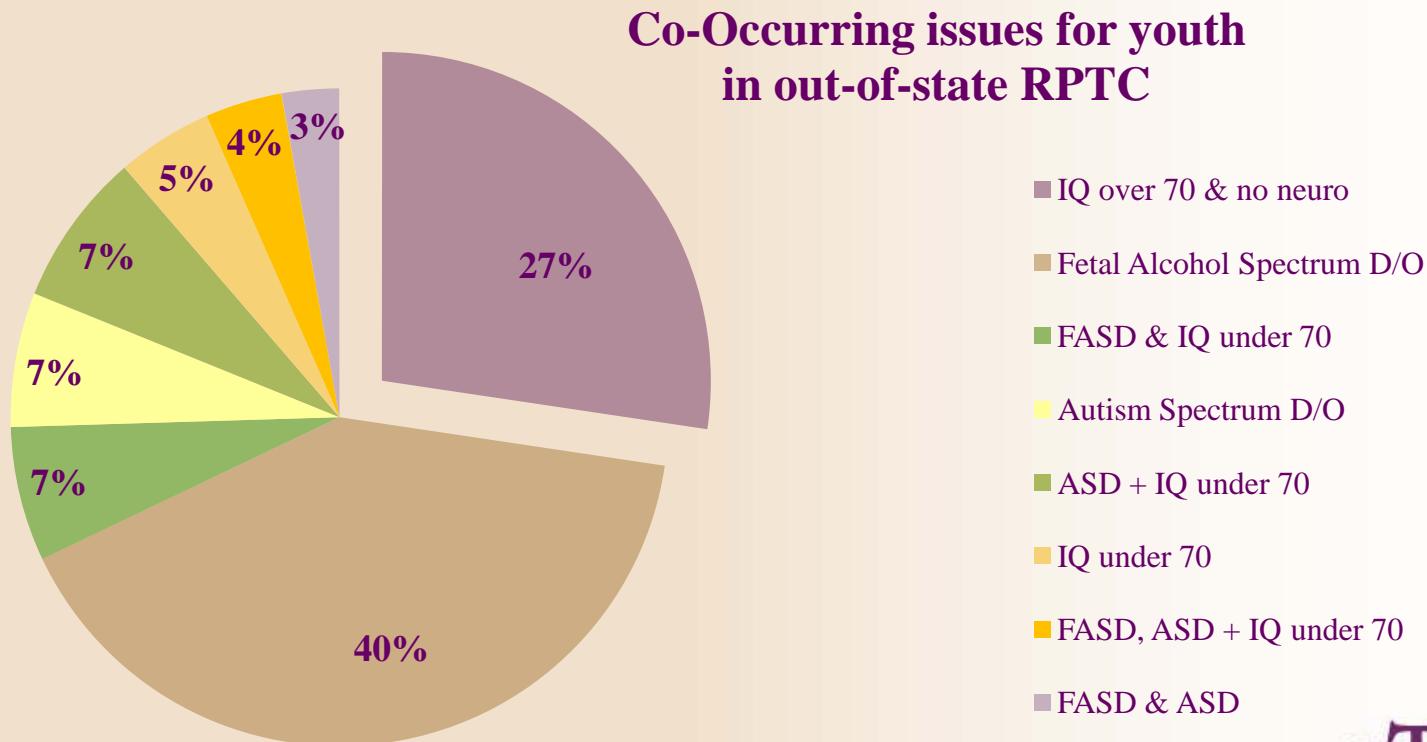
- **FY07-FY10 decrease 248 children in out-of-state RPTC (74%)**
- **FY10 - FY11 increase 48 children in out-of-state RPTC (54%)**

* Data provided by DHSS, Division of Behavioral Health, Policy and Planning from Qualis Health Care data

Results for Beneficiaries

What's Driving the Increase?

- Most youth moving to out-of-state residential psychiatric treatment centers (RPTC) have a serious emotional disorder as well as one or more co-occurring disorder



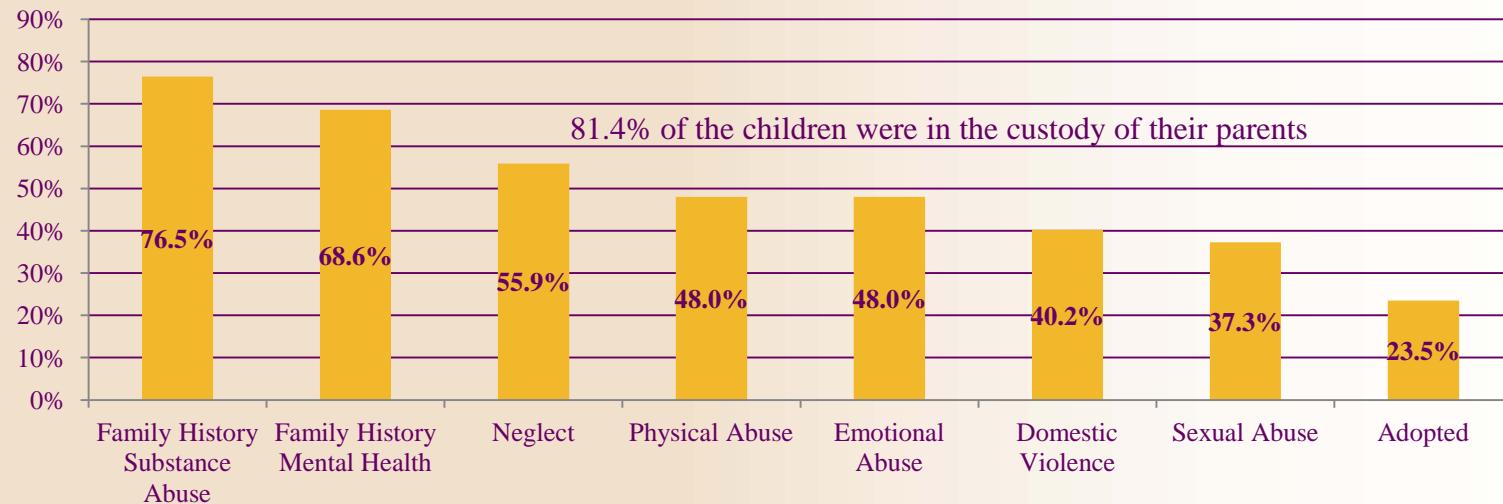
* Data provided by DHSS, Division of Behavioral Health, Policy and Planning for sample of youth in RPTC on July 31, 2011

Results for Beneficiaries

What's Driving the Increase?

- Most also experienced complex trauma

Trauma Factors: youth in in-state & out-of-state residential psychiatric treatment centers



* Data provided by DHSS, Division of Behavioral Health, Policy and Planning for admissions to RTPC between January 1, 2011 – March 31, 2011

Ahead in FY13

Facing the Challenge

- Our systems need to reach children earlier, to intervene with families, and to effectively serve youth with complex presentations
- FY13 budget increments are designed to address these needs

Transition into BTKH base budget

	<u>MHTAAR</u>	<u>GF/MH</u>
• Parent/foster parent recruitment, training, TA	\$ 138.0	\$ 138.0
• Transitional aged youth	200.0	250.0
• Parent/peer navigation	100.0	100.0
• Strong family voice		50.0

Build in-state capacity and/or base funding

• Community behavioral health capacity development	450.0
• Tribal/rural system development	100.0
• Evidence based family therapy	200.0
• BTKH in-home intensive support	200.0
• Early intervention for young children	175.0
• School based grants	125.0

FY13 Total Budget Increments

\$ 1,688.0 \$ 1,188.0

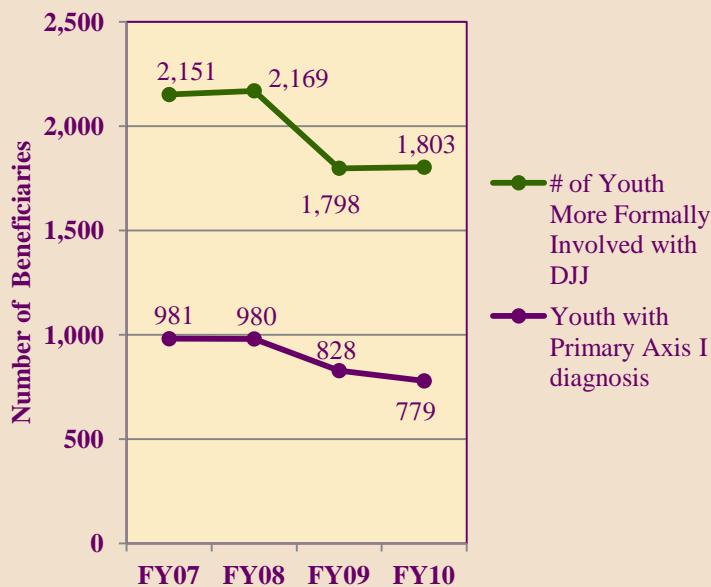
Funding in thousands of dollars

Disability Justice

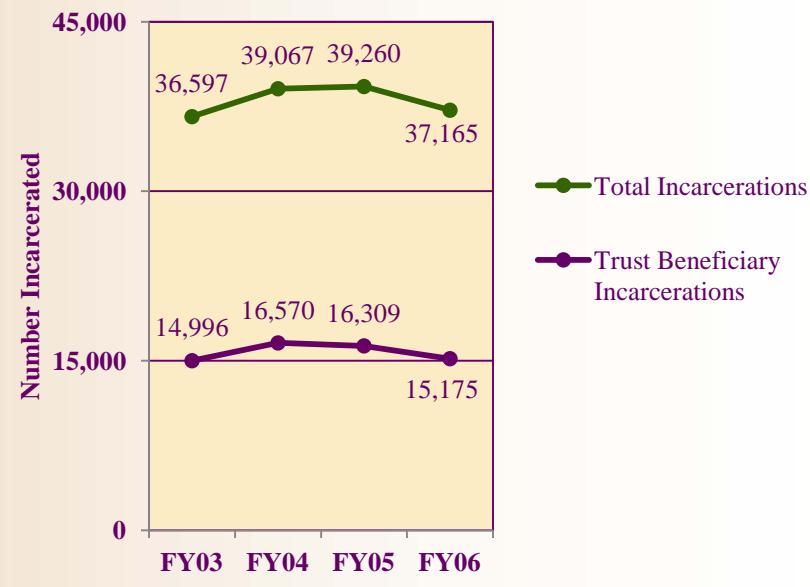
- **Problem**

- **43% of youth involved with the juvenile justice system are Trust beneficiaries**
- **42% of incarcerated adults are Trust beneficiaries**

Youth beneficiaries in Division of Juvenile Justice



Adult beneficiaries in Department of Corrections

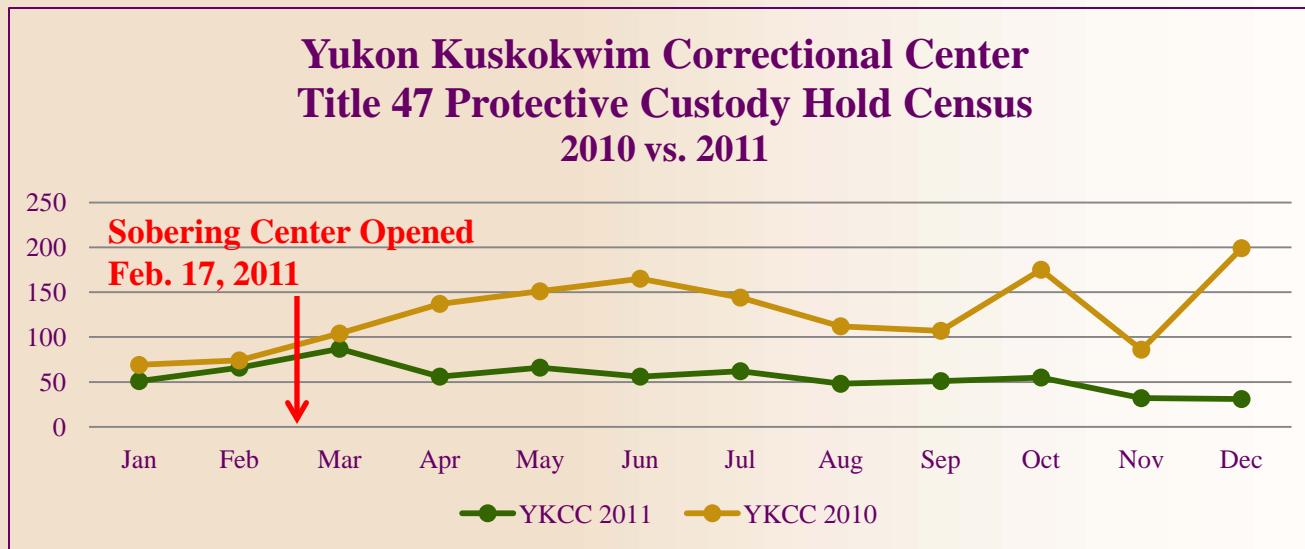


Strategic Thinking

- Partnerships with local governments; Alaska Native tribal entities; Alaska Court System; Departments of Administration, Corrections, Health and Social Services, Law, and Public Safety; and community behavioral health treatment providers are focused on effective strategies to:
 1. prevent and reduce inappropriate or avoidable arrest, prosecution, incarceration, and criminal recidivism of juvenile and adult Trust beneficiaries;
 2. increase criminal justice system's ability to accommodate, support, protect, and provide treatment for victims and offenders who are Trust beneficiaries;
 3. reduce the use of jails and prisons for providing protective custody of adult Trust beneficiaries under Alaska Statute 47.37.170; and,
 4. improve community reentry planning from juvenile detention and treatment, and adult correctional facilities back into Alaskan communities.

Outcomes Driven Results

- Alternatives for those requiring protective custody
 - Working together local agencies save lives and improve public safety
 - Reduced local jail and hospital emergency room census
 - Screened and referred to appropriate substance abuse treatment



- Therapeutic Courts
 - Combined institutional savings generated by *Anchorage Mental Health Court* almost 2½ times program annual operational costs (\$293,000)

Ahead in FY13

MHTAAR Authority Grant

Training for Criminal Justice Personnel

• Anchorage & Fairbanks police CIT training	\$ 77.0
• Deliver training for defense attorneys	\$ 15.0
• Training for DOC mental health staff	15.0
• Training for judicial officers	15.0

Sustain & Expand Therapeutic Models & Practices

• Fairbanks Juvenile Mental Health Court	305.9	5.0
• Mental Health Court expansion in targeted community	257.0	6.0
• Flex funds for therapeutic court participants		90.0
• ASAP therapeutic court case mgmt & monitoring - Barrow	139.9	

Re-entry Planning for Beneficiaries Involved with Criminal Justice System

• Division of Juvenile Justice Rural Re-entry Specialist	110.9
• Mental Health Clinical Oversight in DJJ youth facilities	152.9
• Social Services Specialist position - Bethel (PDA)	138.8

Prevention & Support for Beneficiaries who are victims of crime

• ASPEN (Alaska Safety Planning & Empowerment Network)	150.0
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Develop Alternatives to Incarceration for Beneficiaries Requiring Protective Custody (Nome)

• Pre-development activities	100.0
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Funding in thousands of dollars

Ahead in FY13

	<u>MHTAAR</u>	<u>GF/MH</u>	<u>Gov. GF/MH</u>
<u>General Capacity Building</u>			
• Criminal Justice Technician		\$ 67.2	
<u>Sustain & Expand Therapeutic Models & Practices</u>			
• Treatment funding for Therapeutic Court participants			\$250.0
<u>Re-entry Planning for Beneficiaries Involved with Criminal Justice System</u>			
• Increased capacity for IDP+ program		\$106.4	106.4
• APIC Discharge Planning Model	260.0	92.5	92.5
• DOC mental health clinical positions	164.0	191.0	191.0
<u>FY2013 Budget Increment Totals</u>	<u>MHTAAR/ Authority Grant</u>	<u>GF/MH</u>	<u>Gov. GF/MH</u>
	\$2,069.6	\$639.9	\$639.9

Funding in thousands of dollars

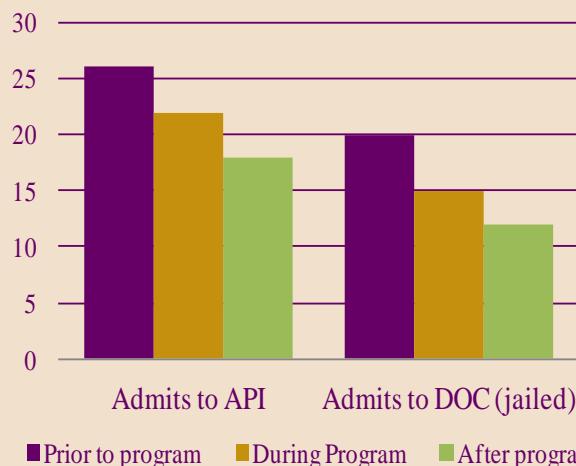
Affordable Appropriate Housing

- **Problem**
 - **6,460 Alaskans homeless in HUD point-in-time survey January 2011**
 - Families w/children dramatically increasing – point in time counts are becoming more accurate and Alaska is seeing an increase in need
 - 1,223 households (January 2011)
 - 822 households (January 2010)
 - 494 households (January 2009)
 - Chronically homeless individuals increased 25% over prior year
 - 302 individuals in 2011
- **Committed partners**
 - **Alaska Council on the Homeless: Alaska Housing Finance Corporation, DHSS, DOC, DOL, Public Safety, Veterans Adm.**
 - **Housing development organizations and social service agencies**
 - **Local affordable housing and homeless coalitions**
 - **Private business**
- **Strategic thinking**
 - **Adapting programs for sustainability - replicating successful strategies through homeless program (Special Needs Housing Grants – SNHG and Homeless Assistance Program - HAP)**
 - **Replicating *Housing First* model in numerous settings**

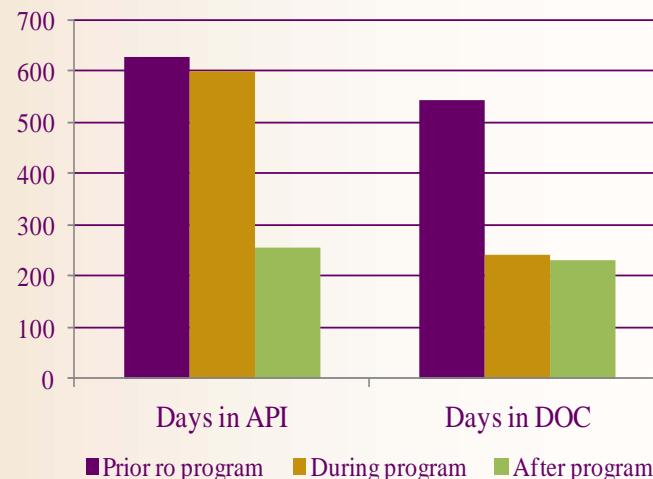
Results for Beneficiaries

Bridge Home Program: Stable, Supported Housing Reduces Jail Days

API* & DOC** Admits



Days in API* & DOC**



■ Prior to program ■ During Program ■ After program

■ Prior to program ■ During program ■ After program

*API = Alaska Psychiatric Institute **DOC = Department of Corrections

Number of Participants = 55 Data from 10/15/10 Grant Report

- Next steps: continue planning and development of programs that focus on housing stability resulting in fewer emergency services and institutional stays
- Models to examine or expand: Bridge Home and institutional discharge programs, components of Assertive Community Treatment for people with mental illness

Ahead in FY13

- **Policy - Governor's Council on the Homeless**
 - State interagency collaboration modeled on federal agencies' efforts
 - 10-year homeless plan and budget recommendations being implemented
- **Budget - \$10 million annual recommendation for 10-year plan (\$8 million allocated)**
 - The Trust, AHFC, GF/MH and other funding sources
 - Housing units targeted at chronically homeless and low income people with disabilities
- **Effective program models implemented**
 - Trust/DHSS collaboration to serve most challenging individuals cycling through API and DOC (Bridge Home and more intensive community outreach models)
 - Replication of *Housing First* to serve beneficiaries who are homeless with alcohol addiction
 - Resulted in decreased drinking and cost reductions of \$4 million in Seattle in 12-month period (Medicaid reduced 56%, sobering center down 87%, homeless shelter use down 92%)
- **Long Term Care strategic planning for Alaska**
 - Planning for needs of the state in a way that makes use of right resources at right time

Ahead in FY13

MHTAAR **GF/MH** **AHFC/GF** **Other *** **Gov.GF/MH**

Homeless Assistance Programs

Resources assisting beneficiaries leaving institutions

• DOC Discharge Incentive grants	\$ 200.0	\$ 200.0	50.0
• Bridge Home program and expansion	\$ 750.0	\$ 300.0	300.0
• Assisted Living training	\$ 100.0	\$ 100.0	100.0
• Home modifications program (DHSS)	\$ 300.0	\$ 750.0	750.0

Technical assistance and business planning resources

- **Office of Integrated Housing (DBH admin)** \$ 225.0
- **Rural Long Term Care Development (SDS)** \$ 140.0
- **Aging and Disability Resource Centers** \$ 125.0

FY2013 Budget Increment Totals \$2,690.0 \$2,200.0 \$8,050.0 \$2,000.0 \$2,050.0

Relevant support service programs: important resources to assist beneficiaries in maintaining stability

- Behavioral Health grants and Individualized Services Agreement funding (Div. Behavioral Health)
- Senior grants, residential support, Personal Care Assistance and in-home support services (Div. Senior and Disability Services)

*Other = federal funds, e.g. federal housing trust, HUD

*** Governor's budget included ALL recommended GF, GF/MH and federal funds*

Funding in thousands of dollars

Workforce Development

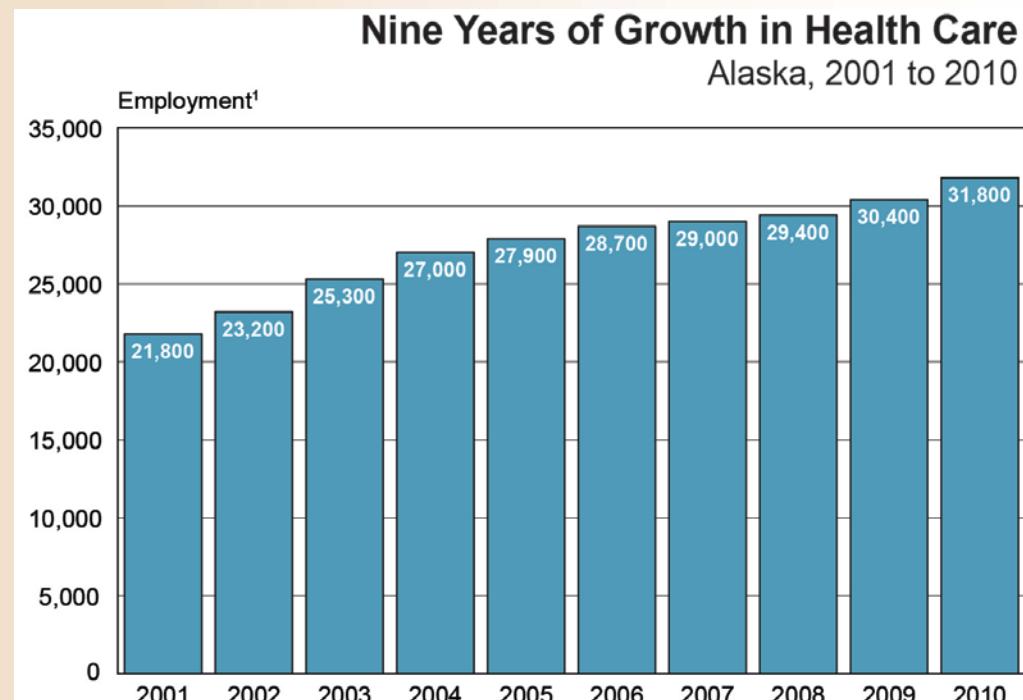
ALASKA HEALTH WORKFORCE COALITION

Core Team:

**DOL/WD, EED, DHSS,
UA, The Trust,
ASHNHA, APCA,
AWIB, ANTHC**

Coalition:

**Health Commission,
AFL/CIO, US DOL,
service providers,
Providence, AHEC, TTC,
ARBHTA, BHA, AHA,
non-profit agencies, faith-
based organizations,
ANHB**

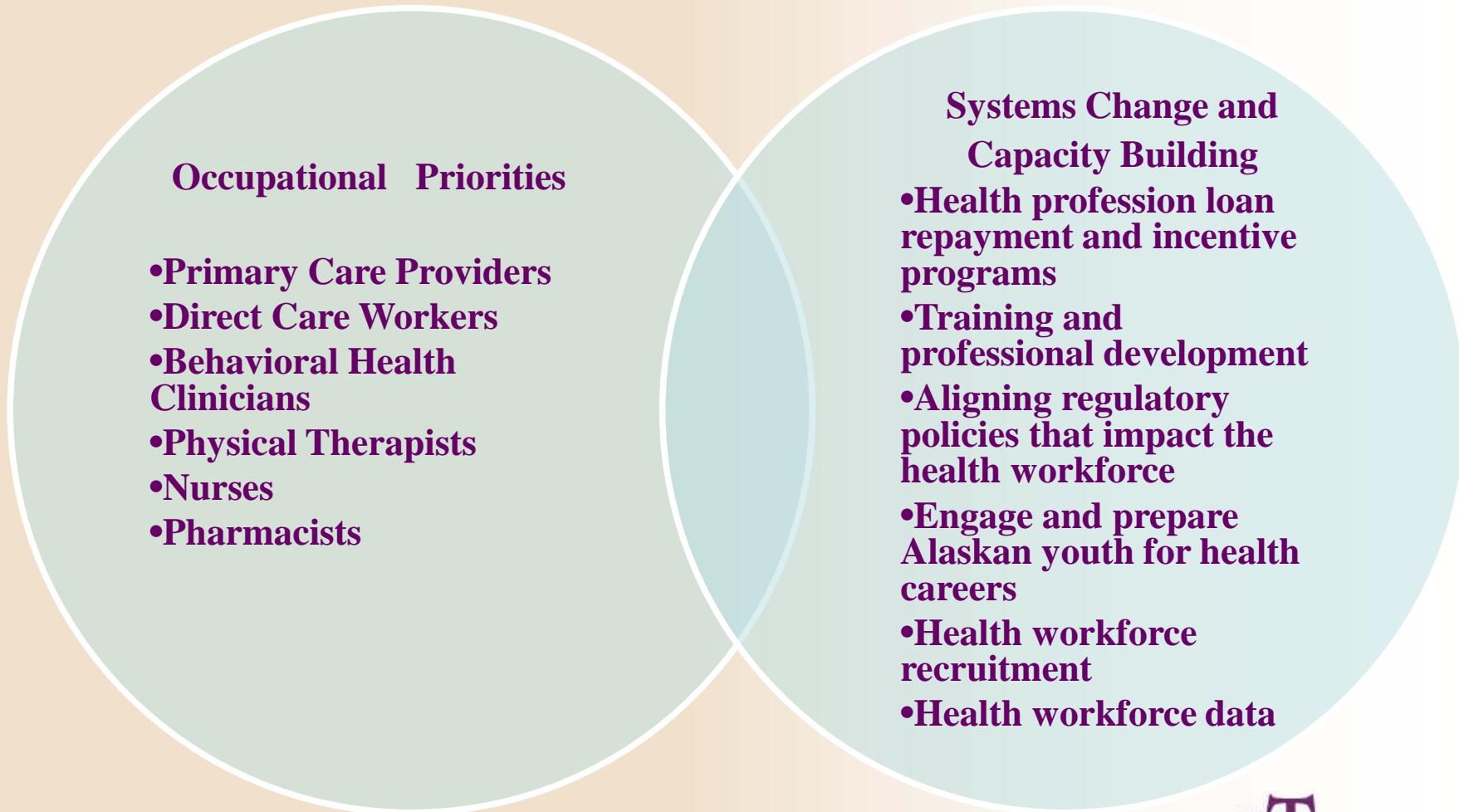


¹Employment for public and private sectors, NAICS 621, 622, and 623.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section

Strategic Thinking

Engage, Train/Educate, Recruit & Retain



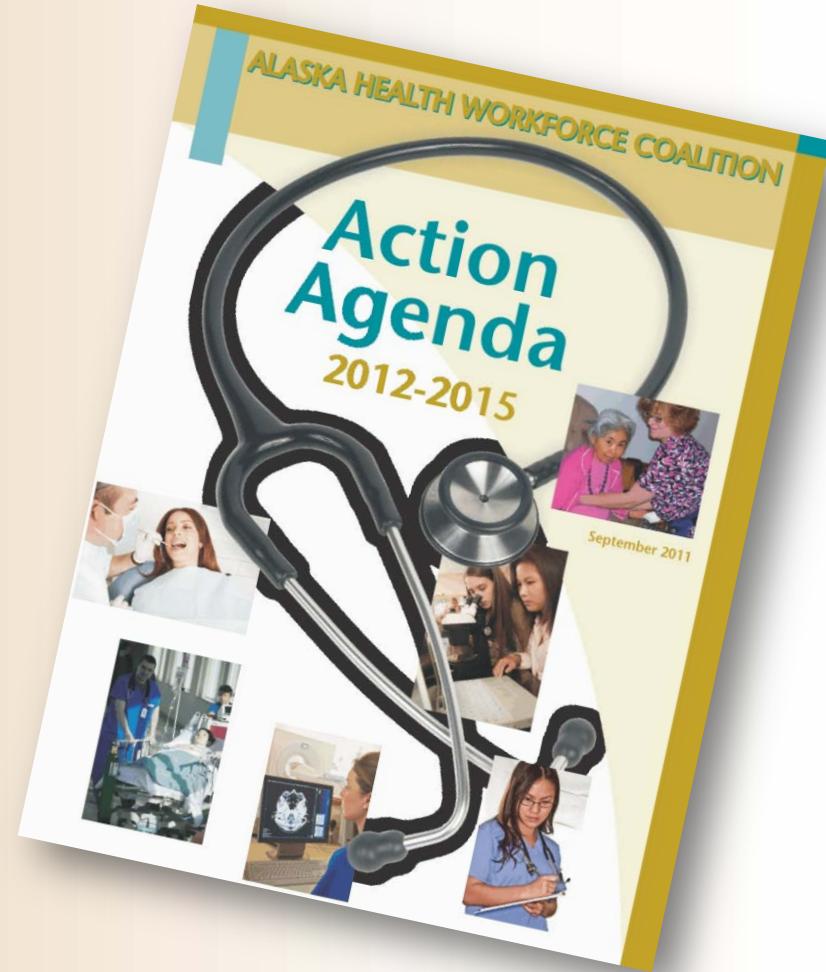
Results for Beneficiaries

- 926 providers across Alaska attended 2,173 distance delivery and on-site training sessions on behavioral health related topics through the Trust Training Cooperative in 2011
- 600 professionals across Alaska were trained through Training and Technical Assistance for Providers program, increasing capacity of providers to respond to disability related abuse cases
- 1,973 individuals around the state received distance delivery and on-site training on autism through the Autism Resource Center
- 2,449 students in 137 Alaska communities received behavioral health training through the University of Alaska in 2010 (2011 data not available)



Ahead in FY13

- Psychiatric residency
- Loan repayment and incentives
- Alaska Health Education Centers (AHEC)
- Physical therapists
- Pharmacists



Ahead in FY13

	<u>MHTAAR</u>	<u>Authority Grant</u>	<u>GF/MH</u>	<u>Other*</u>	<u>Gov GF/MH</u>
<u>Recruitment & Retention</u>					
• Loan Repayment & Incentives	\$ 200.0		\$ 200.0	\$ 400.0	\$ 200.0
• Workforce Marketing	100.0				
• Psychiatric Residency		124.0	75.0	75.0	0.0
<u>Training & Education</u>					
• UAF – HUMS (Human Services)	50.0		50.0		
• UAA Interdisciplinary Education in Children's Mental Health	64.0		80.0		0.0
• Rotations	175.3				0.0
• Physical Therapy			350.0		0.0
• Workforce Competencies (Direct Care Workers)	80.0		50.0		50.0
• Trust Training Cooperative & ARBHTA	822.5				
• TTC & ARBHTA (DSDS)			40.0		0.0
• TTC & ARBHTA (DBH)			40.0		0.0
• Interpersonal Violence Prevention for beneficiaries	80.0				
• Specialized skills & service training on serving cognitively impaired offenders	55.0				
• Technical assistance & implementation of D.A.R.T. Teams in Targeted Communities	210.0				
• AHEC			500.0		0.0
• Technology Transfer Project (CoDI)		175.0			
<u>Focus Area Administration</u>					
• Workforce Coordinator	115.0		25.0		

FY2013 Budget Increment Totals

Funding in thousands of dollars

**Other = federal funds*

<u>MHTAAR</u>	<u>Authority Grant</u>	<u>GF/MH</u>	<u>Other*</u>	<u>Gov GF/MH</u>
\$1,951.8	\$299.0		\$1,385.0	\$ 500.00

Beneficiary Projects Initiative

- **Community need:**
 - consumers active in defining, advocating and delivering recovery support
 - peer services: benefit of lower cost, preventative, evidence-based practices resulting in positive recovery outcomes for beneficiaries
- **Partners:**
 - 27 beneficiary grantees since 2006
 - Alaska Peer Support Consortium
 - Division of Behavioral Health, Senior & Disability Services, Vocational Rehabilitation, Trust Training Cooperative, Center for Human Development
 - Advisory Board on Alcohol and Drug Abuse, Alaska Mental Health Board, Governors Council on Disabilities and Special Education & Alaska Commission on Aging
- **Strategic thinking:**
 - Funding and technical assistance to support safety, effectiveness and sustainability of peer programs and services throughout Alaska
 - Training and education for peer support workforce
 - Integration of peer-support specialists across service delivery systems
 - Mini Grants to improve beneficiaries' quality of life
 - \$1,119,069 in grant funds to 844 beneficiaries in FY2011
 - Small Projects Grants for small, beneficiary-focused projects
 - \$250,000 annually

FY11 Beneficiary Mini Grants

Beneficiary Group	Number of Beneficiaries	Amount Awarded
Alzheimer's Disease and Related Dementia	259	\$248,594
Developmental Disabilities	192	\$222,852
Behavioral Health	393	\$647,623
Total	844	\$1,119,069

Maximum grant = \$2,500 per person per year

Results for Beneficiaries

- Promotes recovery, stability and wellness
- Provides sense of empowerment and connection
- Reinforces consumer choice in managing recovery
- Wide range of beneficiary-led programs serving Trust beneficiaries through:
 - peer-support services
 - recovery-community support programs
 - clubhouses
 - drop-in centers
 - community outreach and engagement
 - illness self-management
 - alternatives to residential treatment
 - supported employment
 - training and education
- State-wide presence

Ahead in FY13

	<u>MHTAAR</u>	<u>Authority Grant</u>	<u>GF/MH</u>
<u>Grant Funds for Projects</u>			
• BPI Program Grants		\$1,620.0	
<u>Technical Assistance (TA)</u>			
• TA for beneficiary groups & agencies		265.0	
• Partners in Policymaking	\$ 200.0		
<u>Program Management</u>			
• Initiative Administration		100.0	
• Beneficiary & family leadership conference		130.0	
• Evaluation		30.0	
<u>Consumer choice & expanded services</u>			
• Mini Grants – Behavioral Health		709.6	
• Mini Grants – Alzheimer's Disease and Related Dementia		260.3	
• Mini Grants – Developmental Disabilities	252.5		
• Small Projects Grants		250.0	
• Micro-Enterprise Capital		125.0	
<u>FY2012 Budget Increment Totals</u>	\$ 452.5	\$3,489.9	

Funding in thousands of dollars

Joint FY13 Legislative Priorities

Shared with all beneficiary advisory boards

- Fund \$650K GF/MH Complex Behavior Collaborative Consultation and Training
- Support establishment of a permanent Coordinated Transportation Commission and creation of statewide fund for public and community transportation
- \$500K MHTAAR match funding for patient centered medical home model pilots

Advisory Board on Alcoholism and Drug Abuse



Alaska Mental Health Board



Alaska Commission on Aging

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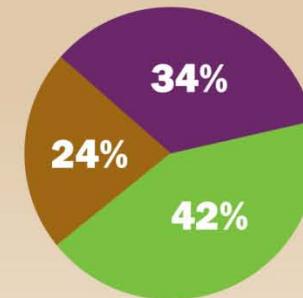
The Trust Portfolio

Acres in Alaska 365,210,227
Acres of Trust land 1,000,000*



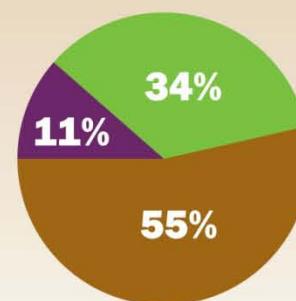
Acres by region Acres*

Northern	420,000
Southcentral	340,000
Southeast	240,000



Trust land by ownership/rights:

Full fee ownership
Full mineral rights
Coal, oil and gas rights



*The Trust has not received its entire entitlement to date; acreage totals will be adjusted in the future.

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Minerals

Acres of Trust land with full mineral rights

716,000

Acres of Trust land leased for mineral exploration and development

24,000

Most of the Trust lands with mineral assets are located in Interior and Southeast Alaska. Prospective mineral tracts are offered for exploration and development through a competitive leasing process. In recent years, there has been heightened interest in leasing Trust land for gold exploration.

Livengood Exploration

- Feasibility study currently underway
- 10,000 acres under exploration
- Job potential: 1,000 during construction, 400 during operation

Water testing for environmental baseline



Aerial view of Livengood gold deposit

Reverse circulation drill rig on Money Knob

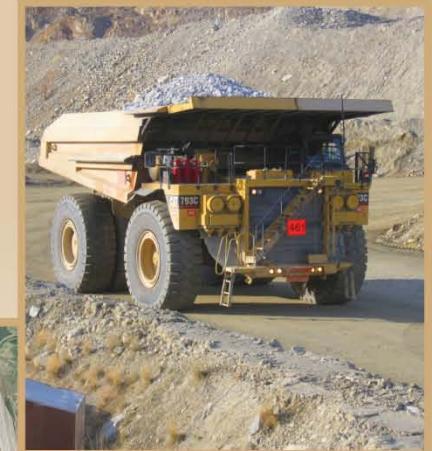
Fort Knox Mine

- Located near Fairbanks
- Over 7,000 acres
- Employs over 400 people
- Produces over 300,000 ounces of gold annually

Aerial view of Fort Knox Mine



Fort Knox Mine



Truck with 250 tons of ore and six ounces of gold



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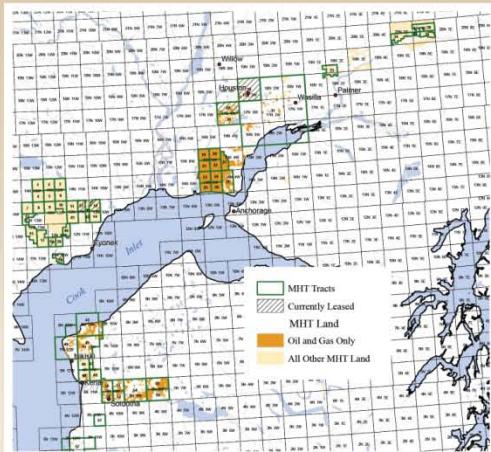
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Oil & Gas

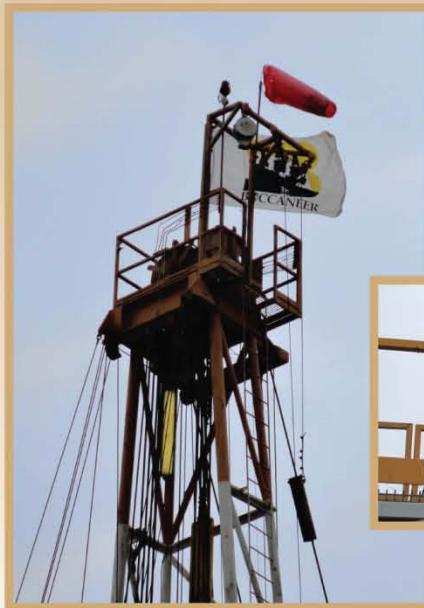
Acres of Trust land leased for oil and gas exploration	117,000
Acres of Trust land in oil and gas production	6,800

The Trust holds oil and gas interests in the Cook Inlet area and Nenana Basin. Test drilling is underway on both sides of Cook Inlet. The TLO regularly offers Trust land for oil and gas leasing and encourages active development of lands leased under this program. A new gas field is currently under development near Kenai.

Cook Inlet Oil and Gas Leases



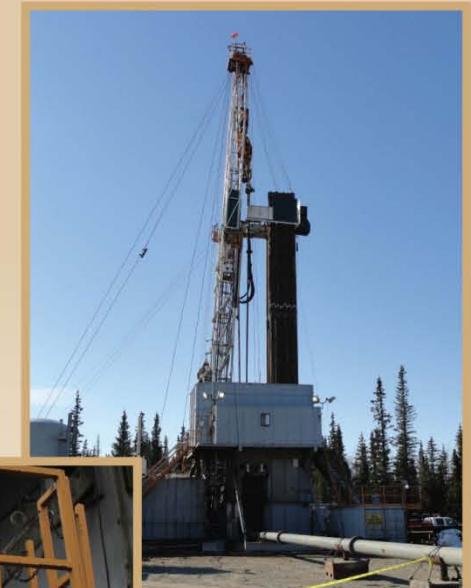
Cook Inlet Trust Land as of September 2011



Natural gas well owned and operated by
Buccaneer Alaska

Kenai Loop

- Onshore gas project in eastern Cook Inlet
- Kenai Loop No. 1 in production January 2012
- Currently three additional wells are planned



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Real Estate

Acres of Trust land with licenses, easements and leases 182,000
Revenue generated from land management \$11.8 million

Trust land is held throughout the state and many parcels are suited for residential and recreational use. The Trust Land Office holds annual land sales for these parcels and has generated \$25.9 million, not including interest. Additionally, the TLO generates income through commercial leases.

Orthopedic Physicians Anchorage



Anchorage U-Med District

Rendering of potential office building



Fresenius Medical Care



Areas outlined above in yellow are owned by The Trust

Opportunity for medical facility development

Annual Land Sales Program



Residential and recreational parcels are sold throughout the state

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Coal

Acres of Trust land leased for coal exploration and development	29,000
Acres of Trust land licensed for underground coal gasification exploration	168,000

Chuitna Coal Project



Elevated coal conveyor to reduce environmental impact

A large portion of the land selected for The Trust was specifically chosen for its abundance of coal and associated revenue-generating potential. Active coal leases are in place near Tyonek, Healy and the Mat-Su Valley. Lands in the Cook Inlet Basin are being explored for underground coal gasification prospects, which could lead to production of synthesis gas.

Underground Coal Gasification



UCG to syngas process

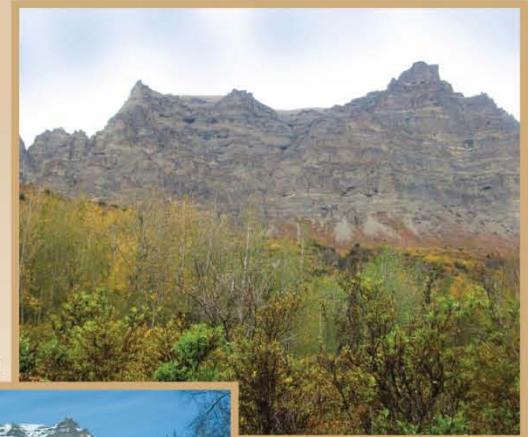


Chinchilla demonstration production facility

Chickaloon Coal Project

- 11,487 acres in the Matanuska Valley
- The Trust owns sub-surface rights; state owns surface rights
- Believed to contain high-quality bituminous coal

Castle Mountain



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The Alaska Mental Health
Trust Authority
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Chuitna Coal Project



20+ Years of Baseline Data covering air, water, soils, vegetation, fish and wildlife in the mine and surrounding areas

Chuitna River Watershed (approximately 95,000 acres)

Chuitna Coal Mine Area (approximately 5,000 acres)

Modern Mining Practices with proven reclamation and fish and wildlife habitat construction techniques



Unprecedented Baseline Monitoring of salmon smolt out-migration to establish abundance baseline

State-of-the-Art Facilities to reduce and minimize environmental impacts



Will Improve Local Economies Capital investment in mine construction is projected to exceed \$600 million with an estimated

- 500 direct jobs during construction
- 350 direct, full-time, year-round jobs during the life of the mine
- 1,200 indirect jobs

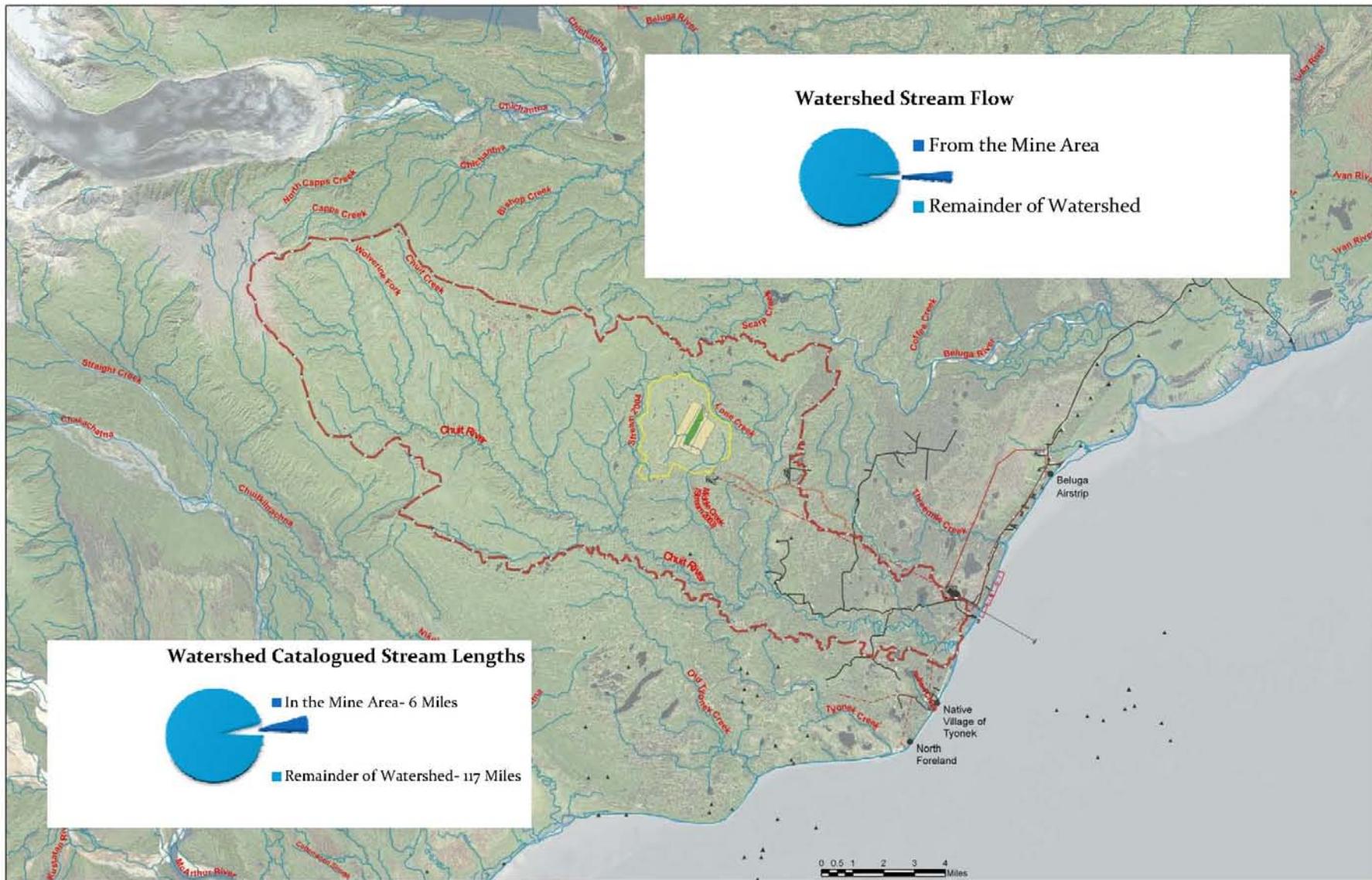
Will Fund Alaska Mental Health Trust Authority Programs Over the life of the mine, production royalties payable to The Trust are projected by the Trust Land Office to exceed \$300 million.



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Chuit River Watershed at a Glance



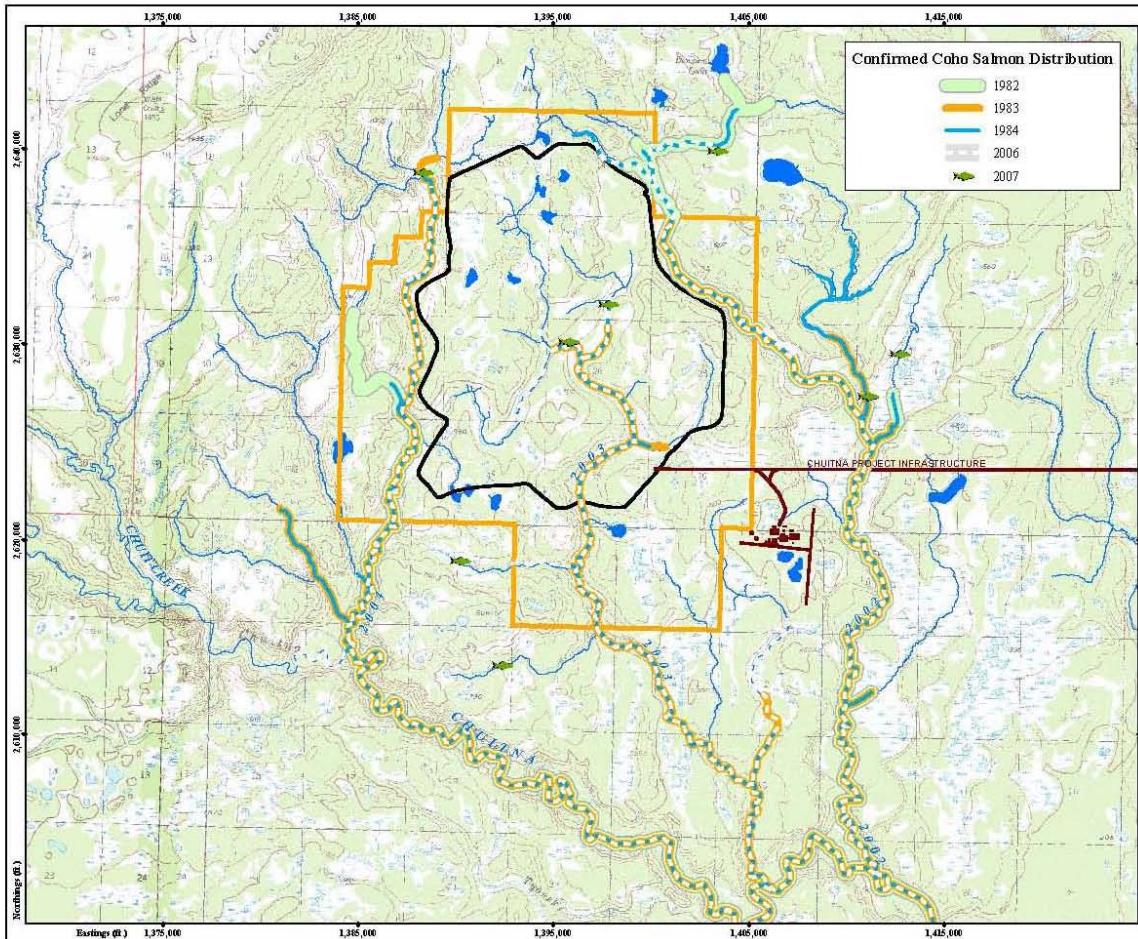


Stream 2003 near the center of the proposed mine area

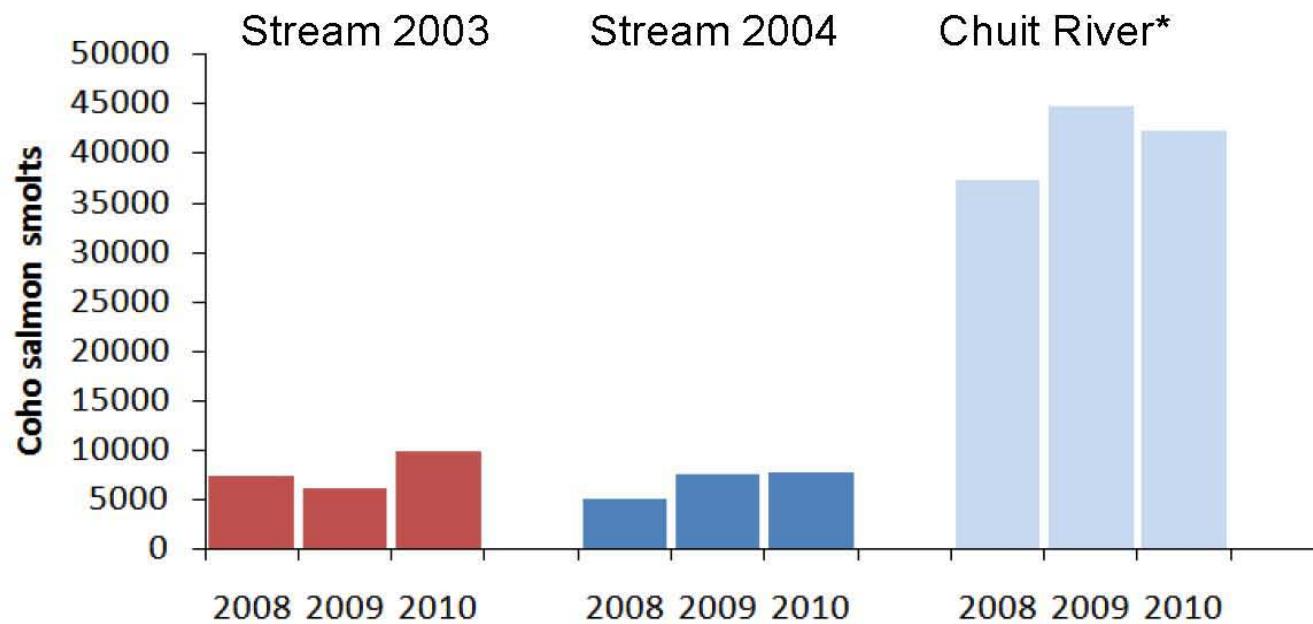


Stream 2003 at Gage Station C-<<< just inside the southern boundary of the proposed mine area

Adult Coho Salmon Distribution



Smolt Count Results



*Overall Chuit River smolt outmigration includes only that portion of the system above the Tyonek Bridge at River Mile 3.7

Portage Valley Gravel Operations



1951

- Prior to construction of existing highway
- Upland area prior to mining operations with no evidence of stream in the future mine area

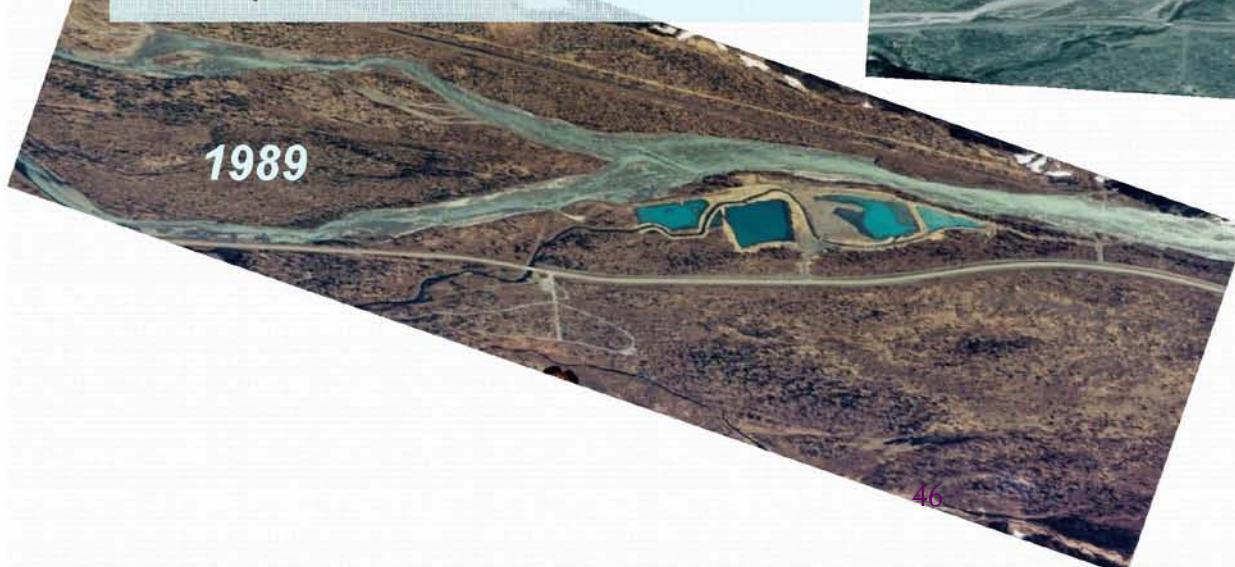
1964

- new highway has been constructed
- mining operations underway in 1 large pit area with a channel constructed to drain surface water from the pit

1964



1989



1989

- shows recent construction of the 4 Williwaw Ponds and the Williwaw channel within the 1 large pit area

2006



Thank You

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