

**Project Nomination Package**

NEED ID # 26148  
 Project Name: KPB: Tustumena Lake Road MP 3 to MP 6 Gravel to Black  
 Project Type: URBAN AND RURAL Region: C  
 Sponsor: Sponsor Contact:  
 Sponsor's Priority: Phone:  
 Location: Kasilof HPEB Date: 2/8/2011  
 Borough: Kenai Peninsula Borough

**Description:** Pave Tustumena Lake Road from MP 3-6 as a gravel-to-black project. This includes laying down 6" of base material and 2" of pavement.

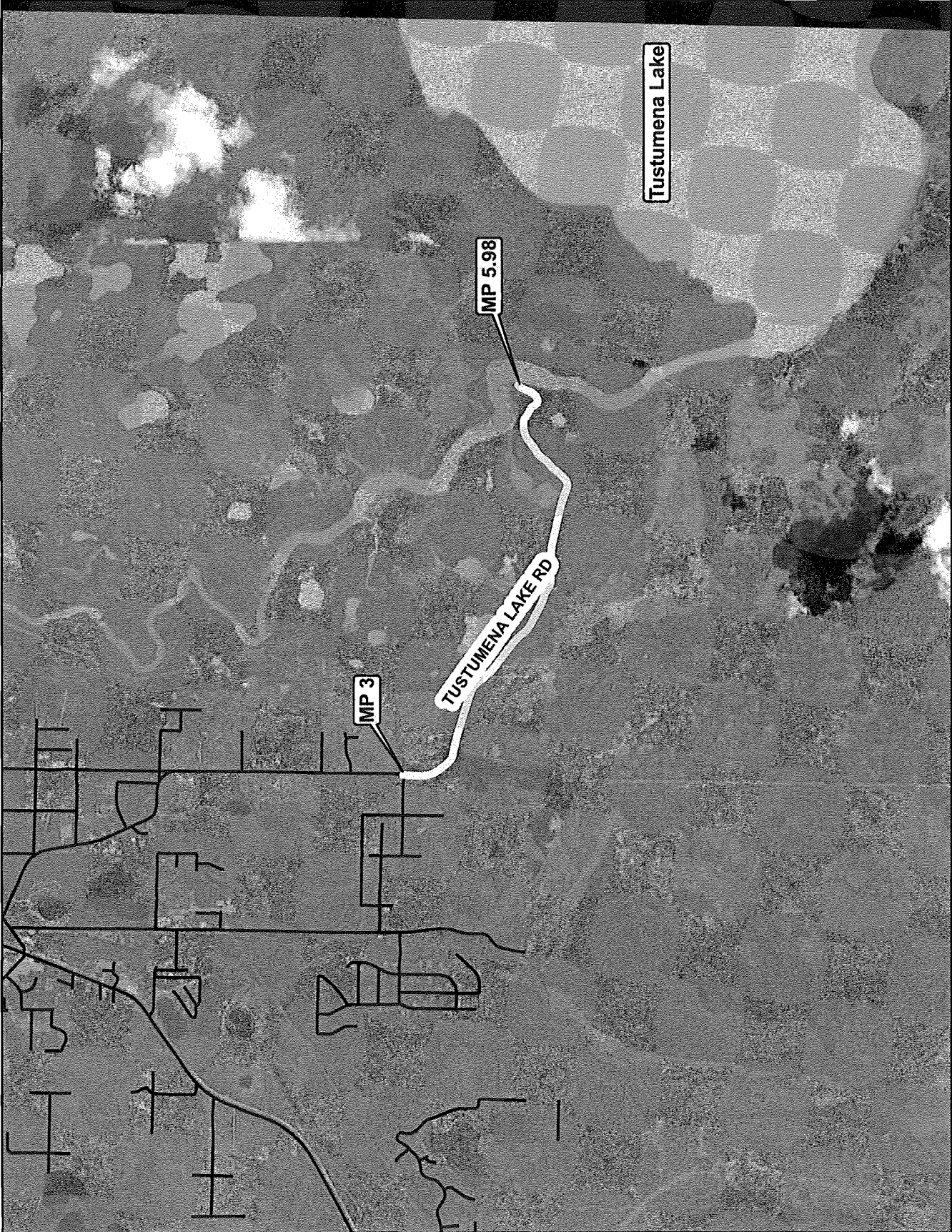
**Justification:** This road is the only access to the Tustumena Lake, a large sprawling lake within the Kenai National Wildlife Refuge. Currently the road is only a fine grain sand, which is prone to dust problems and unstable conditions. A state funded project pave the first three miles last summer and will improve the last three miles with installation of 20 culverts and building up the road bed.

	Project Cost	Sponsors Contribution
Phase 2:	\$610,000	
Phase 3:	\$160,000	
Phase 4:	\$2,300,000	\$800,000
Phase 7:	\$30,000	
<b>Total Cost:</b>	<b>\$7,600,000</b>	<b>\$800,000</b>

1	2	3	4	5	6	7	8	9	10	11	12	13
4	9	4	7	5	9	9	8	9	5	4	4	0

**Total Region Score: 304**

1. **Economic Benefit:** Project will improve access to commercial development. This road is listed in AKDNR Kenai Area plan as one of the key roads for access in the area. This road is the only access to the Tustumena Lake. The Lake itself is the only public surface access to a large portion of the Kenai Wildlife Refuge area. There is a federal campground and boat launch located at the end of Tustumena Lake Road.[ 4 ]
2. **Health and Quality of Life:** This project will remove a significant existing negative factor by paving a dusty dirt road.[ 9 ]
3. **Safety:** No mitigation is proposed.[ 4 ]
4. **Improves Intermodal Transportation:** This project moderately improves the connection between modes and enhances coordination for travelers and freight. Much of the Kenai Wildlife Refuge is accessed by Tustumena Lake.[ 7 ]
5. **Local Capital Contribution:** \$800,000 GF will be used to improve drainage and build up the sub-base and install culverts, summer 2011. This amounts to a 21% contribution. ( $\$3,100.0 + \$800.0 = \$3,900.0$ ;  $\$800.0/\$3,900.0 = 21\%$ )[ 5 ]
6. **M&O Priority:** Project is a very high M&O priority. M&O currently has to bring a grader, from Soldotna, along paved sections of road to maintain the last 3 miles, which is costly and time consuming.[ 9 ]
7. **Public Support:** The Legislature appropriated funds in 2009 to address Tustumena Lake Road.[ 9 ]
8. **Environmental Approval:** A Categorical Exclusion is likely for this project.[ 8 ]
9. **Surface Rehabilitation:** This is exclusively a surfacing project. The portion of the project addressing the road base will be improved with GF funds. Federal funds will be used to pave the surface.[ 9 ]
10. **Cost Effectiveness:** 140 AADT. Cost estimate at \$3.1million. 3.02 miles.  $(3,100/3.02)/140 = 7.33$ [ 5 ]
11. **Deficient Bridges:** No bridge deficiencies.[ 4 ]
12. **Functional Class:** This road is classified as a Rural Minor Collector. Central Region will request a match waiver be signed by the Commissioner.[ 4 ]
13. **Other Factors:** State Legislature appropriated \$7m general funds for a joint project of Tustumena Lake Road, Crooked Creek and Johnson Lake. Only approximately 3 miles of road was paved with the original project and only recently did AKDOT&PF learn the remaining 3 miles was part of the State system. In addition to being part of the State system, Tustumena lake is approximately 73k acres, 8th largest in Alaska. The area around the lake is the Kenai National Wildlife Refuge, where there is horseback riding, recreational fishing, hunting, hiking and camping. Project is structured in such a way to take innovative advantage of coordinating State M&O funds and federal STIP funds to provide substantial benefit at significantly reduced cost.[ 0 ]



**Tustumena Lake Road MP 2.96-5.98**

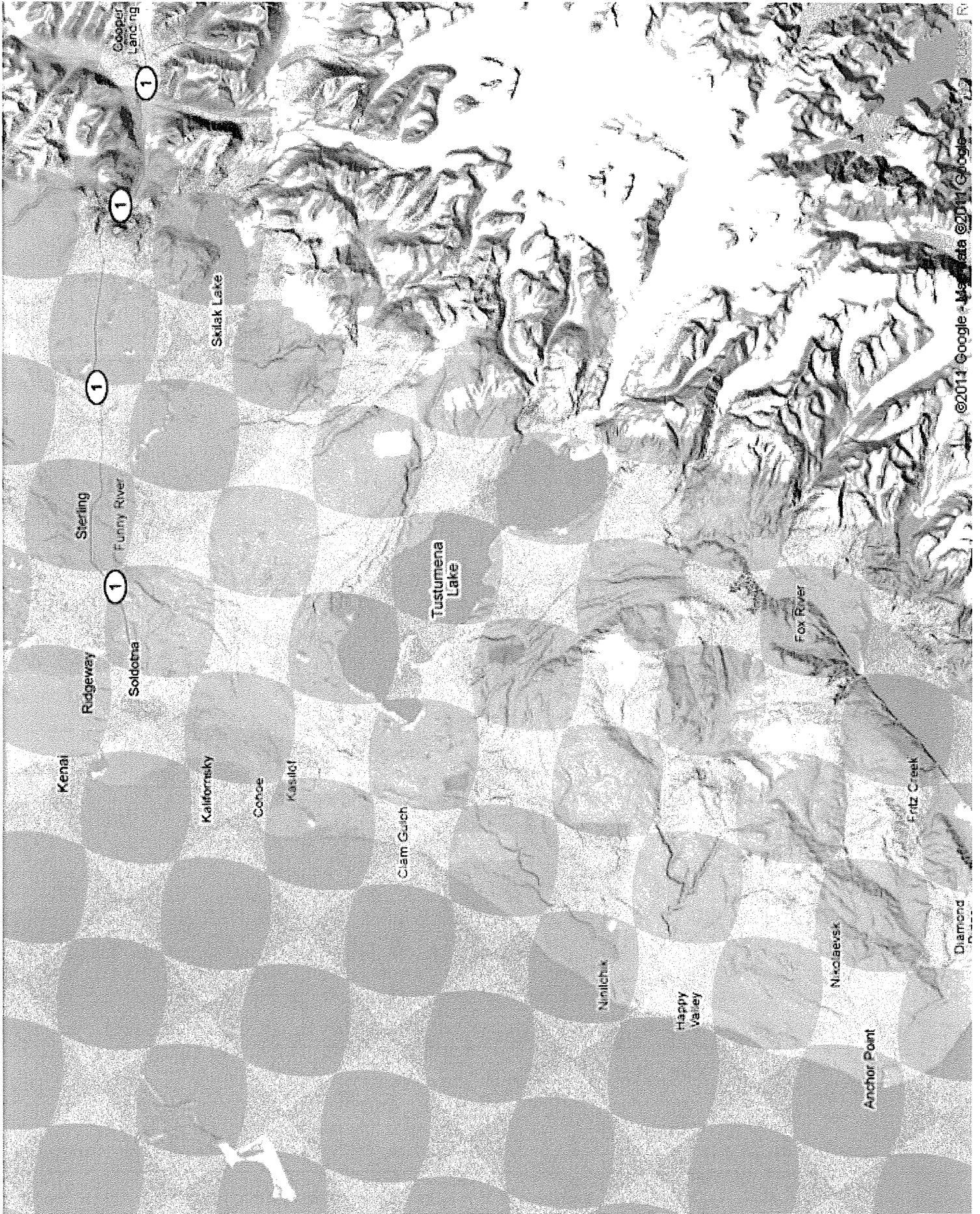
Images provided by Quickbird

Data provided by DOT&PF Pavement Management

Map created by AKDOT&PF: Planning 1/27/2011







Route/Mpt	Route Name/Description	Length(mi)	FC	07AADT	08AADT	09AADT	VMT
0.731	Cook Inlet					Total	249
<b>114763 COHOE SPUR/NESS ROAD, KASILOF</b>							
0.000	Jct with Cohoe Loop Road	0.426	9	68	60	60	26
0.426	Jct with Johansen Drive					Total	26
<b>114770 TRI ROAD, KASILOF</b>							
0.436	Jct with Denise Street	0.830	9	115	103	110	91
1.266	Jct with Cohoe Loop Road					Total	91
<b>114780 WEBB RAMSEL ROAD, KASILOF</b>							
0.000	Jct with Cohoe Loop Road	1.607	9	118	110	110	177
1.607	End of Road					Total	177
<b>114900 JOHNSON LAKE ROAD, KASILOF</b>							
0.000	Jct with Sterling Highway	0.897	9	889	840	880	789
0.897	Jct with Sterling Highway					Total	789
<b>114930 TUSTUMENA LAKE ROAD, KASILOF</b>							
0.000	Jct with Johnson Lake Road	5.960	9	90	90	140	834
5.960	End of Road					Total	834
<b>114950 CROOKED CREEK ROAD, KASILOF</b>							
0.000	Jct with Johnson Lake Road	2.388	9	326	310	320	764
2.388	Jct with Running Water Avenue					Total	764
<b>115200 POLLARD LOOP ROAD, SOLDOTNA</b>							
0.000	Jct with Kalifornsky Beach Road	1.548	9	122	171	180	279
1.548	Jct with Sterling Highway					Total	279
<b>115400 KALIFORNSKY BEACH ROAD, SOLDOTNA</b>							
0.000	Jct with Sterling Highway	4.766	7	1870	1890	1786	8512
4.766	Jct with Kasilof Beach Road	8.998	7	1910	1930	1980	17816
13.764	Jct with Cannery Road	2.411	7	6080	6140	5835	14068
16.175	Jct with Bridge Access Road	1.837	6	9763	9860	10100	18554
18.012	Jct with Murwood Avenue	2.129	6	15240	11851	12140	25846

STIP  
 Planning Estimate  
 Scope, Schedule and Estimate Confirmation

Project Name: KPB: Tustumena Pavement Project

Project Nomination Scope:

Project Nomination Estimate:	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Preliminary Engineering							
Utilities							
Right-of-Way							
Construction							
Total (1000s)							

**Scope:** Pave from MP 2.96 - MP 5.98. Lay down D1 base 6 inches followed by 2 inches pavement.

Project Costs:	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Preliminary Engineering	\$366	\$244					\$610
Utilities			\$30				\$30
Right-of-Way		\$160					\$160
Construction			\$2,300				\$2,300
Total (1000s)	\$366	\$404	\$2,330				\$3,100

**Environmental Considerations:**

Type of Document Anticipated:  PCE  CE  EA  EIS

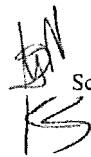
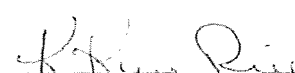
4(f) Involvement:  Yes  No "Constructive Use" consultation with statewide

Time to prepare Environmental Document: 6 months  
 CE assignable to the State under 6004

Permits Required: For scope only, D1 and pave w/no widening - no permits anticipated.  
 Verify Borough Permits. Verify 106 - not anticipated with current scope

Right of Way Considerations: The road has not been mapped for ROW. Minimum cost to perform title and other research, certify and close-out is \$42K. If recommended ROW surveying, mapping including updates and plats are done, the anticipated cost is \$160K.

Utility Considerations: Estimate is based on preliminary overview of existing utilities.


 Scope, Schedule & Estimate prepared by: Quinten Arndt 1/27/11  
Date  
 Scope, Schedule & Estimate approved by:  2/3/11  
Date  
Preconstruction Engineer