Congressman Don Y	o.n.d	DATA I	SHEET
		HOP NPO C C O L	
	140612000		
Y - NOMINAT	ON FORM	DATE ENTER 20 NOV	2 3 1977
			S
nut Control Project	it on rowall Creek	at Strand AL sta latte	5EW-011)
version Tuppel			·····
N The Lowell C:	reek Flood Control	Works is located west of	of and
a partly within	n the corporate lim		
at Lovell Cr	eek		
ward	MOIN TO DE		NILI
	1000	COUNTY COUNTY	CODE
	02	Sevard Division	210
CATION			
Y OWNERSHIP	STATUS	PRE	SENTUSE
X PUBLIC	_ DCCUPIED	AGR-CULTURE	
PRIVATE	.ZUNOCCUPFD	_ COVVERCIAL	PARK
			PRIVATE RESIDENCE
			TRELIGIOUS SCIENTIFIC
BEING CONSIDERED			- TRANSPORTATION
		MIL!TARY	KOTHER Flood Co
OF PROPERTY			
	(907) · 22	4-5214	•
B0X 337		STATE	
rd	VICINITY OF	Alaska 95	0664
ON OF LEGAL D	ESCRIPTION		
	e Office of the Bu	reau of Land Management	
	Straat		
		STATE	
Anchorage		Alaska	99501
ENTATION IN F	XISTING SURV	EYS	
l <u>aska Heritage Res</u>	ource Survey (AHF	s)	·
an 30 1073	_0	DERAL XSTATE _COUNTY _ LOC	AL
ay 30, 1973			
	n of Parks, 323 Ea	st 4 Avenue	
	Congression Dec N Congression Dec N DePARTLAR STRUCTION SISTER OF HISSI SISTER OF HISSI SISTER OF HISSI Part Structions IN Part Structions IN Part Structions IN Part Struction Decomposition (CATION) The Lowell Cri- port Sector Structure (CATION) The Lowell Cri- port Sector Structure International Composition (CATION) Y OWNERSHIP Y OWNERSHIP	Arrows and a state office of the Burger States Arrows and a state office of the Burger States Arrows and a state office of the Burger States	Congressman Don Youry Direct The Congressman Don Youry Direct Congressman Direct Congre

.

¢

¢

DESCRIPTION			
CONDITIO	N	CHECK ONE	CHECK ONE
EXCELLENT	-DETERICRATED	XUNALTERED	DA GIVAL SITE
X.GOOD (Jan. '74)		ALTERED	"NCVED DATE

DESCRIBE THE PRESENT AND ORIGINAL IF KNOWNI PHYSICAL APPEARANCE

This project was constructed to replace the first Alaske Poad Compission, 1927 flood protection facility at Seward: located on the delta of Local' Creek, a short flashy your shirt share in the int fields in the matel hour destairs. Them incruition aust do transl Hight sport I and Charly almost since its frainting of Sharef, and dury, from one to three severe flore, bir what, at which they have granities of detritus, varying from small gravel to buge boulders one-mall cubic ward in size, was carried to the delta from inexhaustible supplies in the vest talus slopes in the upper surrounding mountain canyons. The deposits amounted to some 27,000 orbic yards annually. On one occasion, in 1935, the stream deposited 10,600 cubic wards in 11 hours. This deposition on the delta caused periodic changes in the channel through the rown as accretion elevated the areas adjacent to the stream, and property suffered continuing damage. The original flood control project provided only for a diversion dam and a timber flume which carried debris and water through the central townsite and deposited it in Re wrrection Bay. This flume, in spite of heavy maintenance repairs, had so deteriorated by 1937 as to constitute a menace to the comtunity. Because of its location and design it had never fully served its intended purcose: hence its abaodonment and replacement.

New Diversion des. The Corps of Engineers diversion dam constructed further upstream in 1937-40 across Lowell Creck, is approximately 400 feet long, with a maximum beight of 25 feet. It has a creat width of 5 feet, an unstream since of 1 vertical on 1 horizontal and a downstream slope of 1 vertical on 2 horizontal. The core portion is rock filled, the downstream slope protected by a cerent rubble face, and the upstream slope faced with reinforced concrete slab. About 240 feet of the structure has a straight wing wall and the remainder is on a curve of 220.3 feet radius; including a spillway section some 70 feet low. The structure way so placed that the current would strike the curved section rearly tangentially and gradually change in direction so that its entry to the tunnel transition would be colinear with the tunnel. The transition gradually changed in share from an open flume section to that of the tunnel. By steepening the gradient in the transition section, water was accelerated to enter the tunnel at a velocity chance. The floor of the transition was paved with 40-pound railroad rails.

(b) Tunnel. The 10-foot horseshoe tunnel, 2068 feet long, was constructed on a grade of -4.2 percent. It was concrete lined throughout and the floor was armoured with 40-pound railroad rails welded to channel cross ties imbedded in the basic floor with the interstiles between rails filled with aprasion resistant concrete.

(c) Outlet works. The outlet works consisted of an open concrete flume 10 feet wide at the bottom and with side slopes of 2 vertical on 1 horizontal. It was about 109 feet long. The upstream 58 feet was laid on a -4.2 percent grade and the remainder on a -10 percent grade. The flume discharged on the precipitous slope of Bear Mountain 66,75 feet above mean lower low water in Resurrection Bay. Spaces between the rails were filled with abrasion resistant concrete.

SIGNIFICANCE

PERIOD	AF	EAS OF SIGN FICANCE CH	ECK AND JUSTIFY BELOW	
PREH:STORIC 	-ARCHEOLOGY-PREHISTORIG -ARCHEOLOGY-HISTORIC AGRICULTURY -ARCHITECTURE 491	_ COLANDALTY PLAN WHE _ CONSERVATION ECOMONICS - COUCATION 	- LANDSCAPE ARCHITECTURE - LAW - LITERAPUAS - MILITARY - MUSIC	_RELIGION _SCIENCE _ECULIFILIAT _SODAL-HUMANITARIAN _S4LATER_
Luteos tees Schoel	- COMMERCE - COMMENCE. CAS	E PRESIDENT DE EDITERENT L'AR ANNE L'AR ANNE	- Malasonny - Parasona mana	Discourses

SFECIFIC DATES BRGan 4 Aug. 1935 SPECIFIC DATES BRGan 4 Aug. 1935 Coppleted 4 Nov. 1940 N. P. Butler S R. J. Summers Construction Co. builder

STATEMENT OF SIGNIFICANCE

Significance

Several is a city of considerable significance in State and Initonal history. It is maxed after Secretary of State William A. Sevard Wo directed the ardious drive by the United States to purchase Alaska from the Russians, concluded in 1867. It ease into boing in June, 1902 when survey particle landed to begin surveys for the first major all-Alaska railroad to egen the interfer, the Alaska Central. In July of the following year the townsite was surveyed and named, a wharf constructed and streets and aromeen laid out generatical by its streets maxed futry. Jefferson, Fallson, Karne and Washington, corputing the first planed city in Alaska. Reciting fordering the street of the street streets and around a street street and aromeen laid out generatical the first planed city in Alaska. Reciting forand finally in 1915, by Executive order, the federal Alaska Engineering Conclusion exciting date versually became the Alaska Railrock, completed to Faitback in 1920. Although Anchorage, started as a writ corp by AEC, evestually became the dominant city and separt facility, seard recent the termines of Alaska's only major raily out

This historic, 1937 flood control project represents exemplary engineering for the line and place. The Flood Control Project on Loydl Creek at Segard, Alaska, was the U.S. Corps of Engineers first corplicted flood control project in Alaska. This project was not only constructed to replace unsatisfactory earlier flood protection works at Seward but it tolved a flood problem dating from the early 1900's which threatened the location and integrity of the original toonsite. Seward, but is to fit the location and integrity of the original toonsite. Seward, but of the loc fleids in the Konai Kountains, was continuelly plaqued after 1901, diversion dano di large this for flame to earry dati at sention processing and large their flame to earry dati at the mean replace, add so deteriorated by 1931 as to constitute a further nemach to the community. The original intake and flume were not only beyond econcaical repair; but a better designed, relocated flume were not early done with the accessing.

The completed Corps of Engineers, 1937-40 diversion tunnel through Bear Mountain which bypassed most of Seward, has since that time effectively controlled Lowell Creek, and has eliminated flooding. This project was suthorized by the Flood Control Act, approved August 25, 1937 (h. Doc. No. 154, 75th Congress, 1st Session.) The Executive Order No. 833 of or withdrawal of Public Land in Aid of Flood Control, Alaska, was signed by President Franklin Delano Roosevelt, on January 24, 1940. (F. Nr. Doc. 40-413; FildJanuary 25, 1940; Jiog P.x.)

1.1. 10 10 SPO-Fry 12-141

CORT. NU ATICA SHEFT

UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES INVENTORY -- NOMINATION FORM

FOR NPS USE	ONLY	
RECEIVED	AUG 2 2 1977	
DATE ENTER	NOV 2 3	1377

Flood Control Project on Lovell Creek at Soward, Almaka (2013 SCP-017)

Despite severe damage to Seward and vicinity by the great 1964 earthquake, the flood
control project withstood the massive earthshocks. Two years later, with one of
the heaviest run-offs of recordLowell Creek rose to within two feet of the crest
of the day, but often demonstrate on Protect States Conjusts Condes constantly

IT MIN MESS & MASS 1 OF 3

of the dam-but city damage was averted. The "mited States Geologic Service constantly since 1966 has circulated "Flood Prome Karning" leaflets to alert mewer residents, sportsmen, visitors and convists of a continually damagrous situation. Placement on the National Register would call attention to the exemplary merils of

PlaceEast on the National Register would call attestion to the exemplary defits of this first Alaskan Gorps of Engineers flood control project and the significant purpose it provides; while caintaining a higher level of pre-coautionary neuroness of the energy-present flood lazard in the area. Lospit: its less-than-fifty year span, the merits of this project and its significance in protecting the seaport city of the Alaska Railroad, warrant special Consideration.

Further 10 30-la Per 10 74 UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES INVENTORY -- NOMINATION FORM

PCR176US	1Y	
FECENED	157 2	- N ²
DATEFNICE	ED	LOV 2 3 1977

897 414

3

Flood Control Project on Lowell Creek at Sewerd, Aleeka (ADAS Cow-Cil)

CON1: NU=1:	ON SHEET
-------------	----------

MEMINUMINE T PAGE 2

Present

As of 11 January 1975: Overall, the tunnel remained in good condition with a few minor exceptions. Mecommediations ever made, at that time, that repair sock should be done as soon as practical to alleviate any problems developing in the field of maintenance.

C MALOR BELL	ographical refer	ENCES	
Woodman, Lynan L.;	The Alaska District Chi		cips of Engineers, 1946-1971,
1973 /in prep In-house CE :		Icenall Canada an	Seward, Alaska, Corps of
Engineers, C. (conv attache	S. Army, Office of the D	District Engineer,	Stattle, Washington
In-house CL :		sic Files LANZIL CO. Maulti	CREEN FLOOD CONTROL, Alaska
GLGEDG INLAR	AUDIEL		
ACEUSSICSESSON/NATE			
U'M 9671959055	150		
ZONE EASTING	5-21-1 16616531010	BLOLE LALELA ZONE EASTIN	
	DESCRIPTION	المسا للب	
60°-06* 13" N	ge I West, Section 9		
1490 27' 25" :			
LIST ALL STAT	ES AND COUNT. ES FOR PROPERT	IES OVERLAPPING STAT	E OF COUNTY BOUNDARIES
STATE	coc.	CSUNTY	CODE
\$74"E	CCDE	COUNTY	ČČCE (
FORM PREPA			
LOP Cherlik,	Public Affairs annaisi	st	DA't
Lee Chrolik.	Public Affairs annaisi	st	SA'E October 17, 1975
Lee <u>Chronik</u> ORGANIZATION <u>COTI S[®]OF</u> Eng STREET& NUVEER	Public Affairs special: Mineers	st	October 17, 1975 Referent 279-1333
Lee Chrolik,	Public Affairs special: Mineers	.st	Ostober 17, 1975 Teleforde 272-1333 S'A'E
AME FILE Lee Cherlik, ORIANZATIN COTA 2 OF ING STREET A NUMER T O. NOX 70 OTTOR TOWN Anchorage	Public Affairs special: Mineers		Ortobor 17, 1975 Telefoxi 272-1333 State Alarka 99510
Correction of the second secon	<u>Public Affairs speciali</u> Hinees 102	N OFFICER CEI	October 17, 1975 TRUEAUNE 5/4/6 5/4/6 Alarka 99510 RTIFICATION
ANY FILE Lee Chevrik, ORIGADATION COTA 201 TO FILE STRETA NUMBER T O. NON 70 CITORION Anchorage STATE HIST(Public Affairs sustail ingera .02 DRIC PRESERVATIO! 14 EVALUATED SIGNIFICANCE OF	N OFFICER CEI	October 17, 1975 TRUEAUNE 5/4/6 5/4/6 Alarka 99510 RTIFICATION
	Dublic Affaits Lowishi ingers .02 DRIC PRESERVATIO I EVALUATED SIGNIFICANCE OF L	N OFFICER CEI	Control 17, 1975 Titler 27 1971 1971 1971 1975 1
لا من الجنور المن المن المن المن المن المن المن المن	Public_Attalca_seciali dineera 02 DRIC PRESERVATIO E evaluate Significance of tStation Officer for the history for inducement the Actional	N OFFICER CEI THIS PROPERTY WITHIN FE Latonal Historic Preservit Register and certify that in	00:05/07 17, 1975 71,07-03 74,07-05 74,07
لا من الجنور المن المن المن المن المن المن المن المن	Public Affairs Localisi Inouta 	N OFFICER CEI THIS PROPERTY WITHIN (E _ X	Crosber 17, 1975 14,07-04 14,07-04 14,07-04 14,07-04 14,07-04 10,0
NAME Fill Octor Variation Octor Variation Strikt E warden Strikt E warden Andreas Andreas Strikt E warden Andreas Strikt E warden Andreas Andreas Andreas Andreas As the designated State F National As the designated State F State was one down as State was one down as	Public_Attalca_seciali dineera 02 DRIC PRESERVATIO E evaluate Significance of tStation Officer for the history for inducement the Actional	N OFFICER CEI THIS PROPERTY WITHIN FE Latonal Historic Preservit Register and certify that in	Crosber 17, 1975 14,07-04 14,07-04 14,07-04 14,07-04 14,07-04 10,0
Aut Fig Decky 2575 	Public Affatta Locaiali (1995) a DRIC PRESER VATIO 45 EVALUATED SIGNIFICANCE OF L	N OFFICER CEI THIS PROPERTY WITHIN FE Latonal Historic Preservit Register and certify that in	Crosber 17, 1975 14,07-04 14,07-04 14,07-04 14,07-04 14,07-04 10,0
Num Field Option Control Mark Option Soft Status Option Soft Status T Option T	Public Affairs Localish Innorta 1002 DRIC PRESERVATION REVALUATED SIGNIFICANCE OF L	N OFFICER CEI THIS PROPERTY WITHIN TEX Istond Histors Present Hepster and centry that a owner notified S: H.P.O.	0-0-20/02-17, 1215 TL(0-0-0 747 147 147 147 147 147 147 147
Lot fill Octor Jit Octor Jit Cott of Ling Total Angel Angel Total Angel	Public Affairs Locales (100:13 102 DRIC PRESERVATION 16 EVALUATED SIGNIFICANCE OF 14 Lasses and the second for 16 Info the hashood for 16 I	N OFFICER CEI THIS PROPERTY WITHIN TEX Istond Histors Present Hepster and centry that a owner notified S: H.P.O.	0-0-20/02-17, 1215 TL(0-0-0 747 147 147 147 147 147 147 147
Num Field Option Control Mark Option Soft Status Option Soft Status T Option T	Public Affairs Localish Innorta 1002 DRIC PRESERVATION REVALUATED SIGNIFICANCE OF L	N OFFICER CEI THIS PROPERTY WITHIN TEX Istond Histors Present Hepster and centry that a owner notified S: H.P.O.	0-0-03/02-13, 1975 TL(0+xx) 3-44 3-45
	Public Affairs Localish Innorta 1002 DRIC PRESERVATION REVALUATED SIGNIFICANCE OF L	N OFFICER CEI THIS PROPERTY WITHIN TEX Istond Histors Present Hepster and centry that a owner notified S: H.P.O.	0 0
	Public Attack secial i dinous a ORIC PRESERVATION Second States Significance of States Significance of States Significance of States	N OFFICER CEI THIS PROPERTY WITHIN TEX Istond Histors Present Hepster and centry that a owner notified S: H.P.O.	0 0
	Public Attack secial i dinous a ORIC PRESERVATION Second States Significance of States Significance of States Significance of States	N OFFICER CEI THIS PROPERTY WITHIN TEX Istond Histors Present Hepster and centry that a owner notified S: H.P.O.	Dreshor 17, 1915 Tillerve 272-1313 1441 Alapta 9530 ATTPICATION UTHE STATE IS LOCAL LOCAL COCAL COCACTISTIC Problem Ether 85-655.1 Thas seen evaluated according to the College DATE 9/16/1976 STER DATE 1/23/77 DATE 1/2-77

A new York

ł