

WATERPOWER OF THE UNITED STATES

State Alaska Stream Lake Plotnikof Site Lake Plotnikof 2592

County <u>First Judicial Division</u> Mer. _____ T. _____ R. _____ Sec. _____ Lat. <u>56 °34.1 ' "</u> Long. <u>134 ° 58.3 ' "</u> Miles above mouth _____ Drainage Area <u>21</u> sq.mi. <u>54.39</u> sq. km	Owner _____ Constructed _____ Storage <u>32,000</u> af <u>39,472,680</u> m ³ Installed capacity _____ mw Installable capacity _____ mw
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FLOW			ELEVATIONS				HEAD		THEORETICAL POWER mw-100 % Eff.	ESTIMATED AVERAGE ANNUAL GENERATION mwh
Percent duration	cfs	m ³ /sec	Forebay		Tailrace		Gross			
			ft.	m	ft.	m	ft.	m		
95	<u>42</u>	<u>1.2</u>	<u>400</u>	<u>121.9</u>			<u>400</u>	<u>121.9</u>	<u>1.43</u>	
50	<u>225</u>	<u>6.4</u>							<u>7.65</u>	
mean	<u>250</u>	<u>7.1</u>							<u>8.50</u>	<u>59,500</u>

Remarks: **Baranof Island - Port Alexander C-3**

WPS A 1947

Lake surface 250

40 Foot dam

No draw down

4800' conduit

includes 3500' tunnel

PSC lands bebw 350' and $\frac{1}{4}$ mile of tunnel route

Quad Port Alexander C-3

Lake elvv. $275+40=315$

Determine height of dam
by survey of left abuttment

If dam can be built higher
than 350 enlarge withdrawal

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WATERPOWER OF THE UNITED STATES

State Alaska Stream Lake Plotnikof Site Lake Plotnikof 2592

County <u>First Judicial Division</u>				Owner _____			
Mer. _____	T. _____	R. _____	Sec. _____	Constructed <u>39,471,680</u>			
Lat. <u>56 ° 34.1 ' "</u>		Long. <u>134 ° 58.3 ' "</u>		Storage <u>32,410</u> of <u>7,471.68</u> m ³			
Miles above mouth _____				Installed capacity _____ mw			
Drainage Area <u>21</u>		sq. mi. <u>54.39</u>		sq. km _____		Installable capacity _____ mw	

FLOW			ELEVATIONS				HEAD		THEORETICAL POWER mw-100 % Eff.	ESTIMATED AVERAGE ANNUAL GENERATION mwh
Percent duration	cfs	m ³ /sec	Forebay		Tailrace		Gross			
			ft.	m	ft.	m	ft.	m		
95	42	1.2	400	121.9			400	121.9	1428.43	
50	225	6.4							7650	
mean	250	7.1							8500	59,500

Remarks:

W.C.P. SA 1949

Good Port Alexander
C-3

Lake surface 350

40 foot dam

no draw down

4800' conduit

includes 3500' tunnel

Lake elev. 275
 $\frac{48}{315}$

PSC 264 lands below 350' + 1/4 mile of
tunnel route

Determine height of
dam by survey of left
abutment

If dam can be built higher
than 350 enlarge withdrawal

W.C.P. SA 1949
C-3