

Site No. 19050002-158 TK
1/78

UNDEVELOPED HYDROELECTRIC SITE

State ALASKA County _____ Site Unnamed

Location Sec. 3, T27N R1W Seward Stream TALKEETNA

Planned by (date) USGS (?)

Reference TALKEETNA Mtns (B-5) Alaska Date 1952 Edition

Quadrangle coverage TALKEETNA Mtns (B-5) Alaska

Land: Public _____ Private _____ Use: P, I, FC, MI, R

<p><i>wsat = 350'</i></p> <p>Dam: Height <u>350'</u> Length <u>1200 feet</u></p> <p>Normal pool altitude <u>1200 ft.</u></p> <p>Reservoir area <u>853.24 acres</u></p> <p>Storage capacity <u>94,781.6 acre feet</u></p> <p>Drainage area <u>852.8 square miles</u> <i>0.037 cfs/mi²</i></p> <p>Gross head _____</p>	<p style="text-align: center;"><i>Q₅₀ = 14.7 MW</i></p> <p>Undeveloped capacity <u>51.678 MW theoretical</u></p> <p>Percent efficiency _____</p> <p>Annual generation _____</p> <p>Plant factor _____</p> <p>Mean flow <u>1737.06 cfs = 1,257,631 ac ft/yr</u></p> <p>Period of record <u>11 yr (1975) gage 15292700, area ratio</u></p>
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Remarks: *Without enough storage upstream to regulate flows, there would be a lot of spill. Therefore, Q₅₀ should be used.*

Q₅₀ = 1737 / 3.5 = 496 cfs

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