

Environaid land-water reports

Dan Bishop & associates

1974 through 1992



DRAFT





Dan's career

Daniel M. Bishop was a prolific author and "*land-water*" investigator. His wife, Elizabeth Bishop, a wise-&-beloved librarian, thoroughly edited most of his Environaid reports, and they remain notable examples of fine writing, by any standard, casual or scientific. Witness, for example, his phrase "*land-water*," part-title to some of Dan's early post-USFS reports. Many 'ologists' would inflate that into some 14-syllable soporific. In a field of pumice, Dan was granite.

Entering my 7th decade, I (Dan's old sidekick, RC) pay more attention to these details of communication. Preparing his reports for dissemination on *JuneauNature*>*Media types*>*Environaid reports*, I grew curious about how much of the

Left: Beth and Dan at home on Áak'w, *little lake* (Auke Lake). Ruin in right background is the spine of a chimney once attached to the previous dwelling, allowed to stand as monument after that building's demolition. Dan admired rockwork.

Cover: Early in our 10-day sojourn on Chuck River, Feb, 1985. We hacked up so much firewood to heat this tent that I soon cobbled together a pair of sawhorses, standing against that spruce on the right.



Why do we live here? With his backloop neighbor and former FSL colleague Doug Swanston—geologist and colluviologist (is that a word?)—Dan contemplated writing a prospective homebuyer's guide to environmentally sensible living places along the roaded CBJ. As a student of residence, I'd love to see a private copy of such a document, but wouldn't necessarily want to share it. Is that why it never happened? Should paradise be quiet, or

clean-&-careful Environaid writing style had been attributable to Beth's literary influence. In winter 2021-22, in her room at Pioneer Home, I asked Beth about that. Back in my 30s—a latecomer to writing for public consumption, and prone to hyperbole—I too had benefited from *Ma-Bishop's* smiling-but-firm *redtining* in my draft submissions

to Environaid reports. Had she done much of this for Dan?

"No, I didn't have to. Dan was a fine writer."

Beth is modest as well as wise. Takes a writer to know a writer. And nobody writes masterfully in a vacuum. Environaid publications are in a sense 'village-creations', authored by the community—emeritus dignitaries & scruffy hermits alike—whom Dan honored with the title "Associates."

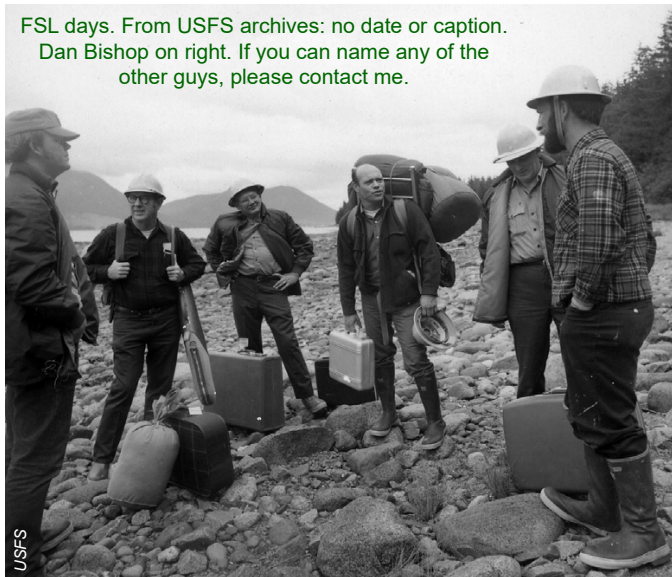
Rough timeline:

- **1955—56** Inventory forester, State of Washington, Olympia
- **1957—58** Survey Forester, Forest Service, Portland
- **1958—60** Research Forester, FS, LaGrande
- **1960—64** Research Forester, FS, Juneau
- **1965—66** Contract builder, Girdwood
- **1966—73** Regional Hydrologist, FS R-10
- **1973—91** Owner/founder Environaid

As I wrap up (for now) the [Bishop-Environaid section on JuneauNature](#), I need to defer further biographical research. But here's some notes for anyone who'd like to pick up those threads:

- Meehan report 1969 says Bishop was *formerly Hydrologist with the Institute of Northern Forestry, now Watershed Scientist, Alaska Region*,

FSL days. From USFS archives: no date or caption.
 Dan Bishop on right. If you can name any of the
 other guys, please contact me.



Forest Service, USDA, Juneau.

- Schmeige *et al* 1974 says Bishop was formerly with Region 10, US Forest Service
- bio for the 81 salmoncreek study said 8yrs consulting and prior 11 yrs with FS. That works out to 1962 for Hollis arrival and 1973 for Environaid.
- 1985407 woodwaste has a thorough curriculum vitae, good for dates for above timeline.
- Hollis period. Family photos?

- The move to Áak'w.
- First *Environaid* report, Tee Harbor 1974
- Dan's memorial was on September 7, 1991. His wife Elizabeth (Beth) Bishop passed away in 2022.
- Bio notes from Gretchen & Brita would be great. Memories co-authors on the Salmon Creek report from Tim Moore & Jan Caulfield?
- Unanswered questions: Where's the little 4-fold? Who drew the Dipper-logo?
- More Bishop reports in NOAA Auke Bay Lab Library? (source of 1987 Auke Lake sockeye report)

At some point in the late-80s or early 90s—probably before illness spilled the wind from his sails, when *Environaid* reigned regionwide in Southeast 'land-water' consulting—I helped Dan and Beth draft a little 4-fold company advertising pamphlet. On one panel, a micrographic, hand-traced map of the archipelago began to fill up with dots showing streams Dan had studied, first with USFS and later as private consultant. I don't think we ever printed many copies.

That draft brochure, or at least the stippled map, would make an eye-opening addition to this summary of Dan's adventures. But it's so far failed to emerge from the boxes of Bishop archives. Now (2022) a decade or so older than Dan was when he left us, I take pride in how much Tlingit-&-Haida land-water I've paddled and bushwacked. But I can't have walked as many Southeast stream miles as "*The Dipper*," as partner Leigh Smith called him. A partial(!) GIS map of Dan's study sites is on the next page.

I've listed about 70 of Dan's documents chronologically below. At his passing, Beth and Gretchen Bishop gave printed copies of about 25 of the most important *Environaid* reports to [UAS Egan Library](#), but they've not been scanned for digital download. A few more found their way into other Alaskan collections. The few downloadable versions I've seen were hastily copied and hard to read.

All known publically-held printed copies are listed on the web site for [Juneau Public Libraries](#). Linked call-numbers below take you to their document description pages. Citations without call numbers are not held by any library I'm aware of. Several library copies from a 1984 "*technical projects*" list are shown in green. Although Dan was "sole

investigator or project leader" for these, it's possible that some did not result in surviving reports.

Recovering the Environaid reports

Dan's consulting publications were initially delivered to his clients: agencies, NGOs and developers. Rarely were they archived in journals or regional compendia. So they've been largely unavailable to naturalists, scientists and Southeast outdoorsfolk.

In 2022, Dan's daughter Gretchen brought by half a carload of 30-year-old+ Environaid documents, with original copies of their associated maps and images. I began to scan and reformat them, assembling fairly high-res pdfs of his 20-or-so papers of greatest interest to residents of Lingít (& especially Aak'w) Aaní. Optical Character Recognition is impractical for some, because the Bishop family's early dot-matrix printer cranked out blotchy letters inducing several typos per line. A few were worth the trouble to hand-correct; others are uploaded as quite readable but not cut&pastable documents.

Most of the reports in Environaid archives were spiral bound and photocopied. I've disassembled them for easier scanning. In many cases, folders contained maps and graphics that Dan and I created, as well as 9x9-inch air photos and USGS topographic maps, that he glued into report masters for creation of B&W copies.

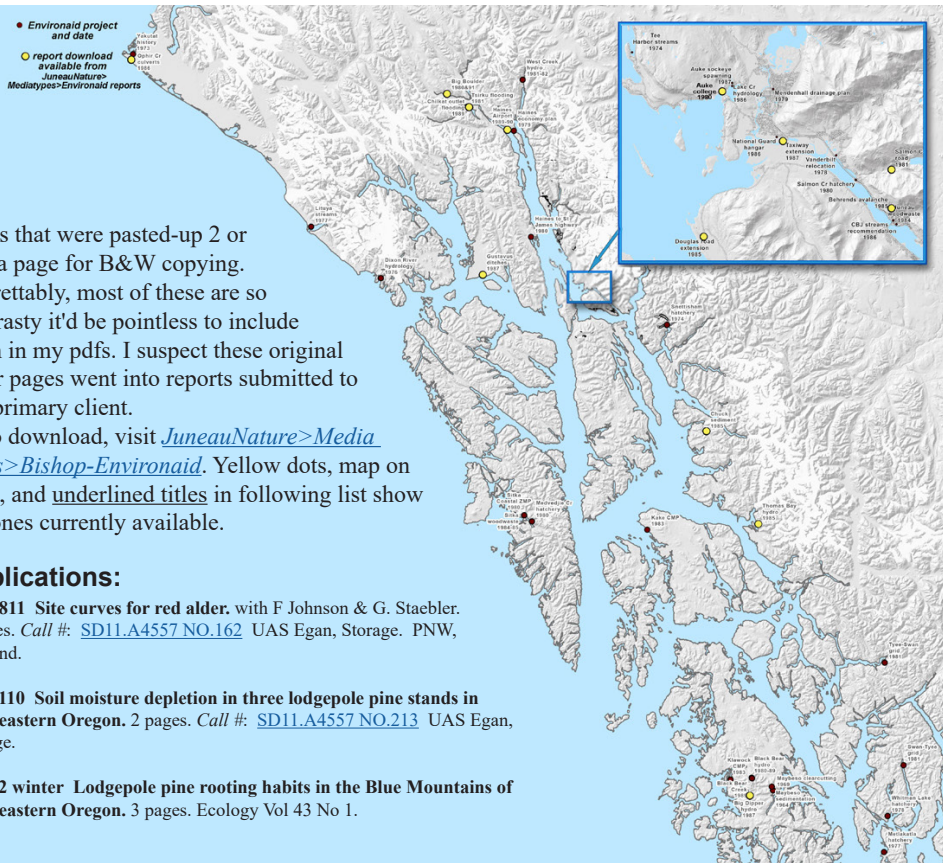
Conspicuously missing are master-pages of color

prints that were pasted-up 2 or 3 to a page for B&W copying. Regrettably, most of these are so contrasty it'd be pointless to include them in my pdfs. I suspect these original color pages went into reports submitted to our primary client.

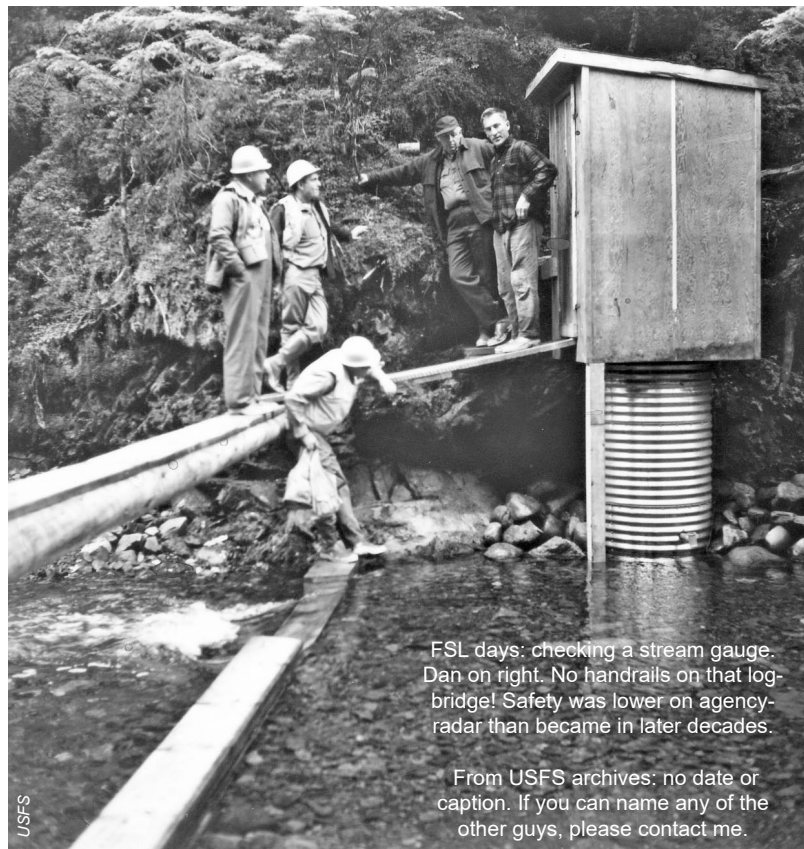
To download, visit [JuneauNature>Media types>Bishop-Environaid](#). Yellow dots, map on right, and underlined titles in following list show the ones currently available.

Publications:

- 195811 **Site curves for red alder**. with F Johnson & G. Staebler. 7 pages. Call #: [SD11.A4557 NO.162](#) UAS Egan, Storage. PNW, Portland.
- 196110 **Soil moisture depletion in three lodgepole pine stands in northeastern Oregon**. 2 pages. Call #: [SD11.A4557 NO.213](#) UAS Egan, Storage.
- 1962 winter **Lodgepole pine rooting habits in the Blue Mountains of northeastern Oregon**. 3 pages. Ecology Vol 43 No 1.



- **1964 Landslides on logged areas in southeast Alaska.** with M. Stevens. 18 pages, maps. *Call #:* [SD144.A4U54 NO.1](#) UAS Egan, Storage. Pre-Enviroaid.
- **1965 Sedimentation in a salmon stream.** with P. Shapley. 10 pages, Journal of Fisheries Research Board of Canada. Vol 2 No 4.
- **19691124 Some effects of clearcutting on salmon habitat of 2 Southeast Alaska streams.** Meehan, W. W. Farr, D. Bishop & J. Patric. 45 pages, USFS Research Paper PNW-82
- **1973 The changing waters of Yakutat.** 9 pages, unpublished draft?
- **1974 The forest ecosystem of SE Alaska: 8. Water.** Schmiede D. A Helmers, D. Bishop. 32 pages, USFS GTR PNW-28
- **1974 Reconnaissance of Snettisham power station for hatchery potential.** ?? pages. For ADFG Fred Division
- **1974 Investigation of selected streams of Becharof and Ugashik Lakes.** ?? pages. Aleutians. For ADFG Com. Fish.
- **19740320 Hydrologic investigation of Tee Harbor streams.** 16 pages. First Enviroaid publication.
- **197410 A hydrologic reconnaissance of the Susitna River below Devil's Canyon.** 55 pages, maps. *Call #:* [GB1227.S87B56 1975](#) UAS Egan, Circulating Collection. for National Marine Fisheries Service. Contract no. 03-4-208-302.
- **1976 Hydrologic reconnaissance for hatchery siting.** ?? pages. For SSRAA
- **1976 Hydrologic investigations in the Dixon River area of Glacier Bay National Monument.** 38 pages. *Call #:* GB565.A4 B57 1976 ALASKA UAF Rasmuson, Alaska Collection. For NPS. In Streveler collection for Dixon study.
- **1977 Tongass Hatchery: feasibility to hatchery plan.** ?? pages. For Community of Metlakatla.
- **19771201 Hydrology of coastal streams near Lituya Bay.** 30 pages, maps. *Call #:*



FSL days: checking a stream gauge. Dan on right. No handrails on that log-bridge! Safety was lower on agency-radar than became in later decades.

From USFS archives: no date or caption. If you can name any of the other guys, please contact me.



Bishop family collection

[GB705.A4 B57 1977 ALASKA](#) UAF Rasmuson, Alaska Collection. For NPS. Original color photographs are on file at Glacier Bay National Monument.

● 19771128 **Salmon enhancement in Southeast Alaska : locations of possible improvement activities.** *Call #:* [SH157.8.B57 1977](#) State Library Historical, In Library Use Only. Not in RC collection.

● 1978 **Timber harvesting/water quality—forest practices.** ?? pages. For ADEC, with URS Co., WA.

● 1978 **Aquaculture investigation of selected streams and waters of Umnak Island** ?? pages. For Aleutian-Pribilof Islands Association.

● 1978 **Relocation of Vanderbilt Creek in Lemon Creek Valley.** ?? pages. For Grant Co.

● 19780228 **Synthesis of depth-temperature curves for Whiteman Lake.** with CH2M Hill. 20 pages, maps. *Call #:* [GB1225.A4B57 1978](#) UAS Egan, Circulating Collection.

● 1979 **A contribution to: Juneau Land Selection Program.** ?? pages. For CBJ and Pavitt & Holdsworth

● 1979 **Environmental evaluation: drainage plan for Mendenhall Valley.** ?? pages. For EMPS and CBJ.

● 1979 **Environmental impacts and considerations for Haines economic development study.** ?? pages. For Homan-McDowell

● 1980 **Hatchery site investigations: Salmon Creek, Juneau, & Medvedjie Creek, Sitka.** ?? pages. For NSRAA, Sitka.

● 1980 **Contributor to: Sitka Coastal Zone Management Plan.** ?? pages. For CBJ and R&M.

● 1980 **Contributor to: Environmental considerations concerning proposed Haines—St. James Bay Highway.** ?? pages. For Sitka Borough and RW Pavitt.



USFS

FSL days. From USFS archives: no date or caption.

● 1980 **Preliminary environmental studies for Black Bear Lake hydroelectric site.** ?? pages. For Harza Engineering

● 1980—nd **Auke Lake Community College land-water investigation.** 30 pages, No date or cover-letter. Unclear who the report was for. Multidisciplinary description, deeply informed by Dan's many years of residence on the lakeshore.

● 19800220 **Chilkat Valley streams which produce late fall and winter salmon runs: an exploratory study.** 35 pages, maps. *Call #:* [GB705.A4B575 1980](#) UAS Egan, Circulating Collection. For National Audubon Society. Field assistance from Boeker, Hansen & Meredith. Copies in 3 other libraries

● 19810630 **Hydrologic studies on the Tsirku-Chilkat River**

confluence, a major salmon spawning habitat. 62 pages, maps. *Call #:* [GB1197.7.B57 1981](#) ARLIS, General Collection. Assistance from Helle, Mayo and Pittman. For ADNR.

● **1981 Outmigrant fry trapping study: Black Bear Lake hydroelectric Pproject.** ?? pages. For Harza Engineering

● **19810901 Concentrated flood risks of the Tsirku River near Chilkat Lake, and recommended protective measures,** 21 pages, maps. *Call #:* [TC424.A4B57 1981](#) UAS Egan, Circulating Collection. For ADFG. Updated RC map, pageflippers.

● **19811002 Environmental investigation of the West Creek hydropower site.** 62 pages, maps. *Call #:* [F914.S7B48 1981](#) UAS Egan, Circulating Collection. for R.W. Beck and Associates.

● **19811016 The scope of environmental elements recommended for consideration in regard to proposed Snettisham-Tyee-Swan Lake D.C. power grid.** 100 pages, maps. *Call #:* [TD195.E37B57 1981](#) UAS Egan, Circulating Collection. For Alaska Power Association.

● **19811201 Environmental and cultural assessment for the proposed Salmon Creek road-pipeline development,** with J. Mills, S. Jacoby & T. Moore. 96 pages, For Toner & Nordling Engineers Inc.

● **19811215 Environmental investigation of the West Creek Hydroelectric Project.** 78 pages, maps. *Call #:* [F914.S7B57 1981](#) State Library Historical, In Library Use Only. for R.W. Beck & Associates.

● **19820715 A report on water temperatures of West Creek and Taiya River and possible effects of West Creek Hydroelectric Project on existing eulachon runs in Taiya River.** 26 pages, maps. *Call #:* [QL638.O84B55 1982](#). ARLIS, General Collection.

● **19820800 Biological-ecological investigations on the Black Bear Creek system.** xx pages, maps, bibliography. *Call #:* [QH105.A4B54 1982](#) UAS Egan, Circulating Collection. [online version](#) For Harza Engineering

● **19821115 Late-summer and fall observations in upper Black Bear Creek and Black Bear Lake.** with L. Smith and S. Milner. 26 pages, maps. *Call #* [QH105.A4B542 1982](#) UAS Egan, Circulating Collection. For Harza Engineering

● **19821115 Black Bear Lake aquatic study : phase I.** 20 pages, . *Call #:* [QH105.A4B539 1980](#) UAS Egan, Circulating Collection. For Harza Engineering

● **19830225 An examination of factors influencing water temperatures in streams tributary to shores of the Gulf of Alaska.** Draft 46 pages. [GB1398.8.A4B57 1983](#) UAS Egan, Circulating Collection.

● **19831013 Further investigations of the Black Bear Creek system near Klawock, Alaska.** 90 pages, maps. *Call #:* [QH105.A4B543 1983](#) UAS Egan, Circulating Collection. for Harza Engineering Co. and Alaska Power Authority.

● **1983 Stream identification study.** ?? pages. For ADEC.

● **1983 Contributor to: Klawock Coastal Management Planning.** ?? pages. For Murray Walsh, Planner.

● **1983 Contributor to: Kake Coastal Management Planning.** ?? pages. For RW Pavitt & Associates and Quadra Engineering.

● **19840711 Proposal for Investigation to assist use and disposal of wood wastes from land developments, small logging operations and wood-product wastes near Juneau and Sitka, Alaska.** with S. Jacoby, F. Homan and R. Amerman. 15 pages, For AK Office of Energy. Not scanned,



FSL days. From USFS archives: no date or caption.

except for Bishop *curriculum vitae*.

• **19841130 Environmental monitoring, upper Black Bear Creek.** 52 pages, maps. *Call #:* [QH105.A4B5432 1984](#) UAS Egan, Circulating Collection. for Harza Engineering Co.

• **198503 Air survey of Behrends Path avalanche.** 7 pages, Photos only in the Bishop archives; no associated notes. Report assembled 2023 by RC.

• **19850311 Sampling and analysis of Chuck River streambed gravel.** with R. Carstensen & L. Smith. 28 pages, For USFS.

• **19850507 Recovery and use of wood wastes generated in the city-boroughs of Juneau and Sitka** 94 pages, maps. *Call #:* [TD796.2.R44 1985](#) UAS Egan, Circulating Collection. Copies in several other libraries.

• **19850516 Thomas Bay Hydroelectric Project: Summary environmental studies.** 75 pages, For Hosey & Associates Engineering Co. Bellevue WA. With Lentfer, Barr and Boyce.

• **19851214 A report on hydrological examination of the route for the proposed highway from Outer Point to Point Hilda, Douglas Island.** 60 pages, maps. *Call #:* [GB705.A4B578 1985](#) UAS Egan, Circulating Collection. for ADOT.

• **19860104 A proposal for hydrologic study of Lake Creek, tributary to Auke Lake.** 12 pages, Prepared for Ben Pollard, ADFG

• **19860220 Recommendations for fish habitat protection, rehabilitation or enhancement of Juneau area streams.** 37 pages, Part II of an un-named broader document. For CBJ's Ad Hoc Fisheries Development Committee.

• **19860801 Examination of culverts for Ophir Creek, near Yakutat.** 50 pages, maps. *Call #:* [SH157.85.F56B57 1986](#) State

Library Historical, In-Library Use Only.

• **19861102 Hydrologic examination of Air National Guard hanger site.** with R.Carstensen. 11 p, Jordan Creek, airport area.

• **19870526 Hydrologic examination of North Fork Lake, St. Nicholas Creek, Big Dipper Lake : proposed Craig water supply.** with R. Carstensen & L. Smith. 37 pages, maps. *Call #:* [GB705.A4B57 1987](#) UAS Egan, Circulating Collection.

• **19870731 Environmental analysis of lower Jordan Creek and nearby wetlands in regard to planned airport taxiway extension.** with R. Armstrong & R. Carstensen. 41 pages, Scanned in 2021 from original color maps and photo prints.

• **19871212 Review of information concerning sockeye spawning habitats in Auke Lake.** 18 pages. For Mike Bethers, ADFG Sport Fish. No copy in my Environaid materials. Got this pdf from John Hudson at SAWC. Stamp on cover says "NOAA Auke Bay Lab Library."

• **19890109 Flooding of Tsirku River into Chilkat Lake with special focus on possible impacts to the salmon resources of the area,** with R. Carstensen. 53 pages, maps. *Call #:* [GB1227.T84B57 1989](#) UAS Egan, Circulating Collection. Re-assembled in 2022 with additional photo-series 'pageflippers' and stereopairs.

• **19890121 A report on environmental studies concerning the proposed Haines Airport reconstruction: Phase 1,** with R. Carstensen & G. Bishop. 54 pages, maps. *Call #:* [TD195.A36B57 1989](#) UAS Egan, Circulating Collection. For ADOT. Reassembled and digitized in 2022 with high-res map scans.

• **19890621 Hydrogeological examination of Black Bear Creek between base of falls and head of Spring Fork.** with D. Swanston & L. Smith. 21 pages, maps. *Call #:* [GB1025.A4B57 1989](#) UAS Egan, Circulating Collection.

• **19891012 A report on environmental studies at Haines Airport: Phase 2.** with G. Bishop and R. Carstensen. 74 pages. For ADOT. Reassembled and digitized in 2022 with high-res map scans.

• **19900208 Big Boulder Creek historical series.** R. Carstensen for Environaid. 15 pages. Same-aligned traced-map series. Stereopairs added in 2022. Scoping for 1991 Bishop-Pollard study below.

• **19900926 A plan for monitoring of environmental protection and mitigation. Haines Airport reconstruction.** With G. Bishop & R. Carstensen. 36 pages, maps. *Call #:* [TD195.A36B5722 1990](#) UAS Egan, Circulating Collection. I'd like to add scanned copies of my 35mm-kodachrome 'before' shots, and any 'after' shots taken by ADFG researchers. Please contact me if you have info.

• **19910204 Chinook salmon enhancement methods for Big Boulder Creek,** with B. Pollard. 41 pages, maps. *Call #:* [SH157.8.B57 1991](#) UAS Egan, Circulating Collection. for ADFG FRED division.