

AFVR-DE-PSE (200-1a)

10 APR 1989

MEMORANDUM FOR Commander, U.S. Army Engineer District, Alaska,
ATTN: CENPA-EN-PM-A (Edward Brooks), P.O. Box
898, Anchorage, AK 99506-0898

SUBJECT: Closure Requirements of the Haines Landfill

1. Reference telephone conversation between Mr. Staucke, this office, and Mr. Brooks, USAEDA, CENPA-EN-PM-A, 4 April 1989, subject: Haines Landfill.
2. As you requested in the referenced telephone conversation, enclosed is additional and revised information concerning the closure requirements of the Haines landfill. Enclosure 1 is a copy of the Scope of Work with minor changes in the wording added to help clarify the work requirements. Enclosure 2 is a synopsis of the known history of the landfill taken from interviews with Haines Terminal personnel.
3. This unpermitted landfill was used mainly for sanitary household trash, but like all landfills, the chance for contamination with hazardous wastes is high. Some hazardous waste contaminants for this landfill are documented from verbal accounts as shown in enclosure 2. The Scope of Work for this landfill deals only with the closure requirements, but more work is being planned in later years to perform site investigation work at the landfill to determine leachate hazardous waste contaminants and concentrations, direction and speed of flow, extent of contamination (size and shape of landfill plume), etc. This site is being added to the Defense Environmental Restoration Account (DERA) work plan list for fiscal year 1990 and beyond. Therefore, should you feel it to be cost effective to incorporate any of these site investigation tasks (soil borings of the landfill, for example) into the current year's tasks, you may do so provided that you coordinate and obtain concurrences on these changes in the Scope of Work with our Environmental Resources Office.
4. Additional information can be obtained by calling Paul T. Staucke Jr., 863-3295, Ext 115.

FOR THE COMMANDER:

SIGNED

2 Encs

EDWIN R. RUFF
COL, EN
Director of Engineering and Housing

Scope of Work

Haines Sanitary Landfill Closure Requirements

1. The location of the Haines sanitary landfill is shown on the enclosed map. This landfill is approximately 400 square feet in area and has been covered with one to two feet of soil cover.

2. The contractor is requested to conduct closure operations on the Haines sanitary landfill in accordance with Alaska Department of Environmental Conservation (ADEC) Regulations (18 AAC 60.410). This was requested by Henry Friedman of the ADEC in Valdez in a telephone conversation with DEH Environmental personnel on 1 November 1988. In addition to the requirements listed in the regulation, specific attention should be given to the tasks listed below:

a. Insure that the landfill is properly capped to prevent water infiltration and then covered with a minimum of two feet of compacted soil.

b. Grade the landfill site to prevent surface water from flowing through the site.

c. Revegetate the landfill site with materials common to the area to prevent erosion. The revegetation plan (i.e. plant types and quantities) must be submitted for review and approval prior to the start of the revegetation work.

d. Develop a groundwater monitoring plan for the landfill site. This will include the following actions:

(1) The contractor will be required to analyze the landfill site and based upon existing data determine both the quantity of monitoring wells needed to properly monitor the site, and the best locations for these monitoring wells. The contractor will prepare this monitoring plan for a goal of detecting any possible groundwater contamination originating from the landfill site and detecting the direction of migration of these possible contaminants. This plan will be submitted for review and approval prior to implementation (see steps listed below) along with a brief justification of the plans requirements.

(2) The contractor will properly install the monitoring wells specified in task 2.d.(1). This will include surveying the well's positions (vertical height as well as location).

(3) The contractor will submit parameters (suggested contaminants) for which the monitoring well samples should be analyzed. This list will be submitted for review and approval prior to the contractor proceeding with the actions listed in 2.d.(4) below.

(4) The contractor shall perform initial sampling (one time only) of the wells installed in task 2.d.(2) and shall perform analysis on these samples for the contaminants determined in task 2.d.(3).

(5) The contractor shall provide a detailed analysis of the newly installed groundwater monitoring network to confirm its effectiveness in detecting possible contaminants originating from the landfill and the direction of their migration.

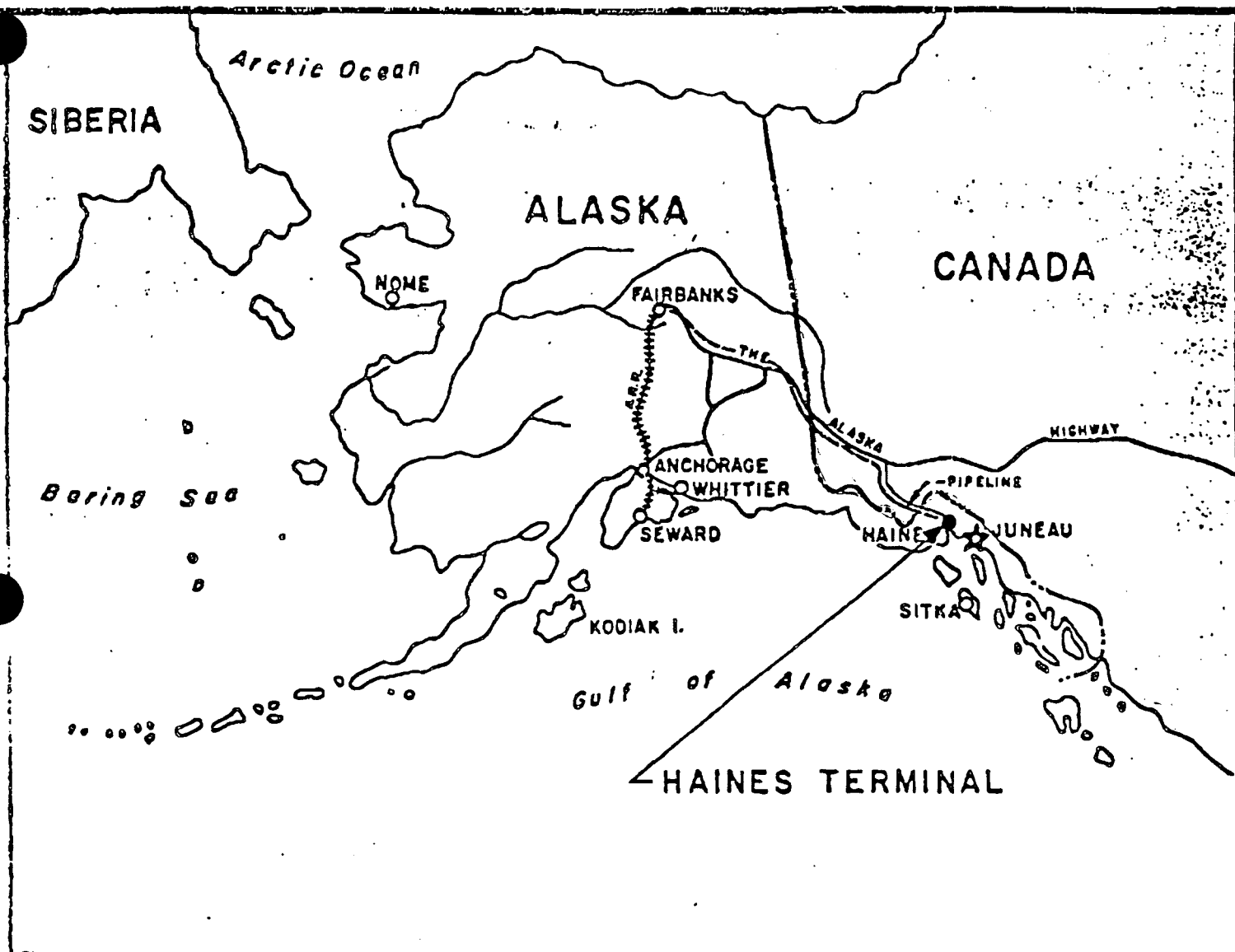
3. The contractor will submit 10 copies of a report detailing the work performed and reporting the groundwater sampling and analysis results. The report should include a discussion of the conclusions obtained from the effectiveness analysis performed under task 2.d.(5).

Summary of Verbal Interviews with Haines Terminal Personnel
on
Contents of the Haines Terminal Landfill

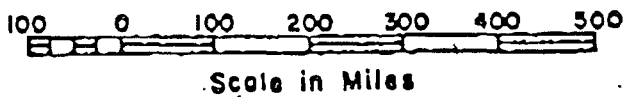
1. This landfill is unpermitted and has been for many years. In 1983 an attempt was made to acquire a permit. Jack Walty had discussions with the State DEC at that time. This was apparently dropped and the file pertaining to the permit process trashed.
2. The following is what is known about what went into the landfill:
 - a. Batteries. In some cases full batteries were disposed of in the landfill.
 - b. There was a POL lab in Haines. When it was discontinued, lab chemicals were disposed of by taking them to the landfill. The POL people recall quart sizes.
 - c. For a two year period, house garbage went into the landfill - off and on.
 - d. Lead coated electrical wire was landfilled.
 - e. Construction debris was landfilled.
 - f. Haines also had an oil fired incinerator. It was used until 198 Paint was burned in it for some 20 years. The ash from the incinerator was taken to the landfill.

Haines Terminal Landfill

U. S. ARMY



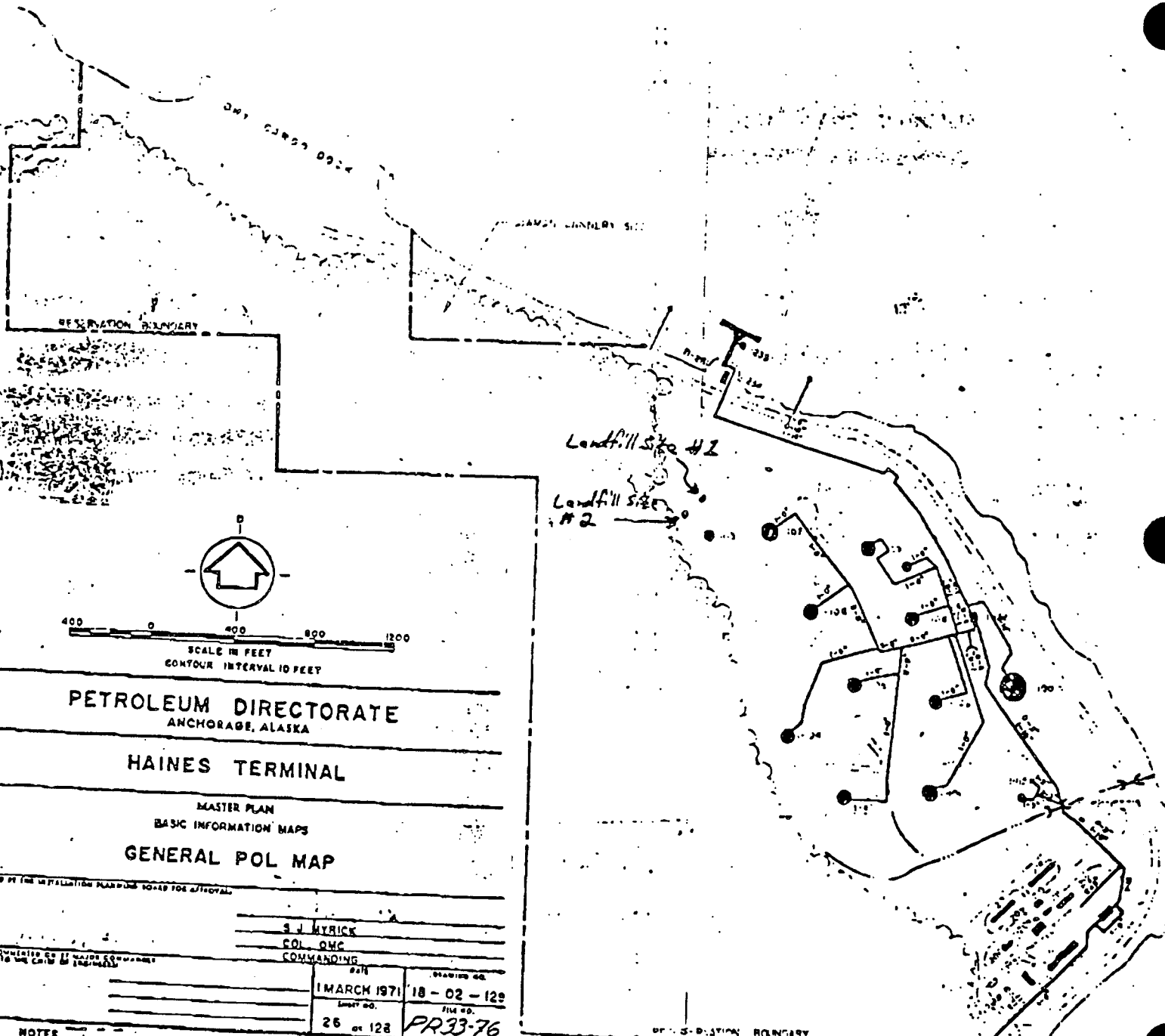
LOCATION MAP



LEGEND

EXISTING





PETROLEUM DIRECTORATE
ANCHORAGE, ALASKA

HAINES TERMINAL

MASTER PLAN
BASIC INFORMATION MAPS
GENERAL POL MAP

S J MYRICK
COL, OMC
COMMANDING

DATE	DRAWING NO.
1 MARCH 1971	18-02-129
LIMIT NO.	FILE NO.
26 of 128	PR33-76

NOTES

1. THE PROJECTION IS UNIVERSAL TRANSVERSE MERCATOR, ZONE 8, WITH COORDINATES IN FEET, BASED ON USC 8 68 THIRD-ORDER TRIANGULATION.
2. ELEVATIONS ARE MEAN LOWER LOW WATER BASED ON "VIL" (USC 8 68, 1911) AS 26.75 FT., DERIVED IN 1954 FROM USC 8 65 TIDAL BENCH MARKS AS ADJUSTED, IN 1963.
3. TOPOGRAPHY IS BASED ON AERIAL PHOTOGRAPHY TAKEN JUNE 1968.

Approximate size of Landfill 1's 15,000 ft²
Approximate size of Landfill 2's 10,000 ft²

REV.	DATE	CO.	ACTION	DESCRIPTION	BY	APPD.

CONTRACT NO. DACA 85-85-C-0072

CONTRACTOR HARBOR CONTRACTORS, INC.

CITY SEATTLE STATE WASH.

RECOMMENDED: <u>Donald H. ...</u> PRIME CONTRACTOR	APPROVED: <u>[Signature]</u> RESIDENT ENGINEER	DATE: <u>8-2-75</u>
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ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

DESIGNED: WFC
 DRAWN: RKT
 TRACED:
 CHECKED:
 SUBMITTED:
 CH. SECT.

HAINES, ALASKA
HAINES POL TERMINAL
REPAIR DIKES AND DRAINS

LOCATION MAP, VICINITY MAP AND SITE MAP

RECOMMENDED: <u>[Signature]</u> CHIEF, DESIGN BRANCH	APPROVED: <u>[Signature]</u> CHIEF, PROJECT MANAGEMENT	DATE: <u>[Signature]</u> CHIEF, ENGINEERING DIVISION
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SCALE: AS NOTED	SPEC. NO.
DRAWING NUMBER FIG-06-3662	
AS-FL- SHEET 2	OF 2 FH 72-18-44

COLONEL, CORPS OF ENGINEERS
DISTRICT ENGINEER

AUTOMATIC COVER SHEET

DATE: SEP-12-94 MON 16:23

TO:

FAX #: 9916046666858

FROM:

FAX #:

14 PAGES WERE SENT

(INCLUDING THIS COVER PAGE)