

Division of Air and Water Quality
Watershed Management
610 University Avenue
Fairbanks, AK 99709-3643

Director's Office: (907) 465-5260
Fairbanks Office: (907) 451-2360
Fax: (907) 451-2187
File: 9711-DB010

June 12, 1997

Mr. William C. Zeman, Base Manager
ERA Aviation, Inc.
6160 Carl Brady Drive
Anchorage, Alaska 99502

Dear Mr. Zeman:

Re: ERA Aviation, Inc., Juneau Heliport Base, Wastewater Treatment and Disposal Facility, Near Juneau, Alaska, Domestic Wastewater Disposal Permit 9711- DB010

The Department of Environmental Conservation has completed its review of your wastewater disposal permit application and is issuing Wastewater Disposal Permit 9711-DB010. The permit will allow the discharge of a maximum of 5,000 gallons per day of secondary treated domestic wastewater to Gastineau Channel, via a 2 inch diameter pressurized outfall line with an 11 foot long diffuser, placed at -4 feet M.L.L.W. elevation. The activity will take place at Latitude 58⁰ 19' 53" N, Longitude 134⁰ 29' 33" W, (NE 1/4, NE 1/4, Section 8, Township 41 S, Range 67 E, CR Meridian). Please review the conditions and stipulations in this permit and ensure they are all understood. This permit is effective upon issuance and expires June 10, 2002. This State of Alaska Wastewater Discharge Permit is being issued in accordance with AS 46 and 18 AAC 15.

As of February 19, 1993, the Department has begun collection of user fees for permit processing. One invoice for permit number 9711-DB010 is enclosed. Please submit the yellow copies, along with your payment, to:

Alaska Department of Environmental Conservation
Division of Air and Water Quality
Watershed Development Section
410 University Avenue
Juneau, AK 99801-1795

Department regulations provide that if you disagree with this decision you may request an adjudicatory hearing in accordance with 18 AAC 15.200-910. The request should be mailed to the Commissioner, Alaska Department of Environmental Conservation, 410 Willoughby Avenue, Suite 105, Juneau, Alaska 99801-1795, by certified mail, return receipt requested. A copy of the request shall also be sent to the undersigned. Failure to submit a request within thirty days of service of this letter shall constitute a waiver of your right to administrative review of the decision. In addition, any other person who disagrees with this decision may request an adjudicatory hearing within thirty days of service of the enclosed permit. Any hearing granted will be limited to issues related to the issuance of this permit. If an adjudicatory hearing is thereafter granted, all permit conditions remain in full force and effect.

Sincerely,

SIGNATURE ON FILE

Timothy J. Wingerter
Wastewater Treatment and Disposal Team Leader
Watershed Development

tjw/rg {G:\AWQ\WPC\Individual State Permits\Permits Before 2000\1997\9711DB010_pmt.doc}

cc: Deena Henkins, ADEC/Juneau
Mary Siroky, ADEC/Juneau
Al Kegler, ADEC/Juneau
Joan Hughes, ADEC/Juneau
Dave Sturdevant, ADEC/Juneau
Pete McGee, ADEC/Fairbanks
AK F&G/Juneau
John Cooper, Cooper Engineering/Juneau

**STATE OF ALASKA
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
610 UNIVERSITY AVENUE
FAIRBANKS, ALASKA 99701**

WASTEWATER DISPOSAL PERMIT

Permit 9711-DB010

Date: June 12, 1997

This Wastewater Disposal Permit is issued to ERA Aviation Inc. for the disposal of up to 5,000 gallons per day of secondary treated domestic wastewater from the ERA Aviation Inc., Juneau Heliport Base, near Juneau, Alaska. The activity will take place at Latitude 58⁰ 19' 53" N, Longitude 134⁰ 29' 33" W, (NE 1/4, NE 1/4, Section 8, Township 41 S, Range 67 E, CR Meridian). The disposal will take place in Gastineau Channel, at an elevation of approximately -4 feet M.L.L.W., via a 2 inch diameter pressurized outfall line, with an 11 foot long diffuser. This permit is subject to the conditions and stipulations contained in Appendices A and B, which are incorporated herein by reference.

This permit is issued under the provisions of Alaska Statute 46.03, the Alaska Administrative Code, as amended or revised, and other applicable state laws and regulations.

This permit is effective upon issuance and expires June 10, 2002. It may be terminated or modified in accordance with AS 46.03.120.

SIGNATURE ON FILE

Timothy J. Wingerter
Wastewater Treatment and Disposal Team Leader
Watershed Management Section

APPENDIX A - SPECIFIC PERMIT CONDITIONS

I. EFFLUENT AND MIXING ZONE LIMITATIONS

- a. During the period beginning on the effective date of this permit and lasting through the expiration or termination date, the permittee is authorized to discharge secondary treated wastewater from a rotating biological contactor domestic wastewater treatment plant operating at the ERA Aviation Inc., Juneau Heliport Base, near Juneau, Alaska, as specified in this section.
- b. The treated domestic wastewater is discharged from the secondary wastewater treatment plant through a 2 inch pressurized outfall, (effluent), line to the marine waters of Gastineau Channel. The permit limits must be met at the end of the effluent line, prior to discharge into Gastineau Channel, with the exception of the mixing zone limitations for fecal coliform bacteria and dissolved oxygen, which must meet the specified limitations at any shoreline areas within the mixing zone and at the outer edge of the mixing zone, (mixing zone size is defined in section c.). Shoreline area shall be defined as the land/water interface area that is accessible to and used by the public.
- c. This discharge is assigned a mixing zone for the purpose of achieving sufficient dilution to meet the Alaska Water Quality Standards for fecal coliform bacteria. The mixing zone for this discharge is defined as a circle of 100 meter radius, centered on the outfall line and over the diffuser, extending from the diffuser to the surface. It shall be the responsibility of the Permittee to inform this department, in writing, if water from inside of the mixing zone is used, or is intended to be used as a water supply for aquaculture or seafood processing, or if any area inside the mixing zone is used for contact water recreation or the harvesting for consumption of raw mollusks or other raw aquatic life. These marine water uses are defined in the Alaska Water Quality Standards (18 AAC 70).
- d. The wastewater discharged to the lands or waters of the state shall not exceed the following limitations:

<u>Effluent Characteristic</u>	<u>Thirty-Day Average</u>	<u>Seven-Day Average</u>	<u>Maximum Value</u>
Total Flow	3,000 gpd*	N/A	5,000 gpd
5-day Biochemical Oxygen Demand	30 mg/l**	45 mg/l	60 mg/l
Total Suspended Solids	30 mg/l	45 mg/l	60 mg/l
Fecal Coliform Bacteria ⁺	400 ⁺⁺ per 100 ml***	800 per 100 ml	1,200 ⁺⁺⁺ per 100 ml

I. EFFLUENT AND MIXING ZONE LIMITATIONS, (cont.)

<u>Mixing Zone Characteristic</u>	<u>Thirty-Day Average</u>	<u>Seven-Day Average</u>	<u>Maximum Value</u>
Fecal Coliform Bacteria ⁺ (Shoreline in MZ)	200/100 ml ⁺⁺	N/A	400/100 ml ⁺⁺⁺
Fecal Coliform Bacteria ⁺ (Outside MZ)	14/100 ml ⁺⁺	N/A	43/100 ml ⁺⁺⁺

* gallons per day (gpd); ** milligrams per liter (mg/l); *** milliliter (ml)

+ all fecal coliform results must be reported as the geometric mean.

++ 30 day average based on a minimum of 5 samples. For less than 5 samples, the 30 day average is the highest daily maximum result.

+++ not more than 10% of the samples taken may exceed this value.

- e. The pH of the effluent shall be between 6.5 and 8.5 pH units or within 0.5 units of the pH of the receiving water at all times.
- f. The dissolved oxygen in the effluent shall not be less than 2.0 mg/L at any time.
- g. The dissolved oxygen outside the leading edge of the mixing zone shall not be less than 5 mg/L unless the natural background is less than 5 mg/L.
- h. Chemical disinfection of the wastewater effluent shall not occur without prior approval of the department.
- i. The discharge shall be free of any additives such as antifreeze solutions, methanol, solvents, corrosion inhibitors, garbage, toxic substances, grease or oils which produce a sheen, foam in other than trace amounts, or other contaminants.
- j. The discharge shall not cause or contribute to a violation of the Alaska Water Quality Standards (18 AAC 70).
- k. No other treated or untreated wastewater, sludge, or other materials shall be discharged to the lands or waters of the state unless otherwise approved by the department.

II. MONITORING AND REPORTING

a. MONITORING OF WASTEWATER TREATMENT PLANT EFFLUENT

The permittee shall monitor the wastewater discharge in the following manner while the treated wastewater is being discharged:

<u>Effluent Characteristic</u>	<u>Minimum Frequency</u>	<u>Sample Type</u>
Total Flow	Weekly ²	Estimate or measured
pH, (summer)	Twice Yearly ²	Grab
5-day Biochemical Oxygen Demand	Twice Yearly ²	Grab or composite ¹
Total Suspended Solids	Twice Yearly ²	Grab or composite ¹
Dissolved Oxygen	Upon request by department	Grab
Fecal Coliform Bacteria	Quarterly ²	Grab
Total Chlorine Residual	N/A	N/A

<u>Mixing Zone Characteristic</u>	<u>Minimum Frequency</u>	<u>Sample Type</u>
Dissolved Oxygen (outside leading edge of mixing zone)	Upon request by the department	Grab
Fecal Coliform Bacteria, (outside leading edge of mixing zone)	Twice per year ²	Grab
Fecal Coliform Bacteria, (shoreline area in the mixing zone)	Twice per year ²	Grab

¹ Composite samples must consist of at least four equal volume grab samples, two of which must be taken during periods of peak flow (7-9 a.m. and 6-8 p.m.).

² Week shall be the time period of Sunday through Saturday. Month shall be the time period of the calendar month. Bi-monthly or every other month shall be the time period consisting of two calendar months. Quarter shall be the time period of three months based on the calendar year beginning with January. Twice per year or bi-annual shall consist of two time periods during the calendar year, (Nov. through April and May through Oct.). Annual or yearly shall be once per calendar year.

II. MONITORING AND REPORTING (cont.)

b. TEST PROCEDURES

Test procedures for the analysis of pollutants shall conform to methods sited in 18 AAC 70.020(c), or as such regulations may be amended. The permittee may substitute alternative methods of monitoring or analysis upon receipt of prior written approval from the department.

c. REPRESENTATIVE SAMPLING

Samples and measurements taken as required shall be representative of the volume and nature of the monitored discharge.

d. ADDITIONAL MONITORING

If the permittee monitors any influent or effluent characteristic identified in this permit more frequently than required, the results of such monitoring shall be reported to the department in the monitoring report required under Appendix A, paragraph III of this report.

III. REPORTING

Monitoring results obtained during a reporting period shall be summarized and reported to the department and postmarked no later than the 14th day of the month following the completed reporting period. Reporting shall begin at the commencement of discharge. Signed copies of these, and all other reports required herein, shall be submitted to the department at the following address:

Alaska State Dept. of Environmental Conservation
Division of Air and Water Quality
410 Willoughby Avenue, Suite 105
Juneau, Alaska 99811-1800
Telephone: (907) 451-2600

Knowingly making a false statement, by the permittee, the operator, or other employees, including contractors, on any such report may result in the imposition of criminal penalties as provided for under AS 46.03.790.

IV. MANAGEMENT PRACTICES

a. PROPER OPERATION AND MAINTENANCE

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit.

b. REMOVED SUBSTANCES

Collected grit, scum, sludges, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a state approved, permitted manner. If this facility wishes to dispose of these substances onsite, the disposal must be addressed in a separate permit.

c. WARNING SIGNS

Signs shall be posted at the beach area near the discharge area and also as close to the discharge point as practical. The signs shall provide the identity of the discharger; shall inform the public that treated wastewater is being discharged and that caution should be exercised by users of area.

V. RECORDS RETENTION

All records and information resulting from the monitoring activities required by this permit, including all records of analyses performed, and calibration and maintenance of instrumentation, and recordings from continuous monitoring instrumentation shall be retained in Alaska for observation by the department for five years. Upon request from the department, the permittee shall submit certified copies of such records.

VI. CHANGE IN DISCHARGE

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant or toxic material, (including oil, grease, or solvents), more frequently than, or at a concentration or limit not authorized, shall constitute noncompliance with the permit. Any anticipated facility expansions, flow increases, or process modifications which will result in new, different, or increased discharges of pollutants must be reported by submission of a new waste disposal permit application, or if such changes will not violate the effluent limitations specified in this permit, by written notice to the department at the address specified in Appendix A, paragraph III, at least thirty days before the implementation of such changes. Physical changes may also be subject to plan review by the department.

VII. TOXIC POLLUTANTS

If a toxic pollutant (including oil, grease, or solvents) concentration standard is established in accordance with 18 AAC 70, for a pollutant present in this discharge, and such standard is more stringent than the limitation in this permit, this permit is considered to be modified in accordance with the toxic pollutant concentration standard.

VIII. ACCIDENTAL DISCHARGES

The permittee shall provide protection from accidental discharges not in compliance with the provisions of this permit. Facilities to prevent such discharges shall be maintained in good working condition at all times by the permittee.

IX. NONCOMPLIANCE NOTIFICATION

- a. If, for any reason, the permittee does not comply with or will be unable to comply with any effluent limitation specified in this permit, the permittee shall report the noncompliance to the department within 24 hours, or as soon as possible of becoming aware of such conditions.
- b. A written follow-up report shall be sent to the department within seven days of the noncompliance event. The written report shall contain, but not be limited to:
 1. Times and dates on which the event occurred, and if not corrected, the anticipated time the noncompliance is expected to continue.
 2. A detailed description of the event, including quantities and types of materials involved.
 3. Details of any actual or potential impact on the receiving environment or public health.
 4. Details of actions taken or to be taken to correct the causes of the event.
 5. Details of actions taken or to be taken to correct any damage resulting from the event.
- c. It is recognized that influent quality changes, equipment malfunctions, or uncontrollable circumstances may sometimes result in effluent concentrations exceeding the permit limitations, despite the exercise of all possible care and maintenance measures and corrective measures by the permittee. The permittee may demonstrate to the department that such circumstances did exist where, despite all evasive measures, the effluent concentrations exceeded those set forth in this permit. The Commissioner shall consider such evidence in determining departmental actions. The department does not waive any of its legal rights during such consideration.

X. TRANSFER OF OWNERSHIP

In the event of any change in control or ownership of facilities from which the authorized discharges emanate, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Department of Environmental Conservation at the address in Appendix A, paragraph III of this permit.

APPENDIX B - GENERAL PERMIT CONDITIONS

I. ACCESS AND INSPECTION

The permittee shall allow the Commissioner or his representative access to the permitted facilities at reasonable times to conduct scheduled or unscheduled inspections or tests to determine compliance with this permit, state laws and regulations.

II. INFORMATION ACCESS

Except for information relating to confidential processes or methods of manufacture, all records and reports submitted in accordance with the terms of this permit shall be available for public inspection at the State of Alaska Department of Environmental Conservation, Willoughby Ave., Suite 105, Juneau, Alaska 99801.

III. CIVIL AND CRIMINAL LIABILITY

Nothing in this permit shall relieve the permittee from civil or criminal penalties for noncompliance, whether or not such noncompliance is due to factors beyond his control, including, but not limited to, accidents, equipment breakdowns, or labor disputes.

IV. AVAILABILITY

The permittee shall post or maintain a copy of this permit available to the public at the disposal facility.

V. ADVERSE IMPACT

The permittee shall take all necessary means to minimize any adverse impacts to the receiving waters or lands resulting from noncompliance with any limitation specified in this permit, including any additional monitoring needed to determine the nature and impact of the noncomplying activity. The permittee shall cleanup and restore all areas adversely impacted by the noncompliance.

VI. CULTURAL OR PALEONTOLOGICAL RESOURCES

Should cultural or paleontological resources be discovered as a result of this activity, work which would disturb such resources is to be stopped, and the State Historic Preservation Office, Division of Parks and Outdoor Recreation, Department of Natural Resources, is to be notified immediately (907-762-2622).

VII. APPLICATIONS FOR RENEWAL

In accordance with 18 AAC 15.100(d), applications for renewal or amendment of this permit must be made no later than 30 days before the expiration date of the permit or the planned effective date of the amendment.

VIII. OTHER LEGAL OBLIGATIONS

The requirements, duties, and obligations set forth in this permit are in addition to any requirements, duties, or obligations contained in any permit that the Alaska Department of Environmental Conservation or the U.S. Environmental Protection Agency has issued or may issue to the permittee. This permit does not relieve the permittee from the duty to obtain any and all necessary permits and to comply with the requirements contained in any such permit or with applicable state and federal laws and regulations. All activities conducted by the permittee pursuant to the terms of this permit and all plans implemented by the permittee pursuant to the terms of this permit shall comply with all applicable federal and state laws and regulations.

IX. POLLUTION PREVENTION

In order to prevent and minimize present and future pollution, when making management decisions that effect waste generation, the permittee shall consider the following order of priority options:

waste source reduction,

recycling of waste,

waste treatment, and

waste disposal.

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