

"An Act directing the Department of Environmental Conservation to conduct a study of the advisability of requiring low water sanitary waste disposal systems in all new construction in the state; and providing for an effective date."

COMMITTEE REPORT

HOUSE

3/29/76

Mr. Speaker:

Date _____

The Committee on FINANCE has had HB 797

under consideration. A Majority of the members of the Committee

() recommends it DO PASS

() recommends it DO NOT PASS

() recommends it DO PASS WITH ATTACHED AMENDMENT(S)

() recommends it BE REPLACED WITH CS FOR _____ AND THAT

CS FOR _____ DO PASS

() "and" recommends it BE REFERRED TO THE _____

COMMITTEE

() reports it back WITHOUT RECOMMENDATION

() "other"

Members signing the Majority report:

Members NOT concurring in the Majority report:

_____ recommends:

_____ recommends:

_____ recommends:

_____ recommends:

_____ recommends:

_____ Chairman

"An Act directing the Department of Environmental Conservation to conduct a study of the advisability of requiring low water sanitary waste disposal systems in all new construction in the state; and providing for an effective date."

COMMITTEE REPORT

HOUSE

2/17/76

FINANCE

Mr. Speaker:

Date 3-24-76

The Committee on COMMUNITY AND REGIONAL AFFAIRS has had HB 797

under consideration. A Majority of the members of the Committee

() recommends it DO PASS

() recommends it DO NOT PASS

() recommends it DO PASS WITH ATTACHED AMENDMENT(S)

(X) recommends it BE REPLACED WITH CS FOR HB 797 AND THAT

CS FOR HB 797 ~~DO PASS~~ BE REPORTED BACK WITH INDIV. REC.

() "and" recommends it BE REFERRED TO THE w/ amendments COMMITTEE

() reports it back WITHOUT RECOMMENDATION

() "other"

Members signing the Majority report:

Sam R. Gitter DO PASS
Iris Rudd
Kathryn Ostroby

Members NOT concurring in the Majority report:

Freeman recommends: NO REC
Sam Hadley recommends: NO REC
Lawrence J. Davis recommends: NO REC
_____ recommends:
_____ recommends:

Sam R. Gitter Chairman

AMENDMENT

OFFERED IN THE HOUSE:

By: House Community and Regional Affairs Committee

To: CS HOUSE BILL No. 797

SENATE BILL No. _____

PAGE: 1

LINE: _____

Lines 17, 18: ~~DELETE~~ "arctic and subarctic"
INSERT "Alaskan"

Line 21: DELETE "arctic and sub arctic"
INSERT "Alaskan"

Line 28: DELETE "arctic and subarctic"
INSERT "Alaskan"

Lines 16 and 20: ~~Change~~ ^{Change paragraph} subsection "(1)" to "(2)"
~~Change~~ ^{Change paragraph} subsection "(2)" to "(1)"

[The effect of this amendment is to change the order of the objectives (1) and (2).]

Original sponsor: H. Beirne, Miller
and Rudd

Offered: 3/29/76
Referred: Finance

1 IN THE HOUSE

BY THE COMMUNITY AND
REGIONAL AFFAIRS COMMITTEE

2 CS FOR HOUSE BILL NO. 797

3 IN THE LEGISLATURE OF THE STATE OF ALASKA

4 NINTH LEGISLATURE - SECOND SESSION

5 A BILL

6 For an Act entitled: "An Act requiring the Department of Environmental
7 Conservation to contract with the Arctic Environmental
8 Information and Data Center to perform a sewage dis-
9 posal study; and providing for an effective date."

10 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF ALASKA:

11 * Section 1. CONTRACTUAL PROGRAM. The Department of Environmental Con-
12 servation is requested to contract with the Arctic Environmental Information
13 and Data Center to gather and disseminate information and to make recommenda-
14 tions on methods of sewage disposal suitable for use in the State of Alaska.

15 The project shall include but not be limited to the following objectives:

16 (1) the convening of a conference for the exchange of information
17 on sewage disposal systems which are or may be effective in arctic and sub-
18 arctic conditions; representatives from all of the arctic nations shall be
19 invited to participate in the conference;

20 (2) the compilation and dissemination of information on sewage
21 disposal systems which have proven effective in arctic and subarctic condi-
22 tions; the following parameters shall be included: water availability, soil
23 permeability, temperature gradients, population density, and any others neces-
24 sary for a complete study. The compilation will include information on the
25 installation and maintenance costs of each system.

26 (3) the development of recommendations for demonstration projects
27 of sewage disposal systems which show promise of being effective in various
28 arctic and subarctic conditions but for which data on effectiveness and costs
29 are not available; the recommendations shall be presented to the presiding

1 officers of the Alaska State Senate and House of Representatives no later
2 than February 1, 1977.

3 * Sec. 2. This Act takes effect immediately in accordance with AS 01.10.-
4 070(c).

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1853
Beirne

Introduced: 2/17/76
Referred: Community &
Regional Affairs and
Finance

1 IN THE HOUSE

BY H. BEIRNE, MILLER AND RUDD

2 HOUSE BILL NO. 797

3 IN THE LEGISLATURE OF THE STATE OF ALASKA

4 NINTH LEGISLATURE - SECOND SESSION

5 A BILL

6 For an Act entitled: "An Act directing the Department of Environmental Con-
7 servation to conduct a study of the advisability of
8 requiring low water sanitary waste disposal systems in
9 all new construct'on in the state; and providing for
10 an effective date."

11 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF ALASKA:

12 * Section 1. SANITARY WASTE DISPOSAL STUDY. The Department of Environ-
13 mental Conservation is directed to conduct a study with the following objec-
14 tives:

15 (1) to determine the advisability of requiring the installation of
16 low water sanitary waste disposal systems in all new construction in the
17 state;

18 (2) to prepare a report including but not limited to
19 (A) the technical, social, and economic feasibility of re-
20 quiring the installation of such facilities in all new construction,
21 (B) suggested guidelines for appropriate legislation,
22 (C) a suggested implementation schedule for the required
23 system installation;

24 (3) to submit the report to the Alaska State House of Representa-
25 tives Health, Education and Social Services Committee no later than the 30th
26 day of the Second Session of the Tenth Legislature.

27 * Sec. 2. This Act takes effect immediately in accordance with AS 01.10.-
28 070(c).

COMMITTEE COPY

THE LEGISLATURE OF THE STATE OF ALASKA
FISCAL NOTE
 Second Session - Ninth Legislature

I. REQUEST

Bill No. HB 797

Title: Low Water Sanitary Facilities

Requested by: H. Beirne

Date: 2/10/76

Return Date Requested: _____

Agency: Environmental Conservation

Program: NRM & EC

II. FISCAL DETAIL

Budget Request Unit(s) Affected: Water Programs

A. EXPENDITURES: (Thousands of dollars)

OBJECT	FY 76	FY 77	FY 78	FY 79	FY 80	FY 81
100 PERSONAL SERVICES		29.0	12.7			
200 TRAVEL		5.0	2.0			
300 CONTRACTUAL		5.0	2.0			
400 COMMODITIES		.2	.1			
500 EQUIPMENT		1.0	-			
600 LAND & STRUCTURES						
700 GRANTS, CLAIMS, ETC.						
TOTAL		40.2	16.8			

B. FUNDING: (Thousands of dollars)

GENERAL FUND		40.2	16.8			
FEDERAL FUNDS						
OTHER						

C. POSITIONS:

PERMANENT/TEMPORARY	/	1 /	1 /	/	/	/
MAN MONTHS (P./T.)	/	12 /	5+ /	/	/	/

III. ANALYSIS (See Fiscal Note Preparation Instructions, Section III)

Essentially the costs for the study would be for a professional Sanitary Engineer plus supplt costs for about one and one-half years.

IV. ATTACHMENTS

See attached analysis

V. DATE: 2/10/76

PREPARED BY: A.L. Eagle, Director, Mngt. Scvs. ADEC

Original: Legislative Finance
 cc: Budget and Management
 Prime Sponsor (First Legislator Named)

In order to undertake the requisite study, and to develop a cost projection the following approach was assumed:

1. Define the services required by some unit of the population and develop a waste disposal unit of service. .25 man months
 2. Determine the state of the art in low water use fixtures, alternative disposal devices and methods. 2 man months
 3. Based upon the unit of service selected, compare water consumption rates for the various alternatives. Determine significance of differences in water consumption rates. 2 man months
 4. Determine unit cost for each of the various alternatives developed. Compare cost of low water alternatives and conventional fixture systems. Cost factors to include: hardware, installation, inspection, operation and maintenance, effect on existing and proposed treatment and disposal systems, impact on existing and proposed water supplies. Determine the effect of the states geographical diversity on costs. Ensure alternatives are appropriate to each region. 6 man months
 5. Determine the energy consumption rates for installing conventional and alternative disposal systems. Determine the energy required for operating conventional and alternative disposal systems. 1 man month
 6. Determine the effect on local government of implementing various alternatives. 3 man months
 7. Once the study is complete determine if low water waste disposal systems are feasible in all new construction. Develop an implementation schedule and draft legislation. 3 man months
- Total 17.25 man months

Based upon the above approach costs for the study appear to be about \$57,000. It must be pointed out that water consumption rates are effected by many factors other than rate of water use by waste disposal fixtures. Therefore, it is suggested that alternate, and perhaps more productive strategies to reduce water consumption be examined.

ALASKA STATE LEGISLATURE

..... Legislature SECOND Session

HOUSE, BILL NO. 797..

By ..H.. REISNE, MILLER, RUDD..

"An Act directing the Department of Environmental Conservation to conduct a study of the advisability of requiring low water sanitary waste disposal systems in all new construction in the state; and providing for an effective date."

Waste disposal systems

Introduced in the House 2/17... 1975

HISTORY IN THE HOUSE

19 76	Read first time and referred to Committee on
Sept 17	Community and Regional Affairs and Finance
	Reported back with recommendation that
	Read second time and
	Read third time and
	PASS Effective Date
	Yeas Yeas
	Nays Nays
	Absent Absent
	Excused Excused
	Reconsideration
	PASS Effective Date
	Yeas Yeas
	Nays Nays
	Absent Absent
	Excused Excused
	Reported correctly engrossed
	Signed by Speaker
	Sent to Senate
CHIEF CLERK OF THE HOUSE	

HISTORY IN THE SENATE

19	Read first time and referred to Committee on
	Reported back with recommendation that
	Read second time and
	Read third time and
	PASS Effective Date
	Yeas Yeas
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	Reported correctly engrossed
	Signed by President
	Returned to House
SECRETARY OF THE SENATE	

HISTORY IN THE HOUSE

19	Received from Senate
	Reported correctly enrolled
	Sent to Governor
 By Governor
	Filed with Lt. Governor
	Chapter No.

Original sponsor: H. Beirne, Miller
and Rudd

Offered: 3/29/76
Referred: Finance

1 IN THE HOUSE

BY THE COMMUNITY AND
REGIONAL AFFAIRS COMMITTEE

2 CS FOR HOUSE BILL NO. 797

3 IN THE LEGISLATURE OF THE STATE OF ALASKA

4 NINTH LEGISLATURE - SECOND SESSION

5 A BILL

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4 070(c).
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Introduced: 2/17,'76
Referred: Community &
Regional Affairs and
Finance

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Original sponsor: H. Beirne, Miller
and Rudd

Offered: 3/29/76
Referred: Finance

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Introduced: 2/17/76
Referred: Community &
Regional Affairs and
Finance

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Introduced: 2/17/76
Referred: Community &
Regional Affairs and
Finance

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Original sponsor: H. Beirne, Miller
and Rudd

Offered: 3/24/76
Referred: Finance

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BY THE COMMUNITY AND
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Introduced: 2/17/76
Referred: Community &
Regional Affairs and
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1 IN THE HOUSE

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THE LEGISLATURE OF THE STATE OF ALASKA
FISCAL NOTE

Second Session - Ninth Legislature

I. REQUEST

Bill No. CS for HB 797
 Title: A Study to Reduce Water Consumption
 Requested by: C&RA Committee Date: 3/25/76
 Return Date Requested: _____
 Agency: Environmental Conservation Program: Water Programs

II. FISCAL DETAIL

Budget Request Unit(s) Affected: Water Programs

A. EXPENDITURES: (Thousands of dollars)

OBJECT	FY 76	FY 77	FY 78	FY 79	FY 80	FY 81
100 PERSONAL SERVICES						
200 TRAVEL		3.0	1.5			
300 CONTRACTUAL		129.0	65.0			
400 COMMODITIES		.5	.2			
500 EQUIPMENT		.5	.3			
600 LAND & STRUCTURES						
700 GRANTS, CLAIMS, ETC.						
TOTAL		133.0	67.0			

B. FUNDING: (Thousands of dollars)

GENERAL FUND						
FEDERAL FUNDS						
OTHER						

C. POSITIONS:

PERMANENT/TEMPORARY	/	/	/	/	/	/
MAN MONTHS (P./T.)	/	/	/	/	/	/

III. ANALYSIS (See Fiscal Note Preparation Instructions, Section III)

CS HB 797 requires the Department to determine the feasibility and desirability of utilizing low water sanitary facilities throughout Alaska. Due to the relatively short study period (1½ years) the work will be accomplished under contract rather than by hiring additional permanent staff. Contract costs were computed as three man years plus support costs. Two man years in FY 77 and one in FY 78.

IV. ATTACHMENTS

V. DATE: 3/26/76 PREPARED BY: A.L. Eagle, Director, Mngt. Svcs.

Original: Legislative Finance
 cc: Budget and Management
 Prime Sponsor (First Legislator Named)

A BILL

For an Act entitled: "An Act requiring the Department of Environmental Conservation to contract with the Arctic Environmental Information and Data Center to prepare waste disposal information; hold a conference; report to the legislature and providing for an effective date."

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF ALASKA:

*Section 1. CONTRACTUAL PROGRAM. The Department of Environmental Conservation is requested to contract with the Arctic Environmental Information and Data Center to gather and prepare information on various systems and methods of waste disposal and related water supply suitable for use in the State of Alaska. The project shall include but not be limited to the following objectives:

(1) the compilation of a handbook of information on waste disposal and related water supply systems which have proven or may be effective in arctic and sub-arctic conditions; the following parameters shall be included: water, soil and temperature requirements or relationships; service limitations; technological attributes or limitations, and any other factors necessary for a complete understanding of such systems. The compilation will also include information on the installation and maintenance costs of each system. The handbook will be prepared and utilized as background information for a conference on the subject.

(2) the convening of a conference for the exchange of information on waste disposal and related water supply systems which are or may be effective in arctic and sub-arctic conditions.

(3) the development of recommendations by the conference which define gaps of knowledge or causes of non-applications of waste disposal and related water supply systems in Alaska's arctic and sub-arctic conditions as they may exist in science and technology, economics and legislation, including the possible applications of demonstrating projects; the recommendations shall be presented to the presiding officers of the Alaska State Senate and House of Representatives no later than February 1, 197

*Section 2. This Act takes effect immediately in accordance with AS 01.10.070(c).



UNIVERSITY OF ALASKA

March 22, 1976

Representative Sam Cotten
House of Representatives
Pouch V
Juneau, AK 99811

Dear Sam:

Following up on our conversation at the Westward Hotel and the interests of Lisa Rudd, Kathryn Ostrosky and your other colleagues in House Bills 797 and 798, the following are my thoughts on how your collective objectives might be met.

First, however, may I summarize a few of the observations we discussed.

1. The science and technology for Arctic and sub-Arctic water and sewer systems exists and is known;
2. Many problems of waste disposal are directly associated with problems of water supply and may be better addressed together rather than separately;
3. The basic problem is one of transferring known knowledge to those communities or individuals who wish to use it;
4. The choice of a variety of suitable waste and related water supply and transport system technologies is essentially a problem of cost-benefit (or economic) analysis; and
5. Therefore, the economic and political issue becomes one of who will pay, how much, for what.

In order for the legislature to assist in meeting a very real need in this state on this subject the following approach is suggested:

UNIVERSITY OF ALASKA

Representative Sam Cotten

Page 2

March 22, 1976

- a. Synthesize existing knowledge in a handbook type report which simplistically illustrates the kinds of waste and water related technologies, their specific environmental applications, their attributes and weaknesses and costs under alternative situations;
- b. Prepare such a handbook as a background of information for a symposium or conference on Alaska sewage and waste treatment situations and problems;
- c. Use the conference approach to achieve public awareness and to define gaps in knowledge or causes of non-application, as they may exist in:
 - 1) science and technology
 - 2) economics, and
 - 3) legislation*
- d. Cause the conference to report to the legislature its observations on gaps in knowledge and causes of non-application and its specific recommendations for legislative action.

If, as proposed, the Department of Environmental Conservation and the legislature wish to use the services of AEIDC for these purposes I would note that:

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UNIVERSITY OF ALASKA

Representative Sam Cotten
Page 3
March 22, 1976

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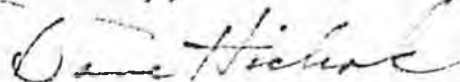
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Amendatory legislative language to House Bills 797 and 798 for the accomplishment of these approaches is suggested and attached.

Finally, may I just add the thought that regardless of the outcome of this legislation, the staff of AEIDC and IWR and a great many other Alaskans view this subject raised by the proponents of HB 797 and 798 very seriously. The staff of AEIDC is, in any event, at your service in every way possible.

Sincerely,



David M. Hickok
Director

DMH:ec

Enclosure

HOUSE COMMUNITY AND REGIONAL AFFAIRS COMMITTEE

March 29, 1976

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Rep. Freeman	Alan Latham, Legislative Affairs
Rep. Rudd	Jerry Sargeant, <i>Dept. Environ. Conserv.</i>
Rep. Ostrosky	Jerry Rainey , <i>Dept. of CE&RA Envir. Conservation</i>
Rep. Hackney	Barbara Englert Thomas, Staff
Rep. Davis	Vicci Hansen, Staff

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It was discussed that on HB 797 the CS should be amended to switch 1 and 2, to amend lines 17 and 21 to delete arctic and sub arctic and insert "Alaskan" on line 21 to delete arctic and insert "Alaskan".

CSHB 797 and 798 were passed out.

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AMENDMENT

OFFERED IN THE HOUSE:

By: House Committee on Education and the
General Affairs Committee

To: CS HOUSE BILL No. 797

SENATE BILL No. _____

PAGE: 1

LINE: _____

Lines 17, 18: ~~DELETE~~ "arctic and subarctic"
INSERT "Alaskan"

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Lines 16 and 20: ~~Change~~ subsection "(1)" to "(2)"
Change subsection "(2)" to "(1)"

[The effect of this amendment is to change the order of the objectives (1) and (2).]

A BILL

For an Act entitled: "An Act requiring the Department of Environmental Conservation to contract with the Arctic Environmental Information and Data Center to prepare waste disposal information; hold a conference; report to the legislature and providing for an effective date."

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF ALASKA:

*Section 1. CONTRACTUAL PROGRAM. The Department of Environmental Conservation is requested to contract with the Arctic Environmental Information and Data Center to gather and prepare information on various systems and methods of waste disposal and related water supply suitable for use in the State of Alaska. The project shall include but not be limited to the following objectives:

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*Section 2. This Act takes effect immediately in accordance with AS 01.10.070(c).



UNIVERSITY OF ALASKA

March 22, 1976

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House of Representatives
Pouch V
Juneau, AK 99811

Dear Sam:

Following up on our conversation at the Westward Hotel and the interests of Lisa Rudd, Kathryn Ostrosky and your other colleagues in House Bills 797 and 798, the following are my thoughts on how your collective objectives might be met.

First, however, may I summarize a few of the observations we discussed.

1. The science and technology for Arctic and sub-Arctic water and sewer systems exists and is known;
2. Many problems of waste disposal are directly associated with problems of water supply and may be better addressed together rather than separately;
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5. Therefore, the economic and political issue becomes one of who will pay, how much, for what.

In order for the legislature to assist in meeting a very real need in this state on this subject the following approach is suggested:

UNIVERSITY OF ALASKA

Representative Sam Cotten
Page 2
March 22, 1976

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- b. Prepare such a handbook as a background of information for a symposium or conference on Alaska sewage and waste treatment situations and problems;
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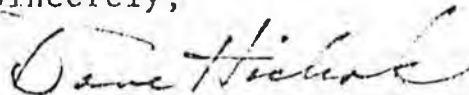
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BY: House Committee by Nelson
Foreign Affairs Committee

To: CS HOUSE BILL No. 797

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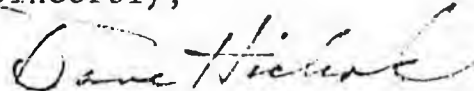
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BY: House Committee on Education
Foreign Affairs Comm. H.C.

TO: CS HOUSE BILL No. 797

SENATE BILL No. _____

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