

SB

498

STATE OF ALASKA
1988 LEGISLATIVE SESSION

BILL VERSION: CSSB 498 (Fin) title am
PUBLISH DATE: _____

5/3/88
H(LSC)

FISCAL NOTE

REQUEST:

Revision Date: _____ Agency Affected: Labor
Title: "An Act relating to certain
plumbing installations and repairs;" BRU: Labor Standards & Safety
Sponsor: Senate Labor & Commerce Components: Mechanical Inspection
Requestor: House Labor & Commerce

EXPENDITURES/REVENUES: (Thousands of Dollars)

OPERATING	FY 88	FY 89	FY 90	FY 91	FY 92	FY 93
PERSONAL SERVICES						
TRAVEL						
CONTRACTUAL						
SUPPLIES						
EQUIPMENT						
LAND&STRUCTURES						
GRANTS,CLAIMS						
MISCELLANEOUS						
TOTAL OPERATING	0.0	0.0	0.0	0.0	0.0	0.0

CAPITAL						
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REVENUE						
---------	--	--	--	--	--	--

FUNDING: (Thousands of Dollars)

GENERAL FUND						
FEDERAL FUNDS						
OTHER						
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0

POSITIONS:

FULL-TIME						
PART-TIME						
TEMPORARY						

ANALYSIS: (Attach a separate page if necessary)

Prepared by: Tom Stuart, Director Phone: 264-2452
Division: Labor Standards & Safety Date: 4/29/88

Approved by Commissioner: Jim Sampson 4/29/88
Agency: Department of Labor

RECEIVED
MAY 2 1988

Distribution (by preparer) :
Legislative Finance
Legislative Sponsor
Requestor
Office of Management and Budget
Impacted Agency(ies)

*Received
and forwarded
after bill
R/O.*

4/30/88
H (LWC)
7

STATE OF ALASKA
1988 LEGISLATIVE SESSION

BILL VERSION: CSSB 498 (FIN) (Title AM)
PUBLISH DATE: 4/28/88

FISCAL NOTE

REQUEST:

Revision Date: _____
Title: An Act relating to certain plumbing installations and repairs
Sponsor: Senate Labor & Commerce
Requestor: House Labor & Commerce

Agency Affected: DEC
BRU: Environmental Quality
Components: Water Quality Management

EXPENDITURES/REVENUES: (Thousands of Dollars)

OPERATING	FY 88	FY 89	FY 90	FY 91	FY 92	FY 93
PERSONAL SERVICES						
TRAVEL						
CONTRACTUAL						
SUPPLIES						
EQUIPMENT						
LAND & STRUCTURES						
GRANTS, CLAIMS						
MISCELLANEOUS						
TOTAL OPERATING	0	0	0	0	0	0

CAPITAL						
---------	--	--	--	--	--	--

REVENUE						
---------	--	--	--	--	--	--

FUNDING: (Thousands of Dollars)

GENERAL FUND						
FEDERAL FUNDS						
OTHER						
TOTAL	0	0	0	0	0	0

POSITIONS: None

FULL-TIME						
PART-TIME						
TEMPORARY						

ANALYSIS : (Attach a separate page if necessary)

Prepared by: Amy Kyle *admyle* Phone: 465-2600
Division: Commissioner's Office Date: 4/28/88

Approved by Commissioner: Dennis D. Kelso
Agency: Commissioner

- Distribution (by preparer):
- Legislative Finance
- Legislative Sponsor
- Requestor
- Office of Management and Budget
- Impacted Agency(ies)

RECEIVED

APR 29 1988

LEGISLATIVE FINANCE

STATE OF ALASKA

DEPT. OF ENVIRONMENTAL CONSERVATION

STEVE COWPER, GOVERNOR

POSITION PAPER
CSSB 498 (Fin) (TITLE AM)

Title

An act relating to certain plumbing installations and repairs; and providing for an effective date.

Effect of the Bill

The bill would amend Department of Labor statutes to ban the use of lead solders and fluxes in installation of new water systems and repair of existing water systems.

Department position

The Department supports the bill. The bill would implement a key provision of the federal Safe Drinking Water Act Amendments, passed in 1986.

Use of lead solder in drinking water systems is a leading cause of elevated lead levels in drinking water.

Lead has extremely adverse effects on persons exposed to it. These effects range from acute swelling of the brain and seizures at high blood levels to symptoms such as fatigue, loss of appetite, or abdominal pain at low levels. Lead is known to damage the digestive system, reproductive system, gastrointestinal system, and kidneys. It also interferes with the blood-forming process and exposure has been related to increased miscarriages. Lead accumulates in the human body and has no beneficial uses in the body. Young children and fetuses are at highest risk because they absorb a higher percentage of the lead to which they are exposed than adults do.

Individuals who are exposed to lead in water have been shown to have increases in blood lead levels. Lead solder in plumbing has been identified as the most significant source of lead in drinking water. Lead in raw water is rare.

In Alaska, high lead levels have been found in drinking water systems in St. Michaels, Gambell, Shishmaref, Point Hope, Point

Lay, Barrow, Nuiqsut, Atquasak, Wainwright, Fairbanks, Birch Creek and Mekoryuk due to corrosive water in contact with lead solder. The problem could be expected in most water systems using surface water and in some systems using ground water. No comprehensive testing for lead in distribution systems has been done. The North Slope Borough has imposed a ban on the use of lead solders and fluxes.

The federal Safe Drinking Water Act was amended in June, 1986 to include a new section 1417 titled "Prohibition on Use of Lead Pipes, Solder, and Flux." This section bans the use of solder and flux containing greater than 0.2% lead and pipes and pipe fittings containing more than 8.0% lead. The Act requires that states with primacy in the drinking water program implement this requirement. In Alaska, the Department of Environmental Conservation has primacy for the drinking water program.

The most effective way to ban use of lead fluxes and solders is to do so in conjunction with laws and regulations that govern plumbing. Under Alaska law, this requires an amendment to Title 18, the statute pertaining to the Department of Labor. Both the Department of Environmental Conservation and the Department of Labor support this change.

Alternative tin solders are available and are preferable to lead solders in terms of strength. Material unit cost is slightly higher, but less solder is used so that overall cost is equivalent. Initial education will be needed to help industry address the change of requirements.



Dennis D. Kelso, Commissioner
Department of Environmental Conservation

SENATE COMMITTEE REPORT

FURTHER

DATE TURNED INTO OFFICE

4/25/88

4/12/88
Mr. President:

FINANCE

Committee considered SB 498

lead in public water systems and in certain plumbing installations and repairs; efd

and recommended

[] replace with _____ CS SB 498(FIX)) [] same title
[] or adopt _____ CS _____) [] new title

[] attached amendment(s) and

[] do pass

[] do not pass

[] no recommendation

[] individual recommendations

[] further referral to _____

[] letter of intent adopted _____

Committee [] attached or [] adopted fiscal note(s)

[] new [] updated or [] previous
[] zero [] fiscal impact

MEMBERS SIGNING DO PASS

OTHER RECOMMENDATIONS

Jim Duncan

Rich Kelly

W. H. ...

...

Rick Halford do pass

Chairman signature and recommendation

[] Committee Backup attached

STATE OF ALASKA
1988 LEGISLATIVE SESSION

BILL VERSION: CSSB-498 (Fin)

PUBLISH DATE: _____

FISCAL NOTE

REQUEST:

Revision Date: _____ Agency Affected: Labor
 Title: "An Act relating to lead in public water systems..." BRU: Labor Standards & Safety
 Sponsor: Senate Labor & Commerce Components: Mechanical Inspection
 Requestor: Senate Labor & Commerce

EXPENDITURES/REVENUES: (Thousands of Dollars)

OPERATING	FY 88	FY 89	FY 90	FY 91	FY 92	FY 93
PERSONAL SERVICES						
TRAVEL						
CONTRACTUAL						
SUPPLIES						
EQUIPMENT						
LAND&STRUCTURES						
GRANTS,CLAIMS						
MISCELLANEOUS						
TOTAL OPERATING	0.0	0.0	0.0	0.0	0.0	0.0

CAPITAL						
---------	--	--	--	--	--	--

REVENUE						
---------	--	--	--	--	--	--

FUNDING: (Thousands of Dollars)

GENERAL FUND						
FEDERAL FUNDS						
OTHER						
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0

POSITIONS:

FULL-TIME						
PART-TIME						
TEMPORARY						

ANALYSIS: (Attach a separate page if necessary)

Prepared by: Tom Stuart, Director Phone: 264-2452
 Division: Labor Standards & Safety Date: 4/11/88

Approved by Commissioner: Jim Sampson Date: 4/11/88
 Agency: Department of Labor

Distribution (by preparer) :
 Legislative Finance
 Legislative Sponsor
 Requestor
 Office of Management and Budget
 Impacted Agency(ies)

RECEIVED
 APR 12 1988

FISCAL NOTE

REQUEST:

Revision Date: _____ Agency Affected: DEC
 Title: An act relating to lead in public water systems and certain installations BRU: Environmental Quality
 Sponsor: Sen. Labor & Commerce Components: Water Quality Management
 Requestor: Sen. Labor & Commerce

EXPENDITURES/REVENUES: (Thousands of Dollars)

OPERATING	FY 88	FY 89	FY 90	FY 91	FY 92	FY 93
PERSONAL SERVICES						
TRAVEL						
CONTRACTUAL						
SUPPLIES						
EQUIPMENT						
LAND & STRUCTURES						
GRANTS, CLAIMS						
MISCELLANEOUS						
TOTAL OPERATING	0	0	0	0	0	0
CAPITAL	0	0	0	0	0	0
REVENUE	0	0	0	0	0	0

FUNDING: (Thousands of Dollars)

GENERAL FUND						
FEDERAL FUNDS						
OTHER						
TOTAL						

POSITIONS: None

FULL-TIME						
PART-TIME						
TEMPORARY						

ANALYSIS : (Attach a separate page if necessary)

Funding for the lead notice provisions of this bill (Section 3) has been included in the proposed budget for DEC.

Prepared by: Amy D. Kyle Phone: 465-2600
 Division: Commissioner's Office Date: 4/8/88

Approved by Commissioner: [Signature] Date: 4/11/88
 Agency: DEC

Distribution (by preparer):
 Legislative Finance
 Legislative Sponsor
 Requestor
 Office of Management and Budget
 Impacted Agency(ies)

RECEIVED

APR 12 1988

LEGISLATIVE FINANCE



From The
**SENATE
FINANCE COMMITTEE**

April 25, 1988

Legal Services -

Please prepare a Senate Finance Committee Substitute for SB 498 based on the attached draft and return the final to Vicki or Kathy Room 413, Capitol Building. The bill was reported out of committee this morning and will be read across at the 11:00 a.m. floor session.

Thank you,

kathy
4935

Finance
BY THE ~~LABOR AND~~
~~COMMERCE COMMITTEE~~

1 IN THE SENATE

2

CS SENATE BILL NO. 498 *(Fin)*

3

IN THE LEGISLATURE OF THE STATE OF ALASKA

4

FIFTEENTH LEGISLATURE - SECOND SESSION

5

A BILL

6

For an Act entitled: "An Act relating to lead in public water systems and
7 in certain plumbing installations and repairs; and
8 providing for an effective date."

9

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

10

* Section 1. AS 18.60.705 is amended by adding a new subsection to
11 read:

12

(b) Notwithstanding (a) of this section, the use of a pipe or
13 pipe fitting containing more than 8.0 percent lead, or of solder or
14 flux containing more than 0.2 percent lead in the installation or
15 repair of a public water system or in the installation or repair of
16 plumbing of a residential or nonresidential facility that provides
17 water for human consumption is prohibited. This subsection does not
18 apply to the use of leaded joints necessary to repair cast iron pipe.

19

* Sec. 2. AS 18.60.740(1) is repealed and reenacted to read:

20

(1) "code" means the code adopted under AS 18.60.705(a) as
21 amended by AS 18.60.705(b).

22

~~* Sec. 3. AS 46.03 is amended by adding a new section to read:~~

23

~~ARTICLE 6A. LEAD IN PUBLIC WATER SYSTEMS.~~

24

~~Sec. 46.03.350. LEAD IN PUBLIC WATER SYSTEMS. A public water
25 system shall notify persons who may be affected by lead contamination
26 of their drinking water if the contamination results from the lead
27 content in the construction materials of the public water distribution
28 system or the corrosivity of the water supply sufficient to cause
29 leaching of lead. Notice shall be given whether or not the lead~~

1 ~~contamination violates AS 18.60.705(b). The department shall adopt~~
2 ~~regulations to govern the manner and form of the notice. The notice~~
3 ~~must explain~~
4 ~~(1) the potential sources of lead in the drinking water;~~
5 ~~(2) potential adverse health effects;~~
6 ~~(3) reasonably available methods of mitigating known or~~
7 ~~potential lead content in drinking water;~~
8 ~~(4) steps the system is taking to mitigate lead content in~~
9 ~~drinking water; and~~
10 ~~(5) the necessity for seeking alternative water supplies,~~
11 ~~if any.~~

12 * Sec. 4³ APPLICABILITY. Section 1 of this Act applies to the instal-
13 lation or repair of a water system or plumbing begun on or after the effec-
14 tive date of this Act.

15 * Sec. 5⁴ This Act takes effect immediately under AS 01.10.070(c).

Original sponsor: Labor and Commerce Committee

1 IN THE SENATE

BY THE FINANCE COMMITTEE

2 CS FOR SENATE BILL NO. 498 (Finance)

3 IN THE LEGISLATURE OF THE STATE OF ALASKA

4 FIFTEENTH LEGISLATURE - SECOND SESSION

5 A BILL

6 For an Act entitled: "An Act relating to lead in public water systems and
7 in certain plumbing installations and repairs; and
8 providing for an effective date."

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

10 * Section 1. AS 18.60.705 is amended by adding a new subsection to
11 read:

12 (b) Notwithstanding (a) of this section, the use of a pipe or
13 pipe fitting containing more than 8.0 percent lead, or of solder or
14 flux containing more than 0.2 percent lead in the installation or
15 repair of a public water system or in the installation or repair of
16 plumbing of a residential or nonresidential facility that provides
17 water for human consumption is prohibited. This subsection does not
18 apply to the use of leaded joints necessary to repair cast iron pipe.

19 * Sec. 2. AS 18.60.740(1) is repealed and reenacted to read:

20 (1) "code" means the code adopted under AS 18.60.705(a) as
21 amended by AS 18.60.705(b).

22 * Sec. 3. APPLICABILITY. Section 1 of this Act applies to the instal-
23 lation or repair of a water system or plumbing begun on or after the effec-
24 tive date of this Act.

25 * Sec. 4. This Act takes effect immediately under AS 01.10.070(c).
26
27
28
29

POSITION PAPER
SB 498

Title

An act relating to lead in public water systems and in certain plumbing installations and repairs; and providing for an effective date

Effect of the Bill

The bill would amend Department of Labor statutes to ban the use of lead solders and fluxes in installation of new water systems and repair of existing water systems. The bill would also require public water systems to notify their customers of whether their water system is susceptible to leaching of lead from solders and fluxes and the potential health impacts from consumption of lead.

Department position

The Department supports the bill. The bill would implement key provisions of the federal Safe Drinking Water Act Amendments, passed in 1986.

Use of lead solder in drinking water systems is a leading cause of elevated lead levels in drinking water.

Lead has extremely adverse effects on persons exposed to it. These effects range from acute swelling of the brain and seizures at high blood levels to symptoms such as fatigue, loss of appetite, or abdominal pain at low levels. Lead is known to damage the digestive system, reproductive system, gastrointestinal system, and kidneys. It also interferes with the blood-forming process and exposure has been related to increased miscarriages. Lead accumulates in the human body and has no beneficial uses in the body. Young children and fetuses are at highest risk because they absorb a higher percentage of the lead to which they are exposed than adults do.

Individuals who are exposed to lead in water have been shown to have increases in blood lead levels. Lead solder in plumbing has been identified as the most significant source of lead in drinking water. Lead in raw water is rare.


In Alaska, high lead levels have been found in drinking water systems in St. Michaels, Gambell, Shishmaref, Point Hope, Point Lay, Barrow, Nuiqsut, Atkasak, Wainwright, Fairbanks, Birch Creek and Mekoryuk due to corrosive water in contact with lead

solder. The problem could be expected in most water systems using surface water and in some systems using ground water. No comprehensive testing for lead in distribution systems has been done. The North Slope Borough has imposed a ban on the use of lead solders and fluxes.

The federal Safe Drinking Water Act was amended in June, 1986 to include a new section 1417 titled "Prohibition on Use of Lead Pipes, Solder, and Flux." This section bans the use of solder and flux containing greater than 0.2% lead and pipes and pipe fittings containing more than 8.0% lead. The act requires that states with primacy in the drinking water program implement this requirement. In Alaska, the Department of Environmental Conservation has primacy for the drinking water program.

The most effective way to ban use of lead fluxes and solders is to do so in conjunction with laws and regulations that govern plumbing. Under Alaska law, this requires an amendment to Title 18, the statute pertaining to the Department of Labor. Both the Department of Environmental Conservation and the Department of Labor support this change.

Alternative tin solders are available and are preferable to lead solders in terms of strength. Material unit cost is slightly higher, but less solder is used so that overall cost is equivalent. Initial education will be needed to help industry address the change of requirements.


Dennis D. Kelso, Commissioner
Department of Environmental Conservation

STATE OF ALASKA
1988 LEGISLATIVE SESSION

BILL VERSION: SB 498
PUBLISH DATE: _____

FISCAL NOTE

REQUEST:

Revision Date: _____ Agency Affected: Labor
Title: "An Act relating to lead in
public water systems..." BRU: Labor Standards & Safety
Sponsor: Senate Labor & Commerce Components: Mechanical Inspection
Requestor: Senate Labor & Commerce

EXPENDITURES/REVENUES: (Thousands of Dollars)

OPERATING	FY 88	FY 89	FY 90	FY 91	FY 92	FY 93
PERSONAL SERVICES						
TRAVEL						
CONTRACTUAL						
SUPPLIES						
EQUIPMENT						
LAND&STRUCTURES						
GRANTS,CLAIMS						
MISCELLANEOUS						
TOTAL OPERATING	0.0	0.0	0.0	0.0	0.0	0.0
CAPITAL						
REVENUE						

FUNDING: (Thousands of Dollars)

GENERAL FUND						
FEDERAL FUNDS						
OTHER						
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0

POSITIONS:

FULL-TIME						
PART-TIME						
TEMPORARY						

ANALYSIS: (Attach a separate page if necessary)

Prepared by: Tom Stuart, Director Phone: 264-2452
Division: Labor Standards & Safety Date: 4/11/88

Approved by Commissioner: Jim Sampson Date: 4/11/88
Agency: Department of Labor

Distribution (by preparer) :
Legislative Finance
Legislative Sponsor
Requestor
Office of Management and Budget
Impacted Agency(ies)

REGISTERED
APR 12 1988

