

Page 1 SUMMARY

A. Chemical: Selenium, total CAS# 7488-56-4 Date Nov. 1989

B. Minnesota Criterion: ug/l (unless noted otherwise)

Water Class	Use	CC	MC	FAV	Basis*
1,2A	DW, Salmonid	5	20	40	EPA, T1
1,2B,2C	DW, NonSalmonid	5	20	40	EPA, T1
2B,2C	NonSalmonid	5	20	40	EPA, T1
	Other				

Toxicity related to water quality: No

If yes, above criteria values determined for: _____

Slope: Acute: _____ Chronic: _____

Formulas:

EPA:CC: NAMPCA: NA

MC: _____

FAV: _____

Notes: _____

EPA criterion based on field data.

C. EPA Criterion: ug/l CCC: 5 Basis: Field toxicity data
Date: _____ MC: 20 Basis: _____
FAV: 40 Basis: _____

Notes: _____

D. Other Criteria:	value	Source
ug/l	<u>10</u>	<u>IJC</u>
	_____	_____
	_____	_____
	_____	_____

E. Notes: _____

*Criteria basis codes for part B:

EPA = From EPA criterion

PCA = Criterion developed by Minnesota Pollution Control Agency staff

T1 = Direct aquatic life toxicity, EPA national criteria procedures used

T2 = Direct aquatic life toxicity, EPA advisory procedures used

Hs = Human health systemic effects

Hc = Human health carcinogenic effects

R = Tissue residue (bioaccumulation)

W = Wildlife effects

O = Organoleptic (taste and odor)

Other = Criterion based on other end point

AQUATIC LIFE CRITERIA

None

MINNESOTA POLLUTION CONTROL AGENCY

AQUATIC LIFE CRITERIA

Page 4 HUMAN HEALTH

A. Chemical: Selenium CAS#: 7488564 Date: 11-15-89B. EPA Human Health Criterion: df: 10 f: 10 d: 10 MCL
ug/l

ADI/Ref.dose: _____ mg/kg/day slope: _____

Final BCF: _____ %lipid: _____

K: _____

Based on current primary drinking water standard.

C. Minnesota Human Health Criterion

1. Ref.dose: 0.213 mg/kg/day Source: MDH
K: 0.2 Source: MPCA

2. Potency slope: _____ Source: _____

3. Measured BAFs:	Species/Tissue	BAF	%lipid	Norm. BAF
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
Geo mean:	_____	_____	_____	_____

4. Measured BCFs	Species/Tissue	BCF	%lipid	Norm. BCF
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
8.	_____	_____	_____	_____
Geo mean:	_____	_____	_____	_____

5. Edible portion BAF or BCF	BAF	BCF
Cold water: 6.0 % lipid	_____	_____
Warm water: 1.5 % lipid	_____	_____

6. Geo mean unadjusted for lipid: BAF: _____ BCF: _____

7. log Kow: _____ meas. _____ QSAR _____ Est. BCF: _____
adjust. for % lipid: _____

8. Parachor: _____

9. BCF to BAF conversion factor: _____

10. Final BAF: 2A: 43 2B,2C: 4311. Criteria: df(2A): 906 df(2B,2C): 906 f: 2290 RAL: 45.0
ug/lD. Organoleptic: NA Source: _____
ug/l

F. Notes: