

CENPP-PE-HR (1110-2-1150)

19 June 1992
BRITTON/6471/Gomoll

MEMORANDUM FOR Chief, CENPP-OP, ATTN: CENPP-OP-NW (Gornick)

SUBJECT: Sediment evaluation of Government Island South Channel

1. Enclosed is the sediment evaluation for the Government Island South Channel Federal Project. In summary, the sediment is acceptable for both in-water and upland disposal with no significant adverse environmental effects expected. If you have questions regarding this sediment evaluation, contact Jim Britton, CENPP-PE-HR, extention 6471.

Encl
as

STEVEN L. STOCKTON, P.E.
Chief, Planning and Engineering
Division

CF:
CENPP-PE (Read File)
CENPP-PE-H (Read File)
CENPP-PE-HR (Cassidy)
✓CENPP-PE-HR (Britton)

CENPP-PE-MS
CEN/FILES

STOCKTON
CENPP-PE

BRANCH
CENPP-PE-H

CASSIDY
CENPP-PE-HR

BRITTON
CENPP-PE-HR
6471/mbg
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18 June 1992

Sediment evaluation of Government Island South Channel

1. **Previous study.** In 1985 samples were taken at Day Beacons number 11,13 and 15 in the channel. These had an average resuspended density of 1907 gm/L, a specific gravity of 2.71, a void ratio of 1.483 and a volatile solids content of 0.6 percent. The sediment was classified as poorly graded sand.

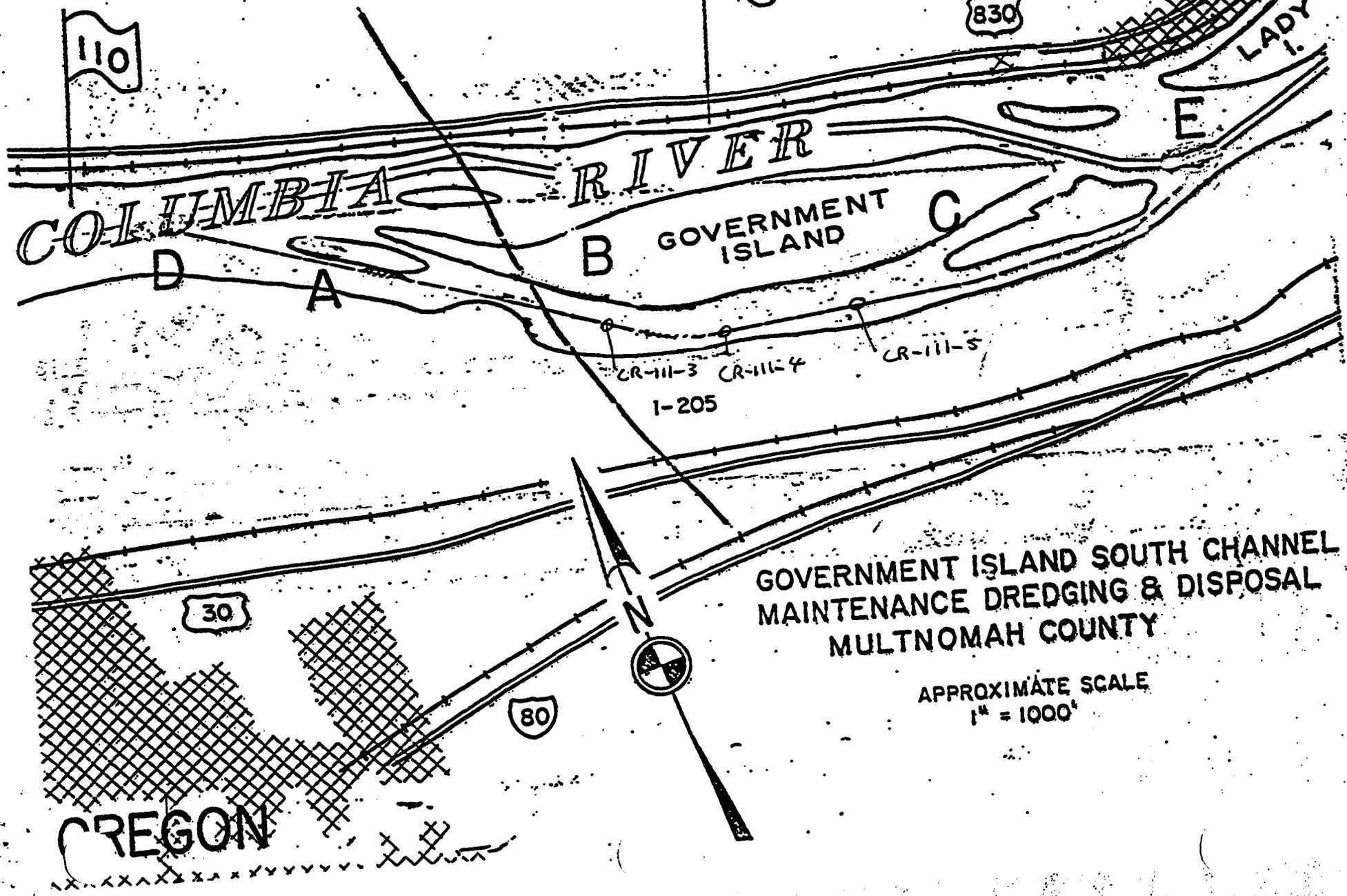
2. **Present study.** On June 5, 1992 three samples were taken by ponar upstream of the Glen Jackson Bridge adjacent to Day Beacons (dolphins) 11, 13 and 14 (see map). These samples were subjected to physical analyses that included dredge tests, gradations and volatile solids. Results are presented in the Table below. The samples averaged 96.2 percent poorly graded sand with a median grain size in the range of coarse sand (0.82 mm). Volatile solids were 0.4 percent indicating a low organic content. According to USACE, Portland District guidelines and guidelines in the Clean Water Act (CWA) these sediments meet the exclusionary criteria for in-water disposal and are also acceptable for upland disposal. There are no known sources of contaminants nearby and there is no reason to believe toxicity effects could occur from disposal.

sample	resuspended density gm/L	void ratio	specific gravity	volatile solids %	median grain size mm	sand %
CR-111-3	1923	0.823	2.683	0.3	1.8	91.8
CR-111-4	1841	0.995	2.677	0.6	0.68	99.7
CR-111-5	1851	0.966	2.673	0.3	0.55	97.2
mean	1872	0.928	2.678	0.4	0.82	96.2

3. If you have any questions regarding this sediment evaluation please contact Jim Britton, CENPP-PE-HR at extension x6471.

WASHINGTON

CAMAS



COLOMBIA

RIVER

B GOVERNMENT ISLAND

LADY I.

D

A

C

CR-111-3

CR-111-4

CR-111-5

I-205

GOVERNMENT ISLAND SOUTH CHANNEL
MAINTENANCE DREDGING & DISPOSAL
MULTNOMAH COUNTY

APPROXIMATE SCALE
1" = 1000'



30

80

OREGON