

APPENDIX A

FISH AND WILDLIFE RESOURCES OF THE OGDENSBURG COASTAL AREA

Table 1. Fish of the Ogdensburg Harbor project area.

Common Name	Scientific Name	USFWS (1977)	Dunning et al. (1978)
Bowfin	<u>Amia calva</u>		X
Alewife	<u>Alosa pseudoharengus</u>	X	
Gizzard shad	<u>Dorosoma cepedianum</u>	X	X
Rainbow smelt	<u>Osmerus mordax</u>		X
Northern pike	<u>Esox lucius</u>	X	X
Muskellunge	<u>Esox masquinongy</u>		X
Common carp	<u>Cyprinus carpio</u>	X	X
Golden shiner	<u>Notemigonus chrysoleucas</u>	X	X
Spottail shiner	<u>Notropis hudsonius</u>	X	X
Bluntnose minnow	<u>Pimephales notatus</u>		X
Fallfish	<u>Semotilus corporalis</u>		X
White sucker	<u>Catostomus commersoni</u>	X	X
Silver redhorse	<u>Moxostoma anisurum</u>	X	X
Shorthead redhorse	<u>Moxostoma macrolepidotum</u>	X	
Greater redhorse	<u>Moxostoma valenciennesi</u>		X
Brown bullhead	<u>Ictalurus nebulosus</u>	X	X
Channel catfish	<u>Ictalurus punctatus</u>		X
Banded killifish	<u>Fundulus diaphanus</u>		X
Brook stickleback	<u>Culaea inconstans</u>		X
Threespine stickleback	<u>Gasterosteus aculeatus</u>		X
White perch	<u>Morone americana</u>	X	X
Rock bass	<u>Ambloplites rupestris</u>	X	X
Pumpkinseed	<u>Lepomis gibbosus</u>	X	X
Bluegill	<u>Lepomis macrochirus</u>		X
Smallmouth bass	<u>Micropterus dolomieu</u>	X	X
Largemouth bass	<u>Micropterus salmoides</u>		X
Black crappie	<u>Pomoxis nigromaculatus</u>	X	X
Fantail darter	<u>Etheostoma flabellare</u>	X	
Johnny darter	<u>Etheostoma nigrum</u>		X
Tessellated darter	<u>Etheostoma olmstedii</u>	X	
Yellow perch	<u>Perca flavescens</u>	X	X
Walleye	<u>Stizostedion vitreum vitreum</u>		X
Mottled sculpin	<u>Cottus bairdi</u>		X
Slimy sculpin	<u>Cottus cognatus</u>	X	

Table 2. Birds observed in the area of the Ogdensburg Harbor Project site.

Common Name	Scientific Name	1 Fall '76	2 Winter '76/'77	3 Spring '77	4 Summer '77	5 Winter '78
Common loon	<u>Gavia immer</u>	X		X		
Horned grebe	<u>Podiceps auritus</u>	X		X		
Pied-billed grebe	<u>Podilymbus podiceps</u>	X		X	X	
Double-crested cormorant	<u>Phalacrocorax auritus</u>			X		
Great blue heron	<u>Ardea herodias</u>	X		X	X	
Green heron	<u>Butorides striatus</u>	X		X	X	
American bittern	<u>Botaurus lentiginosus</u>	X		X	X	
Canada goose	<u>Branta canadensis</u>	X		X	X	X
Brant	<u>Branta bernicla</u>	X		X		
Mallard	<u>Anas platyrhynchos</u>	X		X	X	X
Black duck	<u>Anas rubripes</u>	X	X	X		X
Gadwall	<u>Anas strepera</u>	X		X	X	
Pintail	<u>Anas acuta</u>	X		X		
Green-winged teal	<u>Anas crecca</u>	X		X		
Blue-winged teal	<u>Anas discors</u>	X		X	X	
American widgeon	<u>Anas americana</u>	X		X	X	
Northern shoveler	<u>Anas clypeata</u>	X		X		
Wood duck	<u>Aix sponsa</u>	X		X	X	
Redhead	<u>Aythya americana</u>	X		X		X
Ring-necked duck	<u>Aythya collaris</u>	X		X		
Canvasback	<u>Aythya valisineria</u>	X		X		
Greater scaup	<u>Aythya marila</u>					X
Lesser scaup	<u>Aythya affinis</u>	X	X	X		
Common goldeneye	<u>Bucephala clangula</u>	X	X	X		
Barrow's goldeneye	<u>Bucephala islandica</u>					X
Bufflehead	<u>Bucephala albeola</u>	X		X		X
Oldsquaw	<u>Clangula hyemalis</u>	X		X		
White-winged scoter	<u>Melanitta deglandi</u>	X		X		
Surf scoter	<u>Melanitta perspicillata</u>	X				
Black scoter	<u>Melanitta nigra</u>	X				
Ruddy duck	<u>Oxyura jamaicensis</u>	X		X		
Hooded merganser	<u>Lophodytes cucullatus</u>	X		X		
Common merganser	<u>Mergus merganser</u>	X	X	X	X	X
Red-breasted merganser	<u>Mergus serrator</u>	X		X		

Table 2. (Continued)

Common Name	Scientific Name	1 Fall '76	2 Winter '76/'77	3 Spring '77	4 Summer '77	5 Winter '78
Pileated woodpecker	<u>Dryocopus pileatus</u>					X
Hairy woodpecker	<u>Picoides villosus</u>					X
Downy woodpecker	<u>Picoides pubescens</u>					X
Eastern kingbird	<u>Tyrannus tyrannus</u>			X	X	
Eastern peewee	<u>Contopus virens</u>			X	X	
Tree swallow	<u>Iridoprocne bicolor</u>			X	X	
Bank swallow	<u>Riparia riparia</u>			X	X	
Rough-winged swallow	<u>Stelgidopteryx ruficollis</u>			X	X	
Barn swallow	<u>Hirundo rustica</u>			X	X	
Cliff swallow	<u>Petrochelidon pyrrhonota</u>			X	X	
Purple martin	<u>Progne subis</u>			X	X	
Blue jay	<u>Cyanocitta cristata</u>	X		X	X	X
Common crow	<u>Corvus brachyrhynchos</u>			X	X	X
Black-capped chickadee	<u>Parus atricapillus</u>					X
White-breasted nuthatch	<u>Sitta carolinensis</u>					X
House wren	<u>Troglodytes aedon</u>			X	X	
Gray catbird	<u>Dumetella carolinensis</u>			X	X	
American robin	<u>Turdus migratorius</u>			X	X	X
Wood thrush	<u>Hylocichla mustelina</u>			X	X	
Cedar waxwing	<u>Bombycilla cedrorum</u>			X	X	
Northern shrike	<u>Lanius excubitor</u>					X
Starling	<u>Sturnus vulgaris</u>			X	X	X
Yellow warbler	<u>Dendroica petechia</u>			X	X	
Common yellowthroat	<u>Geothlypis trichas</u>			X	X	
American redstart	<u>Setophaga ruticilla</u>			X	X	
House sparrow	<u>Passer domesticus</u>			X	X	X
Red-winged blackbird	<u>Agelaius phoeniceus</u>			X	X	
Northern oriole	<u>Icterus galbula</u>			X	X	
Evening grosbeak	<u>Hesperiphona vespertina</u>					X
Pine grosbeak	<u>Pinicola enucleator</u>					X
Common redpoll	<u>Carduelis flammea</u>					X
American goldfinch	<u>Carduelis tristis</u>			X	X	
Northern junco	<u>Junco hyemalis</u>					X

Table 2. (Continued)

Common Name	Scientific Name	1	2	3	4	5
		Fall '76	Winter '76/'77	Spring '77	Summer '77	Winter '78
Northern goshawk	<u>Accipiter gentilis</u>					X
Red-tailed hawk	<u>Buteo jamaicensis</u>			X	X	X
Rough-legged hawk	<u>Buteo lagopus</u>					X
Bald eagle	<u>Haliaeetus leucocephalus</u>					X
American kestrel	<u>Falco sparverius</u>			X	X	X
Ruffed grouse	<u>Bonasa umbellus</u>					X
American coot	<u>Fulica americana</u>	X		X		
Semipalmated plover	<u>Charadrius semipalmatus</u>	X		X		
Killdeer	<u>Charadrius vociferus</u>	X		X	X	
Black-bellied plover	<u>Pluvialis squatarola</u>	X		X		
Ruddy turnstone	<u>Arenaria interpres</u>	X		X		
American woodcock	<u>Philohela minor</u>	X		X	X	
Common snipe	<u>Capella gallinago</u>	X		X	X	
Spotted sandpiper	<u>Actitis macularia</u>	X		X	X	
Solitary sandpiper	<u>Tringa solitaria</u>	X		X		
Greater yellowlegs	<u>Tringa melanoleuca</u>	X		X		
Lesser yellowlegs	<u>Tringa flavipes</u>	X		X		
Pectoral sandpiper	<u>Calidris melanotos</u>	X		X		
Least sandpiper	<u>Calidris minutilla</u>	X		X		
Semipalmated sandpiper	<u>Calidris pusilla</u>	X		X		
Sanderling	<u>Calidris alba</u>	X		X		
Glaucous gull	<u>Larus hyperboreus</u>	X		X		X
Iceland gull	<u>Larus glaucoides</u>	X		X		X
Great black-backed gull	<u>Larus marinus</u>	X	X	X	X	X
Herring gull	<u>Larus argentatus</u>	X		X	X	X
Ring-billed gull	<u>Larus delawarensis</u>	X		X	X	
Bonapartes gull	<u>Larus philadelphia</u>	X		X		
Common tern	<u>Sterna hirundo</u>	X		X	X	
Caspian tern	<u>Sterna caspia</u>	X		X		
Black tern	<u>Chlidonias niger</u>	X		X	X	
Rock dove	<u>Columba livia</u>			X	X	X
Great horned owl	<u>Bubo virginianus</u>					X
Belted kingfisher	<u>Megaceryle alcyon</u>			X	X	
Common flicker	<u>Colaptes auratus</u>			X	X	

Table 2. (Continued)

Common Name	Scientific Name	1 Fall '76	2 Winter '76/'77	3 Spring '77	4 Summer '77	5 Winter '78
American tree sparrow	<u>Spizella arborea</u>					X
Song sparrow	<u>Melospiza melodia</u>			X	X	
Snow bunting	<u>Plectrophenax vivalis</u>					X

- 1 birds observed from August 1, 1976 to December 10, 1976 (USFWS, 1977)
- 2 birds observed in open water only from December 11, 1976 to March 15, 1977 (USFWS, 1977)
- 3 birds observed from March 16, 1977 to May 31, 1977 (USFWS, 1977)
- 4 birds observed during June and July, 1977 (USFWS, 1977)
- 5 birds observed during January through March, 1978 (Maxwell and Smith, 1978)

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Maxwell, G.R. and G.A. Smith. 1978. Bird studies during the winter of 1978. Technical Report F, Vol. 1. In Environmental assessment of the FY 1979 winter navigation demonstration on the St. Lawrence River. NYS Department of Environmental Conservation, Albany.

U.S. Fish and Wildlife Service. 1977. General biological survey and impact assessment for the Ogdensburg Harbor Project, New York. Cortland Field Station, NY. 59pp.

Table 3. Winter and spring occurrence and relative abundance of mammals in shoreline habitats along the Demonstration Corridor.^a

<u>Abundant</u>	
Shorttail shrew	<u>Blarina brevicauda</u>
Eastern cottontail	<u>Sylvilagus floridanus</u>
Eastern chipmunk	<u>Tamias striatus</u>
Woodchuck	<u>Marmota monax</u>
Eastern gray squirrel	<u>Sciurus carolinensis</u>
Red squirrel	<u>Tamiasciurus hudsonicus</u>
Deer mouse	<u>Peromyscus maniculatus</u>
White-footed mouse	<u>Peromyscus leucopus</u>
Meadow vole	<u>Microtus pennsylvanicus</u>
Red fox	<u>Vulpes fulva</u>
Raccoon	<u>Procyon lotor</u>
Striped skunk	<u>Mephitis mephitis</u>
<u>Common</u>	
Masked shrew	<u>Sorex cinereus</u>
Bats	
- Little brown myotis	<u>Myotis lucifungus</u>
- Eastern pipistrel	<u>Pipistrellus subflavus</u>
- Red bat	<u>Lasiurus borealis</u>
- Hoary bat	<u>Lasiurus cinereus</u>
Snowshoe hare	<u>Lepus americanus</u>
Muskrat	<u>Ondatra zibethica</u>
Beaver	<u>Castor canadensis</u>
Norway rat	<u>Rattus norvegicus</u>
Meadow jumping mouse	<u>Zapus hudsonicus</u>
Porcupine	<u>Erethizon dorsatum</u>
Mink	<u>Mustela vison</u>
Coyote	<u>Canis latrans</u>
Whitetail deer	<u>Odocoileus virginianus</u>
<u>Rare</u>	
Pigmy shrew	<u>Microsorex hoyi</u>
Smoky shrew	<u>Sorex fumeus</u>
Star-nose mole	<u>Condylura cristata</u>
Redback vole	<u>Clethrionomys gapperi</u>
Southern flying squirrel	<u>Glaucomys volans</u>
Northern flying squirrel	<u>Glaucomys sabrinus</u>
Woodland jumping mouse	<u>Napaeozapus insignis</u>
Gray fox	<u>Urocyon cinereoargenteus</u>
Fisher	<u>Martes pennanti</u>
Longtail weasel	<u>Mustela frenata</u>
Shorttail weasel	<u>Mustela erminea</u>
River otter	<u>Lutra canadensis</u>
Bobcat	<u>Lynx rufus</u>

^afrom VanDruff and Lomolino, 1978.

DETAILED SOILS CHART

	NAME	TEXTURE	DEPTH	DRAINAGE	PERM	SEPTIC TANK ABSORB. FIELD	DWELLINGS WITH BASE	DWELLINGS WITHOUT BASE	EROSION HAZARD
3A	Nebraska	loam	20 - 40	mod. well	slow	severe depth to bedrock	severe depth to bedrock	mod. depth to bedrock	slight
18C0 20C	Grenville	fine sandy loam	60	well drain	moderate	severe percs slowly	slight to moderate	slight to moderate	slight
5A8 6A8	Hogansburg	fine sandy loam	60	mod. well	moderate	severe wetness percs slowly	severe wetness	mod. wetness	slight
608 828	Heuvelton	silty clay loam & silt loam	60	very slow to slow	very slow	severe wetness percs slowly	severe wetness	severe wetness	slight
78A-8	Depeyster	silt loam	60	mod. well drained	moderate	severe wetness percs slowly	severe wetness	severe wetness	moderate
80A	Halesboro	silt loam	60	somewhat poor	mod. slow	severe wetness percs slowly	severe wetness	severe wetness	slight
83A 266A	Hacoon	silt loam	60	somewhat poorly drained	slow	severe wetness percs slowly	severe wetness	severe wetness	slight
116AB 117AB 121AB	Crogan	loamy fine sand, sand	60	mod. well drained	rapid	severe wetness poor filter	severe wetness	mod. wetness	slight
119	Daford	loamy fine sand	60	somewhat poorly drained	mod. rapid	severe ponding poor filter	severe ponding	severe ponding	slight
128A-8	Flackville	loamy fine sand	60	mod. well drained	rapid to slow	severe wetness percs slowly	severe wetness	mod. wetness	slight
130	Elmwood	fine sandy loam	60	mod. well drained	rapid to very slow	severe wetness percs slowly	severe wetness	severe wetness shrink - swell	slight
130	Swanton	fine sandy loam	60	somewhat poor to poorly drained	rapid to slow	severe wetness percs slowly	severe wetness	severe wetness	slight
131	Munuscong	fine sandy loam	60	somewhat poor to poorly drained	moderate	severe ponding percs slowly	severe ponding	severe ponding	slight
134	Stockholm	loamy fine sand	60	somewhat poorly drained	mod. - rapid	severe wetness poor filter	severe wetness	severe wetness	slight
179 -	Barsparists Fluvaquents		60	somewhat to very poorly drained	moderate	severe wetness	severe wetness	severe wetness	slight
1908	Raquette	variant sandy loam	60	excessively drained	mod. to very rapid	poor filter	slight	slight	slight
201	Udorthents	clayey		poorly to mod. well drained	slow or very slow				
202	Udorthents	loamy		well to poorly drained	very rapid to moderate				
203	Udorthents	sandy		well to poorly drained	very rapid to moderate				
205	Insula	fine sandy loam	10 - 20"	excessively drained	moderate	severe depth to bedrock	severe depth to bedrock	severe depth to bedrock	slight

CITY OF OGDENSBURG

Detailed Soils Information
(Western Part)

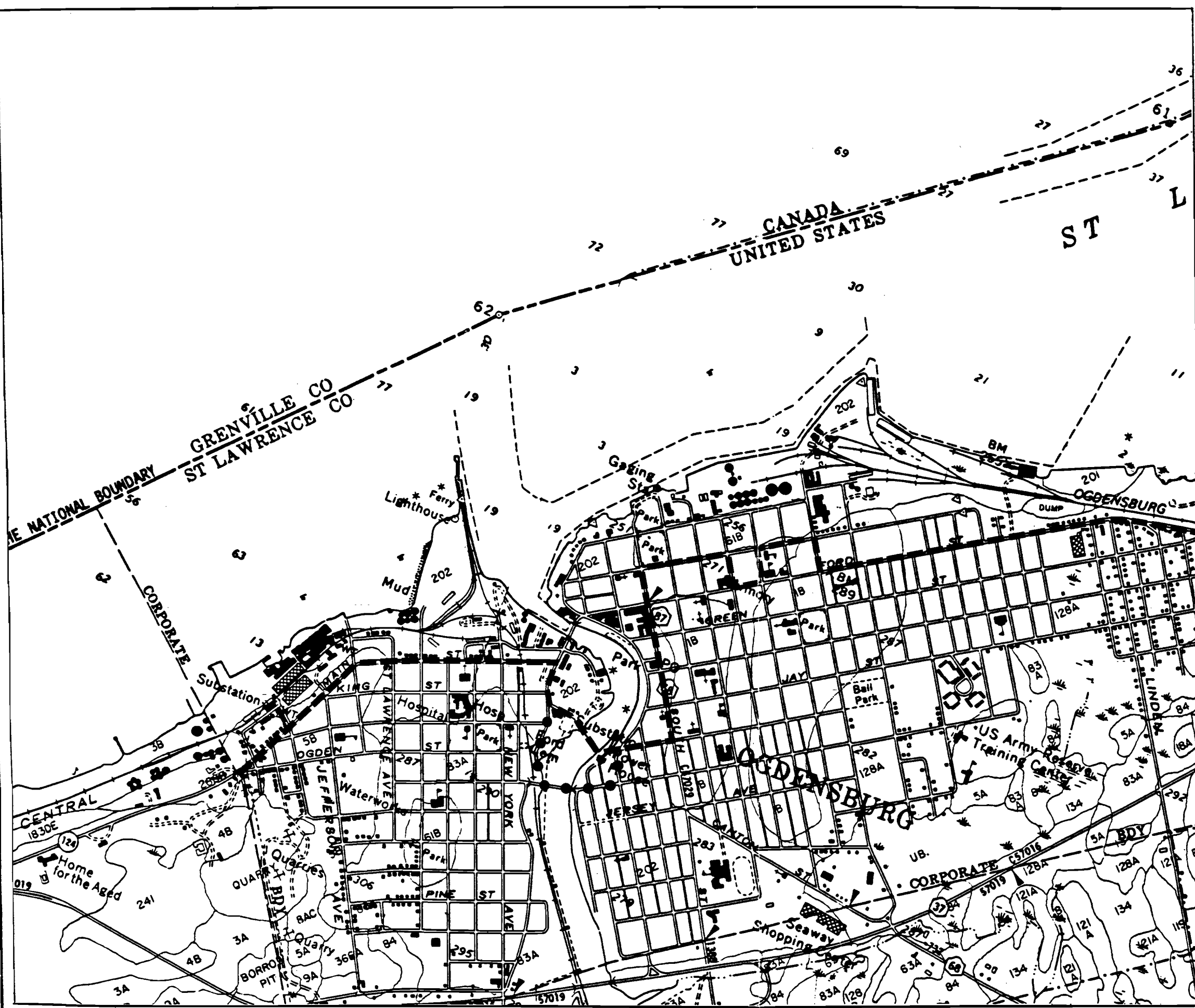
PREPARED BY THE ST. LAWRENCE-EASTERN ONTARIO COMMISSION
LOCAL GOVERNMENT ASSISTANCE PROGRAM

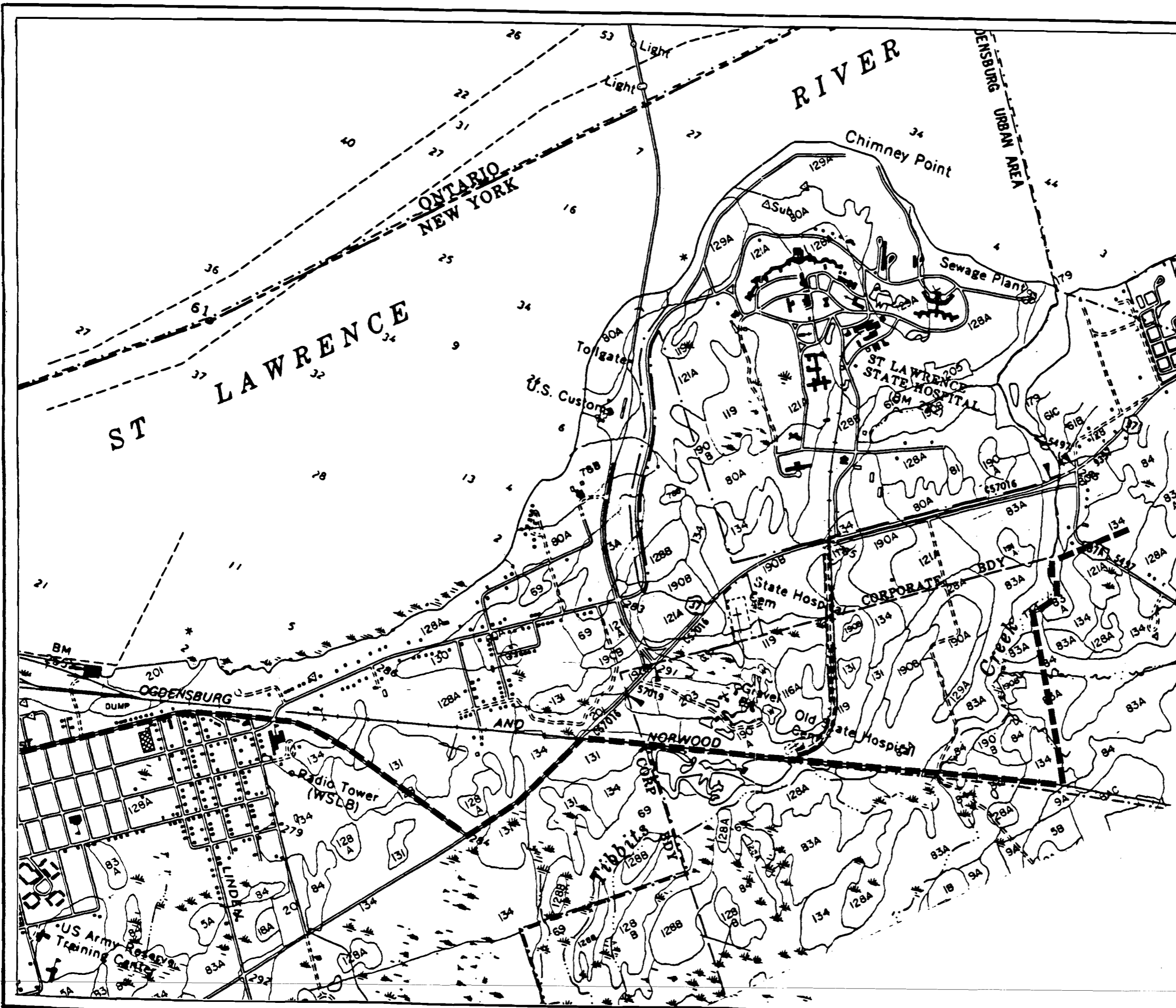


Scale
1" = 1320'

LEGEND

- Coastal Area Boundary
- Revised Additions to Coastal Area Boundary





CITY OF OGDENSBURG

Detailed Soils Information
(Eastern Part)

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Scale
1" = 1320'

LEGEND

--- Coastal Area Boundary