

EXCESS FLOW LOCATIONS FROM 2008 STUDY

<u>Sewer Location</u>	<u>Groundwater Flow (GPD)</u>	<u>Stormwater Flow (GPD)</u>
Airport Interceptor (McCarty to Peltoma)	160,000	-
Peltoma Avenue (Harrison to Summer)	240,000	400,000
Cianchette/Chester Streets (Peltoma to Chester)	-	100,000
Franklin Street (Cianchette to Main)	-	100,000
Nichols Street (Lancey to Park)	100,000	100,000
Crosby Street (Main to Park)	300,000	550,000
Hunnewell Avenue (Including Hospital Cross-Country)	100,000	100,000
Dobson Street (Hunnewell to Detroit)	100,000	-
Dobson/Cottage Streets (Hunnewell to Detroit)	-	500,000
Detroit Street (Madawaska to Lincoln)	100,000	29,400
Detroit Street (Cottage to Madawaska)	-	100,000
Livingston Street (Detroit to Grove)	100,000	-
Livingston Street (Detroit to North Main)	-	200,000
North Main Street (Detroit to Cross-Country)	100,000	-
Cross-Country (North Main to Fourth)	100,000	100,000
Main Street (McCarty to Pump Station)	100,000	100,000
Raymond Avenue (Main to Stinson)	70,000	100,000
Stinson Street (Raymond to Industrial Park)	30,000	-
Dorothy Street (West to Highland)	50,000	200,000
West Street (Highland to Interceptor)	50,000	100,000
Somerset Avenue (Elm to School)	100,000	-
Somerset Avenue (Elm to Birchwood)	-	50,000
Elm/School Streets (Somerset to Hamilton Cross-Country)	200,000	200,000
Elm /School Streets (Somerset to Hamilton Cross-Country)	200,000	43,500
South Street (Elm to Hartland)	-	100,000
Hartland Avenue (South to Waverly)	-	300,000
TOTAL PEAK GROUNDWATER INFILTRATION	2,000,000	3,900,000

RURAL DEVELOPMENT FUNDING FOR FURTHER SEWER SYSTEM EVALUATION

- Televiser problem area sewers with video camera.
- Smoke test to look for broken sewers.
- Dye test to look for stormwater cross-connections.
- Determine causes/locations of excess flow entry.
- Define projects to correct identified sewer deficiencies.
- Define long range capital plan to implement projects as funding allows.

CRITERIA USED TO PRIORITIZE SEWER PROJECTS

- Sewers with high excess flow sources.
- Sewers on verge of structural failure.
- Clay pipes that are old and failing.
- Undersized pipes less than 8" Ø.
- Sewers in areas where Town or MDOT plan road projects.
- Sewers with potential to overflow or backup.

POTENTIAL SEWER PROJECT SEQUENCING

PROJECT PHASE	SEWER AREAS ADDRESSED	ESTIMATE
1	Somerset Avenue	\$ 1,110,000
	Elm Street and School	375,000
	Fourth Street Cross Country sewer	75,000
	Subtotal Phase 1	\$ 1,560,000
2	Chester Street	\$ 400,000
	Franklin Street	235,000
	Peltoma Avenue	370,000
	Dorothy Street	395,000
	Subtotal Phase 2	\$ 1,400,000
3	Hunnewell Avenue	\$ 460,000
	Madawaska Road	430,000
	Washington Street	550,000
	Subtotal Phase 3	\$ 1,440,000
4	Hartland Avenue	\$ 1,540,000
	Subtotal Phase 4	\$ 1,540,000
5	Davis Street/Hospital Cross-Country	\$ 375,000
	Lincoln Street	800,000
	Raymond Avenue	385,000
	Subtotal Phase 5	\$ 1,560,000
6	West Street	\$ 450,000
	Airport Interceptor	515,000
	Central Street	190,000
	Detroit Street	35,000
	Dobson/Cottage Street	130,000
	Industrial Park Avenue	30,000
	Main Street	95,000
	South Street	35,000
	Stinson Street	25,000
	Subtotal Phase 6	\$ 1,505,000
	TOTAL ALL PHASES	\$ 9,005,000

TIMEFRAME FOR FIRST PHASE PROJECT

- MDOT may pave Somerset Avenue in 2013.
- MDOT requires one season for road trenches to cure, so sewer work must be done in 2012.
- Need to get work out to bid this Spring for Summer/Fall construction.
- Rural Development requires new work to be amended into existing funding package.
- Will need to update environmental review.
- Should start surveying new work areas immediately.

PROJECT SCHEDULE

Survey	March, 2012
Design	March – April, 2012
Receive RD Approval to Bid	May, 2012
Bid Project	May – June, 2012
Award Contract	June, 2012
Begin Work	July – August, 2012
Complete Somerset Avenue	November, 2012
Complete Rest of Project	Spring, 2013