

---

TO: George Meservey - Town of Orleans      DATE: 9 November 2011  
FROM: Ed Leonard      PROJECT NO.: 10645J  
SUBJECT: CWMP - Information Requested by Weston & Sampson

---

As a follow-up to your 26 October 2011 email request, attached please find the information listed below, as requested by Weston & Sampson. We have addressed the requested items "line-by-line" and have indicated our responses in *bold italics*.

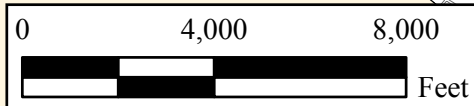
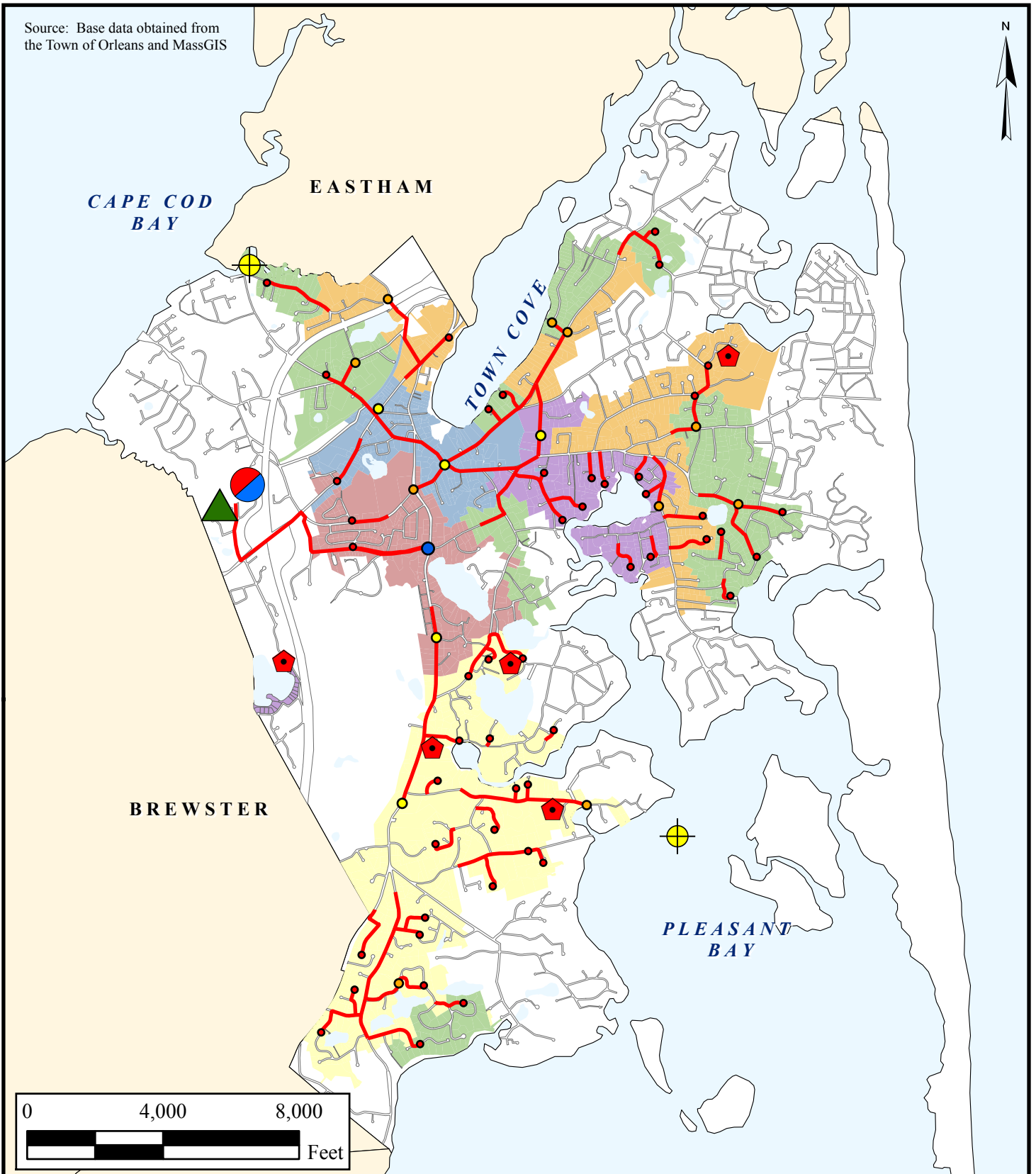
1. Plans depicting preliminary layouts of the collection systems described in the CWMP. *An overview of the collection system components is presented in Table 11-1 and the preliminary collection system layouts are provided in Appendix D of the CWMP. A composite figure, developed from Figures 11-1 and 11-3 of the CWMP, is attached and shows the preliminary collection system components by implementation phase. These preliminary layouts were based hand sketches drawn on large scale prints, which included available topographic contours, from the Town's GIS system.*
2. Any cost or other spreadsheets of the collection systems reflecting
  - a. Street - *See No. 1 above. Results were not tabulated by street.*
  - b. Pipe size - *Results were not tabulated by pipe size.*
  - c. Pipe length - *See attached "File A" for a summary of pipe length per phase.*
  - d. Estimated unit costs (\$/ft) - *See attached "File B". Unit costs for sewers and forcemain were developed using a detailed approach for a typical 1,000 foot run of piping. These unit costs were utilized in "File C" (the overall generalized cost model) for the comparison of alternatives (Plan 1, 2, 3) and for the recommended plan costs presented in the CWMP. From May 2008 Alternatives Analysis Report to the December 2010 CWMP, minor modifications were made to the cost estimates. Specific examples include the addition of the "Local Treatment/Disposal Systems" (\$2.2M), "Evaluation of Non-Structural Elements" (\$0.3M) and "Site Investigations" related to pump stations and archeological (\$0.3M).*
  - e. Any documented allowance for engineering, land, legal, and contingencies - *These are identified in Table 11-7 of the CWMP and were developed based on experience for similar types of projects. See attached "File C".*
  - f. Total Cost, including ENR Construction Cost index for all facilities. *See attached "File C". Costs were expressed in "mid 2008 dollars", for which ENR Construction Index of 8530 is applicable.*
3. Pump station concept designs and costs for the type of stations proposed, including whether or not emergency generator costs are included. *The conceptual design for each type of pump station identified in the CWMP is summarized below. The unit costs for the various size pump stations were developed based on experience with similar sized stations.*

- a. *Grinder - Flow range of 0 to 50 gpm. Standard private grinder or low pressure pump station. No dedicated standby power.*
  - b. *"Small" Pump Station - Flow range of 50 to 100 gpm. Submersible pump station, with abovegrade electrical and control panels. No dedicated standby power.*
  - c. *"Medium" Pump Station - Flow range of 100 to 500 gpm. Self-priming pump station with skin-tight enclosure and abovegrade electrical and control panels. Standby power included.*
  - d. *"Large" Pump Station - Flow range of 500 to 1,000 gpm. Wetwell-drywell configuration with building enclosure and abovegrade electrical and control panels. Standby power included.*
4. Design Basis information for the proposed wastewater/septage treatment facility and basic unit process flows and loads; and building facility sizing. *This information is detailed in Appendix D of the CWMP.*
  5. Cost of Treatment Facility by treatment unit (include allowances for engineering, contingencies, land and legal if possible). *See attached "File D". Similar to the collection system components, File D was used as a cross-check to the cost of the treatment facility as presented in File C and in the CWMP.*
  6. Provisions (if any) for modular construction given the expected timeframe for sewer system expansion and associated flows. In addition, provide information on the timing of sewer system expansion with estimates for flow increases over time. *Cost impacts associated with modular construction are discussed on page 11-50 of the CWMP and are not explicitly included in the project cost estimate. The estimated system flow increases with sewer system expansion over time and is summarized in attached "File A".*
  7. Staffing estimates for the proposed systems over time as the system grows. *Staffing estimates are included in the attached "File E". All O&M estimates are based on the full Core Plan. O&M and staffing were not broken down over time as the system grows.*
  8. Basis for annual O&M costs for the treatment system and collection system, broken down by major category (i.e. salaries including benefits, electricity, chemicals, etc.). *The O&M cost summary is presented in Table 11-8 of the CWMP. See attached "File E".*

*We have attached the following excel files, as referenced above.*

- *Composite figure*
- *File A-Collection and Transport Components.xls*
- *File B-Collection Construction Cost Estimates.xls*
- *File C-Overall Capital Costs.xls*
- *File D-Treatment, Disposal and Septage Cost Estimate.xls*
- *File E-O&M Costs.xls*

Source: Base data obtained from the Town of Orleans and MassGIS



- |  |                            |  |                                |                             |
|--|----------------------------|--|--------------------------------|-----------------------------|
|  | Wastewater Treatment Site  |  | Small Pumping Station          | <b>Service Area Phasing</b> |
|  | Effluent Disposal Site     |  | Medium Pumping Station         | 1                           |
|  | Septage Treatment Facility |  | Large Pumping Station          | 2                           |
|  | Sentinel Stations          |  | Transport to Treatment Plant   | 3                           |
|  | Cluster Systems            |  | Sewers and Force Mains in Road | 4                           |
|  |                            |  |                                | 5                           |
|  |                            |  |                                | 6                           |

Orleans CWMP  
Sewer Collection System

PROJ NO: 10645J DATE: Nov 2011

FIGURE:



**Wastewater Collection and Transport Components**

**Wastewater Composite Plan #2**

Phase	Wastewater Flow gpd	Gravity Collection		Transport to Treatment ft	Transport to Disposal ft	Pump Stations			
		ft				Small ea	Medium ea	Large ea	Grinder # ea
1	130,000	32,000		20,000	0	0	2	10	
2	90,000	17,000		19,000	0	1	1	18	
3	100,000	32,000		14,000	0	3	2	5	
4	100,000	32,000		21,000	0	5	2	10	
5	120,000	76,000		36,000	0	18	2	19	
6	100,000	62,000		29,000	0	11	4	16	
					0	0			
<b>Total</b>	<b>640,000</b>	<b>251,000</b>		<b>139,000</b>	<b>0</b>	<b>46</b>	<b>10</b>	<b>6</b>	<b>78</b>

"FILE A"

**CONCEPT CONSTRUCTION COST ESTIMATE  
Town of Orleans, Massachusetts  
SEWER CONSTRUCTION**

REV: 7/23/2008  
ENR CCI - 8530

NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	COST
1	12" PE STORM DRAIN	0	LF	\$62.00	\$0
2	15" PE STORM DRAIN	0	LF	\$62.00	\$0
3	18" PE STORM DRAIN	0	LF	\$88.00	\$0
4	24" PE STORM DRAIN	0	LF	\$100.00	\$0
5	4' DIA. CATCH BASIN	0	LF	\$2,000.00	\$0
6	5' DIA. CATCH BASIN	0	EA	\$2,500.00	\$0
7	6" PVC SANITARY SERVICE	400	LF	\$50.00	\$20,000
8	8" PVC SEWER - TOWN	1,000	LF	\$75.00	\$75,000
9	8" PVC SEWER - TOWN/ DEEP		LF	\$90.00	\$0
10	8" PVC SEWER - STATE		LF	\$100.00	\$0
11	8" PVC SEWER - STATE/ DEEP		LF	\$120.00	\$0
12	4' DIA. SEWER MANHOLE	32	VF	\$400.00	\$12,800
13	LEDGE EXCAVATION	0	CY	\$125.00	\$0
14	AGGREGATE BASE (INCL. EXCAV.)	56	CY	\$18.00	\$1,000
15	AGGREGATE SUB-BASE (INCL. EXCAV.)	167	CY	\$18.00	\$3,000
16	LOAMING AND SEEDING/ CLEAN-UP	1,111	SY	\$5.00	\$5,560
17	BITUMINOUS CURBING	0	LF	\$10.00	\$0
18	HOT BIT. PAVEMENT (OVERLAY)	0	TONS	\$120.00	\$0
19	HOT BIT. PAVEMENT (TRENCH)	147	TONS	\$120.00	\$17,600
20	TRAFFIC CONTROL	1	LS	\$3,100	\$3,100
21	TEST PITS	2	EA	\$500.00	\$1,000
22	PAVEMENT MARKINGS	1	LS	\$1,000.00	\$1,000
23	GRANITE CURBING - RESET	0	LF	\$20.00	\$0
					\$140,000
10% MISCELLANEOUS ITEMS:					\$14,000
5% GENERAL CONDITIONS:					\$7,000
2% BONDS & INSURANCE:					\$2,800
5% MOB/ DEMOBILIZATION:					\$7,000
<b>TOTAL:</b>					<b>\$170,800</b>

SAY CONSTRUCTION COST (mid 2008 dollars): \$171 per LF  
 SAY CONSTRUCTION COST (mid 2007 dollars): \$161 per LF

Quantities per 1,000 LF	
Length	1,000
Width	30
Surface Area (SF)	30,000
Convert SY	3,333
Pavement Thickness Overlay (in)	0.0
Tons (Overlay)	0
Aggregate Base Thickness(Ft)	0.25
Volume (CY)	56
Agg Subbase Thickness (Ft)	0.75
Volume(CY)	167
Sanitary Sewer	1,000
Storm Drain - Mainline	0
Storm Drain - Cross Street	0
SMH's	4
CB's	0
Loam & Seed, width each side	5
Area SY	1,111
Typical Property Frontage	100
Estimated No. of Homes (both sides)	20
Length of Services (20-lf ea)	400
Estimated % Ledge	0.0%
Sewer/ Trench Depth - ft	8
Trench Width - ft (pipe)	4
Trench Width - ft (pavement)	6
Trench Area - SF	6,000
Trench Area - SY	667
Trench Depth - Bituminous (in)	4.0
Trench Bituminous - Tons	147
Pace (ft/day)	150
Duration (days)	7
Police Detail, Number	1
Police Detail, \$/hr	40
Police Detail, hrs/day - straight time	8
Police Detail, hrs/day - 1-1/2 time	2

- 1) Sewer installation includes control density fill in state routes, excavation, backfill, pipe installation and temp paving.
- 2) Sewer installation includes trench patch only (ie. no overlay).
- 3) Miscellaneous items include chimneys, cleanouts, erosion control, groundwater dewatering.

11  
19  
WE  
B  
11

**CONCEPT CONSTRUCTION COST ESTIMATE**  
**Town of Orleans, Massachusetts**  
**FORCEMAIN CONSTRUCTION**

REV: 7/23/2008  
 ENR CCI - 8530

NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	COST
1	6" PVC FM - TOWN	1,000	LF	\$70.00	\$70,000
2	6" PVC FM - STATE		LF	\$80.00	\$0
3	AIR RELEASE MANHOLES	1	EA	\$7,500.00	\$7,500
4					\$0
5	LOW PRESSURE FM - TOWN		LF	\$40.00	\$0
6	LOW PRESSURE FM - STATE		LF	\$60.00	\$0
7	AIR RELEASE MANHOLES		EA	\$5,000.00	\$0
8	END MANHOLE		EA	\$3,200.00	\$0
9	CONNECTION TO END MANHOLE		EA	\$500.00	\$0
10					\$0
11					\$0
12					\$0
13	LEDGE EXCAVATION	0	CY	\$125.00	\$0
14	AGGREGATE BASE (INCL. EXCAV.)	56	CY	\$18.00	\$1,000
15	AGGREGATE SUB-BASE (INCL. EXCAV.)	167	CY	\$18.00	\$3,000
16	LOAMING AND SEEDING/ CLEAN-UP	1,111	SY	\$5.00	\$5,560
17	BITUMINOUS CURBING	0	LF	\$10.00	\$0
18	HOT BIT. PAVEMENT (OVERLAY)	0	TONS	\$120.00	\$0
19	HOT BIT. PAVEMENT (TRENCH)	147	TONS	\$120.00	\$17,600
20	TRAFFIC CONTROL	1	LS	\$3,100	\$3,100
21	TEST PITS	2	EA	\$500.00	\$1,000
22	PAVEMENT MARKINGS	1	LS	\$1,000.00	\$1,000
23	GRANITE CURBING - RESET	0	LF	\$20.00	\$0
					\$110,000
	10% MISCELLANEOUS ITEMS:				\$11,000
	5% GENERAL CONDITIONS:				\$5,500
	2% BONDS & INSURANCE:				\$2,200
	5% MOB/ DEMOBILIZATION:				\$5,500
<b>TOTAL:</b>					<b>\$134,200</b>
SAY CONSTRUCTION COST (mid 2008 dollars):					\$134 per LF
SAY CONSTRUCTION COST (mid 2007 dollars):					\$126 per LF

Quantities per 1,000 LF	
Length	1,000
Width	30
Surface Area (SF)	30,000
Convert SY	3,333
Pavement Thickness Overlay (in)	0.0
Tons (Overlay)	0
Aggregate Base Thickness(Ft)	0.25
Volume (CY)	56
Agg Subbase Thickness (Ft)	0.75
Volume(CY)	167
Sanitary Sewer	1,000
Storm Drain - Mainline	0
Storm Drain - Cross Street	0
SMH's	4
CB's	0
Loam & Seed, width each side	5
Area SY	1,111
Typical Property Frontage	100
Estimated No. of Homes (both sides)	20
Length of Services (20-lf ea)	400
Estimated % Ledge	0.0%
Sewer/ Trench Depth - ft	8
Trench Width - ft (pipe)	4
Trench Width - ft (pavement)	6
Trench Area - SF	6,000
Trench Area - SY	667
Trench Depth - Bituminous (in)	4.0
Trench Bituminous - Tons	147
Pace (ft/day)	150
Duration (days)	7
Police Detail, Number	1
Police Detail, \$/hr	40
Police Detail, hrs/day - straight time	8
Police Detail, hrs/day - 1-1/2 time	2

- 1) Forcemain installation includes control density fill in state routes, excavation, backfill, pipe installation and temp paving.
- 2) Forcemain installation includes trench patch only (ie. no overlay).
- 3) Miscellaneous items include chimneys, cleanouts, erosion control.

Five 18"

# ORLEANS COMPREHENSIVE WASTEWATER MANAGEMENT PLAN

Preliminary Estimates of Capital Costs—Updated prior to Phase 5 publication as May 08 draft

Unit costs based on mid 2007

	Plan 1					Plan 2	Plan 3
	Site 241	Site 111	Site 321	Site 163	Total	Site 241	Site 193
Wastewater Flows at							
Planning Horizon, annual avg gpd							
Nauset system			125,000		125,000		
Cape Cod Bay	291,000				291,000	504,000	
Pleasant Bay		40,000		90,000	130,000		535,000
Total	291,000	40,000	125,000	90,000	546,000	504,000	535,000
Wastewater Flows at							
Planning Horizon, S-T peaks, gpd							
Peaking factor	2.5	2.8	2.6	2.7		2.4	2.4
Flow, mgd	0.728	0.112	0.325	0.243	1.083	1.000	1.062
Collection costs							
Length, 1000 ft					280	249	270
Cost, \$/ft					160	160	160
Grinder Pumps					96	78	68
Cost, \$k/pump					9	9	9
Construction cost, total, \$M					46	41	44
					1.126	1.000	1.081
Transport-to-treatment costs							
Length, 1000 ft					144	138	149
Cost, \$/ft					140	140	140
Construction cost, pipe, \$M					20.16	19.32	20.86
No. Large Pump Station					1	1	1
Cost per PS					0.90	0.90	0.90
No. Medium PS					8	5	6
Cost per PS					0.50	0.50	0.50
No. Small PS					56	56	63
Cost per PS					0.10	0.10	0.10
Construction cost, PS, \$M					10.50	9.00	10.20
Construction cost, total, \$M					30.7	28.3	31.1
					1.083	1.000	1.097
Treatment Cost							
Unit cost, \$/gpd	17	27	21	22		15	16.5
Construction cost, \$M	12.4	3.0	6.8	5.3	27.6	18.1	21.2

COMPARE TO  
FILE B



COMPARE TO  
FILE B



"FILE C"

	Plan 1				Total	Plan 2	Plan 3
	Site 241	Site 111	Site 321	Site 163		Site 241	Site 193
<b>Transport-to-disposal costs</b>							
Length, 1000 ft					34	1	7
Cost, \$/ft					140	90	120
Construction cost, pipe, \$M					4.8	0.1	0.8
No. PS					10	1	2
Cost per PS					0.25	0.20	0.30
Construction cost, PS, \$M					2.50	0.20	0.60
Construction cost, total, \$M					7.26	0.29	1.44
<b>Disposal Cost</b>							
Number of sites	1	2	4	3	10	1	2
Unit cost, \$/gpd	5	8	6	7		4	5.5
Construction cost, \$M	3.6	0.9	2.0	1.7	8.2	4.8	7.1
<b>Septage and Liquid Sludge Handling, \$M</b>							
Tri-Town Upgrading					2.4		2.4
Tri-Town Demolition						1.1	
Facilities at New Wastewater Plant						1.0	
<b>Summary of Construction Costs, \$M</b>							
Collection					45.7	40.5	43.8
Transport to treatment					30.7	28.3	31.1
Treatment					27.6	18.1	21.2
Transport to disposal					7.3	0.3	1.4
Disposal					8.2	4.8	7.1
Septage/Sludge handling					2.4	2.1	2.4
Subtotal					121.7	94.2	107.0
Eng & Cont. @ 40%					48.7	37.7	42.8
Site Investigations--treatment					0.3	0.1	0.1
Site Investigations--disposal					3.0	0.2	2.0
Land Costs--PS					5.1	4.5	4.9
Land Costs--treatment	0	0.73	0.64	0.21	1.6	0.0	2.0
Land Costs--disposal	0	1.12	9.37	0.96	11.5	0.0	1.0
Total Capital -- Apr 2007 dollars					191.8	136.7	159.7

COMPLINE  
to FILE B

→

"FILE C"

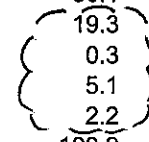
Plan 1					Plan 2	Plan 3
Site 241	Site 111	Site 321	Site 163	Total	Site 241	Site 193

Projected to mid 2008

Annual inflation rate, %	5
Years	1.25
Compounding factor	1.06

Summary of Construction Costs, \$M

Collection					48.5	43.1	46.6
Transport to treatment					32.6	30.1	33.0
Treatment					29.3	19.3	22.5
Transport to disposal					7.7	0.3	1.5
Disposal					8.7	5.1	7.5
Septage/Sludge handling					2.6	2.2	2.6
Subtotal					129.4	100.2	113.7
Eng & Cont. @ 40%					51.8	40.1	45.5
Site Investigations--treatment					0.3	0.1	0.1
Site Investigations--disposal					3.2	0.2	2.1
Land Costs--PS					5.4	4.8	5.2
Land Costs--treatment	0.00	0.78	0.68	0.22	1.7	0.0	2.0
Land Costs--disposal	0.00	1.19	9.96	1.02	12.2	0.0	1.0
Total Capital -- mid 2008 dollars					203.9	145.3	169.6



← COMPLIANCE TO FIVE D

14-May-08

"FILE C"

" FILE D "

TOWN OF ORLEANS, MASSACHUSETTS  
 COMPREHENSIVE WASTEWATER MANAGEMENT PLAN  
 W-P PROJECT NO. 10645  
 SEPTEMBER 2008 (ENR INDEX 8530)  
 PROJECT COST ESTIMATE - CORE PLAN

REV 3-31-2009, 9-10-2008

DESCRIPTION		TOTAL ESTIMATED COST
<b>ARCHITECTURAL/ STRUCTURAL</b>		
CONTROL BUILDING (SOLIDS HANDLING)	50' x 100'	\$2,500,000
HEADWORKS/ SEPTAGE RECEIVING BUILDING	40' x 60'	\$480,000
SEPTAGE EQUALIZATION TANKS		\$540,000
JUNCTION STRUCTURE NO. 1		\$50,000
PRIMARY CLARIFIERS		\$430,000
JUNCTION STRUCTURE NO. 2		\$100,000
ACTIVATED SLUDGE REACTORS		\$1,190,000
JUNCTION STRUCTURE NO. 3		\$100,000
SECONDARY CLARIFIERS		\$670,000
JUNCTION STRUCTURE NO. 4		\$50,000
DISINFECTION/ EFFLUENT PUMPING/ CHEMICAL BUILDING	40' x 60'	\$720,000
SLUDGE STORAGE TANKS (Waste, Primary, Blended)		\$670,000
<b>PROCESS</b>		
MECHANICAL SCREEN SYSTEM		\$150,000
VORTEX GRIT REMOVAL SYSTEM		\$160,000
SEPTAGE SYSTEM		\$250,000
JUNCTION STRUCTURES		\$80,000
PRIMARY TREATMENT		\$180,000
ADVANCED SECONDARY TREATMENT		\$1,190,000
DISINFECTION		\$120,000
EFFLUENT PUMPING		\$140,000
PLANT WATER/ WASHWATER		\$200,000
ON-SITE PUMP STATION		\$140,000
SLUDGE STORAGE & AERATION		\$150,000
SLUDGE DEWATERING		\$980,000
ODOR CONTROL SYSTEM		\$540,000
<b>CIVIL</b>	10.0%	\$1,180,000
<b>HVAC/ PLUMBING</b>	5.0%	\$590,000
<b>INSTRUMENTATION</b>	8.0%	\$940,000
<b>ELECTRICAL</b>	20.0%	\$2,360,000
<b>TRI-TOWN FACILITY UPGRADES</b>		-
<b>EFFLUENT DISPOSAL</b>		\$2,440,000
<hr/>		
SUBTOTAL I, CONSTRUCTION		\$19,290,000
GENERAL CONTRACTOR OH&P, GENERAL CONDITIONS, BONDS	15.0%	\$2,890,000
PUBLIC UTILITIES (ELECTRICAL, TELEPHONE, ETC.)		\$50,000
UNACCOUNTED FOR ITEMS/ DESIGN CONTINGENCY ALLOWANCE:	15.0%	\$2,900,000
TRI-TOWN FACILITY DEMOLITION		\$1,000,000
SUBTOTAL II, CONSTRUCTION COSTS		\$26,130,000
PROJECT MULTIPLIER, INFLATION TO MIDPT CONST.		n/a
<hr/>		
<b>TOTAL CONSTRUCTION - TREATMENT, DISPOSAL &amp; SEPTAGE</b>		<b>\$26,130,000</b>
*** Compare to \$26.9M in "Overall Capital Cost Model" ***		

# ORLEANS COMPREHENSIVE WASTEWATER MANAGEMENT PLAN

Preliminary Estimates of O&M Costs---Basis for May 2008 Phase 5 report

	Plan 1					Plan 2	Plan 3
	Site 241	Site 111	Site 321	Site 163	Total	Site 241	Site 193
<b>Wastewater Flows at</b>							
Planning Horizon, annual avg gpd							
Nauset system			125,000		125,000		
Cape Cod Bay	291,000				291,000	504,000	
Pleasant Bay		40,000		90,000	130,000		535,000
Subtotal	291,000	40,000	125,000	90,000	546,000	504,000	535,000
Infiltration	85,000	12,000	37,000	26,000	160,000	140,000	150,000
Total					706,000	644,000	685,000
<b>Wastewater Flows at</b>							
Planning Horizon, S-T peaks, gpd							
Peaking factor	2.5	2.8	2.6	2.7		2.4	2.4
Flow, mgd	0.940	0.146	0.421	0.313		1.55	1.64
<b>O&amp;M Costs</b>							
<b>Treatment</b>							
Labor							
Number of operators	2.5	0.8	0.8	0.8	5	4	4
Cost per operator w benefit	70,000	70,000	70,000	70,000	70,000	70,000	70,000
Annual costs	175,000	52,500	52,500	52,500	332,500	280,000	280,000
Electricity					175,000	133,000	141,000
Chemicals					60,000	50,000	55,000
Fuel					50,000	50,000	50,000
Sludge disposal					220,000	201,000	214,000
Maintenance					80,000	60,000	70,000
Equipment replacement					60,000	50,000	55,000
Laboratory and mon costs					80,000	20,000	40,000
Administrative					60,000	40,000	40,000
Engineering					40,000	30,000	30,000
Total					1,157,500	914,000	975,000
<b>Collection</b>							
Labor							
Number of operators					5	5	6
Cost per operator w benefits					60,000	60,000	60,000
Annual costs					300,000	300,000	360,000
Electricity					59,000	51,000	58,000
Maintenance					52,000	49,000	55,000
Equipment replacement					36,000	33,000	38,000
Total					447,000	433,000	511,000
Grand Total, Annual O&M					1,604,500	1,347,000	1,486,000
Unit cost, \$/yr/gpd - TOTAL					2.27	2.09	2.17
Unit cost, \$/yr/gpd - WWTF					1.64	1.42	1.42

24-Jul-08

"FILE E"