



ID	Item/Task Name/Deliverable	Delv'bl No	Start	Finish	2016											
					Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun		
1	Notice to Proceed		Wed 10/7/15	Wed 10/7/15												
2	Team Kickoff Meeting		Tue 10/20/15	Tue 10/20/15												
3	Contract Execution		Tue 10/20/15	Tue 10/20/15												
4	1 Facilities Engineering		Wed 10/7/15	Wed 4/27/16												
5	1a Disposal Site Investigations		Wed 10/21/15	Fri 3/11/16												
6	1a(1) Preliminary Site Characterization		Wed 10/21/15	Tue 11/17/15												
7	1a(2) Preliminary Hydrogeologic Investigation		Wed 10/21/15	Fri 1/22/16												
8	Proposal to Conduct Preliminary Hydrogeologic Investigation	1.01	Wed 10/21/15	Fri 11/6/15												
24	Hydrogeologic Investigation		Wed 11/11/15	Wed 12/23/15												
29	Technical Memorandum on Results of the Preliminary Hydrogeologic Investigation	1.02	Wed 10/21/15	Fri 1/22/16												
45	1a(3) Prepare GW Discharge Permit Applications		Wed 10/21/15	Fri 3/11/16												
46	Route 6A Cloverleaf Site	1.03	Wed 10/21/15	Fri 3/11/16												
62	223 Beach Road Site	1.04	Wed 10/21/15	Fri 3/11/16												
78	1b Downtown Planning		Wed 10/7/15	Wed 4/27/16												
79	1b(1) Review Previous Planning Studies		Wed 10/21/15	Tue 11/3/15												
80	1b(2) Update Existing Build-out Analysis		Wed 11/4/15	Tue 11/24/15												
81	1b(3) Land use Analysis		Wed 11/25/15	Tue 12/15/15												
82	1b(4) Tech Memo on Updated Downtown Buildout Analysis and Land Use/Market Conditions and Development Constraints	1.05	Wed 10/21/15	Fri 1/29/16												
98	1b(5) Feasibility Analysis of Future Growth		Wed 12/16/15	Tue 12/29/15												
99	1b(6) Develop Strategies to Limit Growth and Draft Regulations to Obtain Zero-Interest Financing		Wed 11/25/15	Tue 12/8/15												
100	Tech Memo on Downtown Future Growth Scenarios, Strategies to Limit Growth, and Draft Regulations to Obtain Zero Interest Financing	1.06	Wed 10/21/15	Fri 2/19/16												
116	1b(7) Buildout Analysis (Post-sewer)		Wed 12/30/15	Tue 1/19/16												
120	Tech Memo on Implications for WW Loading Impacts & Other Community Impacts in the Downtown	1.07	Wed 11/4/15	Fri 2/19/16												
136	1b(8) Develop Future WW Flows with Timing/Volumes, Biosolids Management		Wed 10/7/15	Tue 10/20/15												
137	Tech Memo on Management of Future Downtown WW Flows & Biosolids	1.08	Wed 11/4/15	Fri 2/19/16												
153	1b(9) Summary Report		Mon 11/23/15	Wed 4/27/16												
169	1b(10) Downtown Planning Workshop with BOS		Thu 3/17/16	Wed 3/30/16												
173	1c Facilities Preliminary Design		Wed 10/21/15	Fri 3/4/16												
174	1c(1) Collection System		Wed 10/21/15	Tue 12/29/15												
179	Collection System Tech Memo	1.09	Wed 10/21/15	Fri 3/4/16												
195	1c(2) Wastewater		Wed 11/4/15	Tue 12/29/15												
200	Wastewater Handling Tech Memo	1.10	Wed 10/21/15	Fri 3/4/16												
216	1c(3) Groundwater Disposal		Mon 1/25/16	Fri 2/12/16												
218	Groundwater Disposal Tech Memo	1.11	Wed 10/21/15	Fri 3/4/16												
234	1c(4) Water Reuse Systems		Wed 10/21/15	Fri 11/20/15												
239	Water Reuse Systems Tech Memo	1.12	Wed 10/21/15	Fri 3/4/16												
255	1d Cost Estimating		Wed 10/21/15	Tue 2/16/16												
259	Tech Memo on Updated Capital and O&M Cost Estimates	1.13	Wed 10/21/15	Fri 3/4/16												
275	2 Tri-Town Transition Requirements		Wed 10/21/15	Fri 5/6/16												
276	2a Interim Use Options		Wed 10/21/15	Fri 11/13/15												
277	Tech Memo on Interim Use Option	2.01	Wed 10/21/15	Fri 11/13/15												

Project: Orleans - Water Quality and Wastewater Planning Milestone Schedule
Date: Wed 10/21/15

Task  Milestone  Summary  Progress 

ID	Item/Task Name/Deliverable	Delv'bl No	Start	Finish	2016											
					Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun		
281	2b Coordinate with MassDEP		Wed 10/21/15	Fri 5/6/16												
282	2c Demolition Design		Wed 10/21/15	Fri 2/12/16												
283	Tech Memo on Potential Cost Savings for Concurrent Demolition and Construction	2.02	Wed 10/21/15	Fri 11/13/15												
287	Tech Memo on Demolition of Existing Facility	2.03	Wed 10/21/15	Fri 2/12/16												
291	2d Procurement Planning Support		Wed 10/21/15	Thu 1/7/16												
292	Materials to be provided for Procurement Workshop	2.04	Mon 1/11/16	Wed 2/24/16												
293	Tech Memo on Procurement Recommendations	2.05	Wed 10/21/15	Fri 3/11/16												
297	3 Demonstration Project Design and Implementation		Wed 10/21/15	Fri 2/19/16												
298	3a Floating Constructed Wetlands		Wed 10/21/15	Wed 2/3/16												
299	3a(1) Characterize Constructed Wetland Sites		Wed 10/21/15	Fri 11/6/15												
300	Tech Memo on Site Characterization for Floating Constructed Wetland	3.01	Wed 10/21/15	Wed 12/23/15												
304	3a(2) Develop Preliminary Engineering Work Plan for Floating Constructed Wetland Site(s)		Wed 10/21/15	Wed 12/2/15												
305	Preliminary Engineering Work Plan for Floating Constructed Wetland Site(s)	3.02	Wed 10/21/15	Wed 2/3/16												
309	3b Aquaculture/Shellfish Propagation		Wed 10/21/15	Fri 1/15/16												
310	3b(1) Characterize Aquaculture/Shellfish Sites		Wed 10/21/15	Mon 10/26/15												
311	Tech Memo on Site Characterization for Aquaculture/Shellfish Propagation	3.03	Wed 10/21/15	Fri 1/15/16												
315	3b(2) Develop Preliminary Engineering Design and Work Plan for Preferred Aquaculture/Shellfish Site(s)		Wed 10/21/15	Fri 11/13/15												
316	Preliminary Engineering Design and Work Plan for Preferred Aquaculture/Shellfish Site(s)	3.04	Wed 10/21/15	Fri 1/15/16												
320	3c Permeable Reactive Barriers		Wed 10/21/15	Fri 2/19/16												
321	3c(1) Characterize Permeable Reactive Barrier Sites (up to four, including the Town Landfill)		Wed 10/21/15	Fri 10/30/15												
322	Tech Memo on Site Characterization for Permeable Reactive Barriers	3.05	Wed 10/21/15	Fri 1/22/16												
326	3c(2) Preliminary Engineering Design and Work Plan for Preferred Permeable Reactive Barrier Site(s)		Wed 10/21/15	Tue 11/10/15												
327	3c(2) Preliminary Engineering Design and Work Plan for Preferred Permeable Reactive Barrier Site(s) (up to two sites including Town Landfill)	3.06	Wed 10/21/15	Thu 1/14/16												
331	Underground Injection Control (UIC) Permit Deliverable	3.07	Mon 11/2/15	Fri 2/19/16												
334	4 Adaptive Management Plan Implementation		Wed 10/21/15	Fri 5/6/16												
335	4a Water Quality Monitoring & Modeling		Wed 10/21/15	Fri 5/6/16												
336	4a(1) Baseline Monitoring		Wed 10/21/15	Fri 5/6/16												
337	Tech Memo on Consolidation & Comparison of WQ Data with MEP Baselines	4.01	Wed 10/21/15	Mon 1/25/16												
341	4a(2) Long Term Waterbody Monitoring		Wed 10/21/15	Fri 5/6/16												
342	Tech Memo on Recommendations for Long Term WQ Monitoring	4.02	Wed 10/21/15	Mon 2/15/16												
346	4a(3) Non-Structural Technology Performance Analysis		Wed 10/21/15	Fri 5/6/16												
347	Tech Memo on the WQ Sampling Program	4.03	Wed 10/21/15	Mon 2/22/16												
351	4a(4) MEP Study Update Monitoring		Wed 10/21/15	Fri 5/6/16												
352	Tech Memo on Applicability of Consolidating Existing Data & Updating the MEP Model	4.04	Wed 10/21/15	Fri 3/4/16												
356	4a(5) MEP Model Update and Implementation Analyses		Wed 10/21/15	Fri 5/6/16												
357	Tech Memo on MEP Model Update Coordination	4.05	Wed 10/21/15	Fri 3/11/16												
361	4a(6) Stormwater and Fertilizer Program Monitoring		Wed 10/21/15	Fri 5/6/16												
362	Tech Memo on Incorporating Findings from Stormwater and Fertilizer Monitoring Program	4.06	Wed 10/21/15	Fri 3/4/16												
366	4b MEP Study and Report Updates		Wed 10/21/15	Fri 3/11/16												
367	Draft MEP Study and Report Update	4.07	Wed 10/21/15	Mon 2/29/16												
371	Final MEP Study and Report Update	4.08	Wed 10/21/15	Fri 3/11/16												

Project: Orleans - Water Quality and Wastewater Planning Milestone Schedule
Date: Wed 10/21/15

Task  Milestone  Summary  Progress 

ID	Item/Task Name/Deliverable	Delv'bl No	Start	Finish	2016												
					Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun			
375	5 Financial Evaluation		Wed 10/21/15	Fri 3/18/16													
376	5a Revenue Generating Options		Wed 10/21/15	Thu 12/10/15													
377	5a(1) Review & Update Total Revenue Requirement		Wed 10/21/15	Wed 10/21/15													
378	5a(2) Review & Update Capital and Operating Offsets		Thu 10/22/15	Thu 10/22/15													
379	5a(3) Review & Update Capital, Operating, Renewal & Replacement, and Debt Service Reserves		Fri 10/23/15	Fri 10/23/15													
380	5a(4) Review & Update User Charges Requirements for the Three Towns		Mon 10/26/15	Mon 10/26/15													
381	5a(5) Run Scenarios		Tue 10/27/15	Tue 10/27/15													
382	5a(6) Develop Revenue Generation Plan		Wed 10/28/15	Wed 10/28/15													
383	Tech Memo on Revenue Generating Options and Revenue Generating Plan	5.01	Wed 10/21/15	Thu 12/10/15													
387	5b Financing Options		Wed 10/21/15	Thu 1/28/16													
388	5b(1) Review & Update Long- and Short-Term Financing Sources and Terms		Fri 12/11/15	Fri 12/11/15													
389	5b(2) Review & Update Capital Outlay Assumptions		Mon 12/14/15	Mon 12/14/15													
390	5b(3) Review & Update Reserve Financing Assumptions		Tue 12/15/15	Tue 12/15/15													
391	5b(4) Develop/Refine Financing Option Plan		Wed 12/16/15	Wed 12/16/15													
392	Tech Memo of Evaluation of SRF and Other Financing Options; Development/Refinement of Financing Option Plan	5.02	Wed 10/21/15	Thu 1/28/16													
396	5c Program Cost Impact Assessment		Fri 1/29/16	Fri 3/18/16													
397	5c(1) Run Program Cost Impact Assessments		Fri 1/29/16	Wed 2/3/16													
398	5c(2) Run Revenue Scenarios		Thu 2/4/16	Tue 2/9/16													
399	5c(3) Compile Revenue Proof		Wed 2/10/16	Mon 2/15/16													
400	5c(4) Review & Update/Enhance Affordability Model Functionality		Tue 2/16/16	Fri 2/19/16													
401	5c(5) Run Affordability Scenarios		Mon 2/22/16	Thu 2/25/16													
402	Financial Model Update Deliverable	5.03	Fri 2/26/16	Fri 3/4/16													
403	5c(6) Refine Cost Impact Assessments		Mon 3/7/16	Fri 3/11/16													
404	Tech Memo on Program Cost Impact Assessment & Affordability	5.04	Mon 3/14/16	Fri 3/18/16													
405	5d Public Private Partnership Options		Mon 11/16/15	Fri 3/18/16													
406	5d(1) Conduct Workshop with BOS regarding P3 Opportunities		Mon 11/16/15	Fri 11/27/15													
407	5d(2) Identify & Evaluate Potential Private Partners and Investors		Mon 11/30/15	Fri 12/18/15													
408	5d(3) Determine Viability of Further P3 Evaluation		Mon 12/21/15	Fri 1/1/16													
409	5d(4) Memo Summarizing Options for Public-Private financing Options		Mon 1/4/16	Fri 1/22/16													
410	5d(5) Integrate P3 Options into the Financing Plan		Mon 1/25/16	Fri 2/19/16													
411	Tech Memo Summarizing P3 Options and Revenue Impact	5.05	Mon 2/22/16	Fri 3/18/16													
412	Meeting & Present Financial Evaluation to BOS	5.06	Mon 1/4/16	Fri 2/12/16													
413	6 Regulatory Review and Coordination		Wed 10/21/15	Fri 4/29/16													
414	6a Coordinate with Cape Cod Commission (CCC)		Wed 10/21/15	Fri 2/19/16													
415	6a(1) Review Nitrogen Reduction Assumptions		Wed 10/21/15	Tue 11/3/15													
416	6a(2) Agree on DRI Conditions for Compliance		Wed 11/4/15	Tue 11/17/15													
417	6a(3) Review Work Plans and Demo Projects for 2015		Wed 11/18/15	Tue 12/1/15													
418	6a(4) Coordinate Financial Analyses and Funding Support for Plant Implementation		Wed 12/2/15	Tue 12/15/15													
419	6a(5) Facilitate Definition of CCC and MEPA Requirements for Amended CWMP		Wed 12/16/15	Tue 12/29/15													
420	Tech Memo Summarizing Compliance Requirements to Meet CCC Approval	6.01	Wed 10/21/15	Fri 2/19/16													
424	6b Coordinate with MassDEP		Wed 10/21/15	Fri 4/29/16													
425	6b(1) Detailed review of the Revised CWMP		Wed 10/21/15	Wed 11/4/15													

ID	Item/Task Name/Deliverable	Delv'bl No	Start	Finish	2016											
					Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun		
426	6b(2) Coordinate Pilot and Demonstration Projects		Thu 11/5/15	Fri 11/20/15												
427	Tech Memo Summarizing MassDEP Compliance Requirements	6.02	Wed 10/21/15	Fri 2/19/16												
431	6b(3) Assess State, Federal, and Other Regulatory Requirements & Issues		Wed 10/21/15	Tue 12/1/15												
432	Tech Memo on Assessment of State & Federal Requirements & Regulatory Issues Related to Modifications of Water Quality Standards for Rock Harbor Creek	6.03	Wed 10/21/15	Tue 2/23/16												
436	6b(4) Coordinate with Other Agencies		Wed 10/21/15	Fri 2/5/16												
437	Tech Memo on Compliance Requirements of Various Agencies	6.05	Wed 10/21/15	Fri 4/29/16												
441	Tech Memo Summarizing MassDEP and CCC Comments on the Draft CWMP Concept	6.04	Wed 10/21/15	Wed 4/6/16												
445	7 Preparation of the Amended CWMP		Wed 10/21/15	Fri 5/27/16												
446	7a Prepare Draft Amended CWMP		Wed 10/21/15	Fri 3/11/16												
447	Draft CWMP	7.01	Wed 10/21/15	Fri 3/11/16												
451	Response Summary to Draft Amended CWMP Issues and/or Questions (Deliverable)	7.02	Mon 3/14/16	Fri 4/29/16												
452	7b Prepare Final Amended CWMP		Mon 11/23/15	Fri 5/27/16												
453	Final Amended CWMP	7.03	Mon 11/23/15	Fri 5/27/16												
459	Meeting & Present Final CWMP to BOS	7.04	Mon 5/2/16	Mon 5/2/16												
460	Town Meeting Warrant Materials Due		Fri 3/4/16	Fri 3/4/16												
461	Town Meeting		Mon 5/9/16	Mon 5/9/16												