

EXHIBIT C

CHANGE ORDER FORM

In accordance with the Purchase Order, dated October 20, 2015, and the Design Engineering Services Agreement dated October 15, 2015, between Town of Orleans, Massachusetts ("Client"), and AECOM Technical Services, Inc. a California corporation, ("AECOM"), this Change Order, with an effective date of 10/01, 2018, modifies that Agreement as follows:

1. **Changes to the Services:**

1.1 Attachment 1 – Scope of Services, EXHIBIT A – SERVICES, Page 14, Article 10. FY17 Planning and Implementation; and Task No. 11 - FY18 Planning and Implementation, add, delete and/or revised the Scope of Work as follows:

10. **FY 17 Planning and Implementation**

**Task 10.1.H Update of Amended CWMP**

- ❖ Under Task 10.1.H, delete the Final Updated Amendment CWMP and associated Board of Selectman Meeting Plan Scope of Work.

**Task 10.2 Adaptive Management Implementation**

- ❖ Delete the scope of work for the following subtasks:
  - 10.2.A Water Quality Monitoring: MEP Compliance
  - 10.2.B Water Quality Monitoring: Project Baselines
  - 10.2.C MEP Study and Report Updates

11. **FY 18 Planning and Implementation**

**Task 11.1.B Demonstration Projects-Design and Implementation**

- ❖ Under Task 11.1.B.2, delete the FY18 Town Landfill Nitrogen Assessment Future Action Plan Scope of Work.
- ❖ Under Task 11.1.B.2, add the FY18 Town Landfill Nitrogen Assessment Observation of Swale Installation Scope of Work that consists of providing up to 64 hours of shop drawings reviews, coordination and part time observation of the construction of the Swale at the Town Landfill.

**Task 11.2 Adaptive Management Implementation**

- ❖ Delete the scope of work for the following subtasks:
  - 11.2.A Water Quality Monitoring: MEP Compliance
  - 11.2.B Water Quality Monitoring: Project Baselines
  - 11.2.C MEP Study and Report Updates
  - 11.2.F Revise Comprehensive Plan for Cedar Pond and Rock Harbor Creek Watershed

**Task 11.3.B Public Engagement Coordination**

- ❖ Delete the remaining scope of work regarding Board of Selectmen Workshops, OWQAP Meetings and Other Public Meetings / Status Reports / Flyers.



TOWN OF ORLEANS  
PURCHASE ORDER

THIS ORDER NUMBER MUST  
APPEAR ON ALL INVOICES,  
PACKING LISTS, AND PGKS.

ORDER  
NUMBER

3916

DISTRIBUTION - WHITE - YELLOW - PINK - GREEN - GOLD

1. INVOICE MUST BE SENT IN DUPLICATE AND MUST INCLUDE VENDOR'S S.S. OR F.I.D. NO.
2. ORDER NUMBER MUST APPEAR ON INVOICE.
3. OUR TAX EXEMPT NO. E 046 001 258.
4. ISSUE A BILL FOR EACH P.O. SEPERATELY.
5. INVOICES MUST SHOW NUMBER OF UNITS AND UNIT PRICE FOR EACH ITEM.
6. SHIP ALL GOODS PREPAD UNLESS OTHERWISE DIRECTED.
7. THIS P.O. EXPIRES 10 DAYS AFTER REQUIRED DELIVERY DATE.
8. TOWN OF ORLEANS WILL NOT BE LIABLE FOR ANY GOODS RECEIVED WITHOUT AN AUTHORIZED PURCHASE ORDER.

SHIP  
PREPAID  
TO

TO:

AECOM  
9 JONATHAN BOURNE DRIVE  
POCASSET, MA 02559

|                          |               |                           |                                   |  |
|--------------------------|---------------|---------------------------|-----------------------------------|--|
| DATE OF ORDER<br>9/27/18 | VENDOR<br>119 | DEPARTMENT<br>Town Admin. | REQUIRED DELIVERY DATE<br>6/30/19 | ACCOUNT TO BE CHARGED<br>35175068 589147 |
|--------------------------|---------------|---------------------------|-----------------------------------|--|

I CERTIFY THAT THIS PURCHASE ORDER COMPLIES FULLY WITH THE TOWN OF ORLEANS PURCHASING PROCEDURES AND CORRESPONDING STATE STATUTES THAT ADEQUATE FUNDS EXIST FOR THIS PURCHASE.

DEPT. HEAD  
SIGNATURE

| ITEM NO. | QUANTITY | UNIT | CATALOG NO. | DESCRIPTION  | UNIT PRICE | REC'D | AMOUNT     |
|----------|----------|------|-------------|--|------------|-------|------------|
|          |          |      |             | WATER QUALITY + WASTEWATER PLANNING SERVICES, IN ACCORDANCE WITH CHANGE ORDER No. 8. |            |       | 383,500.00 |

THIS PURCHASE IS NOT VALID UNLESS SIGNED  
BY TOWN ADMINSTRATOR AND FINANCE  
DIRECTOR.

\_\_\_\_\_  
DIRECTOR OF FINANCE      10/11/18  
DATE

\_\_\_\_\_  
TOWN ADMINISTRATOR      10/11/18  
DATE

**Task 11.3.C.A Procurement Development**

- ❖ Delete the remaining scope of work regarding Periodic meetings with the Downtown Area property owners.

1.2 Attachment 1 – Scope of Services, EXHIBIT A – SERVICES, Page 14, add the following new Article:

**“12. FY 19 Planning and Implementation**

**Task 12.1 - Continued Planning and Engineering**

**12.1.A Effluent Disposal - Downtown Area – For Reference Only**

**12.1.B Demonstration Projects-Design and Implementation**

**12.1.B.1 Shellfish/Aquaculture**

- ❖ Lonnie's Pond
  - Perform O&M and monitoring at Demonstration Site (6 months).
  - Prepare Year 3 report.

**12.1.B.2.A Permeable Reactive Barriers (PRB)**

- ❖ Continued monitoring of PRB at Eldredge Park to confirm performance and nitrogen removal achieved; and Planning for other PRB Demonstration Sites and full scale.
- ❖ Eldredge Park PRB Demonstration Test
  - Groundwater monitoring of installed demonstration project.
    - Collect groundwater levels at 43 monitoring wells.
    - Conduct quarterly sampling at 34 monitoring wells.
    - Perform quarterly analysis at 34 monitoring wells for: Total N; Nitrate; Ammonia; Nitrite; Fe and MN (dissolved); DOC; Sulfate; Methane; and Chloride.
    - Prepare and submit quarterly monitoring reports including an evaluation of monitoring data collected and summary of PRB Demonstration Test performance.
  - Assumptions
    - Access to be provided by Town of Orleans and Nauset Regional Schools.
    - The existing monitoring well network installed will be sufficient to monitor PRB performance.

**12.1.B.2.B Permeable Reactive Barriers (PRB) Watershed Planning**

- ❖ Conduct PRB Watershed Planning in order to reduce nitrogen based on the results of the Eldredge Park PRB Demonstration Test.
- ❖ PRB Watershed Planning
  - Preliminary Site Selection
    - Define target geographic areas and confirm nitrogen load reduction objectives.
    - Coordinate with Orleans Implementation Team, Eastham and the Pleasant Bay Alliance for opportunities with shared objectives.

- Develop screening criteria and screen 10 candidate PRB sites based on: (a) Location within priority target watershed; and (b) Estimate nitrogen load reduction based on available data review and screening tools.
- Assess feasibility of implementation including geologic conditions and land use and access constraints.
- Prepare a Technical Memorandum with recommended PRB Locations.
- Regulatory and Local Coordination
  - Coordinate with the US EPA, MassDEP, Cape Cod Commission, Orleans, Eastham and the Pleasant Bay Alliance and the public to vet locations. Setup and coordinate up to 5 meetings with Town and Regulatory Stakeholders to discuss preliminary locations.
  - Develop Implementation specific web page with linked information regarding the PRB Implementation Project.
  - Prepare a Regulatory Coordination Memorandum based on various: Telephone conversations, meetings and correspondence with regulatory agencies.
- Site Assessment
  - Coordinate planning and implementation of assessments.
  - Confirm the nature of hydrogeological conditions and nitrogen mass flux including: (a) Assessment of groundwater flow direction; (b) Profile of hydraulic conductivity; and (c) Groundwater chemistry data necessary for PRB design.
  - Review data and revise the Conceptual Site Model for each location.
  - Prepare location specific assessment reports including baseline monitoring plans for each viable location.

**12.1.B.3 Nitrogen Removing Barriers (NRB) - For Reference Only**

**12.1.C Facilities Engineering - For Reference Only**

**12.1.D WWTF/Septage Facility Construction - For Reference Only**

**12.1.E Tri-Town Transition Requirements - For Reference Only**

**12.1.F Regulatory Coordination - For Reference Only**

**12.1.G Meetinghouse Pond Area Utility Survey - For Reference Only**

**12.1.H Update of Amended CWMP - For Reference Only**

**Task 12.2 – Adaptive Management Implementation**

**12.2.A Water Quality Monitoring: MEP Compliance - For Reference Only**

**12.2.B Water Quality Monitoring: Project Baselines - For Reference Only**

**12.2.C MEP Study and Report Updates - For Reference Only**

**12.2.D Namskaket and Little Namskaket Adaptive Plans - For Reference Only**

**12.2.E Stormwater and Fertilizer Management - For Reference Only**

12.2.F **Revise Comprehensive Plan for Cedar Pond and Rock Harbor Creek Watershed - For Reference Only**

12.2.G **Water Quality Remediation and Protection Plans for Priority Freshwater Ponds - For Reference Only**

**Task 12.3 Program Management**

12.3.A **Technical Oversight and Program Management - For Reference Only**

12.3.B **Public Engagement Coordination**

❖ Description: Continuation of public engagement in order to keep stakeholders apprised of overall status of the Project, increase the understanding of the technical approach and assumptions, obtain stakeholder feedback.

❖ Subtasks

- Prepare for and attend Workshops
- Prepare for and attend Other Public Workshops.

❖ Assumptions

- Up to 8 Workshops.
- Up to 8 Other Public Meetings.

12.3.C **Procurement Development and Financial Analysis**

12.3.C.1 **Procurement Development – For Reference Only**

12.3.C.2 **Financial Analysis**

❖ Description: Continued development of financial model and additional model runs to determine costs associated with various scenarios based on changes to the overall Program.

❖ Subtasks

- Modify the Financial Model – Part 1
  - ✓ Create outputs that separate the costs associated with Downtown Area and Meetinghouse Pond Area.
  - ✓ Recalculate sewer units for both Residential and Commercial using the following: (a) Property valuations; (b) Water Usage; and (c) Building Square Footage.
- Prepare and present cost tables and visual to display the results with similar model runs compared on one graph.
- Prepare for and attend up to two Financial Model Workshops with the BOS and/or Finance Committee.
- Update the Financial Model User Manual.
- Provide input for the Sewer Assessment Bylaw regarding Sewer Privilege Fees and Compensatory Privilege Fees under valuation vs. water usage methods.
- Modify the Financial Model – Part 2
  - ✓ As requested and as funding allows.

❖ Assumptions

- Any new file inputs to the model are in a format that does not change across iterations.
- Development of two new model run cost tables that show costs to properties associated with the sewerage program based on model runs.

**12.3.D Regulatory Coordination – For Reference Only**

**12.3.E Document Accessibility**

❖ Description: Standardize the arrangement and description of AECOM contracts, deliverables, and related documents across the Orleans Water Quality Advisory Panel (OWQAP) website, improving ease of access by the public and other interested parties.

❖ Subtasks

- Create a standardized AECOM landing page on the OWQAP website.
  - ✓ Coordinate with AECOM and Meet with Town IT staff: (a) Explain project goals, discuss potential workflows; and (b) Discuss permissions necessary to make updates to Town website.
  - ✓ Reorganize the current AECOM "Contract and Deliverables" landing page: (a) Create a general AECOM tab on the left side of the OWQAP homepage, ideally replacing the current FY17 and FY18 tabs; (b) Update page to include meeting minutes, presentations, and other relevant documents not currently available through the website; and (c) Relocate documents to applicable FY landing pages.
  - ✓ Create a standardized AECOM landing page for each Fiscal Year, using the current "AECOM FY16 Contract & Deliverables" landing page as a template: (a) Design a landing page linking to documents for each contract task, reducing clutter and minimizing reliance on file names in locating material; (b) Organize contract task documents under subheadings where appropriate; and (c) Standardize the arrangement and display of similar documents across Fiscal Years ensuring that website users can track progress made throughout the project.
- Arrange AECOM deliverables and additional relevant documents on site- and subject-specific pages.
  - ✓ Consult with AECOM and Town to ascertain whether current subject and site-specific pages are sufficient.
  - ✓ Survey AECOM work products to determine which documents belong on each page.
  - ✓ Populate subject pages with relevant AECOM documents: (a) Write brief descriptive paragraph introducing each page; and (b) Arrange documents related to each subject by Fiscal Year and contract task.

**2. Change to Deliverables:**

2.1 Attachment 1 – Scope of Services, List of Deliverables, add the following new Articles:

| Number   | Deliverable                                | Draft | Final |
|--|--|-------|-------|
| <b>Task No. 11 - FY 18 Planning and Implementation</b>                   |  |       |       |
| <b>11.1.B.2 - Permeable Reactive Barriers (PRB)</b>                      |  |       |       |
| <b>Town Landfill Nitrogen Assessment</b>                                 |  |       |       |
|  | o Swale Installation                       | ---   | 100%  |
| <b>Task No. 12 - FY 19 Planning and Implementation</b>                   |  |       |       |
| <b>Task 12.1 - Continued Planning and Engineering</b>                    |  |       |       |
| <b>12.1.A - Effluent Disposal – Downtown Area – For Reference Only</b>   |  |       |       |
| <b>12.1.B - Demonstration Projects-Design and Implementation</b>         |  |       |       |
| <b>12.1.B.1 - Shellfish/Aquaculture</b>                                  |  |       |       |
| <b>Lonnie's Pond</b>   |  |       |       |
|  | o Monthly Operation and Maintenance        | ---   | 100%  |
|  | o Project Report and BOS Meeting           | ---   | 100%  |
| <b>Kent's Point – For Reference Only</b>                                 |  |       |       |
| <b>Existing Grant Expansion – For Reference Only</b>                     |  |       |       |
| <b>Town Cove Quahog Inventory – For Reference Only</b>                   |  |       |       |
| <b>12.1.B.2.A - Permeable Reactive Barriers (PRB)</b>                    |  |       |       |
| <b>Eldredge Park PRB Demonstration Test</b>                              |  |       |       |
|  | o Quarterly groundwater monitoring Reports | ---   | 100%  |
| <b>12.1.B.2.B - Permeable Reactive Barriers (PRB) Watershed Planning</b> |  |       |       |
|  | o Preliminary Site Selection               | 75%   | 25%   |
|  | o Regulatory and Local Coordination        | ---   | 100%  |
|  | o Site Assessment                          | 75%   | 25%   |
| <b>12.1.B.3 - Nitrogen Removing Barriers (NRB) – For Reference Only</b>  |  |       |       |
| <b>12.1.C Facilities Engineering - For Reference Only</b>                |  |       |       |

| Number  | Deliverable  | Draft | Final |
|---|--|-------|-------|
| 12.1.D  | WWTF/Septage Facility Construction - For Reference Only  |       |       |
| 12.1.E  | Tri-Town Transition Requirements - For Reference Only  |       |       |
| 12.1.F  | Regulatory Coordination – For Reference Only   |       |       |
| 12.1.G  | Meetinghouse Pond Utility Survey - For Reference Only  |       |       |
| 12.1.H  | Update of Amended CWMP – For Reference Only  |       |       |
| <b>Task 12.2 – Adaptive Management Implementation</b> |  |       |       |
| 12.2.A  | Water Quality Monitoring: MEP Compliance – For Reference Only  |       |       |
| 12.2.B  | Water Quality Monitoring: Project Baselines – For Reference Only                                       |       |       |
| 12.2.C  | MEP Study and Report Updates – For Reference Only  |       |       |
| 12.2.D  | Namskaket and Little Namskaket Adaptive Plans – For Reference Only                                     |       |       |
| 12.2.E  | Stormwater and Fertilizer Management – For Reference Only  |       |       |
| 12.2.F  | Revised Comprehensive Plan for Cedar Pond and Rock Harbor Creek Watershed Reports – For Reference Only |       |       |
| 12.2.G  | Water Quality Remediation and Protection Plans for Priority Freshwater Ponds - For Reference Only      |       |       |
| <b>Task 12.3 - Program Management</b>                 |  |       |       |
| 12.3.A  | Technical Oversight and Program Management - For Reference Only  |       |       |
| 12.3.B  | Public Engagement Coordination   |       |       |
|   | o Board of Selectmen Workshops   | ---   | 100%  |
|   | o Other Public Workshops   | ---   | 100%  |



| Number   | Deliverable  | Draft | Final |
|--|--|-------|-------|
| <b>12.3.C – Procurement Development and Financial Analysis</b> |  |       |       |
| <b>Procurement Development – For Reference Only</b>            |  |       |       |
| <b>Financial Model</b>   |  |       |       |
|  | o Modify the Financial Model – Part 1.   | ---   | 100%  |
|  | o Development of two new model run cost tables that show costs to properties associated with the sewerage program based on model runs. | ---   | 100%  |
|  | o Financial Model Workshops (2) with the BOS and/or Finance Committee.   | ---   | 100%  |
|  | o Sewer Assessment Bylaw Input   | ---   | 100%  |
|  | o Modify the Financial Model – Part 2.   | ---   | 100%  |
| <b>12.3.D - Regulatory Coordination – For Reference Only</b>   |  |       |       |
| <b>12.3.E - Document Accessibility</b>                         |  |       |       |
|  | o Create Standardized AECOM Landing Page   | ---   | 100%  |
|  | o Arrange AECOM Document On Site- and Subject-Specific Pages   | ---   | 100%  |

3. **Change in Project Schedule (attach schedule if appropriate):**

Modify the time for completion from July 1, 2018 to June 30, 2019.

4. **Change in Consultant’s Compensation:**

The Services set forth in this Change Order will be performed on the following basis:

- No change to Compensation
- Time & Material (See Exhibit B for the Hourly Labor Rate Schedule)
- Time and Materials with a Not-to-Exceed amount of \$138,200. The Hourly Labor Rate Schedule is set forth in EXHIBIT B (if applicable). Services are based on 768 hours of labor plus expenses to provide the scope of services outlined in Task 12.3.B – Public Engagement Coordination. Reimbursable expenses are included in the overall Not to Exceed cap. Payment will be based on actual time and reimbursable expenses incurred.

| Number   | Deliverable                                      | Payment Amount |
|--|--|----------------|
| <b>Task No. 11 - FY 18 Planning and Implementation</b> |  |                |
| <b>Task 11.3 - Program Management</b>                  |  |                |
| <b>11.3.B - Public Engagement Coordination</b>         |  |                |
|  | o BOS Workshops                                  | \$51,709       |
|  | o OWQAP Meetings                                 | \$13,332       |
|  | o Other Public Meeting / Status Reports / Flyers | \$28,816       |
| <b>Task No. 12 - FY 19 Planning and Implementation</b> |  |                |
| <b>Task 12.3 - Program Management</b>                  |  |                |
| <b>12.3.B - Public Engagement Coordination</b>         |  |                |
|  | o Board of Selectmen Workshops                   | \$69,100       |
|  | o Other Public Meetings                          | \$69,100       |

Cost Plus Fixed Fee: [Cost \$ Numerical Amount and Fee \$ Numerical Amount]

Lump Sum of \$245,300

1. Transfer \$18,750 from Task 10.1.H - Update of Amended CWMP to 12.1.B.1 - Shellfish/Aquaculture - Lonnie's Pond (Monthly Operation and Maintenance (October 2018 through December 2018)); and 12.1.B.2.B - Permeable Reactive Barriers (PRB) Watershed Planning.
2. Transfer \$13,500 from Task 10.2 - Adaptive Management Implementation (10.2.A - Water Quality Monitoring: MEP Compliance; 10.2.B - Water Quality Monitoring: Project Baselines; and 10.2.C - MEP Study and Report Updates) to 12.1.B.1 - Shellfish/Aquaculture - Lonnie's Pond (Monthly Operation and Maintenance (October 2018 through December 2018)).
3. Transfer \$20,000 from Task 11.1.B.2 - Demonstration Projects-Design and Implementation (Town Landfill Nitrogen Assessment Future Action Plan) to 12.3.E - Document Accessibility.
4. Transfer \$73,960 from Task 11.2 - Adaptive Management Implementation (11.2.A - Water Quality Monitoring: MEP Compliance; 11.2.B - Water Quality Monitoring: Project Baselines; 11.2.C - MEP Study and Report Updates; and 11.2.F - Revise Comprehensive Plan for Cedar Pond and Rock Harbor Creek Watershed) to 12.1.B.2.B - Permeable Reactive Barriers (PRB) Watershed Planning.
5. Transfer \$54,603 from Task 11.3.B - Public Engagement Coordination to 12.1.B.2.B - Permeable Reactive Barriers (PRB) Watershed Planning.
6. Transfer \$3,000 from Task 11.3.C.A - Procurement Development to 12.1.B.2.B - Permeable Reactive Barriers (PRB) Watershed Planning.
7. Transfer \$30,200 from Task 12.2 - Adaptive Management Implementation (12.2.A - Water Quality Monitoring: MEP Compliance; 12.2.B - Water Quality Monitoring: Project Baselines; 12.2.C - MEP Study and Report Updates; and 12.2.F - Revise Comprehensive Plan for Cedar Pond and Rock Harbor Creek Watershed) to 11.1.B.2 - Permeable Reactive Barriers (PRB) - Town Landfill Nitrogen Assessment (Swale Installation); 12.1.B.2.B - Permeable Reactive Barriers (PRB) Watershed Planning; and 12.3.C - Procurement Development and Financial Analysis (Modify the Financial Model - Part 2).

Attachment 1 – Scope of Services, EXHIBIT A – SERVICES, Page 14, Article 10. FY17 Planning and Implementation (November 2016 through June 2017); Task No. 11 - FY18 Planning and Implementation, and Task No. 12 - FY19 Planning and Implementation add and/or revised the Payment Amounts as follows:

| Number  | Deliverable  | Payment Amount |
|---|--|----------------|
| <b>Task No. 10 - FY 17 Planning and Implementation</b>      |  |                |
| <b>10.1.H Update of Amended CWMP</b>                        |  |                |
|   | o Update of Amended CWMP and Executive Summary   | \$41,250       |
|   | o Meeting  | \$0            |
| <b>Task 10.2 – Adaptive Management Implementation</b>       |  |                |
| <b>10.2.A - Water Quality Monitoring: MEP Compliance</b>    |  |                |
|   | o Review of the data collection and analysis completed by Others Technical Memorandum  | \$0            |
|   | o Coordination Meetings  | \$0            |
| <b>10.2.B - Water Quality Monitoring: Project Baselines</b> |  |                |
|   | o Review of the baseline data and initial operational data compiled by Others Technical Memorandum                                     | \$0            |
|   | o Coordination Meetings  | \$0            |
| <b>10.2.C - MEP Study and Report Updates</b>                |  |                |
|   | o Technical Memorandum on the review of the Nauset Harbor MEP model update and model results by Others                                 | \$0            |
|   | o Coordination Meetings  | \$0            |
| <b>Task No. 11 - FY 18 Planning and Implementation</b>      |  |                |
| <b>11.1.B.2 - Permeable Reactive Barriers (PRB)</b>         |  |                |
| <b>Town Landfill Nitrogen Assessment</b>                    |  |                |
|   | o Scope of work and associated cost of additional Long Term Nitrogen Response Action Plan items for funding at future Town Meeting(s). | \$0            |
|   | o Swale Installation   | \$10,000       |
| <b>Task 11.2 – Adaptive Management Implementation</b>       |  |                |
| <b>11.2.A - Water Quality Monitoring: MEP Compliance</b>    |  |                |
|   | o Review of the data collection and analysis completed by Others Technical Memorandum  | \$0            |
|   | o Coordination Meetings  | \$0            |
| <b>11.2.B - Water Quality Monitoring: Project Baselines</b> |  |                |

| Number   | Deliverable   | Payment Amount |
|--|---|----------------|
|  | o Review of the baseline data and initial operational data compiled by Others Technical Memorandum                                      | \$0            |
|  | o Coordination Meetings   | \$0            |
| <b>11.2.C - MEP Study and Report Updates</b>   |   |                |
|  | o Technical Memorandum on the review of the Nauset Harbor MEP model update and model results by Others                                  | \$0            |
|  | o Coordination Meetings   | \$0            |
| <b>11.2.F - Revise Comprehensive Plan for Cedar Pond and Rock Harbor Creek Watershed</b> |   |                |
|  | o Technical Memorandum on the review of the Revised Comprehensive Plan for Cedar Pond and Rock Harbor Creek Watershed Reports by Others | \$0            |
|  | o Amended CWMP for Rock Harbor Creek Watershed  | \$0            |
|  | o Coordination Meetings   | \$0            |
| <b>11.3.C - P3 Development and Financial Analysis</b>                                    |   |                |
| <b>Procurement Development</b>   |   |                |
|  | o Periodic meetings with the Downtown area property owners.   | \$20,200       |
| <b>Task No. 12 - FY 19 Planning and Implementation</b>                                   |   |                |
| <b>Task 12.1 - Continued Planning and Engineering</b>                                    |   |                |
| <b>12.1.A - Effluent Disposal – Downtown Area – For Reference Only</b>                   |   |                |
| <b>12.1.B - Demonstration Projects-Design and Implementation</b>                         |   |                |
| <b>12.1.B.1 - Shellfish/Aquaculture</b>  |   |                |
| <b>Lonnie’s Pond</b>   |   |                |
|  | o Monthly Operation and Maintenance   | \$102,000      |
|  | o Project Report and BOS Meeting  | \$42,800       |
| <b>Kent’s Point – For Reference Only</b>   |   |                |
| <b>Existing Grant Expansion – For Reference Only</b>                                     |   |                |
| <b>Town Cove Quahog Inventory – For Reference Only</b>                                   |   |                |
| <b>12.1.B.2 - Permeable Reactive Barriers (PRB)</b>                                      |   |                |
| <b>Eldredge Park PRB Demonstration Test</b>  |   |                |
|  | o Quarterly groundwater monitoring Reports  | \$100,000      |

| Number | Deliverable   | Payment Amount |
|--------|---|----------------|
|        | <b>12.1.B.2.B - Permeable Reactive Barriers (PRB) Watershed Planning</b>  |                |
|        | o Preliminary Site Selection  | \$37,113       |
|        | o Regulatory and Local Coordination   | \$24,210       |
|        | o Site Assessment   | \$80,690       |
|        | <b>12.1.B.3 - Nitrogen Removing Barriers (NRB) – For Reference Only</b>   |                |
|        | <b>12.1.C - Facilities Engineering – For Reference Only</b>   |                |
|        | <b>12.1.D - WWTF/Septage Facility Construction - For Reference Only</b>   |                |
|        | <b>12.1.E - Tri-Town Transition Requirements - For Reference Only</b>   |                |
|        | <b>12.1.F - Regulatory Coordination – For Reference Only</b>  |                |
|        | <b>12.1.G - Meetinghouse Pond Utility Survey - For Reference Only</b>   |                |
|        | <b>12.1.H Update of Amended CWMP – For Reference Only</b>   |                |
|        | <b>Task 12.1.2 – Adaptive Management Implementation</b>   |                |
|        | <b>12.2.A - Water Quality Monitoring: MEP Compliance - For Reference Only</b>                                     |                |
|        | <b>12.2.B - Water Quality Monitoring: Project Baselines - For Reference Only</b>                                  |                |
|        | <b>12.2.C - MEP Study and Report Updates - For Reference Only</b>   |                |
|        | <b>12.2.D - Namskaket and Little Namskaket Adaptive Plans - For Reference Only</b>                                |                |
|        | <b>12.2.E - Stormwater and Fertilizer Management – For Reference Only</b>   |                |
|        | <b>12.2.F - Revise Comprehensive Plan for Cedar Pond and Rock Harbor Creek Watershed - For Reference Only</b>     |                |
|        | <b>12.2.G - Water Quality Remediation and Protection Plans for Priority Freshwater Ponds - For Reference Only</b> |                |
|        | <b>Task 12.3 - Program Management</b>   |                |
|        | <b>12.3.A - Technical Oversight and Program Management - For Reference Only</b>                                   |                |

| Number   | Deliverable  | Payment Amount |
|--|--|----------------|
| <b>12.3.B - Public Engagement Coordination – Reimbursed via Time and Materials</b> |  |                |
| <b>12.3.C - P3 Development and Financial Analysis</b>                              |  |                |
| <b>Procurement Development – For Reference Only</b>                                |  |                |
| <b>Financial Model</b>   |  |                |
| o  | Modify the Financial Model – Part 1  | \$27,300       |
| o  | Development of two new model run cost tables that show costs to properties associated with the sewerage program based on model runs. | \$10,000       |
| o  | Financial Model Workshops (2) with the BOS and/or Finance Committee.   | \$5,000        |
| o  | Sewer Assessment Bylaw Input   | \$3,000        |
| o  | Modify the Financial Model – Part 2  | \$15,000       |
| <b>12.3.D - Regulatory Coordination – For Reference Only</b>                       |  |                |
| <b>12.3.E - Document Accessibility</b>   |  |                |
| o  | Create Standardized AECOM Landing Page   | \$10,000       |
| o  | Arrange AECOM Document On Site- and Subject-Specific Pages   | \$10,000       |

Therefore, the total authorized Compensation, inclusive of the Change Order is \$7,254,570.

| Item | Description        | Payment Amount |
|------|--------------------|----------------|
| 1    | Original           | \$990,000      |
| 2    | Change Order No. 1 | \$571,560      |
| 3    | Change Order No. 2 | \$2,734,000    |
| 4    | Change Order No. 3 | \$0            |
| 5    | Change Order No. 4 | 2,268,960      |
| 6    | Change Order No. 5 | (\$6,050)      |
| 7    | Change Order No. 6 | \$332,100      |
| 8    | Change Order No. 7 | (\$19,500)     |
| 9    | Change Order No. 8 | \$383,500      |


AECOM Technical Services, Inc.  
Pocasset, MA  
AECOM Project No. 60476644

Town of Orleans, Massachusetts  
Water Quality and Watershed Planning  
Change Order No. 8

5. **Project Impact:** None
6. **Other Changes** (including terms and conditions): None
7. All other terms and conditions of the Agreement remain unchanged.
8. Each Party represents that the person executing this Change Order has the necessary legal authority to do so on behalf of the respective Party.

**AECOM Technical Services, Inc.**

**CLIENT: Town of Orleans, MA**

  
\_\_\_\_\_  
Signature

  
\_\_\_\_\_  
Signature

Betsy Shreve-Gibb  
\_\_\_\_\_  
Printed Name

John Kelly  
\_\_\_\_\_  
Printed Name

Vice President  
\_\_\_\_\_  
Title

Orleans Town Administrator  
\_\_\_\_\_  
Title

**Address**


9 Jonathan Bourne Road  
Pocasset, MA 02559

**Address**

19 School Road  
Orleans, MA 02653

**Town Accountant's Certificate**

I hereby certify that an appropriation in the amount of this contract is available therefore and that the undersigned official of the Town has been authorized to execute said contract and approve all requisitions and change orders.

  
\_\_\_\_\_  
Signature

Cathy Doane  
\_\_\_\_\_  
Printed Name

Finance Director/Town Accountant  
\_\_\_\_\_  
Title

10/1/18  
\_\_\_\_\_  
Date

[End of Agreement]