ENVIRONMENTAL PARTNERS

February 28, 2020

Amy Walkey, LSP
Conservation Agent & Natural Resource Officer
600 Chief Justice Cushing Hwy
Scituate, MA 02066

RE: Wetlands Protection Act: Notice of Intent
Cedar Point Gravity Sewer Replacement
Town of Scituate, MA
MassDEP Transmittal No. X285691

Dear Ms. Walkey,

On behalf of the Town of Scituate's Department of Public Works, Environmental Partners Group, Inc. (Environmental Partners) is submitting this Notice of Intent for the Cedar Point Gravity Sewer Replacement project in accordance with the Massachusetts Wetlands Protection Act (M.G.L Chapter 131 Section 40), the Massachusetts Wetlands Protection Regulations (310 CMR 10.00), and The Town of Scituate Wetlands Protection Rules and Regulations (Code of Bylaws Section 30770). This submittal includes the following appendices:

- Appendix A: WPA Form 3 – Notice of Intent
- Appendix B: Notice of Intent Figures
- Appendix C: Permitting Design Plans
- Appendix D: Wetland Delineation Report
- Appendix E: Abutter Notification
- Appendix F: DEP Checklist for Stormwater Report and Supporting Documentation

Project Description and Background

The project site is located on the Cedar Point peninsula in Scituate on Lighthouse Road, Rebecca Road, and Turner Road. The existing Cedar Point gravity sewer collection system was constructed in the early 1970s and despite construction of several sewer system rehabilitation projects over the last decade, the area remains a source of excessive infiltration/inflow (I/I). Consequently, the Town of Scituate DPW is proposing to construct a new gravity sewer system for Cedar Point and its 129 existing dwellings. The locus plan included in Appendix B depicts the location of the existing gravity sewer. The elevation of the existing gravity sewer ranges from 3.20/2.53 at Rebecca Road and Lighthouse Road, respectively, to -7.30 at the intersection of Lighthouse Road and Jericho Road.

Based on record plans, the existing gravity sewer alignments on Lighthouse Road and Rebecca Road are generally located in the center of the Right-Of-Way, slightly shifted to the south-western edge of the existing pavement. The existing gravity sewer alignment on Turner Road abuts the north-east face of the Right-Of-Way and north-eastern edge of the existing pavement. Cedar Point's gravity

sewer mains will be replaced along their current alignments to the extent practicable to avoid conflicts with existing utilities and disturbance to environmentally sensitive areas. In general, the proposed gravity sewer inverts will vary slightly from existing inverts. Lengths of proposed gravity sewer replacement for each street are included in Table 1, below.

Table 1: Lengths of Gravity Sewer Replacement

Street	Length (ft)	Pipe Diameter
Lighthouse Road	2023	8-inches/10-inches
Rebecca Road	1871	8-inches
Turner Road	245	8-inches

With the primary goal of reducing infiltration and inflow, the proposed work includes removal and legal disposal of existing gravity sewer mains, services, and manholes; installation of new PVC gravity sewer mains, PVC gravity sewer services, and fiberglass manholes; installation of temporary sewer bypass systems; installation of temporary dewatering systems; installation of erosion control measures; and temporary and permanent paving. Preliminary design plans for this work are included as Appendix C.

Wetland Resources and Impacts to Wetland Resource Area

The wetland resource areas within the project area include the 100-foot Vegetated Wetland Buffer Zone, Barrier Beach – Coastal Dunes, and Land Subject to Coastal Storm Flowage as defined by 310 CMR 10 and determined by information from MassGIS and a wetland delineation/evaluation performed by Pinebrook Consulting in February 2020. Wetland resource areas adjacent to the project area include Bordering Vegetated Wetlands, Rocky Intertidal Shore, Open Water, Coastal Beaches, and Coastal Banks. The February 2020 Wetland Delineation Report is included in Appendix D. The locations of the wetland resource areas and buffer zones in relation to the project area are depicted in Appendix C. Temporary disturbance to each individual wetland resource is as follows:

- **100-foot Vegetated Wetland Buffer Zone –** Installation of the Cedar Point Gravity Sewer will require 38,577 square feet of disturbance within the 100-foot Vegetated Wetland Buffer Zone. This entire disturbance will be temporary in nature and will be limited to the duration of construction (approximately 200 working days).

- **Barrier Beach – Coastal Dunes –** Installation of the Cedar Point Gravity Sewer on Lighthouse Road will require 16,737 square feet of disturbance within Barrier Beach – Coastal Dunes. This entire disturbance will be temporary in nature and will be limited to the duration of construction. Following construction of the gravity sewer and its appurtenances, the disturbed portions of the coastal dune will be restored. It is anticipated that 360 cubic yards of dune nourishment will occur under the proposed project.

- **Land Subject to Coastal Storm Flowage –** The project in its entirety is located primarily within FEMA Floodplain Zone AE (100-year flood zone) and partially within Zone VE (High Risk Coastal Area) according to MassGIS. Installation of the Cedar Point Gravity Sewer will require 126,630 square feet of disturbance within Land Subject to Coastal Storm Flowage.

This entire disturbance will be temporary in nature and will be limited to the duration of construction. The project does not propose to alter any existing grades within this area and plans to restore the project site to existing conditions or better. Consequently, no flood storage will be lost as a result of this project. The flood zone is depicted on the FEMA Flood Zone Map in Appendix B.

- **Bordering Vegetated Wetlands –** Installation of the Cedar Point Gravity Sewer on Rebecca Road and Lighthouse Road will occur adjacent to Bordering Vegetated Wetlands located at the center of the peninsula. The proposed work will not result in direct or indirect disturbance to bordering vegetated wetlands.

- **Rocky Intertidal Shore –** Installation of the Cedar Point Gravity Sewer on Rebecca Road and Lighthouse Road will occur adjacent to the Rocky Intertidal Shore located on the northeastern and southern face of the peninsula. The proposed work will not result in direct or indirect disturbance to the Rocky Intertidal Shore.

- **Open Water –** Installation of the Cedar Point Gravity Sewer will occur adjacent to the Massachusetts Bay and Scituate Harbor, which surround the peninsula. The proposed work will not result in direct or indirect disturbance to these open waters.

- **Coastal Beaches –** Installation of the Cedar Point Gravity Sewer will occur adjacent to Coastal Beaches that surround the peninsula on all sides. The proposed work will not result in direct or indirect disturbance to coastal beaches.

- **Coastal Banks –** Installation of the Cedar Point Gravity Sewer will occur adjacent to Coastal Banks that surround the peninsula on all sides. The proposed work will not result in direct or indirect disturbance to coastal banks.

Proposed Environmental Protection Measures

To mitigate potential impacts to wetland resource areas during construction activities, the following environmental protection measures will be provided along the project route:

- Erosion and sedimentation control devices (i.e. filter sock) will be installed along the roadways adjacent to wetland resources as shown on the design sheets and detail sheets in Appendix C. These control devices will control sedimentation and erosion from the upland areas. Erosion and sedimentation control devices will be inspected daily during the construction period and will be removed from the site once the work is completed and the area is stabilized. The filter sock will be installed wherever work is performed within a buffer zone and where it will not interfere with residential traffic (i.e. at driveways).

- Stockpiles of soil or other materials will not be located within the 100-foot buffer zone of any resource area. All stockpiled soil will be ringed with staked hay bales and siltation fencing.

- Silt sacks will be installed in each catch basin within the project area to avoid transmission of sediment to downstream wetland resource areas.

- Disturbed areas within the buffer zones will be loamed and seeded with seed mix, free of fertilizers. The loam will be low nitrogen and native to the area. A minimum of 4 to 6 inches of organic topsoil and a U.S.D.A., S.C.S-approved seed mixture will be used in accordance with the measures outlined in "Vegetative Practices in Site Development: Massachusetts Conservation Guide, Volume II."

- Dewatering will be performed as necessary to lower and maintain groundwater levels below subgrades of excavations and prevent surface water runoff from entering or accumulating in excavations. The installed system will be capable of lowering and maintaining the groundwater to at least 2-feet below the bottom of the excavation and until the required utilities are installed. All discharge water from dewatering and drainage will be collected and properly disposed of in accordance with local requirements and permits.

- A DEP Checklist for Stormwater Report and Supporting Documentation is included in Appendix F and describes the project and how it complies with each of MassDEP's Stormwater Standards.

MESA Review

This project is exempt from Massachusetts Endangered Species Act (MESA) review in accordance with 321 CMR 10.14 (6) which states "construction, repair, replacement or maintenance of septic systems, private sewage treatment facilities, utility lines, sewer lines, or residential water supply wells within existing paved areas and lawfully developed and maintained lawns or landscaped areas, provided there is no expansion of such existing paved, lawn and landscaped areas." Additionally, the proposed project is not located within any Estimated Habitat of Rare Wildlife as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP).

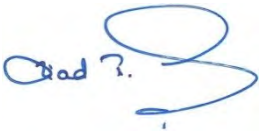
Public Notification

An advertisement for the Conservation Commission hearing will be placed in the local newspaper (Patriot Ledger), which will also be distributed to the abutters. The list of property owner's abutting the proposed project area, as well as the abutter notification letter, is included in Appendix E, and proof of mailing and a copy of the advertisement will be submitted at the time of the hearing.

We are requesting that this project be added to the March 16th Conservation Commission Meeting Agenda. We appreciate your assistance and support in preparing this Notice of Intent and look forward to working with you throughout the construction period.

If you should have any questions or require additional information, please do not hesitate to contact me at (617) 657-0283. I can also be reached via e-mail at zfk@envpartners.com.

Sincerely,



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