

## **ENVIRONMENTAL NOTES**

### **Public Water Supply Aquifer Protection Program Southington Solar One 1012 East Street, Southington Connecticut**

The proposed Facility is located within a Connecticut Department of Energy and Environmental Protection Level A Aquifer Protection Area (APA 126) associated with two (2) public drinking water wells maintained by the Southington Water Department. As a result, the following protective measures shall be followed to help avoid degradation of water quality that could affect this public water supply source. These protective measures satisfy best management practice guidelines recommended by the Connecticut Department of Health for construction activities.

It is of the utmost importance that the Contractor complies with the requirement for the installation of protective measures and the education of its employees and subcontractors performing work on the project site. This protection program shall be implemented regardless of time of year the construction activities occur. All-Points Technology Corporation, P.C. ("APT") will serve as the Environmental Monitor for this project to ensure that these protection measures are implemented properly. The Contractor shall contact Dean Gustafson, Senior Environmental Scientist at APT and the Southington Water Department personnel, at least five (5) business days prior to the pre-construction meeting. Mr. Gustafson can be reached by phone at (860) 552-2033 or via email at [dgustafson@allpointstech.com](mailto:dgustafson@allpointstech.com).

Southington Water Department personnel shall be allowed to periodically inspect this project during construction to ensure that drinking water quality is not be adversely impacted.

The public water supply aquifer protection program consists of several components: use of appropriate erosion control measures to control and contain erosion; periodic inspection and maintenance of isolation structures and erosion control measures; education of all contractors and sub-contractors prior to initiation of work on the site; protective measures; and, reporting.

#### **1. Contractor Education**

- a. Prior to work on site, the Contractor shall attend an educational session at the pre-construction meeting with APT. This orientation and educational session will consist of an introductory meeting with APT to understand the environmentally sensitive nature of the development site and the need to follow the aquifer protection measures.
- b. The Contractor will be provided with cell phone and email contacts for Southington Water Department personnel to immediately report any releases of sediment, fuel or hazardous materials.

#### **2. Erosion and Sedimentation Controls**

- a. Plastic netting used in a variety of erosion control products (i.e., erosion control blankets, fiber rolls [wattles], reinforced silt fence) has

been found to entangle wildlife, including reptiles, amphibians, birds and small mammals. No permanent erosion control products or reinforced silt fence will be used on the project. Temporary Erosion control products will use either erosion control blankets and fiber rolls composed of processed fibers mechanically bound together to form a continuous matrix (net less) or netting composed of planar woven natural biodegradable fiber to avoid/minimize wildlife entanglement.

- b. Installation of erosion control measures (i.e., conventional silt fencing, straw bales, straw wattles, compost filter socks, etc.) shall be performed by the Contractor prior to any earthwork. APT will inspect the work zone following erosion control installation to ensure erosion controls are properly installed prior to the start of earthwork.
- c. All erosion controls materials and installation/maintenance methods shall follow the 2002 *Connecticut Guidelines for Soil Erosion and Sediment Control*. The Contractor is responsible for daily inspections of erosion control measures for tears or breeches in the fabric/material and accumulation levels of sediment, particularly following storm events of 0.10 inch or greater. APT will provide periodic inspections of the erosion control measures throughout the duration of construction activities.
- d. The extent of the erosion control will be as shown on the site plans. The Contractor shall have additional erosion control materials stockpiled on site should field conditions warrant extending/reinforcing erosion control as directed by APT or other responsible agencies.
- e. All silt fencing and other erosion control devices shall be removed within 30 days of completion of work and permanent stabilization of site soils. If fiber rolls/wattles, straw bales, or other natural material erosion control products are used, such devices will not be left in place to biodegrade and shall be promptly removed after soils are stable. Seed from seeding of soils should not spread over fiber rolls/wattles as it makes them harder to remove once soils are stabilized by vegetation.

### **3. Petroleum Materials Storage and Spill Prevention**

- a. Certain precautions are necessary to store petroleum materials, refuel and contain and properly clean up any inadvertent fuel or petroleum (i.e., oil, hydraulic fluid, etc.) spill due to the project's location within the public water supply aquifer protection zone.
- b. A spill containment kit consisting of a sufficient supply of absorbent pads and absorbent material shall be maintained by the Contractor at the construction site throughout the duration of the project. In addition, a waste drum will be kept on site to contain any used absorbent pads/material for proper and timely disposal off site in accordance with applicable local, state and federal laws.

- c. Servicing of machinery should be completed outside of the public water supply aquifer protection zone.
- d. The following petroleum and hazardous materials storage and refueling restrictions and spill response procedures shall be adhered to by the Contractor.

- i. Petroleum and Hazardous Materials Storage and Refueling

- 1. Refueling of vehicles or machinery shall occur a minimum of 100 feet from wetlands or watercourses and shall take place on an impervious pad with secondary containment designed to contain fuels.
    - 2. Fuel and other hazardous materials should not be stored within the public water supply aquifer protection zone. Any fuel or hazardous materials that must be kept within the public water supply aquifer protection zone during working hours shall be stored on an impervious surface utilizing secondary containment that can retain 110% of the total volume a minimum of 100 feet from wetlands or watercourses.

- ii. Initial Spill Response Procedures

- 1. Stop operations and shut off equipment.
      - 2. Remove any sources of spark or flame.
      - 3. Contain the source of the spill.
      - 4. Determine the approximate volume of the spill.
      - 5. Identify the location of natural flow paths to prevent the release of the spill to nearby storm drains.
      - 6. Ensure that fellow workers are notified of the spill.

- iii. Spill Clean Up & Containment

- 1. Obtain spill response materials from the on-site spill response kit. Place absorbent materials directly on the release area.
      - 2. Limit the spread of the spill by placing absorbent materials around the perimeter of the spill.
      - 3. Isolate and eliminate the spill source.
      - 4. Contact Southington Water Department personnel along with other appropriate local, state and/or federal agencies, as necessary.
      - 5. Contact a disposal company to properly dispose of contaminated materials.

#### iv. Reporting

1. Complete an incident report.
2. Submit a completed incident report to Southington Water Department.

#### **4. Herbicide and Pesticide Restrictions**

- a. The use of herbicides and pesticides at this site is strictly prohibited.

#### **5. Salt Restrictions**

- a. Salt is prohibited from use at this site for the management of ice or snow. Only sand may be used.

#### **6. Reporting**

- a. Daily inspection reports (brief narrative and applicable photos on days APT performs an inspection) will be completed for compliance verification.
- b. Following completion of the construction project, APT will prepare a summary report documenting the monitoring and maintenance of erosion control measures.
- a. Any significant releases of sediment that could impact water quality will be reported to the Southington Water Department within 24 hours.