

### **3.5 Vehicle Fluids**

- a. The development of best management practices and self-audit checklist will be completed during the development of the Operations and Maintenance Program required for NPDES MS4 Permit, MCM #6.  
Estimated Cost: \$ 1500-2000
- b. Training and self-inspections can be completed in house at minimal cost to the Township. Training DVDS and other materials are also available for in-house training.
- c. A Spill Response and Prevention program is discussed in section 3.9.

### **3.6 Aqueous Cleaning**

- a. Properly designed and constructed wash area.  
  
Option 1: The wash area should be connected to the sanitary sewer.  
Estimated Cost: \$ \*        
  
Option 2: A closed loop system designed to collect, filter, and reuse wash water.  
Estimated Cost: \$ \*        
  
Option 3: Paved or concrete wash area designed with containment berms and sloping to a collection point at a determined drain line (connected to sanitary sewer).  
Estimated Cost: \$ \*        
  
Option 4: Outdoor wash area constructed with containment berms, slopes, and covering (roof)  
Estimated Cost: \$ \*
- b. Signage and Labels: Refer to report and quote prepared by New Pig for recommendations and cost estimates.
- c. A Spill Response and Prevention program is discussed in section 3.9.

### **3.7 Floor Drains**

- a. Floor Drains should be inspected and mapped.  
Estimated Cost: \$ 3000
- b. Floor Drains should be eliminated, discharged to sewer or permitted by applicable permitting agency.  
Estimated Cost: \$ \*

### **3.8 Miscellaneous Materials**

Environmental Assessment Recommendations Compilation  
Antis Township Operations & Maintenance Facility  
July 2015

- a. A Spill Response and Prevention program is discussed in section 3.9.
- b. Sorbents and Spill Kits should be available as part of the Spill Response and Prevention Program. Refer to report and quote prepared by New Pig for additional recommendations and cost estimates.
- c. Container Labels, material documentation (MSDS, SDS) and inventory records.  
Estimated Cost: Minimal. See also New Pig recommendations and cost estimate.
- d. Training is discussed in Section 3.5b

**3.9 Spill Prevention and Control**

- a. A Spill Prevention and Control Plan should be developed to complement the MS4 Operations and Maintenance Program and meet federal regulations (Part 112 Title Code of Federal Regulations). A Preparedness, Prevention and Contingency Plan should also be developed to satisfy PADEP state regulations.  
Estimated Cost: \$ 3000

**3.10 Storage Tanks**

- a. Contents of the 500 gallon waste oil tank (army tank) should be pumped out and properly disposed of by a licensed professional (e.g. Safety-Kleen) and taken out-of-service.
- b. Storage of waste oil should be stored in a tank designed and constructed in accordance with the appropriate code of practice and properly labeled.  
Estimated Cost: \$ 1800-3700 (120 gallon – 500 gallon)
- c. The 200 gallon hydraulic fluid tank should be replaced with an undamaged tank equipped with secondary containment and labeled accordingly.  
Estimated Cost: \$ 1000-2000

**3.11 Used Oil**

- a. See section 3.10a regarding used waste oil tank.
- b. Used waste oil drums should be kept indoors, staged on secondary containment pallets and labeled properly. Refer to report and quote prepared by New Pig for additional recommendations and cost estimates.
- c. Sorbents and Spill Kits discussed in Section 3.8b

**3.12 Salt Storage**

- a. Upgrades and considerations to the salt storage shed

1. replacement of the deteriorated metal sheeting of the exterior
2. Impervious surface installation including run-off controls
3. Extension of or addition to the bay area roofing to ensure loading activities are conducted under cover.

Estimated Cost: \$ \* \_\_\_\_\_

### **3.13 Stormwater Drainage System**

- a. The stormwater conveyance system should be mapped, inspected and cleaned to remove sediment and trash buildup, observe functionality and structural integrity, and non-stormwater discharges. Estimated cost is included in Section 3.7.

### **3.14 Compost Facility**

- a. Considerations for the Compost Facility
  1. Run-off controls/BMPs
    - Diversion berms,
    - bioswales,
    - rain gardens,
    - stormwater pond(s).

Estimated Cost: \$ \* \_\_\_\_\_

- b. A Spill Response and Prevention Program is discussed in Section 3.9.
- c. A regularly scheduled inspection program should be implemented and documented by Township personnel. The program will be developed as part of the Operations and Maintenance Program discussed in other sections.

\* Cost estimate for these items cannot be established without additional field reconnaissance, research, and/or engineering.



# New Pig

One Pork Avenue  
P.O. Box 304  
Tipton, PA 16684-0304

14 July 2015

Site Visit: Antis Township Municipal Building  
909 North Second Street  
Bellwood, PA

Contact: Lucas Martsof

Stiffler McGraw and Associates recently performed an environmental audit of the Antis Township Municipal Building. The Township has reviewed these findings and is looking for recommendations and solutions that can be incorporated into the best management practices, plans and procedures that they will be creating to comply with federal and state regulations and minimize pollution risks.

Compliance with clean water regulations is performance-based. This allows the facility owner to develop plans and procedures; and choose the products or solutions that they feel will be the most beneficial and effective for their situations.

## **Garage Area**

This area has five bays, each with a floor drain. Because the vehicles that may be parked in these bays can leak oil and other automotive fluids (as evidenced by staining on the concrete floor,) best management practices should be incorporated to minimize the potential for this oil to enter the floor drains.

### Recommendations / Options:

- Permanently seal floor drains to prevent fluids from entering, or use drain covers to temporarily seal drains when there is a possibility of anything other than water entering the drains.
- Label drains to indicate where they lead (sanitary sewer, navigable waters, retention pond, etc.)
- Stock absorbent mats and a spill kit in the area to enable fast response to spills
  - Post instructions and provide training for the use of these items
- Perform routine inspections in this area to ensure that debris and contaminants are not entering drains, that spill response supplies are available, etc.



# New Pig

One Pork Avenue  
P.O. Box 304  
Tipton, PA 16684-0304

Possible product recommendations for this area:

- Drainblocker Drain Covers with wall-mounted brackets
- Absorbent Mat with wall-mounted dispenser
- Spill response kit

## **Operations and Maintenance Area**

Routine maintenance and vehicle wash downs (pressure wash) are performed in this area. Virgin fluids are dispensed from drums and other containers. Waste fluids are collected for recycling in drums and tanks.

Recommendations / Options:

- Provide secondary containment for drums and storage tanks
- Store aerosol cans, paint cans and other flammable materials in Flammable Storage Cabinets
- Provide an eyewash station
- Permanently seal floor drains to prevent fluids from entering or use drain covers to temporarily seal drains when there is a possibility of anything other than water entering the drain
- Label drains
- Develop a fluid management system
- Do not permit vehicle washing (pressure washing) in this area unless a system is in place to capture wash water
- Consider purchasing pre-paid fluorescent lamp recycling service packages for spent fluorescent lamps
- Stock absorbents /spill kits
  - Post instructions for use
- Perform pressure washing on a containment pad or in an area where water can be collected
- Perform routine inspections in this area to ensure that debris and contaminants are not entering drains, spill response supplies are available, etc.

Possible product recommendations for this area:

- Drainblocker Drain covers and wall mount brackets
- Absorbent mat rolls and dispensers
- Spill kits for this areas as well as for each fleet vehicle (in case of a spill while the vehicle is offsite)
- Flammable storage cabinet
- Eye wash station
- Spill containment pallet
- Containment pad for vehicle wash-downs



## New Pig

One Pork Avenue  
P.O. Box 304  
Tipton, PA 16684-0304

### Outdoor Area

A 1,000 gallon fuel tank is going to be removed soon. Several empty drums will also be removed. A large waste oil tank that is stored behind the maintenance areas will need secondary containment.

#### Recommendations / Options:

- Remove 1,000 gallon tank and have the soil in the area surrounding the tank sampled for hydrocarbon contamination. Remediate soil if necessary.
- Provide secondary containment for the waste oil storage tank located behind the building. Remove contaminated soil before secondary containment is installed.
- Consider self-bailer for secondary containment system that would allow water to drain while capturing trace oils. Alternatively, have a method for pumping out water that accumulates in the sump – or cover the unit to prevent water from entering the sump.
- Get rid of empty, unused containers (drums) and other items that are not being used.
- Signage
- Routine inspections to ensure that there are no leaks from the waste oil tank, etc.

#### Possible product recommendations for this area:

- Secondary containment for the waste oil tank. This could be fabricated with a concrete pad and block or pre-fabricated (collapse-a-tainer)
- Self-bailer that allows water to exit a secondary containment system while capturing oil