

## ACTIVITIES SUBJECT TO 401 KAR 5:037 THAT COMMONLY OCCUR AT BULK PETROLEUM PLANTS

- Aboveground Storage Tanks (ASTs)
- Underground Storage Tanks (USTs)
- Above and below ground piping
- Drum Storage
- Loading and Unloading
- Oil/water Separators
- On-site sewage treatment plant, if not on city sewer
- Monitoring Wells

This listing is by no means complete, since there are variations in this type of facility. Be sure to read Section 2 of the regulation thoroughly to assure that all regulated activities that occur at your plant are included in your Groundwater Protection Plan (GPP).

The GPP must include information about the capacity and contents of the storage tanks. Secondary containment for AST's includes double walled tanks, and secondary containment structures. UST's are regulated by the Underground Storage Tank Program. Practices required by this program are protective of groundwater and may be incorporated by reference. See the guidance for information to include about containment structures and for instructions to incorporate by reference.

Pressure testing of above or below ground piping, or some other means of determining presence of leaks should be explained in the GPP under Protective Practices.

Product stored in drums 55 gallons or larger, must be listed in the GPP. Petroleum waste in any amount stored in containers of any size must also be addressed. Drums stored outside should have secondary containment. Inside storage of drums should be on an impervious floor.

Describe the ground surface over which loading and unloading takes place. Questions to address are:

- Is the surface unprotected (grass, soil, sand, gravel)?
- Is the surface concrete or asphalt? Are berms present to prevent spills from running off the pavement onto the soil?
- Are there cracks in the pavement? They will allow a spill to seep through to the soil and ultimately to groundwater.
- Is spill cleanup equipment readily accessible?
- Exactly what will be done with the petroleum-contaminated material?

Oil/water separators that are improperly maintained or not maintained at all may potentially pollute groundwater. At a minimum, the following information should be provided in the GPP

- KPDES Permit Number
- Frequency of maintenance and clean out
- Name and address of tank cleaning service engaged to clean out the separator.
- If sludge and/or oil are stored in a drum for disposal, provide the name and address of the company contracted for disposal.

The cabinet-written generic GPP for residential septic systems may be adapted to your facility GPP if you have an onsite sewage treatment system (package treatment plant, septic system, wetland, sewage lagoon).

Kentucky Administrative Regulation 401 KAR 5:037, the guidance, free generic GPPs, operation and maintenance guidelines and fact sheets for selected activities may be downloaded at the Groundwater Protection Plan Program Web site

<https://eec.ky.gov/Environmental-Protection/Water/Protection/GW/GWProtect>

If you have questions about developing your GPP, contact the Program Coordinator at (502) 564-3410.

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