



Summary of the Construction Requirements of OAC Chapter 3745-520 “Regulation of New Construction and Demolition Debris Facilities”

Does Chapter 3745-520 “Regulation of New Construction and Demolition Debris Facilities” apply to me?

- OAC Chapter 3745-520 DOES NOT APPLY to an existing C&DD facility that will be filled up and closed without expanding the existing facility boundary or existing disposal limits.
- OAC Chapter 3745-520 DOES APPLY to an owner or operator of a “new C&DD facility”; the statutory term “new C&DD facility” includes a proposed C&DD facility that has never existed before and an existing C&DD facility where the owner or operator wants to expand the facility. Such expansion of an existing facility includes any expansion of the facility boundary or disposal limits beyond the approved limits of construction and demolition debris placement.

Where are the construction requirements for a new C&DD facility found?

The construction requirements for new C&DD facilities are found in OAC rules 3745-520-500 to 3745-520-549.

What are the basic construction requirements for a new C&DD facility?

After a permit has been issued, the owner/operator must provide notification of the following to the licensing authority (either the local health department or Ohio EPA) at least seven days in advance of construction:

- Construction of any component of a C&DD facility
- Shear strength evaluation of the following materials: added geologic material; structural fill material; material for the recompacted soil liner in the liner system; flexible membrane liner; drainage layer, filter layer, cushion layer, and protective layer material; geocomposite; geotextile; and georeinforcements
- Shear strength evaluation for any portion of the facility that was not anticipated, and therefore not reported in the permit application
- Evaluation of the soils to be used to construct the recompacted soil liner

The construction rules also address vegetated earthen berm and equivalent barrier construction, leachate collection system drainage layer construction, and leachate recirculation system construction. These are summarized as follows:

Vegetated earthen berm and equivalent barrier construction:

- Cannot contain solid waste or C&DD, but clean hard fill can be used.
- If vegetation is included in the design, the earthen berm must be thick enough to support a complete and dense cover of vegetation.
- The berm must meet erosion criteria and be covered with mulch or other adequate material within seven days of construction.

Leachate collection system drainage layer construction:

- If not underlying a leachate recirculation system, must have a hydraulic conductivity of at least 0.3 centimeters per second.
- If underlying a leachate recirculation system, must have a hydraulic conductivity of at least 2 centimeters per second.

Leachate recirculation system construction:

- The leachate recirculation system requires a certification of construction. The owner or operator must include certification for each engineered component included in the design of the leachate recirculation system.

Construction certification reports

The owner/operator must submit a construction certification report within sixty days of construction activities being completed. The report must meet requirements described in OAC rule 3745-512-50. All results of testing and verification that construction requirements have been met must be included in the report.

If a recompacted soil liner is going to be used at the facility, a certification report for the test pad must be submitted fourteen days prior to beginning construction of the liner that was modeled by the test pad.

Closure activities: if closure activities are being conducted because a C&DD facility's permit to install has been revoked, there are several rules that must be followed regarding construction certification reports in the Design rules section (OAC rules 3745-520-200 to 3745-520-280), rather than following the design in the permit.