

Blauvelt, Ashley (DEM)

From: Blauvelt, Ashley (DEM)

Sent: Wednesday, September 11, 2024 4:11 PM

To: David Hazebrouck <dhazebrouck@lakeshoreenvironmentalri.com>

Cc: Owens, Kelly (DEM) <kelly.owens@dem.ri.gov>

Subject: RE: RIRM - Remedial Design Comment

Hi Dave,

The Department is requiring a Rhode Island licensed professional structural engineer to consult on the specifications/design of the proposed concrete and asphalt caps however, it is acceptable if the structural engineer is a registered civil engineer if their practice of engineering includes the design and analysis of concrete slabs and asphalt, designed to withstand heavy loads and truck activity. The engineer should have professional working experience with load-bearing design and strength of materials. Site specific conditions such as coastal proximity, soil conditions, and loading must be considered.

The requirement will not be met by having a structural engineer stamp the design plans; the Department is requiring the structural engineer put together a report to support their recommended minimum design specifications for the proposed concrete and asphalt caps that can be reasonable expected to withstand the loads relative to the specific machinery that will be used and stored at and daily activity to occur at the RIRM property. The Department is requiring that the report contain all information that was supplied to the engineer and utilized to determine their design recommendations on cap specifications. Finally, the structural engineer or civil engineer specializing in structural engineering should not be the same engineer that designs and/or stamps the stormwater management plans as the disciplines and work experience are different.

The intention of this requirement is to ensure that the cap constructed at the Site will be able to tolerate and hold up to the daily operations and uses of heavy machinery and vehicles **and** reliably limit direct access to the subsurface soils and help prevent potential unintended releases from reaching the subsurface soils for as long as possible.

Thanks,
Ashley

RIDEM



Ashley Blauvelt, P.E.

Environmental Engineer IV

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Site Remediation & Brownfields**

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