

CONTAMINATED MATERIALS MANAGEMENT

External
Advisory
Group

Update



WORK GROUPS

- 1. Material Characterization**
PAH Guidance, Assessment & Study
- 2. Utility, Developer, DOT and Local Government concerns**
- 3. Long-term Stewardship of Relocated Materials**
- 4. Tracking**
- 5. Innovative Initiatives**

1. MATERIAL CHARACTERIZATION

Clean Soil

UNRESTRICTED

Site-specific
Exemptions
with
restriction

SOME RESTRICTION

Landfill

RESTRICTED

1. MATERIAL CHARACTERIZATION

- Issue Paper – Define “clean” soil
- *VOCs* - below laboratory Method Detection Limits (MDLs)
- *Metals* – Below BTVs values unless a release is suspected.*
- *PAHs* – below residential direct contact RCLs and below groundwater RCLs.
- *PCBs* - below laboratory MDLs
- *Other non-naturally occurring parameters* – below laboratory MDLs

1. MATERIAL CHARACTERIZATION

- “Clean” soil definition was preliminarily approved by Remediation & Redevelopment Program and Waste & Material Management Program.
- MDLs for several WI Certified labs under evaluation to specify acceptable level
- Formal approval process developing

1. MATERIAL CHARACTERIZATION

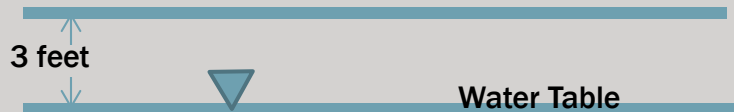
- Next issue paper developing
 - Gradient between Unrestricted (“clean”) and Restricted (landfill) Material
- Note: Receiving sites should have similar types and concentrations of contaminants in soil planned for placement. Goal is to avoid building new brownfield sites.

RESTRICTED PLACEMENT NON INDUSTRIAL/NO CAP



< Non Industrial DC RCLs
> GW RCLs & < NR 140 SPLP

< Industrial DC RCLs
> GW RCLs & < NR 140 SPLP

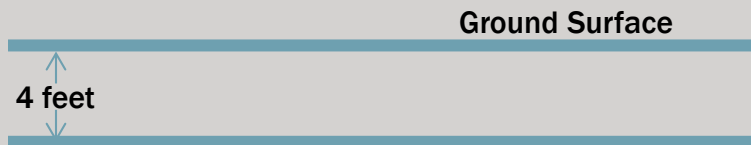


< Industrial DC RCLs
< GW RCLs

Not Allowed

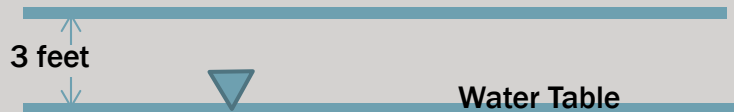
- Acceptable VOCs pose No Vapor Risk
- Consider Co-solvency Effect for VOCs
- Contaminant Loading potential for sites accepting large quantities of material

RESTRICTED PLACEMENT INDUSTRIAL/NO CAP



< Industrial DC RCLs
> GW RCLs & < NR 140 SPLP

> Industrial DC RCLs
> GW RCLs & < NR 140 SPLP

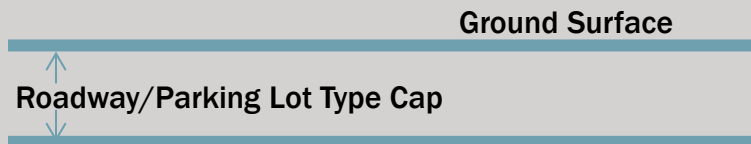


> Industrial DC RCLs
< GW RCLs

Not Allowed

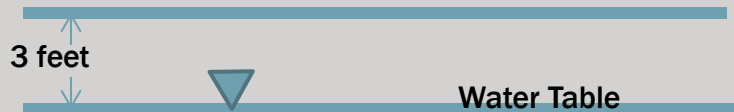
- Acceptable VOCs pose No Vapor Risk
- Consider Co-solvency Effect for VOCs
- Contaminant Loading potential for sites accepting large quantities of material

RESTRICTED PLACEMENT UNDER ROADWAY/PARKING LOT CAP



Asphalt/Concrete

- > Industrial DC RCLs
- > GW RCLs & < NR 140 SPLP

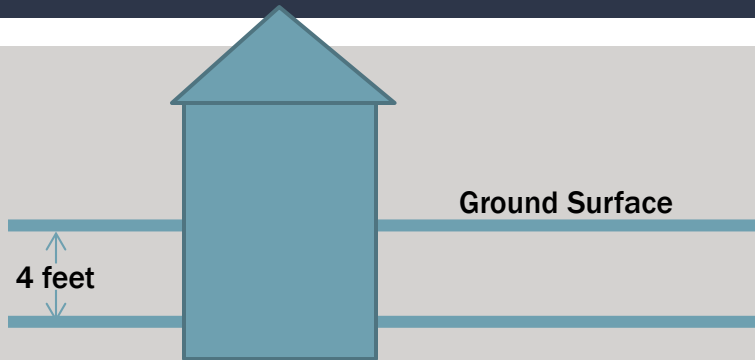


- > Industrial DC RCLs
- < GW RCLs

Not Allowed

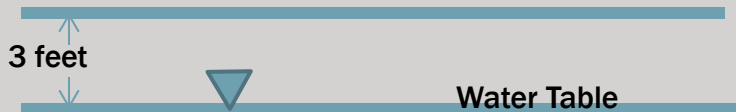
- Acceptable VOCs pose No Vapor Risk
- Consider Co-solvency Effect for VOCs
- Contaminant Loading potential for sites accepting large quantities of material

RESTRICTED PLACEMENT UNDER STRUCTURE - RESIDENTIAL



< Non Industrial DC RCLs
> GW RCLs & < NR 140 SPLP

> Industrial DC RCLs
> GW RCLs & < NR 140 SPLP

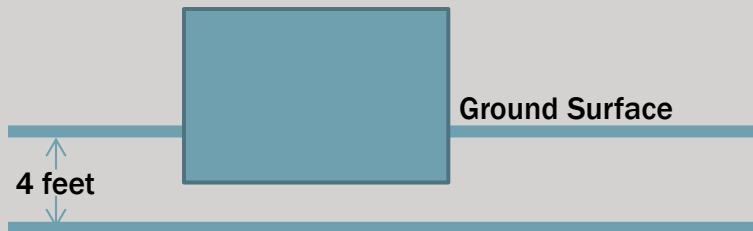


> Industrial DC RCLs
< GW RCLs

Not Allowed

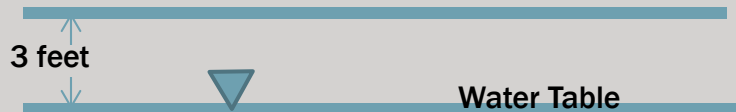
- Acceptable VOCs pose No Vapor Risk
- Consider Co-solvency Effect for VOCs
- Contaminant Loading potential for sites accepting large quantities of material

RESTRICTED PLACEMENT UNDER STRUCTURE – NON INDUSTRIAL/NOT RESIDENTIAL



< Non Industrial DC RCLs
> GW RCLs & < NR 140 SPLP

> Industrial DC RCLs
> GW RCLs & < NR 140 SPLP



> Industrial DC RCLs
< GW RCLs

Not Allowed

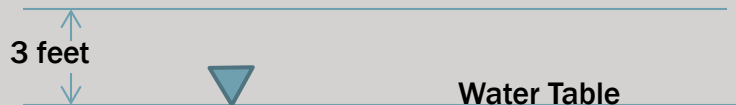
- Acceptable VOCs pose No Vapor Risk
- Consider Co-solvency Effect for VOCs
- Contaminant Loading potential for sites accepting large quantities of material

RESTRICTED PLACEMENT UNDER STRUCTURE - INDUSTRIAL



< Industrial DC RCLs
> GW RCLs & < NR 140 SPLP

> Industrial DC RCLs
> GW RCLs & < NR 140 SPLP

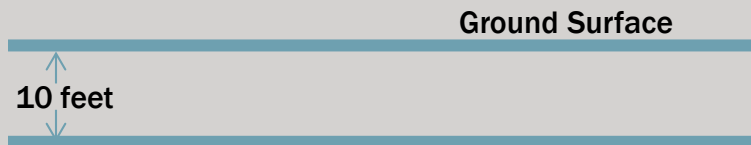


> Industrial DC RCLs
< GW RCLs

Not Allowed

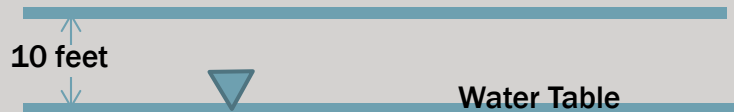
- Acceptable VOCs pose No Vapor Risk
- Consider Co-solvency Effect for VOCs
- Contaminant Loading potential for sites accepting large quantities of material

RESTRICTED PLACEMENT LARGE RECEIVING SITE/QUARRY



< Non Industrial DC RCLs
> GW RCLs & < NR 140 SPLP

> Industrial DC RCLs
> GW RCLs & < NR 140 SPLP



> Industrial DC RCLs
< GW RCLs

Not Allowed

- Acceptable VOCs pose No Vapor Risk
- Consider Co-solvency Effect for VOCs
- Contaminant Loading potential for sites accepting large quantities of material

2. MATERIAL CHARACTERIZATION PAH UPDATE

- **Widespread Contaminant Guidance**
 - Define “No Action Required” Process
- **WI Dept of Health Services**
 - Reassessment of PAH Soil Standards
- **PAH Background Study**
 - Determine which PAHs to include in the study
 - Evaluate sampling methodology
 - Evaluate analysis procedures
 - Select sampling locations
 - Secure funding for study

2. UTILITY, DOT, LOCAL GOVERNMENT

- **Sampling**
 - When to test
 - What to test for
- **Conditions that require reporting**
- **Reporting responsibility**
 - In ROW
 - On private property
 - With contractor involvement
- **Placement options when contamination is present**
 - Process for determining what is acceptable
 - Interim movement – stockpiling/storage/future reuse

2. UTILITY, DOT, LOCAL GOVERNMENT

■ Next Steps

- Suggest BMPs for Waste Determination Process
- Evaluate Possible Sampling Protocol Recommendations
- Clarify reporting requirements as applicable to
 - In ROW
 - On private property
 - With contractor involvement

3. LONG TERM STEWARDSHIP OF RELOCATED MATERIAL

Clean?

- No restriction
- No cover
- No obligation

- Location criteria met
- Shown to be protective
- Possible cover and/or restriction

LHE + NR718?

- Managed by facility guidelines

Licensed Landfill

4. TRACKING

- Issue paper
 - Use of BRRTS/SHWIMS
 - Map based system
 - Approval for further evaluation received
 - Meeting on November 18th for initial process development

5. INNOVATIVE INITIATIVES

- **Voluntary soil management certification program**
 - **Concept introduced at NR700 Technical Focus Group**

FUTURE MEETINGS

- PAH Work Group Meeting – Chemistry subgroup
 - December 10th
 - GEF 2 Madison
- Soil Advisory Workgroup Meeting/Call
 - December 15th
 - GEF 2 Madison
- Soil Advisory Group
 - January 25th Tentative
 - To be Determined, Milwaukee