

Department of Civil and Environmental Engineering

Modern Landfill Design – Short Course Program

Day 1	Monday May 30, 2022
08:00 - 08:30	Welcome and Course Introduction
08:30 - 10:00	Municipal solid waste
	Municipal solid waste composition and management, engineering properties of waste
10:00 – 10:30	Break and Discussion
	Landfill site investigation
10:30 – 12:00	Landfill site investigation, site selection, and subsurface investigation, principles of
	situating the landfill, blowout, and excavation.
12:00 – 13:00	Lunch
	Landfill leachate
13:00 – 14:30	Landfill leachate generation, volume and composition of leachate, HELP program,
	cover design, long-term performance of cover.
14:30 – 15:00	Break and Discussion
15:00 – 16:30	Landfill liners
	Landfill barrier systems: compacted clay liners (CCL), geosynthetic clay liners (GCL),
	geomembranes, leachate compatibility.
Day 2	Tuesday May 31, 2022
Day 2	Tuesday May 31, 2022 Contaminant transport
Day 2 08:30 - 10:00	
	Contaminant transport
	Contaminant transport Contaminant transport modelling, POLLUTE program, integration of hydrogeology
08:30 - 10:00 10:00 - 10:30	Contaminant transport Contaminant transport modelling, POLLUTE program, integration of hydrogeology with design.
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