

Task List

Task 1: Site Investigation

Task 1.1: Site Visit

Task 1.2: Obtain Site Data

Task 2: Analyze Site Documents

Task 2.1: Previous Modeling Data Collection and Analysis

Task 2.2: Hydroprobe Data Collection and Analysis

Task 2.3: Landfill Layer Data Collection and Analysis

Task 3: Landfill Leachate Modeling

Task 3.1: Calibrate HELP Model

Task 3.2: HELP Model Prediction at Closure

Task 3.3: HELP Model Sensitivity Analysis

Task 4: 3-D Vadose Zone Plume Model Research

Task 4.1: Model Comparison

Task 4.1.1: Model Ease of Use

Task 4.1.2: Cost Comparison

Task 4.3: Model Selection Decision Matrix

Task 5: Develop 3-D Plume Visualization

Task 5.1: Calculations for Leachate to Reach Aquifer

Task 5.2: Develop 3-D Plume Migration Map

Task 5.3: Sensitivity Analysis for Potential Moisture Exceedance

Task 5.4: Analyze Landfill Excavation Requirements

Task 6: Analysis of Project Impacts

Task 6.1: Social Impacts

Task 6.2: Economic Impacts

Task 6.3: Environmental Impacts

Task 6.4: Human Health Impacts

Task 7: Project Deliverables

Task 7.1: 30% Submittal

Task 7.1.1: 30% Report

Task 7.1.2: 30% Presentation

Task 7.2: 60% Submittal

Task 7.2.1: 60% Report

Task 7.2.2: 60% Presentation

Task 7.3: 90% Submittal

Task 7.3.1 90% Report

Task 7.3.2: Practice Final Presentation

Task 7.3.3: 90% Website

Task 7.4: Final Submittal

Task 7.4.1: Final Presentation

Task 7.4.2: Final Website

Task 7.4.3: Final Report

Task 7.4.4: White Paper

Task 7.4.5: Final Poster

Task 8: Project Management

Task 8.1: Meetings

Task 8.1.1: Grading Instructor Meetings

Task 8.1.2: Technical Advisor Meetings

Task 8.1.3: Client Meetings

Task 8.1.4: Team Meetings

Task 8.2: Schedule Management

Task 8.3: Resource Management