

# Preliminary Engineering Report Fiddymment Creek Sanitary Sewer

for the  
Village of Homer Glen



PRE-FINAL  
March 2010

by  
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Orland Park IL 60467

# **Preliminary Engineering Report Fiddymment Creek Sanitary Sewer**

## **Section 1) Purpose and Need for Project**

### **Section 2) Existing Conditions**

- General Location
- Transportation
- Existing Land Use and Facility Planning Area
- Existing Topography
- Existing Soil Types
- Existing Sanitary Waste Collection Systems
- Oil and Natural Gas Pipeline Easements
- In-Ground and Overhead Utilities

### **Section 3) Environmental Inventory**

- Forest Preserve District of Will County
- Tree Survey
- Floristic Survey
- Migratory and Breeding Bird Survey
- Archaeology and Historical Survey
- Wetlands Inventory (Creeks and Floodplain)
- Threatened and Endangered Species Review

### **Section 4) Design Analysis and Assumptions**

- Future Land Use
- Sewer Flow Calculations
- Sewer Sizing

### **Section 5) Alternatives Considered and Recommendation**

- Alternatives Considered
- No-Build Alternative
- Alternative D
- Alternative C
- Alternative B
- Recommended Alternative A

### **Section 6) Impacts and Mitigation of Recommended Alternative A**

- Width of Construction Zone
- Forest Preserve District of Will County
- Tree Impacts
- Floristic, Migratory and Breeding Bird Impacts
- Archaeology and Historical Impacts
- Wetlands Impacts (Creeks and Floodplains)
- Threatened and Endangered Species Review
- Oil and Natural Gas Pipeline Easements
- In-Ground and Overhead Utilities
- Private Property Impacts
- Preliminary Cost Estimates

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## **Appendix Contents**

- A. Tree Survey
- B. Wetland Inventory
- C. FPDWC Ordinance 354
- D. FPDWC Ordinance 342
- E. Sewer Flow Calculations
- F. Preliminary Cost Estimate

## **Exhibits**

- A. Project Location Map
- B. Bonnie Brae Facility Planning Area (FPA)
- C. Proposed Land Use Plan (Village of Homer Glen)
- D. Topography of FPA
- E. Environmental Inventory
- F. Existing Utilities and Pipelines
- G. Alternatives Considered
- H. Alternatives Considered on Aerial Image
- I. Recommended Alternative A Plan
- J. Recommended Alternative A Profile
- K. Alternative B Plan
- L. Alternative B Profile
- M. Alternative C Plan
- N. Alternative C Profile
- O. Alternative D Plan
- P. Alternative D Profile
- Q. Cross-Section Looking east through FPA
- R. Sewer Trenching Details
- S. Properties and Easements Needed
- T. Forest Preserve Conceptual Trail and Restoration Plan