

Field Work Order #37 – Macedonia

Project: 1518 Cuyahoga Valley Interceptor – Local Sewer System Evaluation Study (CVI-LSSSES)

Subject: **Smoke Testing**

Date: Tuesday, August 20, 2019

To: Bob Hollis – Summit County Department of Sanitary Sewer Services
Ross Nicholson – Summit County Department of Sanitary Sewer Services
Joe Gigliotti – Macedonia, City Engineer
John Hnottarange – Macedonia, Service Director
Chris Hall – Macedonia, City Zoning Inspector

Cc: William Fussner – Northeast Ohio Regional Sewer District
Keith McClintock – Northeast Ohio Regional Sewer District
Meiring Borchers – Northeast Ohio Regional Sewer District
Darcy Riegel – HDR
Jennie Celik – HDR
Chris Pack – HDR
Josiah Denson – CT Consultants
John Kelley – CT Consultants
Julia Lazar – CT Consultants
Phil Lewis – K.E. McCartney

Introduction

The CVI-LSSSES Project Team will be conducting Smoke Testing of various sanitary sewers to identify sources of infiltration and inflow (I/I). Prior to testing, door hangers will be hung with no less than two days' notice, and the City's fire department will receive daily notifications when smoke testing is being performed. Notification signs will also be posted at the ends of the affected streets. Dye testing may be necessary to confirm smoke test results under a separate work order. The streets to be smoke tested are listed in **Table 1**. A plan view of the work order area is shown in **Figure 1**.

The objective of the smoke testing is to locate and identify sanitary sewer defects.

Background

1. Prioritization Observations
 - a. Community identified basement flooding
 - b. Potential cross-connections causing flooding downstream

Proposed Work Plan

1. Perform smoke testing in accordance with *Inspection and Monitoring Approach TM and Data Collection and Management Plan* standards including all notification requirements. A copy of either document is available upon request.

2. Additional locations to look for smoke:
 - a. Downspouts
 - b. Foundations

Table 1: Smoke Testing Locations

County	Community	Upstream MH ID	Downstream MH ID	Street	Approximate Total Sewer Length (ft)
Cuyahoga	Macedonia	TAEP	TAED	Roseland Drive	2,532
Cuyahoga	Macedonia	TAEM	TAEN	Blueberry Lane	87
Cuyahoga	Macedonia	TAEJ	TAEK	Blueberry Lane	185
Cuyahoga	Macedonia	TAEZ	TAEV	Blueberry Lane	772
Cuyahoga	Macedonia	TAEW	TAED	Meadowlawn Drive	2,295
Cuyahoga	Macedonia	TAFG	TAEQ	Bradford Drive	2,475
Cuyahoga	Macedonia	TBJF	TAFJ	Bruce Road	2,367
Cuyahoga	Macedonia	TAFX	TAFJ	Bonnie Road	2,395

Contact Information

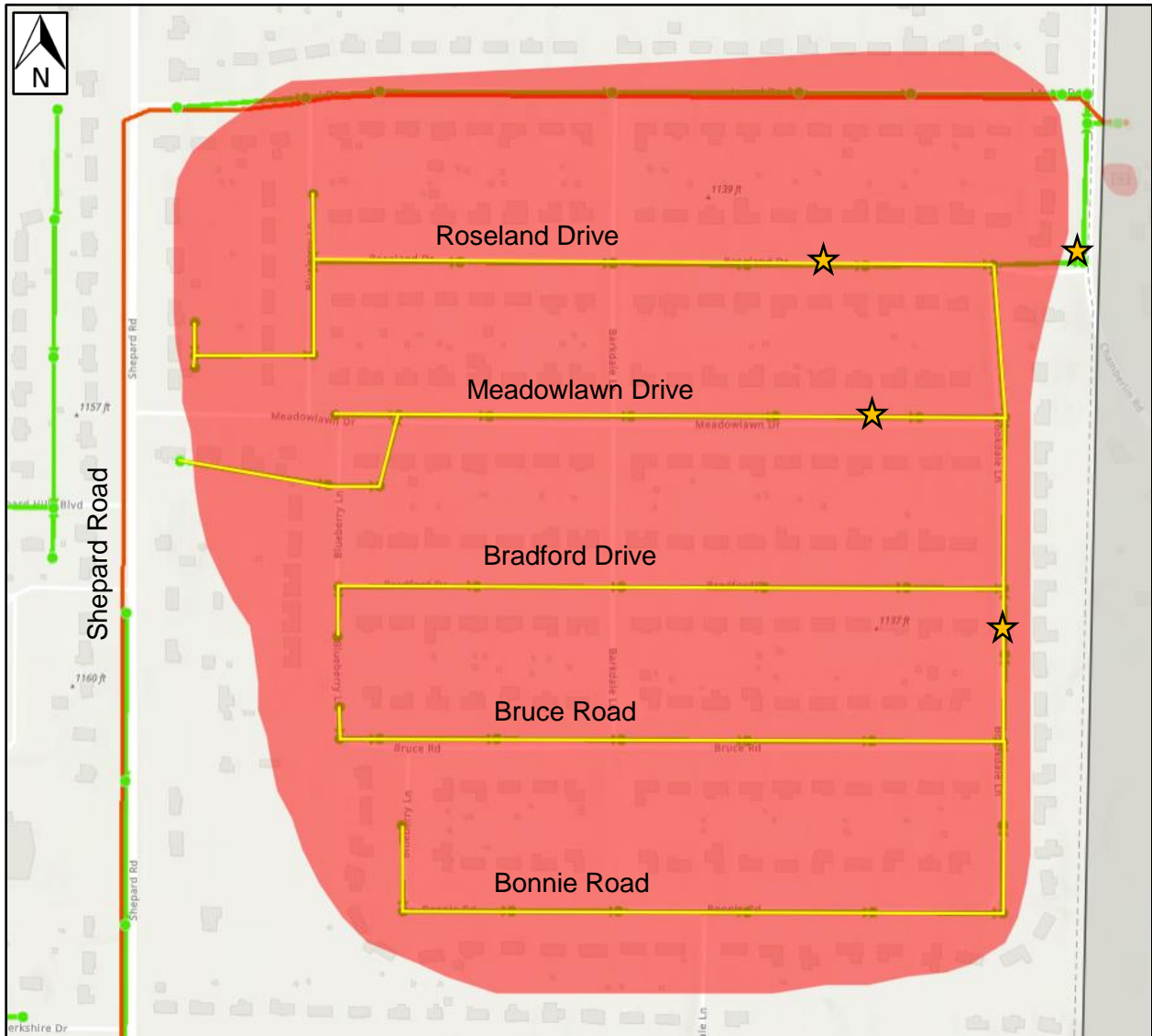
Below is a summary of key contact information associated with this work order. For immediate assistance, please contact **Jennie Celik** (HDR's Field Services representative).

Team Member	Contact Person	Email	Phone
HDR	Jennie Celik	Jennie.Celik@hdrinc.com	330-203-2774
HDR	Chris Pack	Christopher.Pack@hdrinc.com	216-912-4243
HDR	Darcy Riegel	Darcy.Riegel@hdrinc.com	216-912-4275
NEORS	Bill Fussner	FussnerW@neorsd.org	216-881-6600 ext.6462
CT Consultants	Julia Lazar	JLazar@ctconsultants.com	440-530-2335
KEM	Phil Lewis	PLewis@kemccartney.com	419-577-8980

Anticipated Schedule

Below is a summary of the anticipated work order schedule.

Inspection Activity	Start Date	End Date
Smoke Testing	8/26/2019	9/13/2019



LEGEND






-  Local Sanitary Sewers
-  Sludge
-  Planned Smoke Testing
-  Community Problem Locations
-  Micro-Monitor (Surcharged above crown and basement – shallow)

Figure 1: Smoke Testing Map