METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI

Project ID 10142910 Ludlow Run Sustainable Source Control Contract 95x12762

Progress Report for Professional Services provided December 27, 2021 through January 30, 2022

Arcadis U.S., Inc.

At the request of the Metropolitan Sewer District of Greater Cincinnati, Arcadis worked on the following items as summarized below.

Task 1 Project Administration - Planning

 Performed project administration and resource management; communicated updates to MSDGC project manager.

Task 2 Data Review and Collection

- Updating and reviewing the event files for all meters and checking installation sheets to confirm
 no silt and to confirm correct pipe size was used to generate the data.
- Perform depth/flow calculation for the pipe for FM MC-KR-019
- Completing flow event evaluations and preparing final event files and reviewing raw data to check and fill gaps.
- Working on data for MC-KR-025 to process missing data gaps, perform new event classifications and develop slide show of data review summary.

Task 3 Collection System Model Review

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Task 4 Model Update and Calibration

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4.010 MSDGC Install Flow Monitors	w Monitors	10 15-Mar-21A	26 Mar 21 A		MSDGC Install Flow Monitors	
	Review Flow Monitor Data during Collection	156 29-Mar-21A	31-Mar-22		Review Flow Monitor Data during Collection	
	itoring Data	10 01 Apr 22	14-Apr-22		Receive Flow Monitoring Data	
	/lode	60 07 Jan 22	31 Mar 22		Update Hydraulic Model	
4.060 Prepare Draft Task	Prepare Draft Task 4 Deliverables based on MSDGC Modeling	15 15-Apr-22	05-May-22		Pepare Draft Task 4 Deliverables based on MSDGC Modeling guidelines	MSDGC Modeling guidelines
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	Validate and Calibrate Hydraulic Model (Assumed 10 FM)	50 U3-3un-22	11 Aug 22		Validate and caborate Hydraulic Model (Assumed 10 FM)	ulic Model (Assumed 10 FM)
	Submit MSLX5C Letailed Model Review Checklist	0 !	11 Aug 22		Subpit MSLASC Letailed Model Review Checkles	del Review Checklist
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	MSDGC Conditional Approval of Model to Prepare Report	0	25-Aug-22		♦ MSDGC Conditional Approval of Model to Prepare Report	val of Model to Prepare Report
	Prepare Draft Modeling Report and Model Files	15 26-Aug-22	15-Sep-22		Prepare Draft Modeling Report and Model Fles	Report and Model Fles
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	Resolve MSDGC Comments and Update Modeling Report	15 30-Sep-22	20-Oct-22		Resolve MSDGC O	Resolve MSDGC Comments and Update Modeling
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4.150 Develop Baseline Project Model	Project Model	10 06 Sep 22	19-Sep-22		□ Develop Baseline Project Mode	
Task 5 Planning and BCE		160 20-Sep-22	01-May-23			▼ 01-May-23, Task 5 PI
	Perform Conditions and Capacity Analysis	20 20-Sep-22	17-Oct 22		Perform Conditions	Perform Conditions and Capacity Analysis
	Perform Alternatives Analysis and Modeling	50 18-Oct-22	26-Dec-22		Perform	Perform Alternatives Analysis and Modeli
	s Analysis Report	20 27-Dec-22	23 Jan-23			Prepare Alternatives Analysis Report
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	Conduct Altematives Analysis Review Meeting	0 10-Feb-23				 ◆ Conduct Alternatives Analysis Rev
5.070 Resolve MSDGC CX	Resolve MSDGC Comments and Update Alternatives Analysis Report	15 07-Feb-23	27-Feb-23			Resolve MSDGC Comments an
5 080 Submit Final Attems	Submit Final Attematives Analysis Report	c	27 Feb 23			Submit Final Alternatives Analys
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5.999 End of Planning Phase	hase	0	01 May 23*			 End of Planning Phas