

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

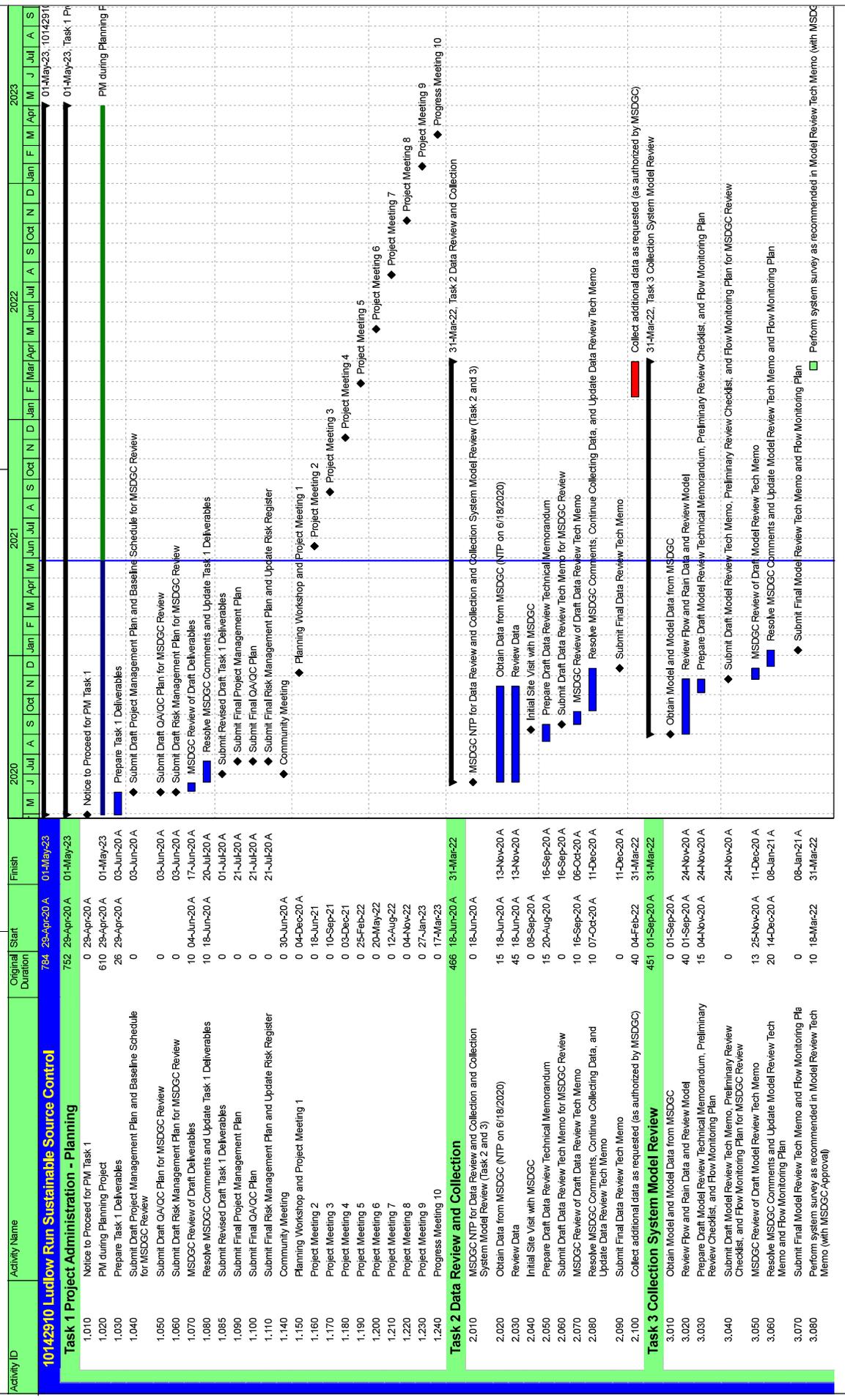
- Updating and reviewing the event files for all meters and checking installation sheets to confirm no silt and to confirm correct pipe size was used to generate the data.
- Perform depth/flow calculation for the pipe for FM MC-KR-019
- Completing flow event evaluations and preparing final event files 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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Activity ID	Activity Name	Original Start	Finish	2020	2021	2022	2023						
		Duration		J	M	J	J	A	M	J	J	A	S
Task 4 Model Update and Calibration													
4.005	MSDGC NTP for Task 4	0	20-Jan-21 A										
4.010	MSDGC Install Flow Monitors	10	15-Mar-21 A										
4.020	Review Flow Monitor Data during Collection	156	29-Mar-21 A										
4.030	Receive Flow Monitoring Data	10	01-Apr-22										
4.040	Update Hydraulic Model	60	07-Jan-22										
4.060	Prepare Draft Task 4 Deliverables based on MSDGC Modeling guidelines	15	15-Apr-22										
4.070	Submit MSDGC Preliminary Review Checklist	0	05-May-22										
4.080	MSDGC Review of Preliminary Review Checklist	10	06-May-22										
4.085	Update Checklist based on MSDGC comments	10	20-May-22										
4.087	Validate and Calibrate Hydraulic Model (Assumed 10 FM)	50	03-Jun-22										
4.090	Submit MSDGC Detailed Model Review Checklist	0	11-Aug-22										
4.100	MSDGC Review of Detailed Model Review Checklist	10	12-Aug-22										
4.102	MSDGC Conditional Approval of Model to Prepare Report	0	25-Aug-22										
4.105	Prepare Draft Modeling Report and Model Files	15	26-Aug-22										
4.110	Submit Draft Modeling Report and Model Files	0	15-Sep-22										
4.120	MSDGC Review of Draft Modeling Report	10	16-Sep-22										
4.130	Resolve MSDGC Comments and Update Modeling Report	15	30-Sep-22										
4.140	Submit Final Modeling Report and Model Files	0	20-Oct-22										
4.150	Develop Baseline Project Model	10	06-Sep-22										
Task 5 Planning and BCE													
5.010	Perform Conditions and Capacity Analysis	160	20-Sep-22										
5.020	Perform Alternatives Analysis and Modeling	20	20-Sep-22										
5.030	Prepare Alternatives Analysis Report	50	18-Oct-22										
5.040	Submit Draft Alternatives Analysis Report for MSDGC Review	0	27-Dec-22										
5.050	MSDGC Review of Draft Alternatives Analysis Report	10	24-Jan-23										
5.060	Conduct Alternatives Analysis Review Meeting	0	10-Feb-23										
5.070	Resolve MSDGC Comments and Update Alternatives Analysis Report	15	07-Feb-23										
5.080	Submit Final Alternatives Analysis Report	0	27-Feb-23										
5.090	Prepare Draft BCE	20	28-Feb-23										
5.100	Submit Draft BCE for MSDGC Review	0	27-Mar-23										
5.110	MSDGC Review of Draft BCE	10	28-Mar-23										
5.120	Conduct BCE Review Meeting	0	14-Apr-23										
5.130	Resolve MSDGC Comments and Update BCE	15	11-Apr-23										
5.140	Submit Final BCE Report	0	01-May-23										
5.999	End of Planning Phase	0	01-May-23*										

