

# METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI

**Project ID 10142910  
Ludlow Run Sustainable Source Control  
Contract 95x12762**

Progress Report for  
Professional Services provided July 25, 2022 through August 28, 2022

Arcadis U.S., Inc.

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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

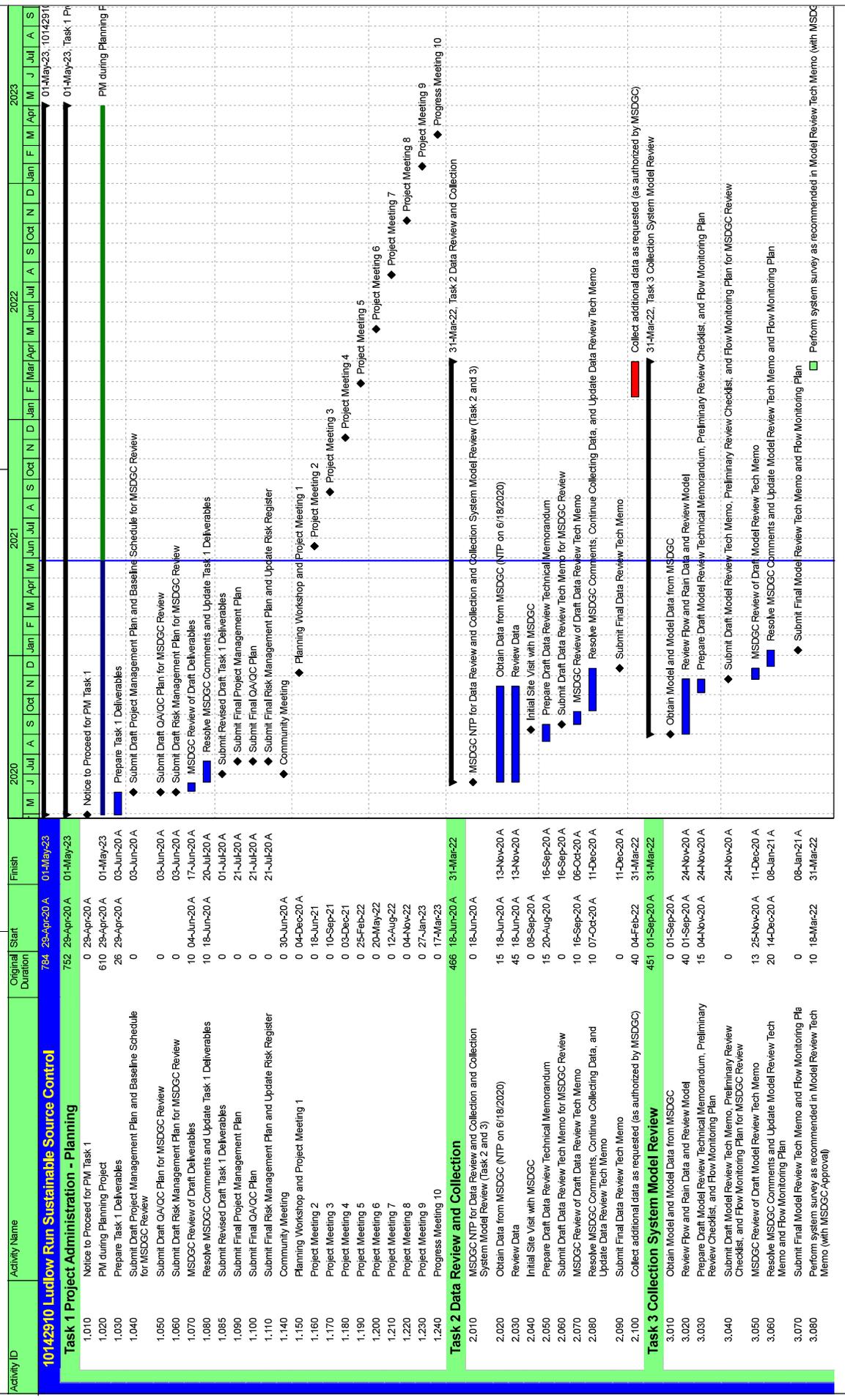
- FM data review and development of time series files from data provided by City. Beginning of development of event files.

Task 3 Collection System Model Review

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Task 4 Model Update and Calibration

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Legend: Remaining Level of Effort (Green bar), Actual Level of Effort (Blue bar), Actual Work (Red bar), Remaining Work (White bar), Critical Remaining Work (Red bar with black outline), Remaining WBS Summary (White bar with black outline), Milestone (Black diamond).

TASK filter: All Activities

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| Activity ID                                | Activity Name  | Original Start | Finish      | 2020 | 2021 | 2022 | 2023 |   |   |   |   |   |   |   |   |   |
|--|--|----------------|-------------|------|------|------|------|---|---|---|---|---|---|---|---|---|
|  |  | Duration       |             | J    | M    | J    | J    | J | M | J | A | M | J | J | A | S |
| <b>Task 4 Model Update and Calibration</b> |  |                |             |      |      |      |      |   |   |   |   |   |   |   |   |   |
| 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   |      |      |      |      |   |   |   |   |   |   |   |   |   |
| <b>Task 5 Planning and BCE</b>             |  |                |             |      |      |      |      |   |   |   |   |   |   |   |   |   |
| 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*  |      |      |      |      |   |   |   |   |   |   |   |   |   |

