CDM

Technical Memorandum Task 12: Implementation Schedules

To: *Carolina Hernandez, County of Los Angeles Watershed Division*

From: *Melinda McCoy, CDM*
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Date: *August 22, 2006*

1.0 Introduction

This technical memorandum (TM) provides a schedule estimate for the proposed Best Management Practices (BMP) that have been identified as "Committed" or "Piloted" options for implementation as a part of the Malibu Creek Watershed (MCW) Dry- and Wet-Weather Bacteria Total Maximum Daily Load Implementation Plan (Bacteria TMDLIP).and the North Santa Monica Bay Watersheds (NSMBW) Regional Watershed Implementation Plan (RWIP).

Following preparation of TMs defining the structural and non-structural programs to be considered for implementation, TM 10 identified a suite of BMPs proposed for committed implementation or for piloting. These BMPs are the subject of this schedule.

2.0 Schedule Basis

The approach to developing the schedule, ultimately for inclusion in the TMDLIP, considers the TMDL dates for dry-weather and wet-weather compliance and the required elements and time frames for implementing a program or project. The TMDL milestone dates, proposed work breakdown structure for each BMP type, and a proposed conceptual schedule are described below.

2.1 TMDL Milestone Dates

The TMDL document identifies a number of critical dates for TMDL compliance. The MCW TMDL became effective January 24, 2006. Milestone dates identified by the Regional Water Quality Control Board (Water Board) are based upon this effective date. Dates of interest in developing a schedule for BMP implementation are the reopener dates (dates when the Water Board reconsiders certain technical and compliance requirements) and compliance dates. These milestone dates are shown in Table 1 and described below.

Reopener dates are of interest during TMDL implementation, as these are times when the Water Board reconsiders some of the technical issues related to TMDL compliance and can change the compliance targets or dates as a result of new information. Based on this information, the Implementation Plan may need to be revisited and modified. The following two reopeners of most interest for implementation of this TMDL are as follows:

- The Santa Monica Bay Beaches Bacteria TMDLs are schedule to be reviewed in July 2007. The review will include a possible revision to the allowable winter dry-weather and wet-weather exceedance days based on bacteria indicator densities in the wave wash, re-evaluation of the reference system for setting allowable exceedance levels; re-evaluation of the reference year; and review of the method for applying the 30-day geometric mean. Information considered in this reopener will affect the MCW TMDL reopener.

- The MCW TMDL will be considered 3 years from the effective date (January 24, 2009) to review similar issues: natural loading sources, reassessment of allowable winter dry-weather and wet-weather exceedance days, reevaluation of the reference year used to calculate exceedance days, and re-evaluation of the method for applying the 30-day geometric mean.

The TMDL also identifies dates for summer dry-weather compliance (3 years from the effective TMDL date), and winter dry- and wet-weather compliance (6 and 10 years, respectively, from the effective TMDL date). These are the time periods when water quality monitoring is expected to show compliance with the TMDL bacteria targets. The TMDL allows for the following extensions:

- An extension of the summer dry-weather compliance date, from 3 years to 6 years from the effective TMDL date. In order to be eligible for this extension, the plan must include a description of all local ordinances necessary to implement the dry-weather plan and assurances that such ordinances have been adopted before the request for an extension is granted.

- An extension of the winter wet-weather compliance from 10 years from the effective date to July 15, 2021. In order to be eligible for this extension, the plan must include a description of the integrated water resources approach to be implemented, identification of potential markets for water re-use, and estimate of the percentage of collected stormwater that can be re-used, identification of new local ordinances that will be required, a description of new infrastructure required, a list of potential adverse environmental impacts that may result from the integrated approach, and a workplan and schedule with significant milestones.

Table 1
TMDL Milestone Dates

Milestone	Date without extensions	Extended Date*
TMDL Effective Date	January 24, 2006	
Submit Water Quality Monitoring Plan	May 24, 2006	
Submit Implementation Plan	January 24, 2007	
SMBB/MCW Bacteria Reopener	July 15, 2007	
Report Quantifying Loading from Birds to Malibu Lagoon from CA Dept. of Parks and Recreation	January 24, 2008	
MCW Reopener	January 24, 2009	
Comply with Summer Dry Weather Exceedance Days	January 24, 2009	January 24, 2012
Comply with Winter Dry Weather Exceedance Days	January 24, 2012	
Comply with Wet-Weather Exceedance Days	January 24, 2016	July 15, 2021

*Extended dates apply if the integrated planning approach is approved and the dry weather extension is approved.

2.2 BMP Work Breakdown Structure

A general work breakdown structure (WBS) applicable to non-structural and structural programs has been developed based on standard project and program items. Average durations for accomplishing each WBS element have been developed. The elements and durations are similar to those used for the Santa Monica Bay Beaches Jurisdictions 1 and 4 TMDL Implementation Plan. These WBS codes and durations are used to provide estimates for each individual BMP schedule. The WBS and durations for non-structural, institutional, distributed, and regional BMPs are shown in Tables 2, 3, and 4 below.

Table 2
Work Breakdown Structure for
Non-Structural, Institutional, and Distributed Programmatic BMPs

Item	Assumed Duration*
Program development	219 Days/13 Months
Preliminary/Pilot Program	437 Days/25 Months
Startup full program	100 Days/6 Months
Program Operation	

*All days are based on a 4 day work week

Table 3
Work Breakdown Structure for
Distributed BMPs Constructed by Agencies

Item	Assumed Duration*
Planning (feasibility study, site acquisition, design, permits, environmental)	752 Days/36 Months
Construction Bid & Award	79 Days/4 Months
Construction	625 Days/29 Months**
Project Acceptance	52 Days/3 Months
Project Operation	

*All days are based on a 4 day work week

Table 4
Work Breakdown Structure for Regional BMPs

Item	Assumed Duration*
Pre-feasibility study	248 Days/15 Months
Feasibility Study	56 Days/3 Months
Project Concept	100 Days/6 Months
Construction Programming	20 Days/1 Month
Project Design	262 Days/18 Months
Construction Bid & Award	84 Days/5 Months
Construction Process	97 Days/6 Months**
Project Acceptance	51 Days/3 Months
Project Operation	

*All days are based on a 4 day work week
**Construction Phase – days are based on a 5 day work week.

2.3 Conceptual Schedule

Given the TMDL milestone dates identified above for the extended compliance time frames for dry- and wet-weather a conceptual schedule and detailed schedule for each BMP has been developed. The schedule addresses dry and wet-weather implementation schedules, the time required for implementing major project/program phases, and a phased implementation of BMPs by subwatershed priority. To acknowledge the role of dry-weather effective BMPs in providing wet-weather pollutant reductions, the dry weather schedule is referred to as the "dry- and wet-weather BMP schedule". To the extent possible, the durations for major work phases reflect the durations identified in Section 2.2 for each WBS element, however durations are shortened for implementing structural dry-weather BMPs to meet the dry-weather compliance deadline. Implementation has been broken into four phases, with a different emphasis in each phase:

- Phase I – Planning
- Phase II – Dry and Wet-Weather BMP Implementation
- Phase III – Wet-Weather BMP Implementation
- Phase IV – Refinement and Regional BMP Implementation

A general description of the activities anticipated in each phase is described in Table 5 and the schedule is illustrated in Figure 1.

Table 5
Description of Activities Proposed for each TMDL Implementation Schedule Phase

Phase	Proposed Activities
Phase 1	▪ Develop inter-agency agreements. ▪ Develop programs and begin implementation or initial pilot phases of all committed dry-weather non-structural activities ▪ Develop programs for pilot dry- and wet-weather non-structural activities ▪ Initiate planning and feasibility studies for committed and pilot dry-weather institutional & distributed BMPs ▪ Initiate planning and feasibility studies for regional pilot projects supportive of dry-weather compliance ▪ Initiate monitoring and additional studies. ▪ Consider information from SMBB/MCW Bacteria Reopener and adjust plan as needed.
Phase II	▪ Continue non-structural BMP implementation and adjust based on lessons-learned ▪ Consider information from MCW Bacteria Reopener and adjust plan as needed. ▪ Implement non-structural dry- and wet-weather pilot programs ▪ Begin program development and implementation of pilot phases of wet-weather non-structural committed BMPs ▪ Begin program development for non-structural wet-weather pilot BMPs ▪ Design and construct committed and pilot dry-weather institutional and distributed BMPs ▪ Complete feasibility study and construct subregional pilot projects supportive of dry weather compliance ▪ Initiate feasibility studies for distributed and institutional BMPs supportive of wet-weather compliance ▪ Continue monitoring and additional studies
Phase III	▪ Evaluate compliance efforts and results of non-structural and structural pilot studies. Refocus efforts based on pilot study results and new information; ▪ Continue to implement successful non-structural and structural pilot programs/projects ▪ Complete feasibility studies, design and construct committed and pilot wet-weather institutional & distributed BMPs ▪ Initiate feasibility studies for sub-regional pilot projects supportive of wet-weather ▪ Continue monitoring and additional studies
Phase IV	▪ Refocus and prioritize efforts based on feedback from monitoring and studies, pilot programs, and ongoing BMP projects and programs ▪ Continue implementation of successful non-structural BMPs ▪ Continue and expand implementation of successful institutional and distributed BMPs ▪ Plan, design, and construct pilot wet-weather regional/sub-regional BMPs ▪ Initiate additional sub-regional BMPs using lessons learned from pilot projects

Figure 1
Conceptual TMDL Implementation Plan Schedule for Integrated Plan with Dry Weather Extension

Schedule Item	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
TMDL Milestones																
TMDL	24-Jan															
Submit IP		24-Jan														
Summer Dry Weather Compliance				24-Jan												
Summer Dry Weather Compliance Extension							24-Jan									
Winter Dry Weather Compliance							24-Jan									
SMBB Reopener			15-Jul													
MCW Reopener				24-Jan												
Wet-Weather Compliance											24-Jan					
Wet-Weather Compliance Ext.																15-Jul
Proposed Implementation Phases																
Phase I – Planning		**Phase I**														
Phase II – Dry Weather BMP Implementation				**Phase II**												
Phase III – Wet-Weather BMP Implementation							**Phase III**									
Phase IV – Refinement and Regional BMP Implementation												**Phase IV**				

Figure 1
Conceptual TMDL Implementation Plan Schedule for Integrated Plan with Dry Weather Extension

Schedule Item	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
TMDL Milestones																
TMDL	24-Jan															
Submit IP		24-Jan														
Summer Dry Weather Compliance							24-Jan									
Winter Dry Weather Compliance							24-Jan									
SMBB Reopener			15-Jul													
MCW Reopener				24-Jan												
Wet-Weather Compliance																15-Jul
Proposed Implementation Phases																
Phase I – Planning		**Phase I**														
Phase II – Dry Weather BMP Implementation				**Phase II**												
Phase III – Wet-Weather BMP Implementation							**Phase III**									
Phase IV – Refinement and Regional BMP Implementation												**Phase IV**				
BMP Implementation																
Dry & Wet Weather																
Non-structural BMP-Committed-Dry		All														
Non-structural BMP-Pilot-Dry				High	Med	Low										
Dist/Inst BMP-Committed Dry - Programmatic				High	Med	Low										
Dist/Inst BMP-Pilot Dry - Programmatic					High/Med	Low										
Dist BMP-Committed -Dry – Constructed				High/Med	Low											
Dist BMP-Pilot- Dry-Constructed					High/Med	Low										
Regional BMP-Pilot-Dry					High											

BMP Implementation Notes:

All, High, Med, Low - indicates the approximate timing for BMP implementation by watershed priority

- Planning/Program Development/Planning/Feasibility
- Design and construct
- Pilot/Implement
- Operate, Evaluate, Revise, Expand

Figure 1
Conceptual TMDL Implementation Plan Schedule for Integrated Plan with Dry Weather Extension

Schedule Item	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
TMDL Milestones																
TMDL	24-Jan															
Submit IP		24-Jan														
Summer Dry Weather Compliance							24-Jan									
Winter Dry Weather Compliance							24-Jan									
SMBB Reopener			15-Jul													
MCW Reopener				24-Jan												
Wet-Weather Compliance																15-Jul
Proposed Implementation Phases																
Phase I – Planning		**Phase I**														
Phase II – Dry Weather BMP Implementation				**Phase II**												
Phase III – Wet-Weather BMP Implementation							**Phase III**									
Phase IV – Refinement and Regional BMP Implementation												**Phase IV**				
BMP Implementation **Wet-Weather**																
Non-structural BMP-Committed-Wet				All												
Non-structural BMP-Pilot-Wet					High	Medium	Low									
Dist/Inst BMP-Committed Wet – Programmatic							High/Med	Low								
Dist/Inst BMP-Pilot Wet – Programmatic								High/Med	Low							
Dist BMP-Committed-Wet - Constructed							High	Medium	Low							
Dist BMP-Pilot-Wet - Constructed								High	Med	Low						
Regional BMP-Pilot-Wet												High				

BMP Implementation Notes:

All, High, Med, Low - indicates the approximate timing for BMP implementation by watershed priority

- Planning/Program Development/Planning/Feasibility
- Design and construct
- Pilot/Implement
- Operate, Evaluate, Revise, Expand

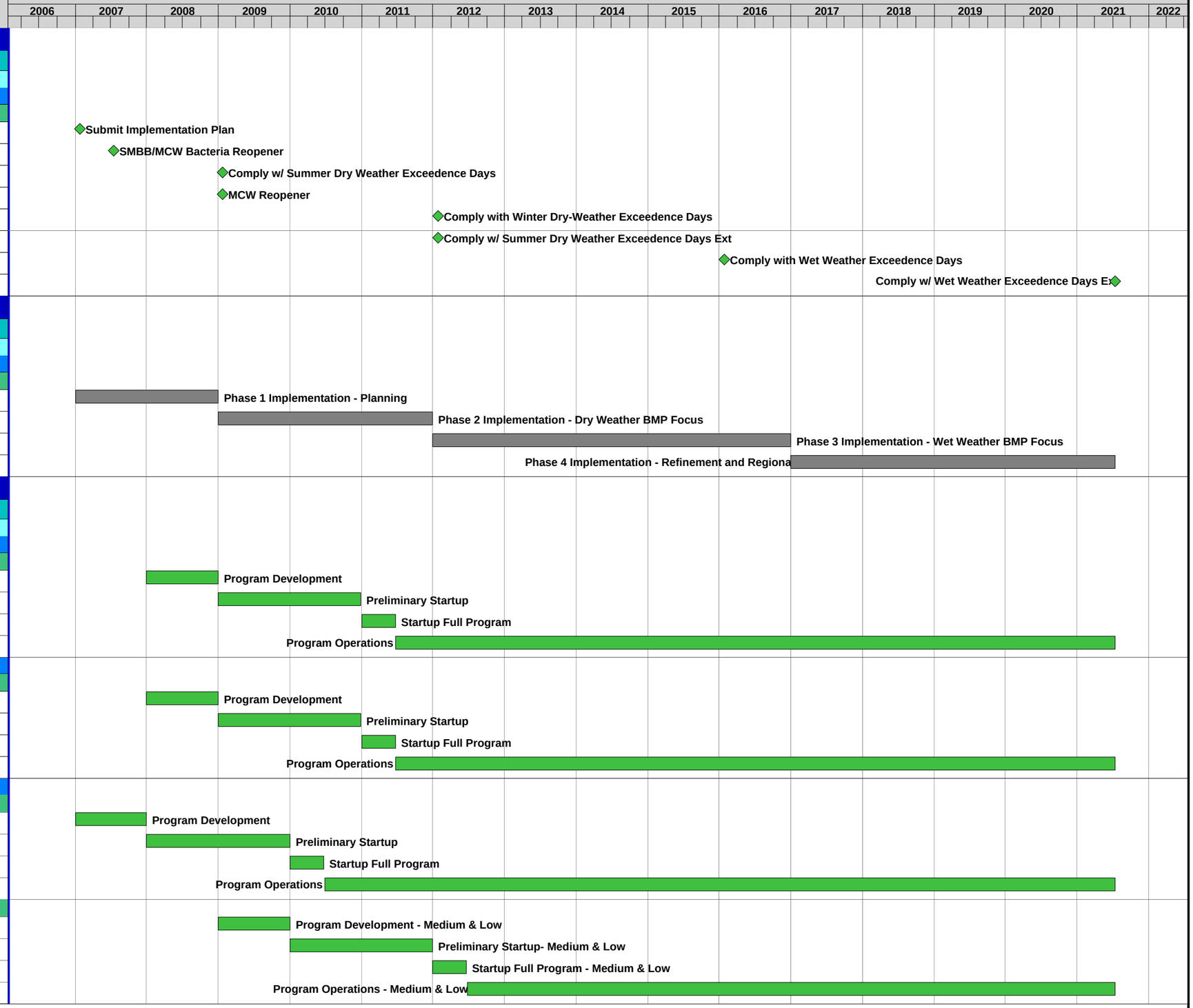
3.0 BMP Implementation Schedules

Detailed schedules for implementation of each BMP have been developed based on the conceptual schedule above. The schedules utilize Primavera Project Planner (P3) Critical Path Method (CPM). These schedules represent initial estimates of time frames for BMP implementation necessary to meet compliance deadlines As additional information is gathered and BMPs are piloted and refined it is likely that the schedule will be also be refined. Presented as Exhibit 1 is the Overall BMP implementation schedule, Exhibit 2 presents the Dry- and Wet-Weather BMP implementation schedule.

EXHIBIT 1

Overall BMP Implementation Schedule

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
TMDL Milestones				
A1020	Submit Implementation Plan	0		24JAN07*
A1022	SMBB/MCW Bacteria Reopener	0		15JUL07*
A1024	Comply w/ Summer Dry Weather Exceedence Days	0		24JAN09*
A1026	MCW Reopener	0		24JAN09*
A1028	Comply with Winter Dry-Weather Exceedence Days	0		24JAN12*
A1030	Comply w/ Summer Dry Weather Exceedence Days Ext	0		24JAN12*
A1032	Comply with Wet Weather Exceedence Days	0		24JAN16*
A1034	Comply w/ Wet Weather Exceedence Days Ext	0		15JUL21*
Proposed Implementation Plan				
A1080	Phase 1 Implementation - Planning	419	01JAN07*	31DEC08
A1090	Phase 2 Implementation - Dry Weather BMP Focus	625	01JAN09	29DEC11
A1095	Phase 3 Implementation - Wet Weather BMP Focus	1,044	02JAN12	29DEC16
A1097	Phase 4 Implementation - Refinement and Regional	948	02JAN17	15JUL21
Best Management Practices (BMP)				
Nonstructural BMPs				
Dry & Wet Weather				
Partnerships with HOAs to Increase Water Conserv				
Pilot				
A1117	Program Development	210	01JAN08*	31DEC08
A1118	Preliminary Startup	417	01JAN09	30DEC10
A1119	Startup Full Program	100	03JAN11	23JUN11
A1120	Program Operations	2,100	27JUN11	15JUL21
Offer Water Conservation in Programs at School				
Pilot				
B1120	Program Development	210	01JAN08*	31DEC08
B1124	Preliminary Startup	417	01JAN09	30DEC10
B1125	Startup Full Program	100	03JAN11	23JUN11
B1126	Program Operations	2,100	27JUN11	15JUL21
Outreach Fact Sheets -Point-of-Sale Distribution				
Committed				
C1100	Program Development	209	01JAN07*	31DEC07
C1105	Preliminary Startup	419	01JAN08	31DEC09
C1110	Startup Full Program	100	04JAN10	24JUN10
C1115	Program Operations	2,308	28JUN10	15JUL21
Pilot				
C1120	Program Development - Medium & Low	209	01JAN09*	31DEC09
C1124	Preliminary Startup- Medium & Low	416	04JAN10	29DEC11
C1125	Startup Full Program - Medium & Low	100	02JAN12	21JUN12
C1126	Program Operations - Medium & Low	1,892	25JUN12	15JUL21



Start Date	24JAN06
Finish Date	15JUL21
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Run Date	21AUG06 16:32

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TMDL Schedule For Integrated Plan With Dry Weather Extension

Date	Revision	Checked	Approved
21AUG06	FINAL	CAB	

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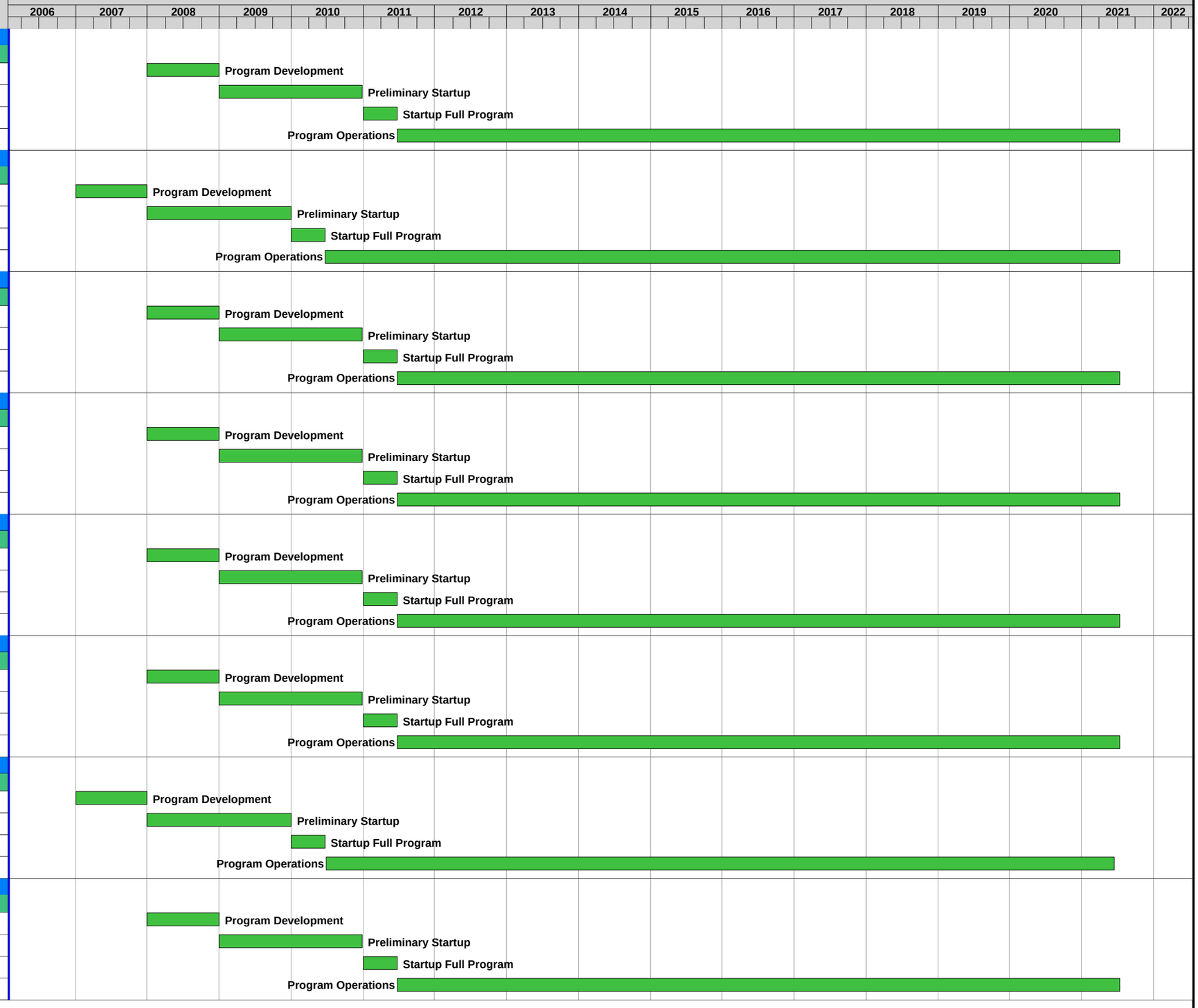
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
Work w/ LVMWD/ WBMWD/WWD 29 Support Water Audit				
Pilot				
A1302	Program Development	210	01JAN08*	31DEC08
A1303	Preliminary Startup	417	01JAN09	30DEC10
A1304	Startup Full Program	100	03JAN11	23JUN11
A1305	Program Operations	2,100	27JUN11	15JUL21
Horse Stables and Animal Facility Outreach				
Committed				
A2105	Program Development	210	01JAN07*	01JAN08
A2110	Preliminary Startup	417	02JAN08	30DEC09
A2115	Startup Full Program	100	31DEC09	23JUN10
A2116	Program Operations	2,309	24JUN10	15JUL21
Develop an Inventory of Areas w/ Confined Animal				
Pilot				
A2046	Program Development	210	01JAN08*	31DEC08
A2047	Preliminary Startup	417	01JAN09	30DEC10
A2048	Startup Full Program	100	03JAN11	23JUN11
A2049	Program Operations	2,100	27JUN11	15JUL21
Recreational Vehicle Disposal Site Outreach Prog				
Pilot				
A2062	Program Development	210	01JAN08*	31DEC08
A2063	Preliminary Startup	417	01JAN09	30DEC10
A2064	Startup Full Program	100	03JAN11	23JUN11
A2065	Program Operations	2,100	27JUN11	15JUL21
Coord w/ Watershed Identify Method for Visitors				
Pilot				
A2072	Program Development	210	01JAN08*	31DEC08
A2073	Preliminary Startup	417	01JAN09	30DEC10
A2074	Startup Full Program	100	03JAN11	23JUN11
A2075	Program Operations	2,100	27JUN11	15JUL21
Outreach at Trailheads Regarding Waste Disposal				
Pilot				
C1230	Program Development	210	01JAN08*	31DEC08
C1233	Preliminary Startup	417	01JAN09	30DEC10
C1234	Startup Full Program	100	03JAN11	23JUN11
C1235	Program Operations	2,100	27JUN11	15JUL21
Coord Mtgs Btw Agencies and Enviro Organizations				
Committed				
C1305	Program Development	209	01JAN07*	31DEC07
C1310	Preliminary Startup	419	01JAN08	31DEC09
C1315	Startup Full Program	100	04JAN10	24JUN10
C1325	Program Operations	2,290	28JUN10	15JUN21
Develop Target Outreach for Busines w/ Pollutant				
Pilot				
A2082	Program Development	210	01JAN08*	31DEC08
A2083	Preliminary Startup	417	01JAN09	30DEC10
A2084	Startup Full Program	100	03JAN11	23JUN11
A2085	Program Operations	2,100	27JUN11	15JUL21



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TMDL Schedule For Integrated Plan With Dry Weather Extension

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21AUG06	FINAL	CAB	

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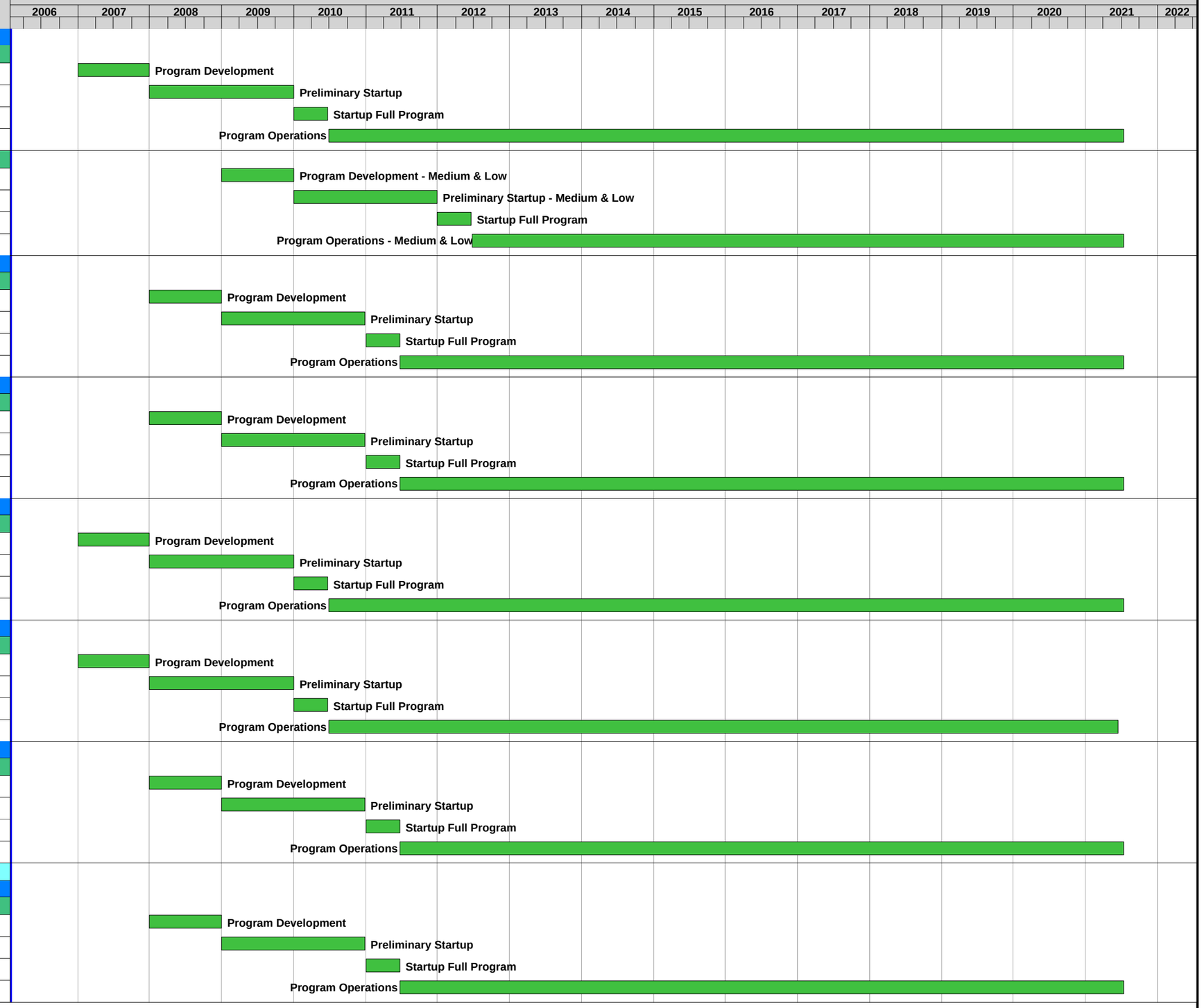
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
Emergency Spill Management				
Committed				
B3100	Program Development	209	01JAN07*	31DEC07
B3105	Preliminary Startup	419	01JAN08	31DEC09
B3110	Startup Full Program	100	04JAN10	24JUN10
B3115	Program Operations	2,308	28JUN10	15JUL21
Pilot				
B3120	Program Development - Medium & Low	208	01JAN09*	30DEC09
B3124	Preliminary Startup - Medium & Low	417	31DEC09	29DEC11
B3125	Startup Full Program	100	02JAN12	21JUN12
B3126	Program Operations - Medium & Low	1,892	25JUN12	15JUL21
Additional Trash Pick Up During High Use Periods				
Pilot				
B3150	Program Development	210	01JAN08*	31DEC08
B3154	Preliminary Startup	417	01JAN09	30DEC10
B3155	Startup Full Program	100	03JAN11	23JUN11
B3156	Program Operations	2,100	27JUN11	15JUL21
Assure that Contractors Provide BMP Maintenance				
Pilot				
C2050	Program Development	210	01JAN08*	31DEC08
C2054	Preliminary Startup	417	01JAN09	30DEC10
C2055	Startup Full Program	100	03JAN11	23JUN11
C2056	Program Operations	2,100	27JUN11	15JUL21
Provide (OWTS) Pumpers and Customers w/ Guides				
Committed				
A3080	Program Development	209	01JAN07*	31DEC07
A3085	Preliminary Startup	419	01JAN08	31DEC09
A3090	Startup Full Program	100	04JAN10	24JUN10
A3095	Program Operations	2,308	28JUN10	15JUL21
Investigate Incentive Prog for Replacing Septic				
Committed				
E3080	Program Development	209	01JAN07*	31DEC07
E3085	Preliminary Startup	419	01JAN08	31DEC09
E3090	Startup Full Program	100	04JAN10	24JUN10
E3095	Program Operations	2,290	28JUN10	15JUN21
Septic Inspections Upon Change in Ownership				
Pilot				
A3720	Program Development	210	01JAN08*	31DEC08
A3724	Preliminary Startup	417	01JAN09	30DEC10
A3725	Startup Full Program	100	03JAN11	23JUN11
A3726	Program Operations	2,100	27JUN11	15JUL21
Wet Weather				
Outreach to Pet Owners Link Waste to Water Quals				
Committed				
C1150	Program Development	210	01JAN08*	31DEC08
C1153	Preliminary Startup	417	01JAN09	30DEC10
C1156	Startup Full Program	100	03JAN11	23JUN11
C1159	Program Operations	2,100	27JUN11	15JUL21



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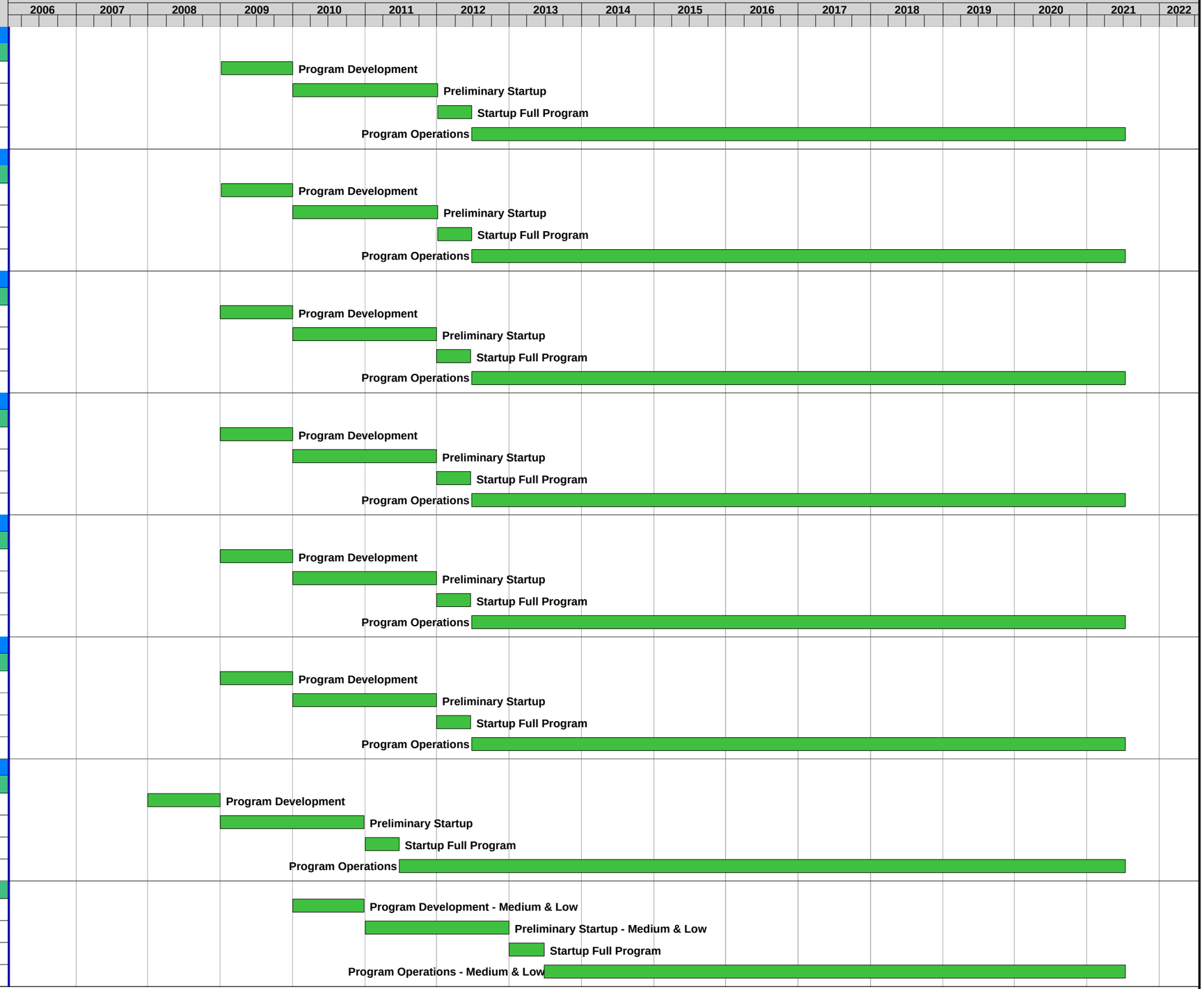
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
Place Pet Waste Bag Dispensers at Trailheads				
Pilot				
C1212	Program Development	208	05JAN09*	31DEC09
C1213	Preliminary Startup	417	04JAN10	02JAN12
C1214	Startup Full Program	100	03JAN12	25JUN12
C1215	Program Operations	1,891	26JUN12	15JUL21
Post Signs at City/County Trailheads 4 Clean-up				
Pilot				
C1220	Program Development	208	05JAN09*	31DEC09
C1223	Preliminary Startup	417	04JAN10	02JAN12
C1224	Startup Full Program	100	03JAN12	25JUN12
C1225	Program Operations	1,891	26JUN12	15JUL21
Trash Hauler Outreach				
Pilot				
C1340	Program Development	208	01JAN09*	30DEC09
C1341	Preliminary Startup	417	31DEC09	29DEC11
C1342	Startup Full Program	100	02JAN12	21JUN12
C1343	Program Operations	1,892	25JUN12	15JUL21
Expand Media Partnership with Caltrans				
Pilot				
C1351	Program Development	208	01JAN09*	30DEC09
C1352	Preliminary Startup	417	31DEC09	29DEC11
C1353	Startup Full Program	100	02JAN12	21JUN12
C1354	Program Operations	1,892	25JUN12	15JUL21
Develop Min Req's & Program to Enforce Sweeping				
Pilot				
C1355	Program Development	208	01JAN09*	30DEC09
C1359	Preliminary Startup	417	31DEC09	29DEC11
C1360	Startup Full Program	100	02JAN12	21JUN12
C1361	Program Operations	1,892	25JUN12	15JUL21
Modify Inspection Staff Training to Include BMPs				
Pilot				
C1365	Program Development	208	01JAN09*	30DEC09
C1369	Preliminary Startup	417	31DEC09	29DEC11
C1370	Startup Full Program	100	02JAN12	21JUN12
C1371	Program Operations	1,892	25JUN12	15JUL21
Increase Emphasis on BMPS that Reduce Pollutants				
Committed				
C1400	Program Development	210	01JAN08*	31DEC08
C1405	Preliminary Startup	417	01JAN09	30DEC10
C1410	Startup Full Program	100	03JAN11	23JUN11
C1415	Program Operations	2,100	27JUN11	15JUL21
Pilot				
C1420	Program Development - Medium & Low	208	04JAN10*	30DEC10
C1424	Preliminary Startup - Medium & Low	417	03JAN11	31DEC12
C1425	Startup Full Program	100	01JAN13	24JUN13
C1426	Program Operations - Medium & Low	1,683	25JUN13	15JUL21



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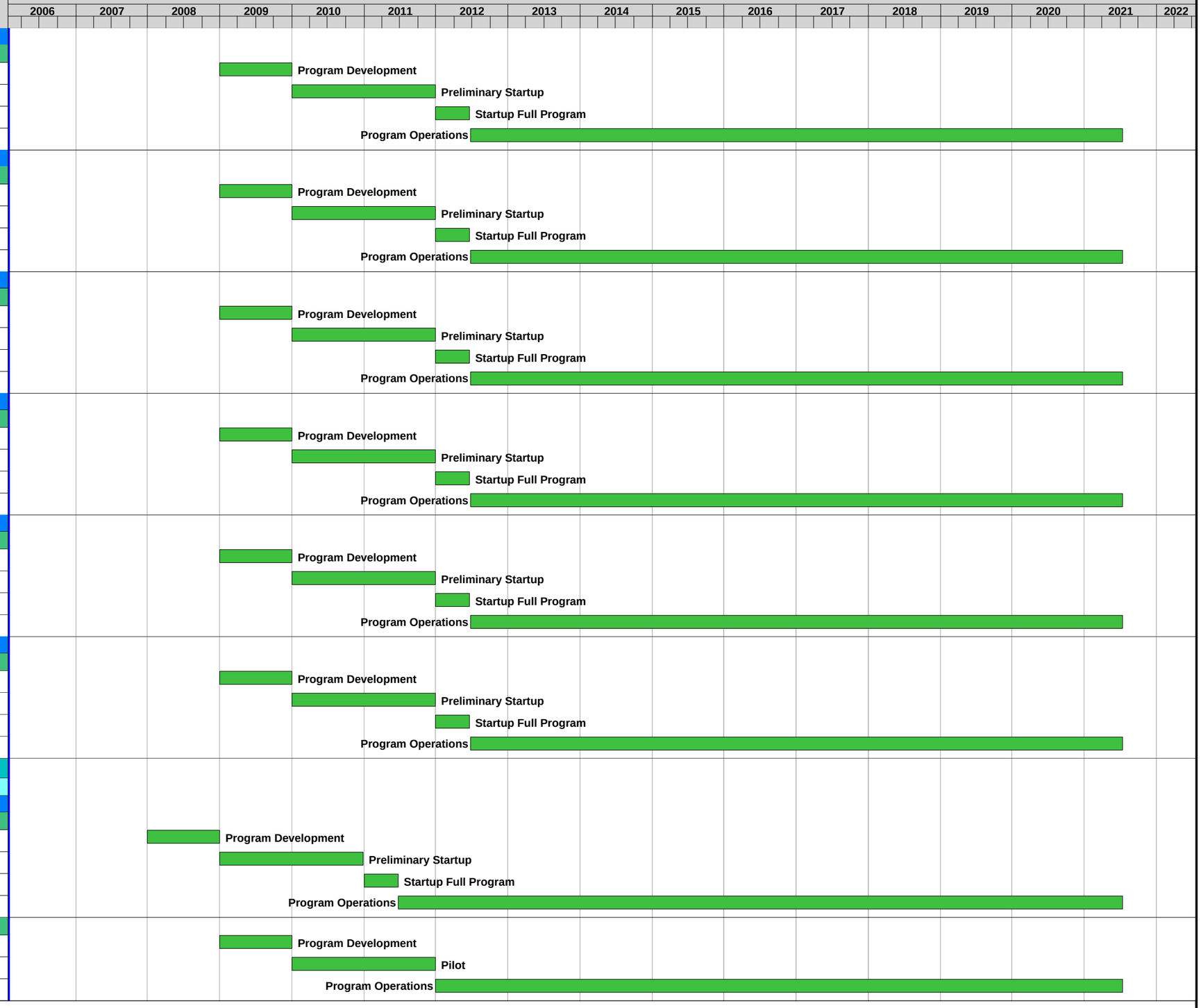
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
Incorporate TMDL Requirements into CEQA Process				
Pilot				
C1500	Program Development	209	01JAN09*	31DEC09
C1504	Preliminary Startup	416	04JAN10	29DEC11
C1505	Startup Full Program	100	02JAN12	21JUN12
C1506	Program Operations	1,892	25JUN12	15JUL21
Increase Inspections of Post-Development BMPs				
Pilot				
C1520	Program Development	209	01JAN09*	31DEC09
C1524	Preliminary Startup	416	04JAN10	29DEC11
C1525	Startup Full Program	100	02JAN12	21JUN12
C1526	Program Operations	1,892	25JUN12	15JUL21
Enhance Education Projects Outside SUSMP/SQUMP				
Pilot				
C1530	Program Development	209	01JAN09*	31DEC09
C1534	Preliminary Startup	416	04JAN10	29DEC11
C1535	Startup Full Program	100	02JAN12	21JUN12
C1536	Program Operations	1,892	25JUN12	15JUL21
Develop Vegetative Filter BMP				
Pilot				
C1540	Program Development	209	01JAN09*	31DEC09
C1544	Preliminary Startup	416	04JAN10	29DEC11
C1545	Startup Full Program	100	02JAN12	21JUN12
C1546	Program Operations	1,892	25JUN12	15JUL21
Complete BMP TechManual & H2O Quality Impairment				
Pilot				
C1550	Program Development	209	01JAN09*	31DEC09
C1554	Preliminary Startup	416	04JAN10	29DEC11
C1555	Startup Full Program	100	02JAN12	21JUN12
C1556	Program Operations	1,892	25JUN12	15JUL21
Establish Cleaning Cycles for Drainage Facilitie				
Pilot				
B3160	Program Development	209	01JAN09*	31DEC09
B3164	Preliminary Startup	416	04JAN10	29DEC11
B3165	Startup Full Program	100	02JAN12	21JUN12
B3166	Program Operations	1,892	25JUN12	15JUL21
Institutional				
Dry & Wet Weather				
Development Standards				
Committed				
A3760	Program Development	210	01JAN08*	31DEC08
A3765	Preliminary Startup	417	01JAN09	30DEC10
A3770	Startup Full Program	100	03JAN11	23JUN11
A3775	Program Operations	2,100	27JUN11	15JUL21
Pilot				
A3780	Program Development	209	01JAN09*	31DEC09
A3785	Pilot	416	04JAN10	29DEC11
A3786	Program Operations	1,992	02JAN12	15JUL21



Start Date 24JAN06
Finish Date 15JUL21
Data Date 24JAN06
Run Date 21AUG06 16:32

Early Bar
Progress Bar
Critical Activity

TMD1

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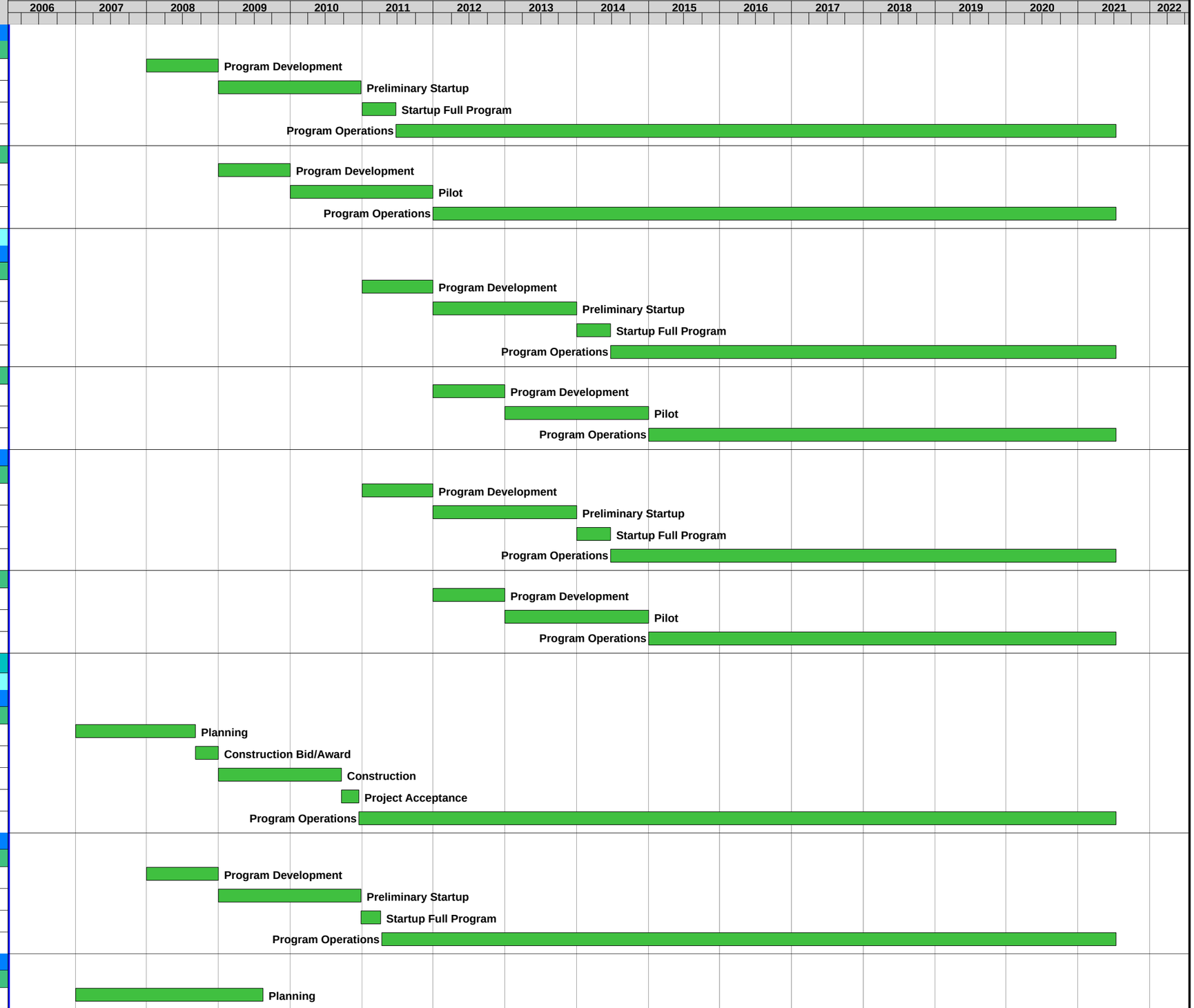
TMDL Schedule For Integrated Plan With Dry Weather Extension

Date	Revision	Checked	Approved
21AUG06	FINAL	CAB	

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
Voluntary Horse Farm Retrofit Program				
Committed				
A4000	Program Development	210	01JAN08*	31DEC08
A4005	Preliminary Startup	417	01JAN09	30DEC10
A4010	Startup Full Program	100	03JAN11	23JUN11
A4015	Program Operations	2,100	27JUN11	15JUL21
Pilot				
A4020	Program Development	209	01JAN09*	31DEC09
A4025	Pilot	416	04JAN10	29DEC11
A4026	Program Operations	1,992	02JAN12	15JUL21
Wet Weather				
Voluntary Downspout Redirect Program				
Committed				
D1100	Program Development	208	03JAN11*	29DEC11
D1105	Preliminary Startup	418	02JAN12	31DEC13
D1110	Startup Full Program	100	01JAN14	24JUN14
D1115	Program Operations	1,474	25JUN14	15JUL21
Pilot				
D1120	Program Development	209	02JAN12*	31DEC12
D1125	Pilot	418	01JAN13	31DEC14
D1126	Program Operations	1,365	01JAN15	15JUL21
Stream Buffers				
Committed				
D1130	Program Development	208	03JAN11*	29DEC11
D1135	Preliminary Startup	418	02JAN12	31DEC13
D1140	Startup Full Program	100	01JAN14	24JUN14
D1145	Program Operations	1,474	25JUN14	15JUL21
Pilot				
D1150	Program Development	209	02JAN12*	31DEC12
D1155	Pilot	418	01JAN13	31DEC14
D1156	Program Operations	1,365	01JAN15	15JUL21
Distributed				
Dry & Wet Weather				
Vegetated Treatment Systems - Construction				
Committed				
B3600	Planning	350	01JAN07*	02SEP08
B3605	Construction Bid/Award	69	03SEP08	31DEC08
B3610	Construction	625	01JAN09	17SEP10
B3615	Project Acceptance	52	20SEP10	16DEC10
B3617	Program Operations	2,208	20DEC10	15JUL21
Vegetated Treatment Systems - Program				
Committed				
P3600	Program Development	210	01JAN08*	31DEC08
P3605	Preliminary Startup	417	01JAN09	30DEC10
P3610	Startup Full Program	100	31DEC10	09APR11
P3615	Program Operations	2,144	11APR11	15JUL21
Local Infiltration Systems - Construction				
Pilot				
T3600	Planning	549	01JAN07*	17AUG09



Start Date 24JAN06
Finish Date 15JUL21
Data Date 24JAN06
Run Date 21AUG06 16:32

Early Bar
Progress Bar
Critical Activity

TMD1

Sheet 6 of 8

LACDPW

TMDL Schedule For Integrated Plan With Dry Weather Extension

Date	Revision	Checked	Approved
21AUG06	FINAL	CAB	

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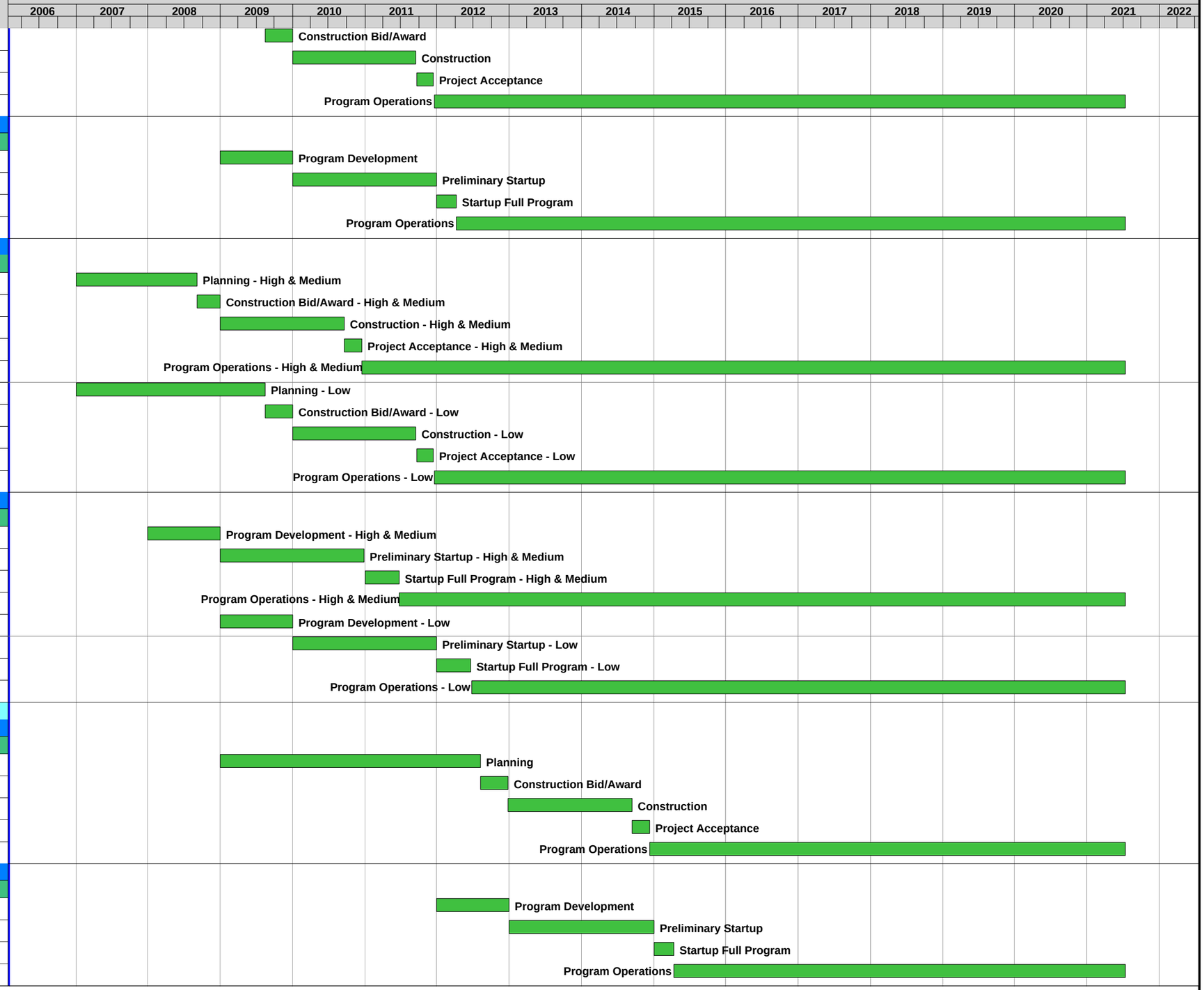
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
T3605	Construction Bid/Award	79	18AUG09	31DEC09
T3610	Construction	625	01JAN10	17SEP11
T3615	Project Acceptance	52	19SEP11	15DEC11
T3617	Program Operations	2,000	19DEC11	15JUL21
Local Infiltration Systems - Program				
Pilot				
R3600	Program Development	209	01JAN09*	31DEC09
R3605	Preliminary Startup	416	04JAN10	29DEC11
R3610	Startup Full Program	100	30DEC11	07APR12
R3615	Program Operations	1,936	09APR12	15JUL21
St & Parking Lot Biofiltration Retrofit Constuct				
Committed				
B4146	Planning - High & Medium	350	01JAN07*	02SEP08
B4147	Construction Bid/Award - High & Medium	69	03SEP08	31DEC08
B4148	Construction - High & Medium	625	01JAN09	17SEP10
B4149	Project Acceptance - High & Medium	52	20SEP10	16DEC10
B4151	Program Operations - High & Medium	2,208	20DEC10	15JUL21
B4200	Planning - Low	549	01JAN07*	17AUG09
B4205	Construction Bid/Award - Low	79	18AUG09	31DEC09
B4210	Construction - Low	625	01JAN10	17SEP11
B4215	Project Acceptance - Low	52	19SEP11	15DEC11
B4220	Program Operations - Low	2,000	19DEC11	15JUL21
St & Parking Lot Biofiltration Retrofit Program				
Committed				
I4146	Program Development - High & Medium	210	01JAN08*	31DEC08
I4147	Preliminary Startup - High & Medium	417	01JAN09	30DEC10
I4148	Startup Full Program - High & Medium	100	03JAN11	23JUN11
I4149	Program Operations - High & Medium	2,100	27JUN11	15JUL21
I4200	Program Development - Low	209	01JAN09*	31DEC09
I4205	Preliminary Startup - Low	416	04JAN10	29DEC11
I4210	Startup Full Program - Low	100	02JAN12	21JUN12
I4215	Program Operations - Low	1,892	25JUN12	15JUL21
Wet Weather				
Local Detention - Construction				
Pilot				
S3600	Planning	752	01JAN09*	08AUG12
S3605	Construction Bid/Award	79	09AUG12	25DEC12
S3610	Construction	625	26DEC12	11SEP14
S3615	Project Acceptance	52	15SEP14	11DEC14
S3617	Program Operations	1,376	15DEC14	15JUL21
Local Detention - Program				
Pilot				
S4590	Program Development	209	02JAN12*	31DEC12
S4592	Preliminary Startup	418	01JAN13	31DEC14
S4594	Startup Full Program	100	01JAN15	10APR15
S4596	Program Operations	1,308	13APR15	15JUL21



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Early Bar
Progress Bar
Critical Activity

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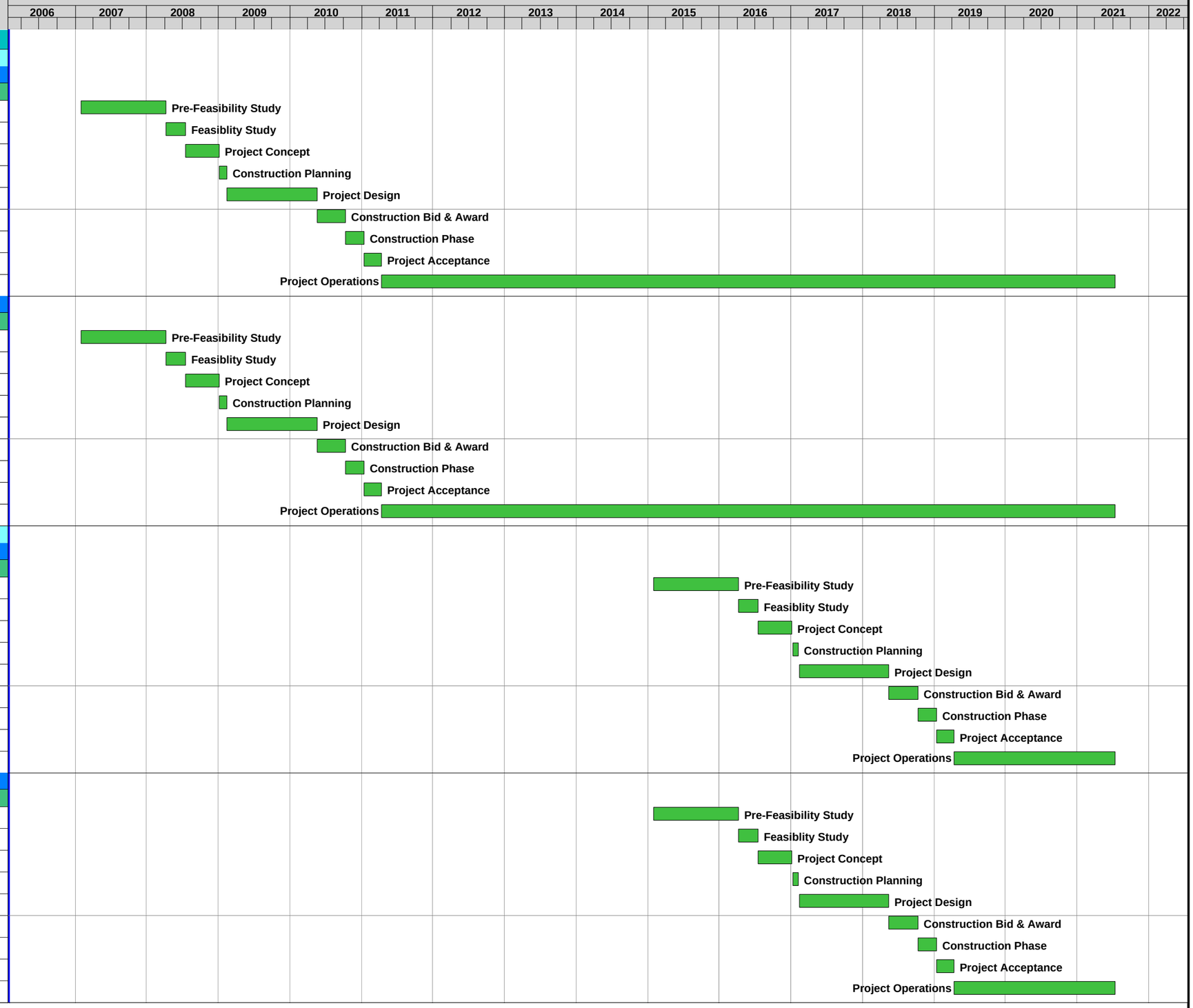
TMDL Schedule For Integrated Plan With Dry Weather Extension

Date	Revision	Checked	Approved
21AUG06	FINAL	CAB	

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
Regional				
Dry & Wet Weather				
Regional Infiltration				
Pilot				
K1010	Pre-Feasibility Study	248	01FEB07*	09APR08
K1030	Feasiblity Study	56	10APR08	16JUL08
K1040	Project Concept	100	17JUL08	07JAN09
K1050	Construction Planning	20	08JAN09	11FEB09
K1060	Project Design	262	12FEB09	17MAY10
K1070	Construction Bid & Award	84	18MAY10	11OCT10
K1080	Construction Phase	97	12OCT10	16JAN11
K1090	Project Acceptance	51	17JAN11	13APR11
K1100	Project Operations	2,141	14APR11	15JUL21
Regional Natural Treatment System				
Pilot				
J1010	Pre-Feasibility Study	248	01FEB07*	09APR08
J1030	Feasiblity Study	56	10APR08	16JUL08
J1040	Project Concept	100	17JUL08	07JAN09
J1050	Construction Planning	20	08JAN09	11FEB09
J1060	Project Design	262	12FEB09	17MAY10
J1070	Construction Bid & Award	84	18MAY10	11OCT10
J1080	Construction Phase	97	12OCT10	16JAN11
J1090	Project Acceptance	51	17JAN11	13APR11
J1100	Project Operations	2,141	14APR11	15JUL21
Wet Weather				
Regional Infiltration				
Pilot				
E1010	Pre-Feasibility Study	248	02FEB15*	07APR16
E1030	Feasiblity Study	56	11APR16	14JUL16
E1040	Project Concept	100	18JUL16	05JAN17
E1050	Construction Planning	20	09JAN17	09FEB17
E1060	Project Design	262	13FEB17	15MAY18
E1070	Construction Bid & Award	84	16MAY18	09OCT18
E1080	Construction Phase	97	10OCT18	14JAN19
E1090	Project Acceptance	51	15JAN19	11APR19
E1100	Project Operations	472	15APR19	15JUL21
Regional Natural Treatment System				
Pilot				
G1010	Pre-Feasibility Study	248	02FEB15*	07APR16
G1030	Feasiblity Study	56	11APR16	14JUL16
G1040	Project Concept	100	18JUL16	05JAN17
G1050	Construction Planning	20	09JAN17	09FEB17
G1060	Project Design	262	13FEB17	15MAY18
G1070	Construction Bid & Award	84	16MAY18	09OCT18
G1080	Construction Phase	97	10OCT18	14JAN19
G1090	Project Acceptance	51	15JAN19	11APR19
G1100	Project Operations	472	15APR19	15JUL21



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Run Date 21AUG06 16:36

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TMDL Schedule For Integrated Plan With Dry Weather Extension

Date	Revision	Checked	Approved
21AUG06	FINAL	CAB	

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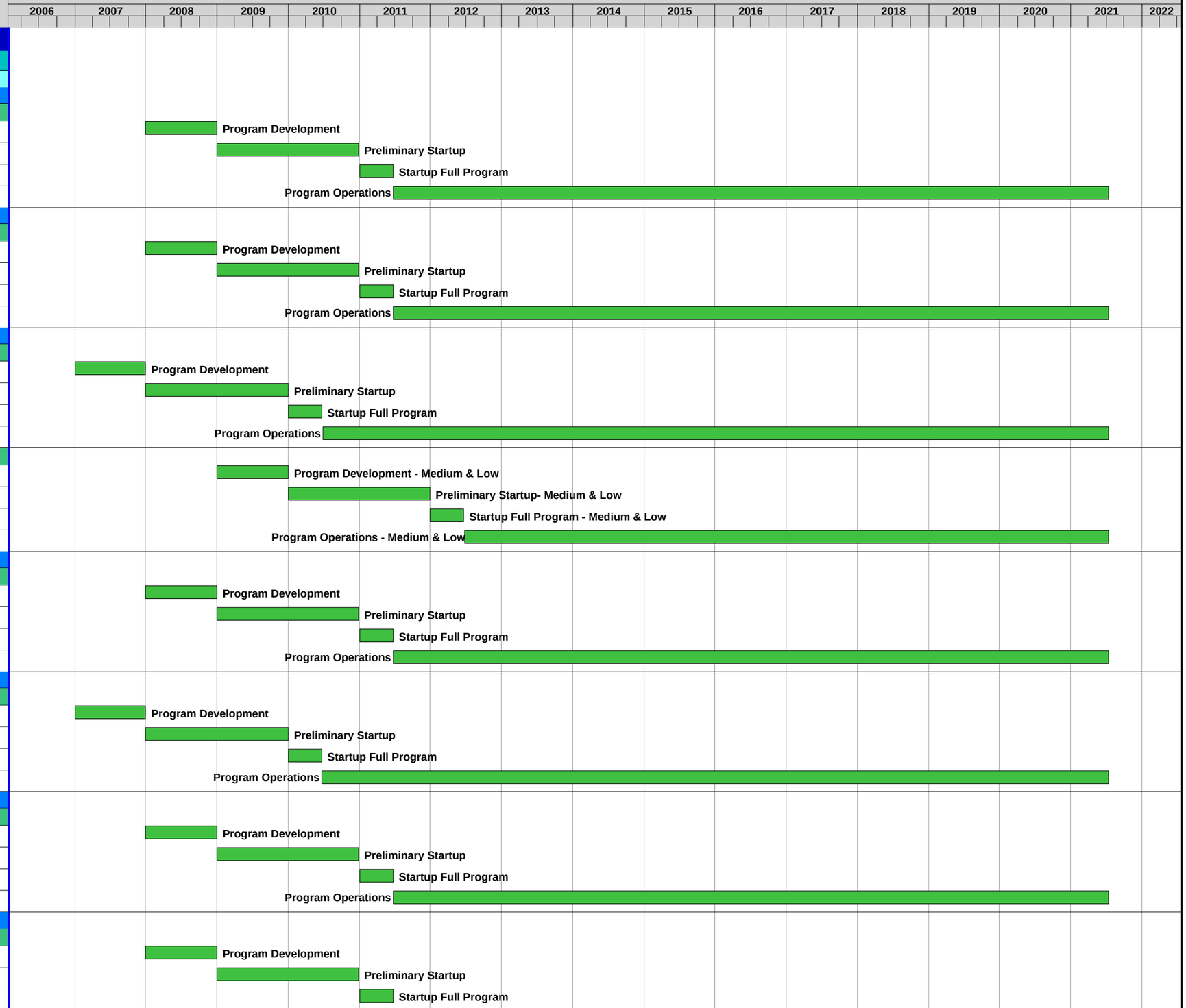
EXHIBIT 2

Dry- and Wet-Weather BMP Implementation Schedule

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
Best Management Practices (BMP)				
Nonstructural BMPs				
Dry & Wet Weather				
Partnerships with HOAs to Increase Water Conserv				
Pilot				
A1117	Program Development	210	01JAN08*	31DEC08
A1118	Preliminary Startup	417	01JAN09	30DEC10
A1119	Startup Full Program	100	03JAN11	23JUN11
A1120	Program Operations	2,100	27JUN11	15JUL21
Offer Water Conservation in Programs at School				
Pilot				
B1120	Program Development	210	01JAN08*	31DEC08
B1124	Preliminary Startup	417	01JAN09	30DEC10
B1125	Startup Full Program	100	03JAN11	23JUN11
B1126	Program Operations	2,100	27JUN11	15JUL21
Outreach Fact Sheets -Point-of-Sale Distribution				
Committed				
C1100	Program Development	209	01JAN07*	31DEC07
C1105	Preliminary Startup	419	01JAN08	31DEC09
C1110	Startup Full Program	100	04JAN10	24JUN10
C1115	Program Operations	2,308	28JUN10	15JUL21
Pilot				
C1120	Program Development - Medium & Low	209	01JAN09*	31DEC09
C1124	Preliminary Startup- Medium & Low	416	04JAN10	29DEC11
C1125	Startup Full Program - Medium & Low	100	02JAN12	21JUN12
C1126	Program Operations - Medium & Low	1,892	25JUN12	15JUL21
Work w/ LVMWD/ WBMWD/WWD 29 Support Water Audit				
Pilot				
A1302	Program Development	210	01JAN08*	31DEC08
A1303	Preliminary Startup	417	01JAN09	30DEC10
A1304	Startup Full Program	100	03JAN11	23JUN11
A1305	Program Operations	2,100	27JUN11	15JUL21
Horse Stables and Animal Facility Outreach				
Committed				
A2105	Program Development	210	01JAN07*	01JAN08
A2110	Preliminary Startup	417	02JAN08	30DEC09
A2115	Startup Full Program	100	31DEC09	23JUN10
A2116	Program Operations	2,309	24JUN10	15JUL21
Develop an Inventory of Areas w/ Confined Animal				
Pilot				
A2046	Program Development	210	01JAN08*	31DEC08
A2047	Preliminary Startup	417	01JAN09	30DEC10
A2048	Startup Full Program	100	03JAN11	23JUN11
A2049	Program Operations	2,100	27JUN11	15JUL21
Recreational Vehicle Disposal Site Outreach Prog				
Pilot				
A2062	Program Development	210	01JAN08*	31DEC08
A2063	Preliminary Startup	417	01JAN09	30DEC10
A2064	Startup Full Program	100	03JAN11	23JUN11



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Early Bar
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TMDL Schedule For Integrated Plan With Dry Weather Extension

Date	Revision	Checked	Approved
21AUG06	FINAL	CAB	

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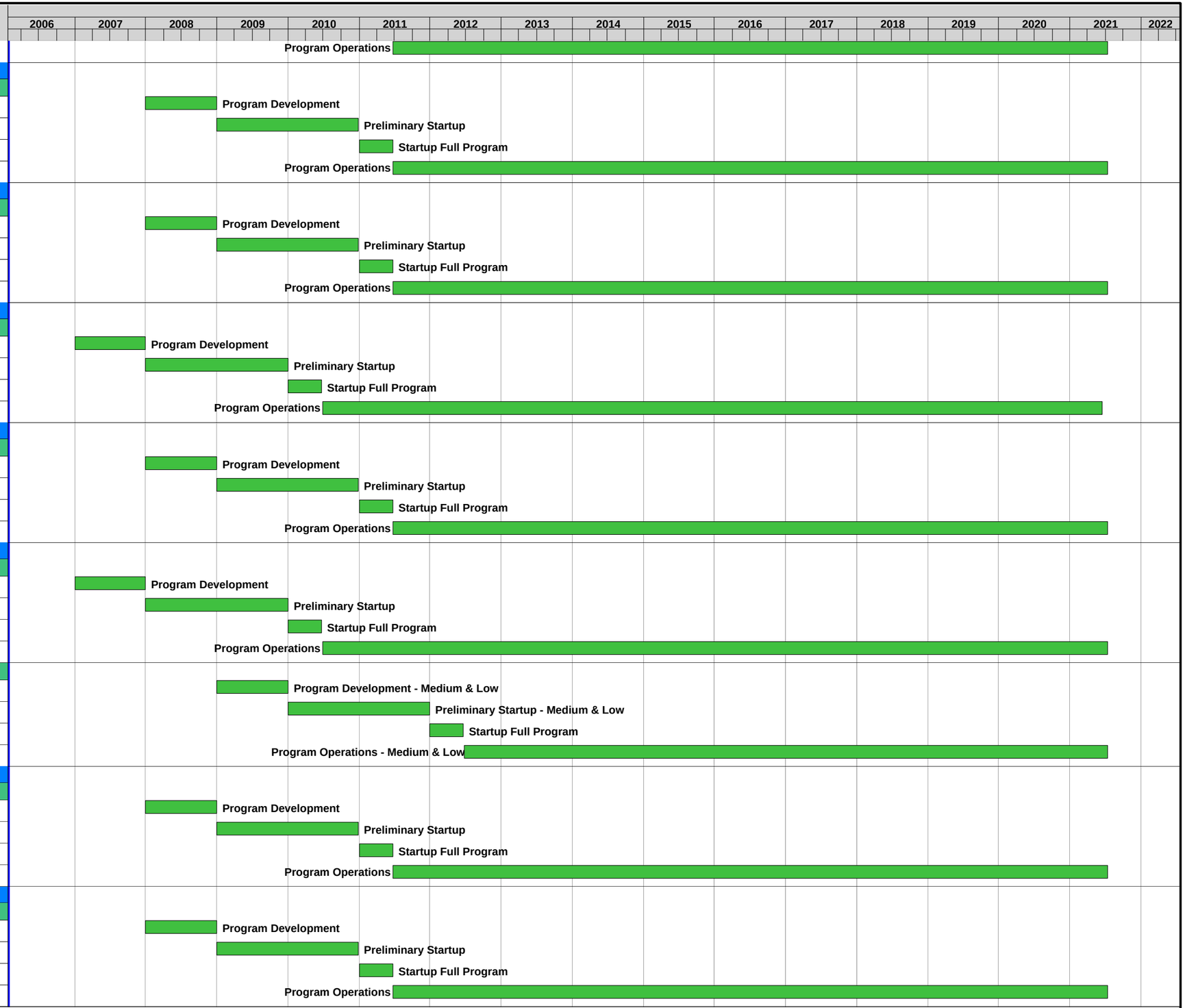
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
A2065	Program Operations	2,100	27JUN11	15JUL21
Coord w/ Watershed Identify Method for Visitors				
Pilot				
A2072	Program Development	210	01JAN08*	31DEC08
A2073	Preliminary Startup	417	01JAN09	30DEC10
A2074	Startup Full Program	100	03JAN11	23JUN11
A2075	Program Operations	2,100	27JUN11	15JUL21
Outreach at Trailheads Regarding Waste Disposal				
Pilot				
C1230	Program Development	210	01JAN08*	31DEC08
C1233	Preliminary Startup	417	01JAN09	30DEC10
C1234	Startup Full Program	100	03JAN11	23JUN11
C1235	Program Operations	2,100	27JUN11	15JUL21
Coord Mtgs Btw Agencies and Enviro Organizations				
Committed				
C1305	Program Development	209	01JAN07*	31DEC07
C1310	Preliminary Startup	419	01JAN08	31DEC09
C1315	Startup Full Program	100	04JAN10	24JUN10
C1325	Program Operations	2,290	28JUN10	15JUN21
Develop Target Outreach for Busines w/ Pollutant				
Pilot				
A2082	Program Development	210	01JAN08*	31DEC08
A2083	Preliminary Startup	417	01JAN09	30DEC10
A2084	Startup Full Program	100	03JAN11	23JUN11
A2085	Program Operations	2,100	27JUN11	15JUL21
Emergency Spill Management				
Committed				
B3100	Program Development	209	01JAN07*	31DEC07
B3105	Preliminary Startup	419	01JAN08	31DEC09
B3110	Startup Full Program	100	04JAN10	24JUN10
B3115	Program Operations	2,308	28JUN10	15JUL21
Pilot				
B3120	Program Development - Medium & Low	208	01JAN09*	30DEC09
B3124	Preliminary Startup - Medium & Low	417	31DEC09	29DEC11
B3125	Startup Full Program	100	02JAN12	21JUN12
B3126	Program Operations - Medium & Low	1,892	25JUN12	15JUL21
Additional Trash Pick Up During High Use Periods				
Pilot				
B3150	Program Development	210	01JAN08*	31DEC08
B3154	Preliminary Startup	417	01JAN09	30DEC10
B3155	Startup Full Program	100	03JAN11	23JUN11
B3156	Program Operations	2,100	27JUN11	15JUL21
Assure that Contractors Provide BMP Maintenance				
Pilot				
C2050	Program Development	210	01JAN08*	31DEC08
C2054	Preliminary Startup	417	01JAN09	30DEC10
C2055	Startup Full Program	100	03JAN11	23JUN11
C2056	Program Operations	2,100	27JUN11	15JUL21



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Early Bar
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TMDL Schedule For Integrated Plan With Dry Weather Extension

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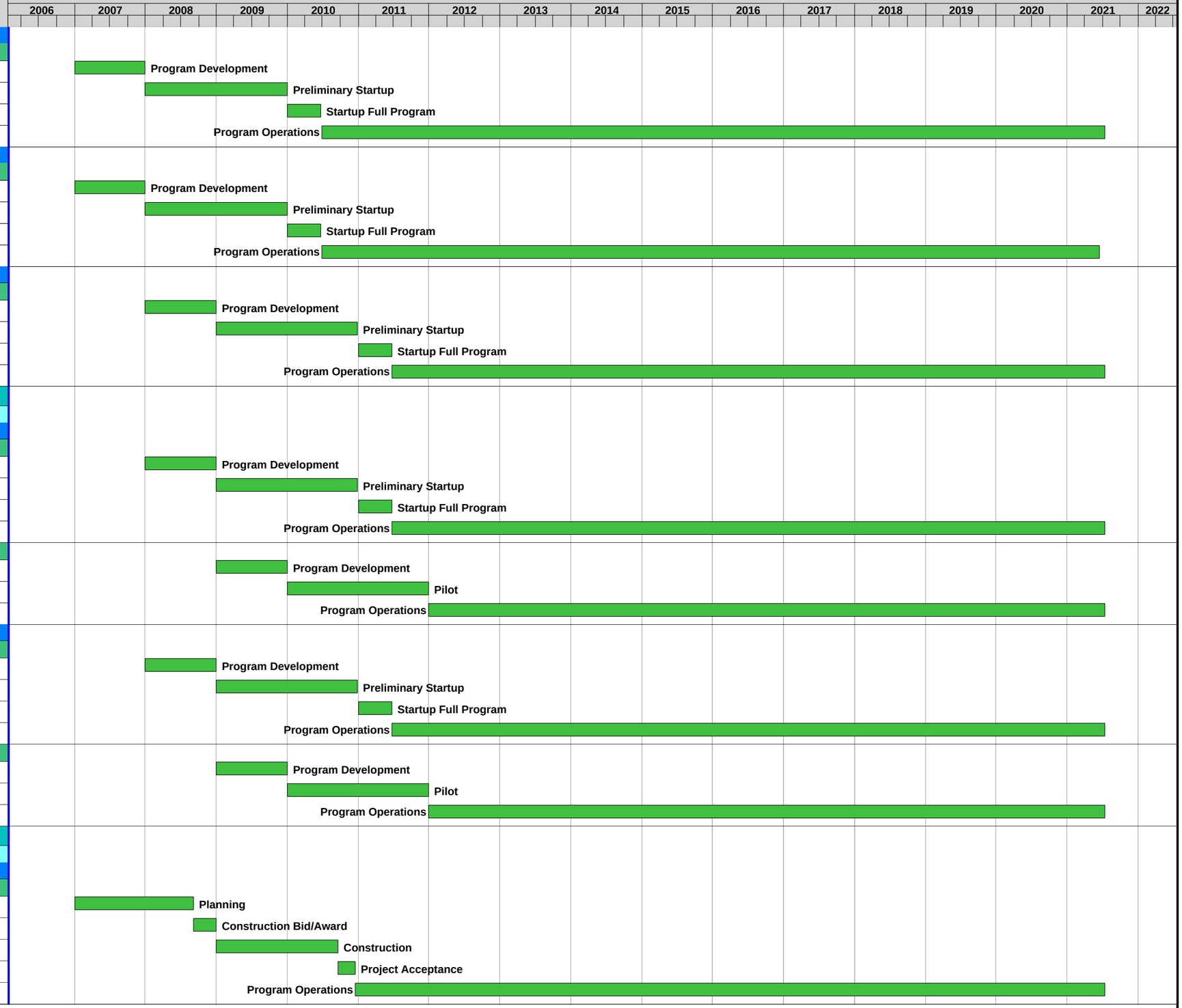
CDM

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
Provide (OWTS) Pumpers and Customers w/ Guides				
Committed				
A3080	Program Development	209	01JAN07*	31DEC07
A3085	Preliminary Startup	419	01JAN08	31DEC09
A3090	Startup Full Program	100	04JAN10	24JUN10
A3095	Program Operations	2,308	28JUN10	15JUL21
Investigate Incentive Prog for Replacing Septic				
Committed				
E3080	Program Development	209	01JAN07*	31DEC07
E3085	Preliminary Startup	419	01JAN08	31DEC09
E3090	Startup Full Program	100	04JAN10	24JUN10
E3095	Program Operations	2,290	28JUN10	15JUN21
Septic Inspections Upon Change in Ownership				
Pilot				
A3720	Program Development	210	01JAN08*	31DEC08
A3724	Preliminary Startup	417	01JAN09	30DEC10
A3725	Startup Full Program	100	03JAN11	23JUN11
A3726	Program Operations	2,100	27JUN11	15JUL21
Institutional				
Dry & Wet Weather				
Development Standards				
Committed				
A3760	Program Development	210	01JAN08*	31DEC08
A3765	Preliminary Startup	417	01JAN09	30DEC10
A3770	Startup Full Program	100	03JAN11	23JUN11
A3775	Program Operations	2,100	27JUN11	15JUL21
Pilot				
A3780	Program Development	209	01JAN09*	31DEC09
A3785	Pilot	416	04JAN10	29DEC11
A3786	Program Operations	1,992	02JAN12	15JUL21
Voluntary Horse Farm Retrofit Program				
Committed				
A4000	Program Development	210	01JAN08*	31DEC08
A4005	Preliminary Startup	417	01JAN09	30DEC10
A4010	Startup Full Program	100	03JAN11	23JUN11
A4015	Program Operations	2,100	27JUN11	15JUL21
Pilot				
A4020	Program Development	209	01JAN09*	31DEC09
A4025	Pilot	416	04JAN10	29DEC11
A4026	Program Operations	1,992	02JAN12	15JUL21
Distributed				
Dry & Wet Weather				
Vegetated Treatment Systems - Construction				
Committed				
B3600	Planning	350	01JAN07*	02SEP08
B3605	Construction Bid/Award	69	03SEP08	31DEC08
B3610	Construction	625	01JAN09	17SEP10
B3615	Project Acceptance	52	20SEP10	16DEC10
B3617	Program Operations	2,208	20DEC10	15JUL21



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TMDL Schedule For Integrated Plan With Dry Weather Extension

Date	Revision	Checked	Approved
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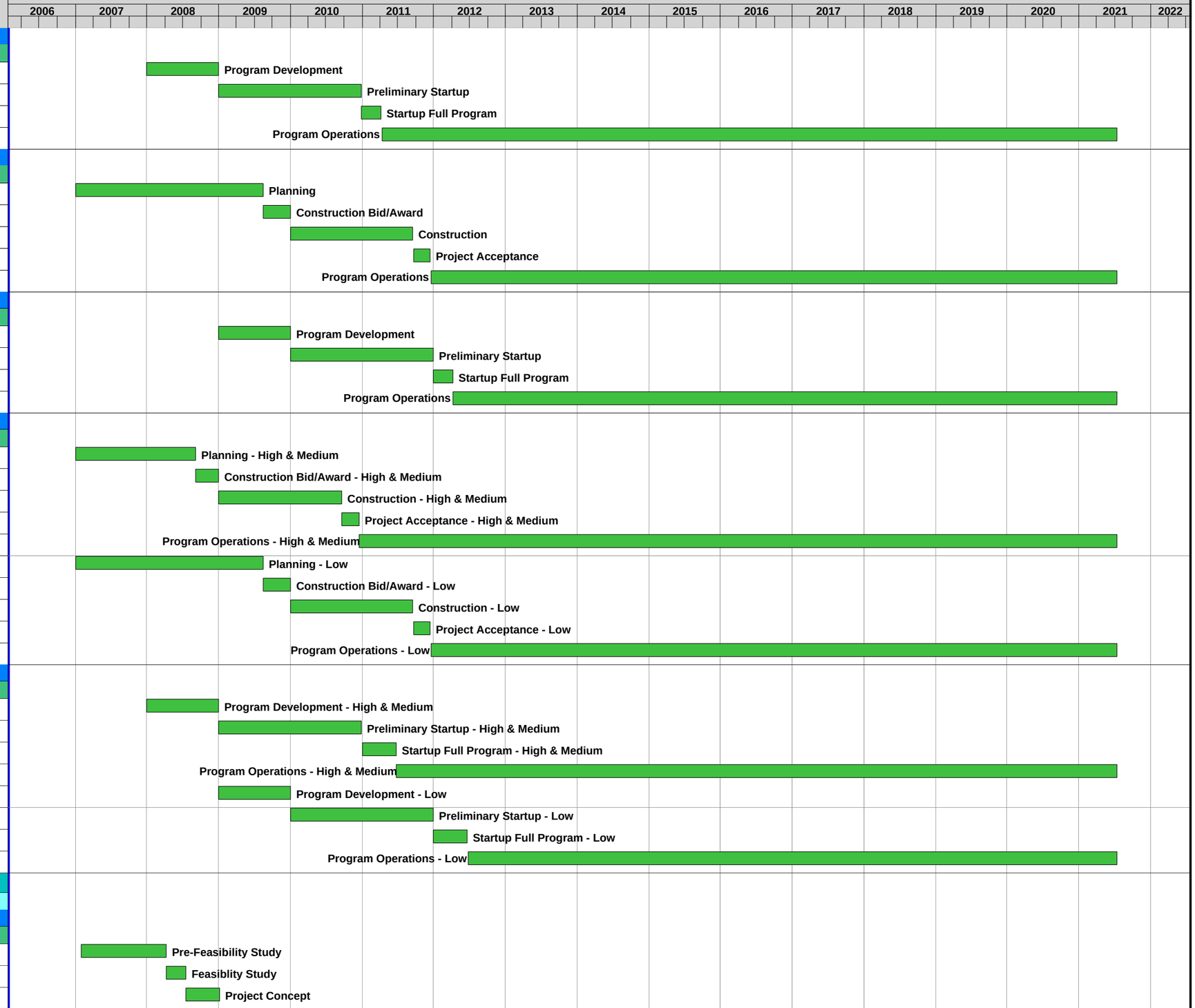
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
Vegetated Treatment Systems - Program				
Committed				
P3600	Program Development	210	01JAN08*	31DEC08
P3605	Preliminary Startup	417	01JAN09	30DEC10
P3610	Startup Full Program	100	31DEC10	09APR11
P3615	Program Operations	2,144	11APR11	15JUL21
Local Infiltration Systems - Construction				
Pilot				
T3600	Planning	549	01JAN07*	17AUG09
T3605	Construction Bid/Award	79	18AUG09	31DEC09
T3610	Construction	625	01JAN10	17SEP11
T3615	Project Acceptance	52	19SEP11	15DEC11
T3617	Program Operations	2,000	19DEC11	15JUL21
Local Infiltration Systems - Program				
Pilot				
R3600	Program Development	209	01JAN09*	31DEC09
R3605	Preliminary Startup	416	04JAN10	29DEC11
R3610	Startup Full Program	100	30DEC11	07APR12
R3615	Program Operations	1,936	09APR12	15JUL21
St & Parking Lot Biofiltration Retrofit Constuct				
Committed				
B4146	Planning - High & Medium	350	01JAN07*	02SEP08
B4147	Construction Bid/Award - High & Medium	69	03SEP08	31DEC08
B4148	Construction - High & Medium	625	01JAN09	17SEP10
B4149	Project Acceptance - High & Medium	52	20SEP10	16DEC10
B4151	Program Operations - High & Medium	2,208	20DEC10	15JUL21
B4200	Planning - Low	549	01JAN07*	17AUG09
B4205	Construction Bid/Award - Low	79	18AUG09	31DEC09
B4210	Construction - Low	625	01JAN10	17SEP11
B4215	Project Acceptance - Low	52	19SEP11	15DEC11
B4220	Program Operations - Low	2,000	19DEC11	15JUL21
St & Parking Lot Biofiltration Retrofit Program				
Committed				
I4146	Program Development - High & Medium	210	01JAN08*	31DEC08
I4147	Preliminary Startup - High & Medium	417	01JAN09	30DEC10
I4148	Startup Full Program - High & Medium	100	03JAN11	23JUN11
I4149	Program Operations - High & Medium	2,100	27JUN11	15JUL21
I4200	Program Development - Low	209	01JAN09*	31DEC09
I4205	Preliminary Startup - Low	416	04JAN10	29DEC11
I4210	Startup Full Program - Low	100	02JAN12	21JUN12
I4215	Program Operations - Low	1,892	25JUN12	15JUL21
Regional				
Dry & Wet Weather				
Regional Infiltration				
Pilot				
K1010	Pre-Feasibility Study	248	01FEB07*	09APR08
K1030	Feasiblity Study	56	10APR08	16JUL08
K1040	Project Concept	100	17JUL08	07JAN09



Start Date 24JAN06
Finish Date 15JUL21
Data Date 24JAN06
Run Date 21AUG06 16:43

Early Bar
Progress Bar
Critical Activity

TMD1

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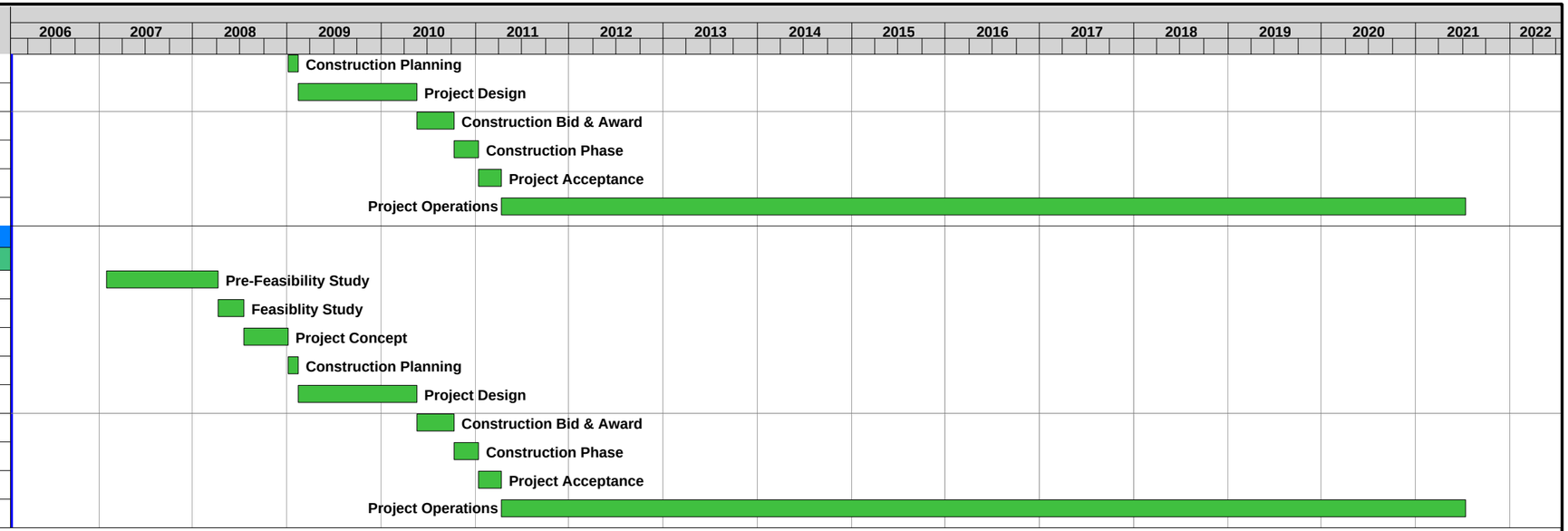
TMDL Schedule For Integrated Plan With Dry Weather Extension

Date	Revision	Checked	Approved
21AUG06	FINAL	CAB	

CDM

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
K1050	Construction Planning	20	08JAN09	11FEB09
K1060	Project Design	262	12FEB09	17MAY10
K1070	Construction Bid & Award	84	18MAY10	11OCT10
K1080	Construction Phase	97	12OCT10	16JAN11
K1090	Project Acceptance	51	17JAN11	13APR11
K1100	Project Operations	2,141	14APR11	15JUL21
Regional Natural Treatment System				
Pilot				
J1010	Pre-Feasibility Study	248	01FEB07*	09APR08
J1030	Feasiblity Study	56	10APR08	16JUL08
J1040	Project Concept	100	17JUL08	07JAN09
J1050	Construction Planning	20	08JAN09	11FEB09
J1060	Project Design	262	12FEB09	17MAY10
J1070	Construction Bid & Award	84	18MAY10	11OCT10
J1080	Construction Phase	97	12OCT10	16JAN11
J1090	Project Acceptance	51	17JAN11	13APR11
J1100	Project Operations	2,141	14APR11	15JUL21



Start Date 24JAN06
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TMD1

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TMDL Schedule For Integrated Plan With Dry Weather Extension

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