

MONTHLY PROGRESS REPORT FOR CONTRACT NO. 500-00-036

PROJECT 2.1 – ENHANCED LANDFILL GAS PRODUCTION USING BIOREACTORS

REPORT PREPARED BY: COMMONWEALTH ENERGY TEAM

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What we planned to accomplish this period:

The primary focus of activity was to work with the leading candidate to be the primary host for the bioreactor project, the Mid Valley landfill in Fontana, San Bernardino County. A meeting was scheduled with the County staff to review their interest in the bioreactor project and how they envision work would proceed. It was also anticipated that plans would be set to hold the formal kick-off meeting on this project in April. Work on the regulatory strategy was also to continue and that will involve ongoing coordination with regulatory agency personnel.

What we actually accomplished this period:

Task 2.1.1 Characterize Waste to be Placed in Bioreactor:

- As the first task in the Enhanced Landfill Gas Bioreactor project, waste characterization activities related to this task were undertaken in March, which will serve as the foundation for this project in the future. A meeting was held with San Bernardino County staff to discuss their possible participation in the Commonwealth PIER project. At this meeting, San Bernardino County staff expressed a strong interest in the PIER Program. Initial coordination with the County suggests that a key factor in the development of this project at the Mid-Valley site is the fact that the experience and involvement of the Energy Commission and its work at Yolo County where landfill bioreactor demonstration efforts have been successfully implemented. The Commonwealth Team and San Bernardino County seeks to expand on the lessons learned and apply the results to its operations in the drier climate of Southern California. Related to this goal, consultations were initiated to develop and implement a regulatory strategy in the Santa Ana Basin.

- Preparation for the Project 2.1 formal kick-off meeting was initiated and the meeting was rescheduled for April 17th. A visit for the Project Team to the Yolo County Project was also scheduled for that date.

How we are doing compared to our plan:

Work is proceeding as anticipated.

Significant problems or changes:

There are no significant fiscal problems to report on during this period and work is proceeding within budget. Progress and expenditures will result in project being completed on time and within budget.

What we expect to accomplish during the next period:

Activity will continue to be focused on working with the leading candidate expected to be the primary host for the bioreactor project, the Mid-Valley landfill in Fontana, San Bernardino County. Additionally, the formal project kick-off meeting is now scheduled and will be held in Sacramento. Another key activity to be conducted in April will be for key Commonwealth team members to visit the Yolo County Site. They plan to visit the site and coordinate with Yolo County staff to insure that research activities on the Commonwealth project are a logical extension of work on that project and to ensure that the lessons on that project are applied to the Mid-Valley project.

Status of Milestones and Deliverables:

Table 1 below summarizes the status of Project 2.1 task deliverables as of the end of the current reporting period.

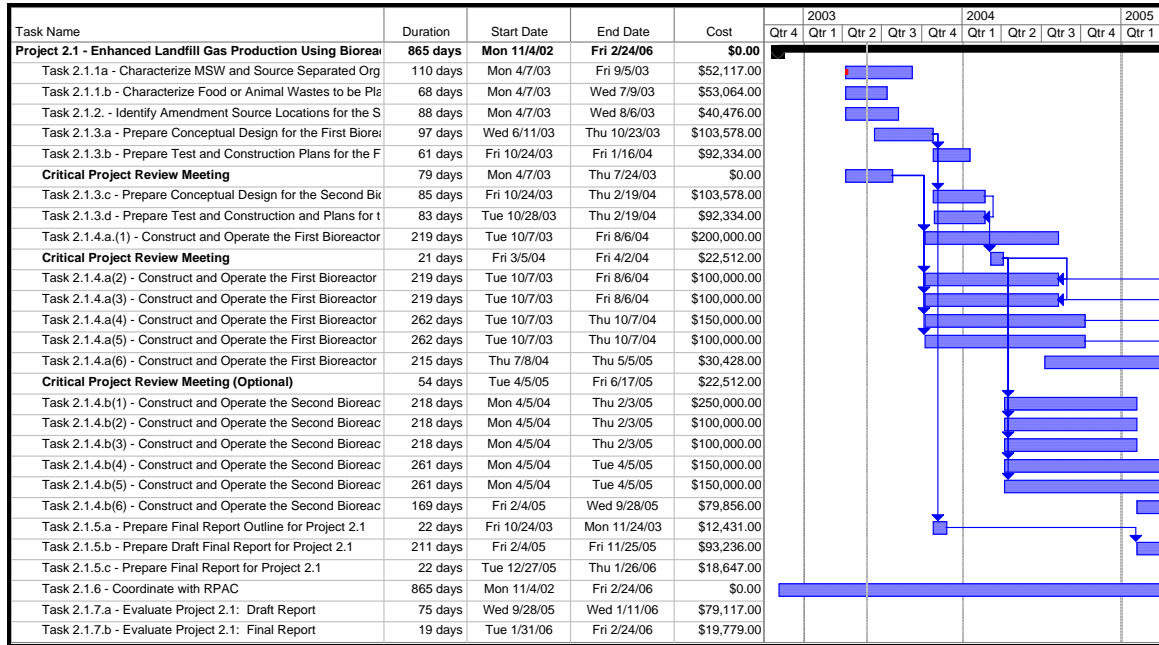
Table 1: Summary of Project Status and Deliverables – Project 2.1

Task No.	Description	Start Date		Due Date		Status (%)
		Planned	Actual	Planned	Actual	
2.1.1a	Characterize MSW and Source Separated Organic Waste To Be Placed in Both Bioreactors	04/07/03		06/26/03		8%
2.1.1b	Characterize Food or Animal Wastes to be Placed as Amendment in the Second Bioreactor	04/07/03		07/09/03		
2.1.2	Identify Amendment Source Locations for the Second Bioreactor	04/07/03		08/06/03		
2.1.3a	Prepare Conceptual Design for the First Bioreactor	06/11/03		10/23/03		
2.1.6	Coordinate with Renewables Project Advisory Committee/TAC Critical Project Review meeting	04/07/03		07/24/03		

Explanation of any Difference(s) in Schedule

Work is proceeding as anticipated.

Overall Schedule for Project 2.1:



Overview of Fiscal Status:

Table 2 below summarizes the fiscal status of Project 2.1 by task as of the end of the current reporting period.

Table 2: Fiscal Status By Task – Project 2.1

Task Number	Budget	Invoiced To-Date	Fiscal Status *
2.1.1 a	\$52,117	\$0	OT
2.1.1 b	\$53,064	\$0	OT
2.1.2	\$40,476	\$0	OT
2.1.3 a	\$103,578	\$0	OT
2.1.6	\$22,512	\$0	OT

*Fiscal Status – Please indicate if you are “On Track” (OT), OverBudget (OB), or UnderBudget (UB)