

PROJECT DEVELOPMENT SHEET

Project Title: Dairy Nutrient Recovery and Biomass Management Technology

Project Proposed by: QED Environmental Services, LLC

Potential Funding Source(s): USDA-NRCS

Potential Supplemental Funding Source(s): QED / Authority / Dairy Producer

Potential Project Partner(s): QED / [Authority](#) / others yet to be determined

Project Description: QED will design a small treatment plant capable of dewatering solids from flush water and vacuum based manure collection systems. The flush water is treated with a flocculent to remove phosphorous and can be reused for barn flushing. The dried solids may be composted and reused as a bedding material for the cows. There is also exploration of the potential to use dried solids as a fuel source in a waste to energy program.

Potential Project Benefits: The benefits of this system include: (1) reduction in the volume of the solids to be handled from the dairying operation, particularly in land application, (2) production of solids that can be re-used as bedding in the stalls to replace costly sand, and (3) significant reduction in the levels of phosphorous and nitrogen to the North Bosque Watershed.

Potential Project Schedule: A dairy operation has been selected as the site for the treatment plant and project engineering preliminary documentation review is complete. Currently, the project is on hold awaiting the approval of a USDA-NRCS grant application. Upon approval, the project could be operational within this calendar year.