

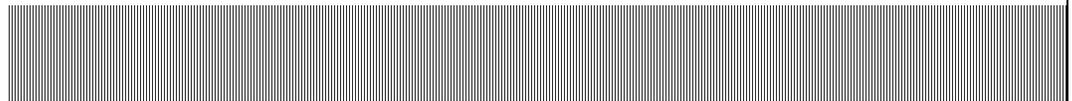


Carroll County

225 North Center St. • Westminster, MD 21157

Carroll County Alternatives Evaluation

September 28, 2009



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Acronyms Used in the Report

BLI	Buildable Land Inventory
DGA	Designated Growth Area
DNR	Department of Natural Resources
GIS	Geographical Information System
HUC	hydrologic unit code
LUD	Land Use Designation
MDE	Maryland Department of the Environment
MDP	Maryland Department of Planning
SSA	sewer service area
WRE	Water Resources Element
WSA	water service area
WWTP	wastewater treatment plant

Units Used in the Report

gpd	gallons per day
mgd	million gallons per day

1. Introduction

Carroll County and its municipalities are in the process of evaluating their water resources through the 2006 state mandated Water Resource Element (WRE). The WRE will be an important part of a jurisdiction's comprehensive plan and is meant to assess the adequacy of present and future water supply, wastewater infrastructure, stormwater runoff and impacts to water resources. A water balance of water resources in Carroll County was performed by Malcolm Pirnie, Inc., based on existing and future buildout conditions (results presented in the Carroll County Water Demands and Availability report completed in July 2009)¹. The results of the water balance were utilized as part of the alternatives evaluation, which is presented in this report. The County recognizes that the alternatives/options developed as part of the alternatives evaluation go beyond the actual requirements of what needs to be included in the WRE. The County and its municipalities will use these to include general strategies in the WRE plan document, but the next steps will provide guidance for implementing these alternatives.

1.1. Purpose

The purpose of the alternatives evaluation is to identify the future demands by locality and at the County-level, along with the potential water supply and wastewater reuse alternatives that may be available to satisfy the needs of the localities and County. This report describes the local and County-wide needs, the potential water supply and wastewater reuse alternatives that were evaluated, the criteria used for this evaluation, and the results of the alternatives evaluation.

1.2. Limitations

The information presented in this report for the numerous alternatives was derived from Malcolm Pirnie's work along with previous reports and studies and conversations with local water system contacts. Where applicable, assumptions have been made with regards to pipeline routes and locations of other associated facilities. The information presented for the water supply and wastewater reuse alternatives is at the conceptual level, so additional steps must be followed if any of the alternatives are to be implemented in the future.