



Water Supply Issues: Haines Boulevard Redevelopment Plan Waterford Township

October 25, 2016

Background

- In 1987, the Camden County Municipal Utility Authority (CCMUA) proposed an interbasin transfer of wastewater from the Regional Growth Area in Chesilhurst, Waterford and Winslow to the Delaware River Basin
- CCMUA evaluated the proposal's potential effects which Pinelands Commission staff concluded would result in significant reductions in subbasin recharge
- PC Study: "An Assessment of Sewer and Water Supply Alternatives for Pinelands Growth Areas in the Mullica River Basin, Camden County"

Background

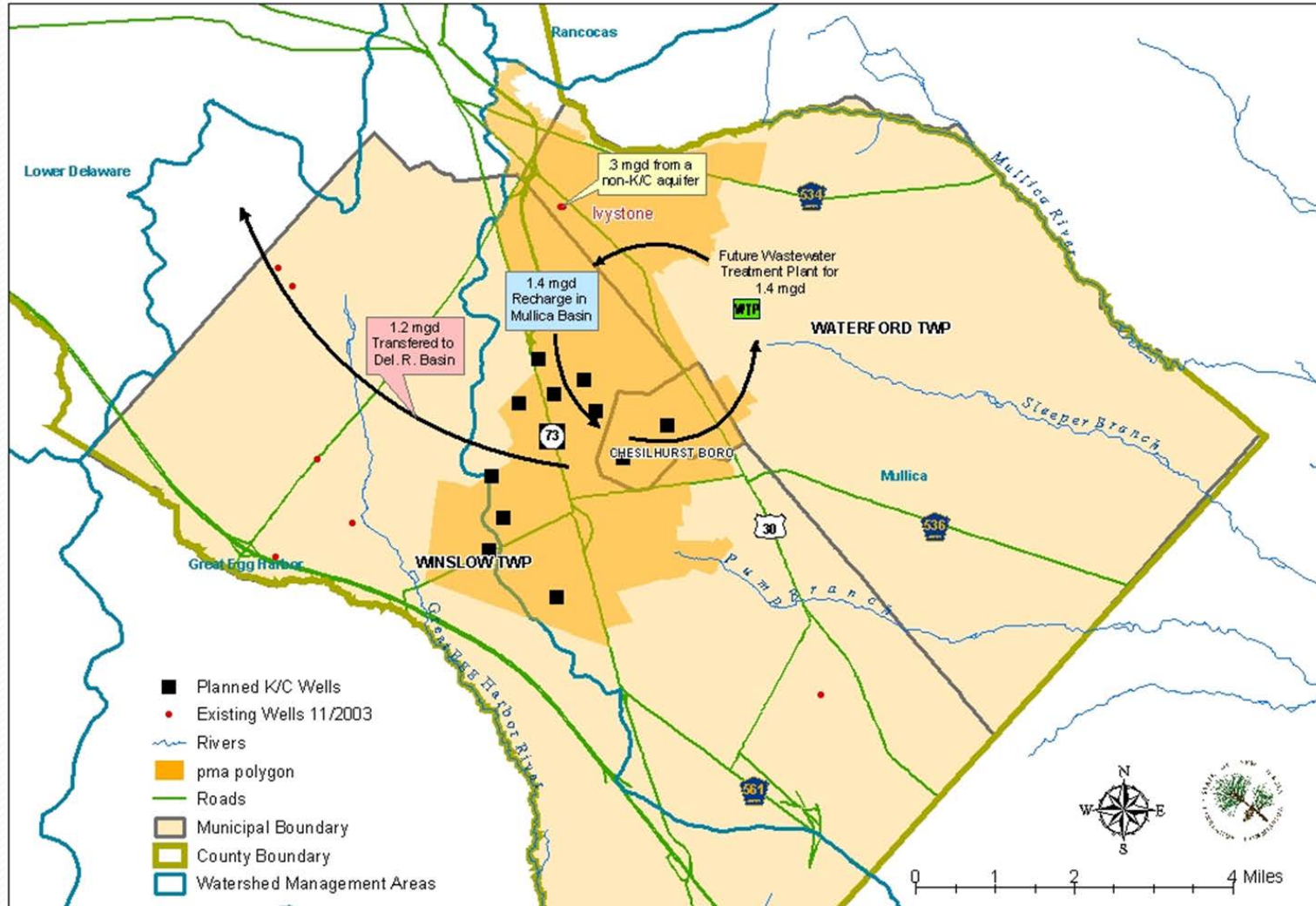
- The assessment considered 16 scenarios
- Water/wastewater planning:
 - How much water can be transferred without depleting Pinelands streams?
 - How much water can be recharged without polluting Pinelands streams?
- Demand reduction through downzoning

AN ASSESSMENT OF SEWER AND
WATER SUPPLY ALTERNATIVES FOR
PINELANDS GROWTH AREAS IN THE
MULLICA RIVER BASIN, CAMDEN COUNTY



NEW JERSEY PINELANDS COMMISSION
MAY 1988

Background



Background

- The PC assessment resulted in:
 - Density decreases in all three municipalities
 - Adoption of a water supply master plan
 - Amendments to the wastewater management plan
 - A stream monitoring program with USGS

Future Water and Sewer Demands

- Future water demands were reduced for the three municipalities to 2.6 million gallons per day (MGD)

	Winslow			Waterford			Chesilhurst		
	1980	Future	Total	1980	Future	Total	1980	Future	Total
1.2 MGD Export	0.44	0.10	0.54	0.40	0.11	0.51	0.12	0.03	0.15
0.3 MGD Non-K/C		0.19			0.08			0.03	
1.4 MGD In-basin Recharge		1.09			0.20			0.11	
Totals	0.44	1.19	1.63	0.40	0.31	0.71	0.12	0.14	0.26

Total Future Demands: 2.60 MGD

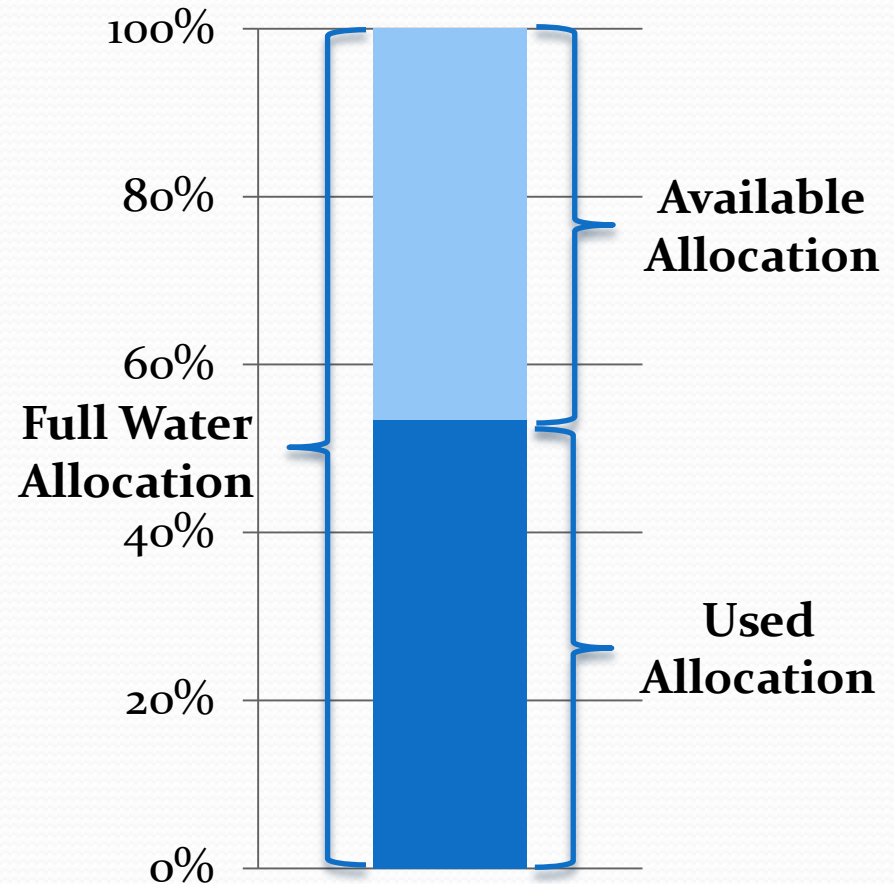
Haines Blvd. Redevelopment Plan

- Waterford's redevelopment plan for Haines Boulevard permits 792 new residential units and nonresidential development, for which water demands would exceed the Township's water allocation
- The Township proposes a self-imposed limit to 70% of total K/C water supply allocation
- Upon reaching this limit, the Township will secure a non-K/C source to meet future demands
- PC staff will work with Waterford to track development approvals and projected water use to ensure compliance

Haines Blvd. Redevelopment Plan

Present water supply situation in Waterford:

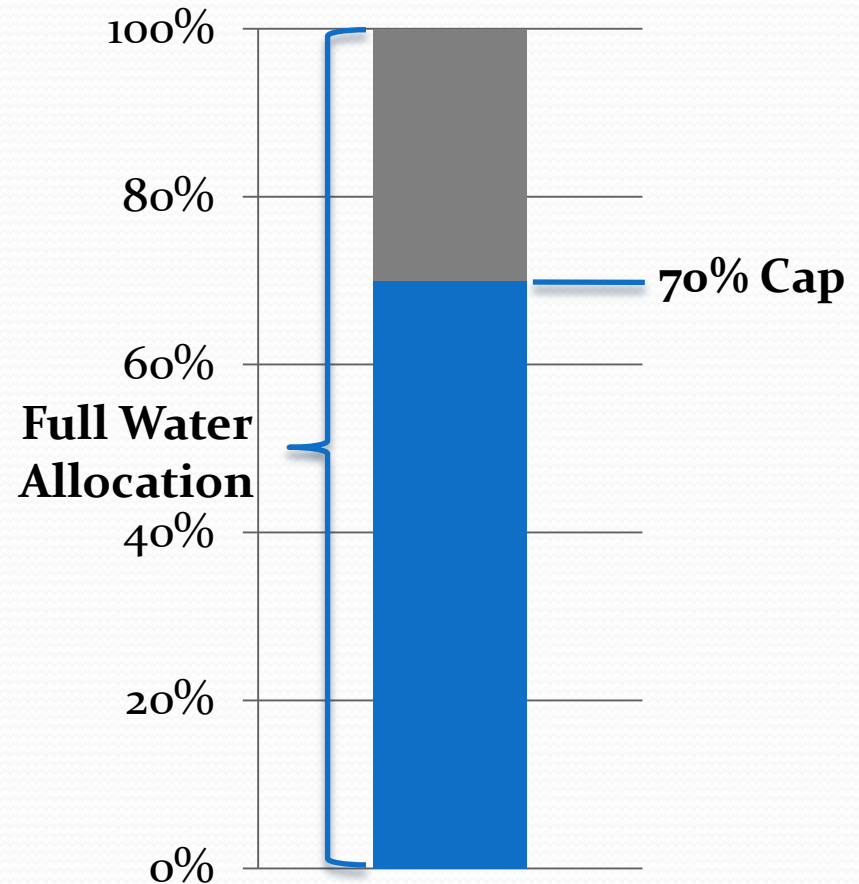
- Current allocation: 652,000 GPD
- Usage: 348,000 GPD (53%)
- Available allocation: 304,000 GPD (47%)



Haines Blvd. Redevelopment Plan

Water supply situation after redevelopment plan:

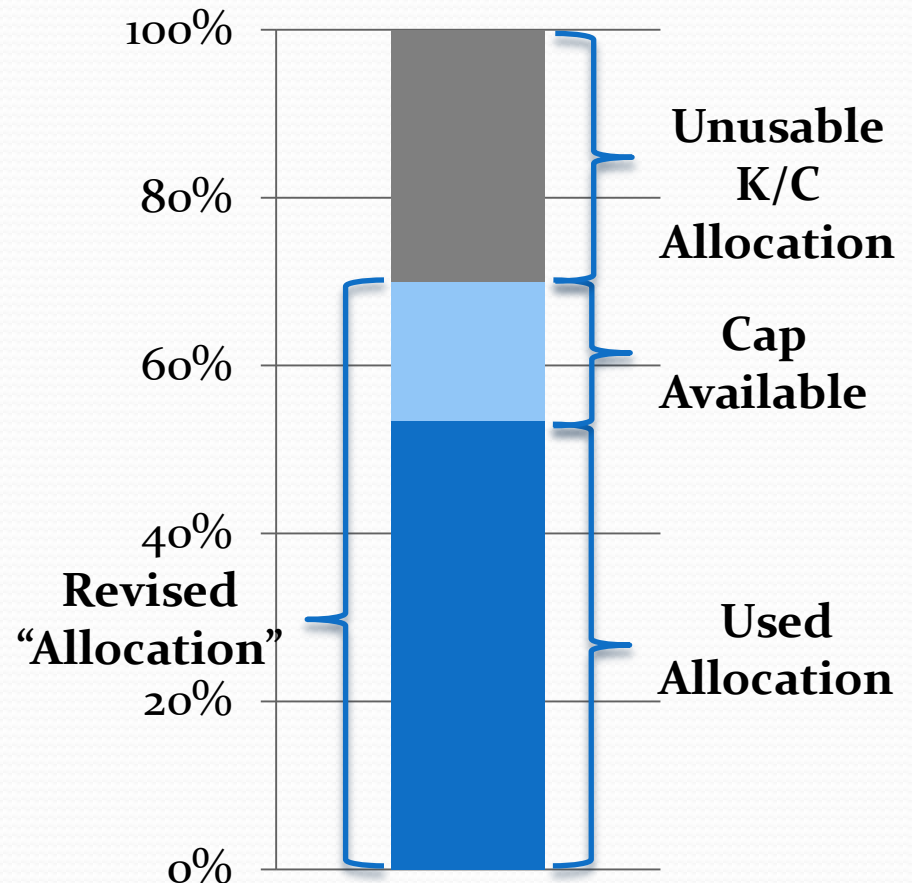
- Upon reaching the 70% cap, Waterford will cease diverting water from the K/C aquifer
- 70% of full allocation: 456,400 GPD



Haines Blvd. Redevelopment Plan

Water supply situation after redevelopment plan:

- Revised “allocation”: 456,400 GPD
- Usage: 348,000 GPD
- Available “allocation”: 108,400 GPD



Haines Blvd. Redevelopment Plan

- PC build-out analysis suggests a Township-wide future water demand of 720,000 GPD
 - 310,000 GPD from redevelopment plan
 - 160,000 GPD from other RGA units
 - 250,000 GPD from commercial development
- With 108,400 GPD of the revised “allocation” still available, at best, one-third of the redevelopment area could be served before a non-K/C source is required