Oakland Township
Sewer and Water Rates
and
Water System Master Plan
Phase I
Project Overview

June 10, 2014

Introductions

Oakland Township
Sewer Rates

- Rate Components
  - OMID Bond Payments
  - COSDS Sewage Disposal
  - WRC Operating Costs – Local System

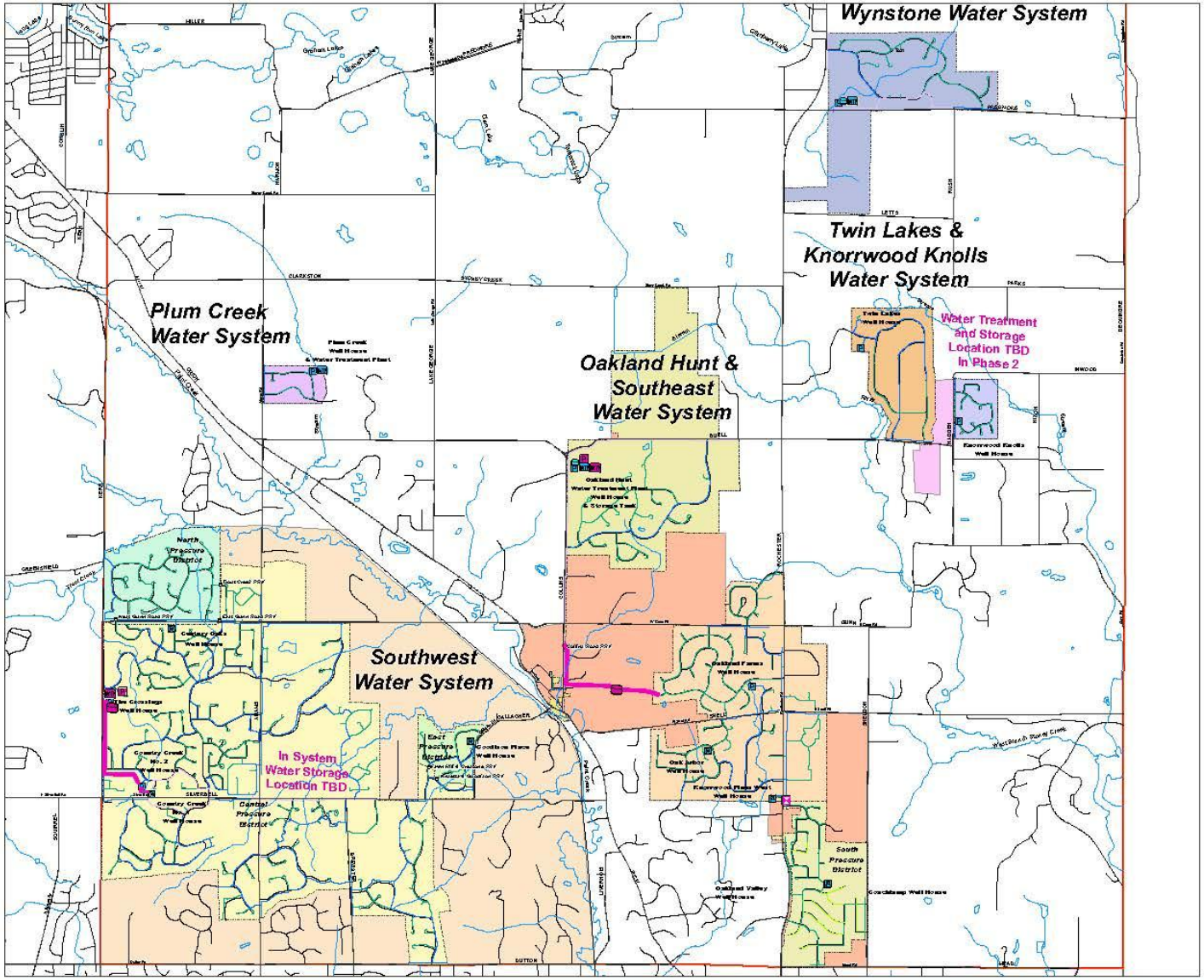
- COSDS Sewage Disposal Rate Component
  - 10.3% Increase (Replenish Reserves - Perry St Diversion Project)
  - $58.68/REU/Quarter to $64.72/REU/Quarter

- Overall Rate
  - 7.4% Increase
  - $95.63 /REU/Quarter to $102.74/REU/Quarter

Oakland Township
Water Rates

- No Increase for Base Rates
  - $118/Quarter (Avg. Customer)

- Cost Recovery Rates
  - Plum Creek District = $20/Customer/Quarter (Fixed Rate)
  - Southwest District = $6/mcf ($42/Quarter)
  - Oakland Hunt District = $6/mcf ($42/Quarter)
  - Southeast District = $6/mcf ($42/Quarter)
  - No Cost Recovery Rate for Wynstone, Twin Lakes or Knorrwood Knolls



Oakland Township Water Master Plan Phase 1

Oakland County Water Resource Commissioner
05.23.2014

Source: Data provided by Oakland County and the Oakland Township. Orchard, Hiltz and McCliment does not warrant the accuracy of the data and/or the map. This document is intended to depict the approximate spatial location of the mapped features within the Community and all use is strictly at the user's own risk.

Coordinate System: NAD 1983 StatePlane Michigan South FIPS 2113 Feet

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Path: P:\0101_01250\105130091_Oakland Township Water Reliability Study_EWR\GIS\Master Plan\WaterMasterPlanPhase1.mxd

Master Plan Improvement Projects (Phase I)

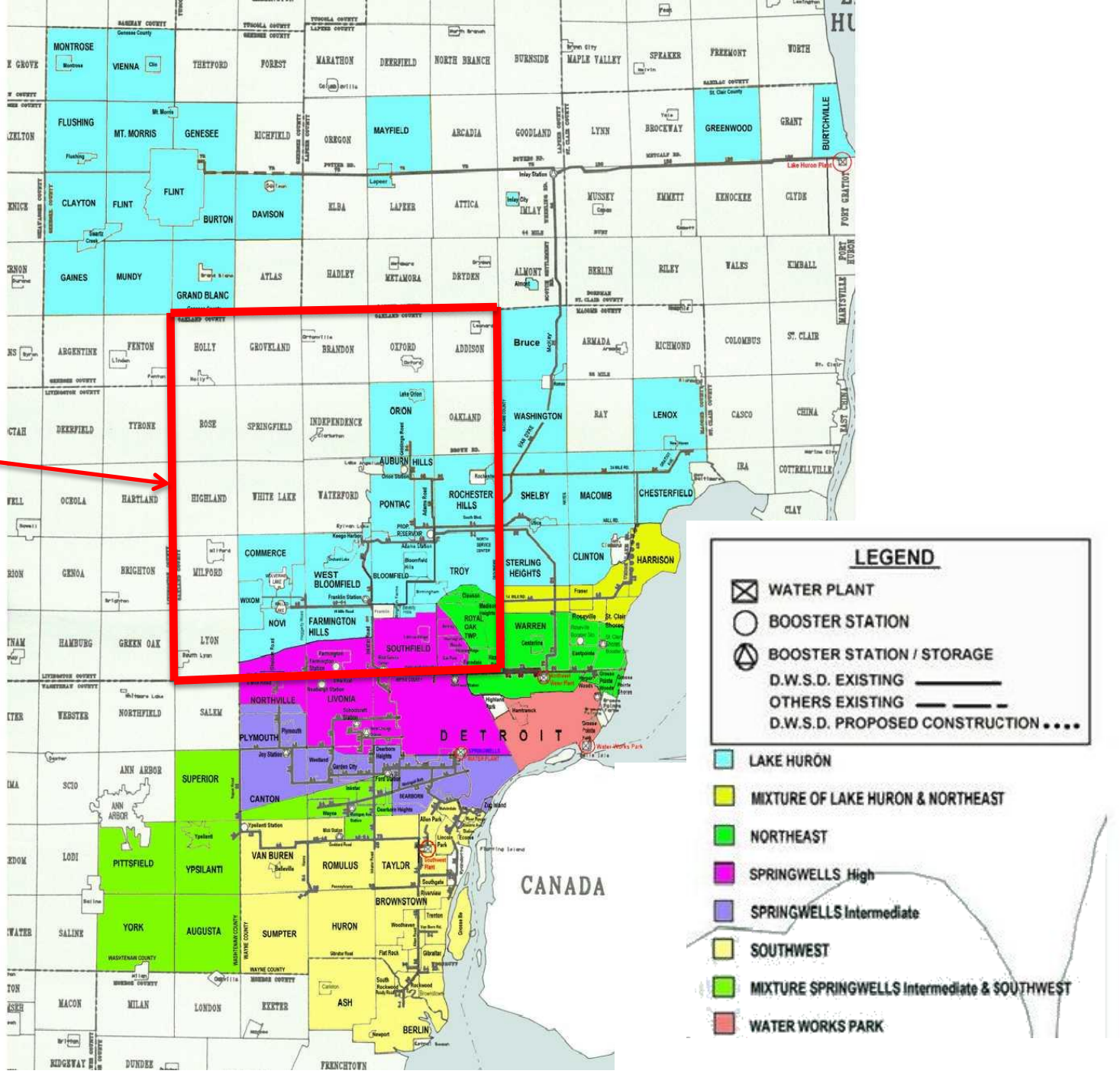
Oakland Hunt, Southeast, and Southwest Districts

DWSD Option

- Current DWSD rates are almost double current well water rates
- Cost to connect to DWSD and add storage is $4 Million more than treatment and storage for existing system (SW District only)
- Future DWSD rate increase is projected at 4% to 10% per year

Existing DWSD Water System

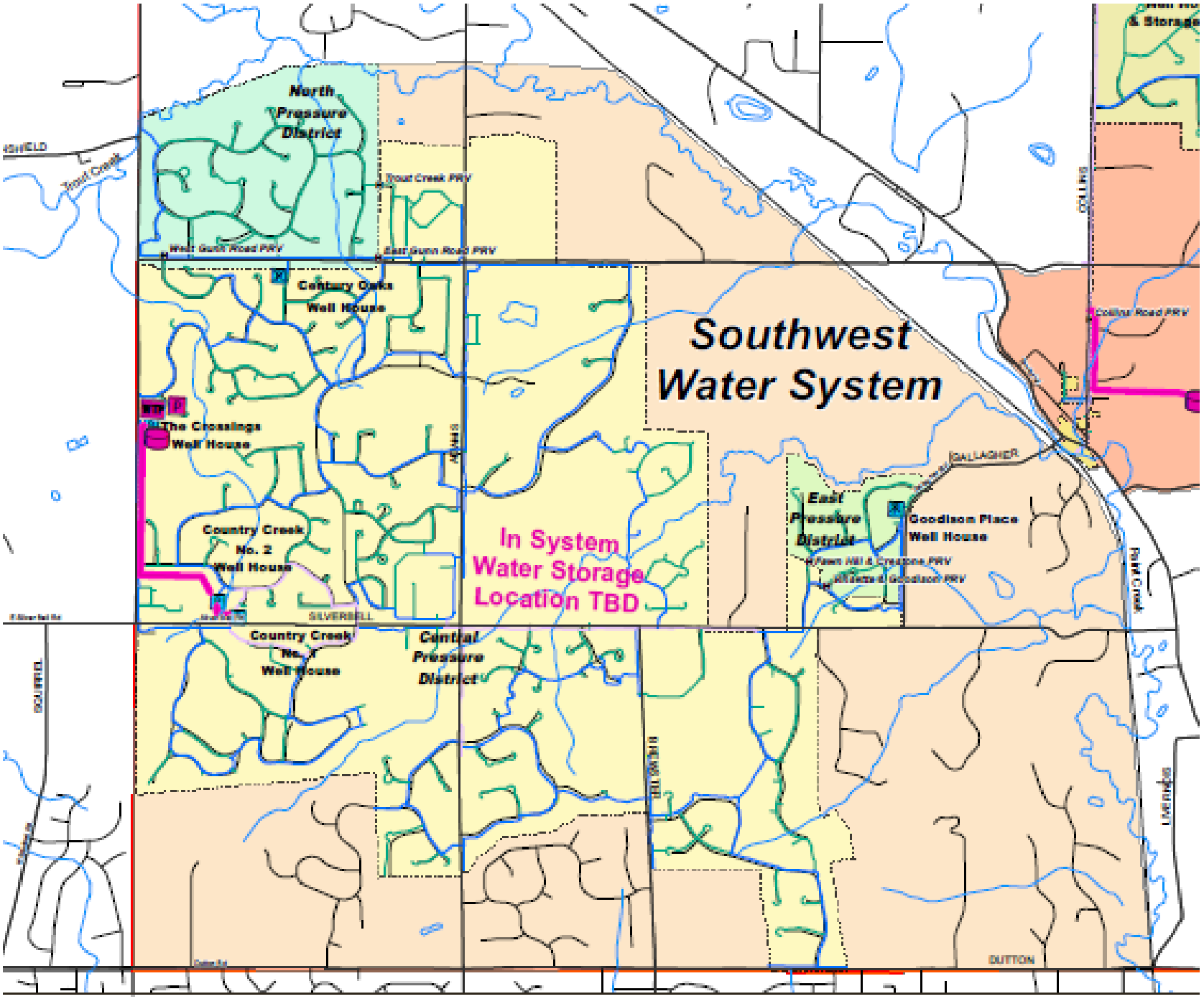
Oakland County Boundary



Southwest District

- Distribution System Storage
  - MDEQ Requirement
  - Improved Water Pressure (Peak Flows)
  - Improved Reliability

- Treatment (Iron Removal)
  - Improved Water Quality
  - Reduced Home Treatment Expense

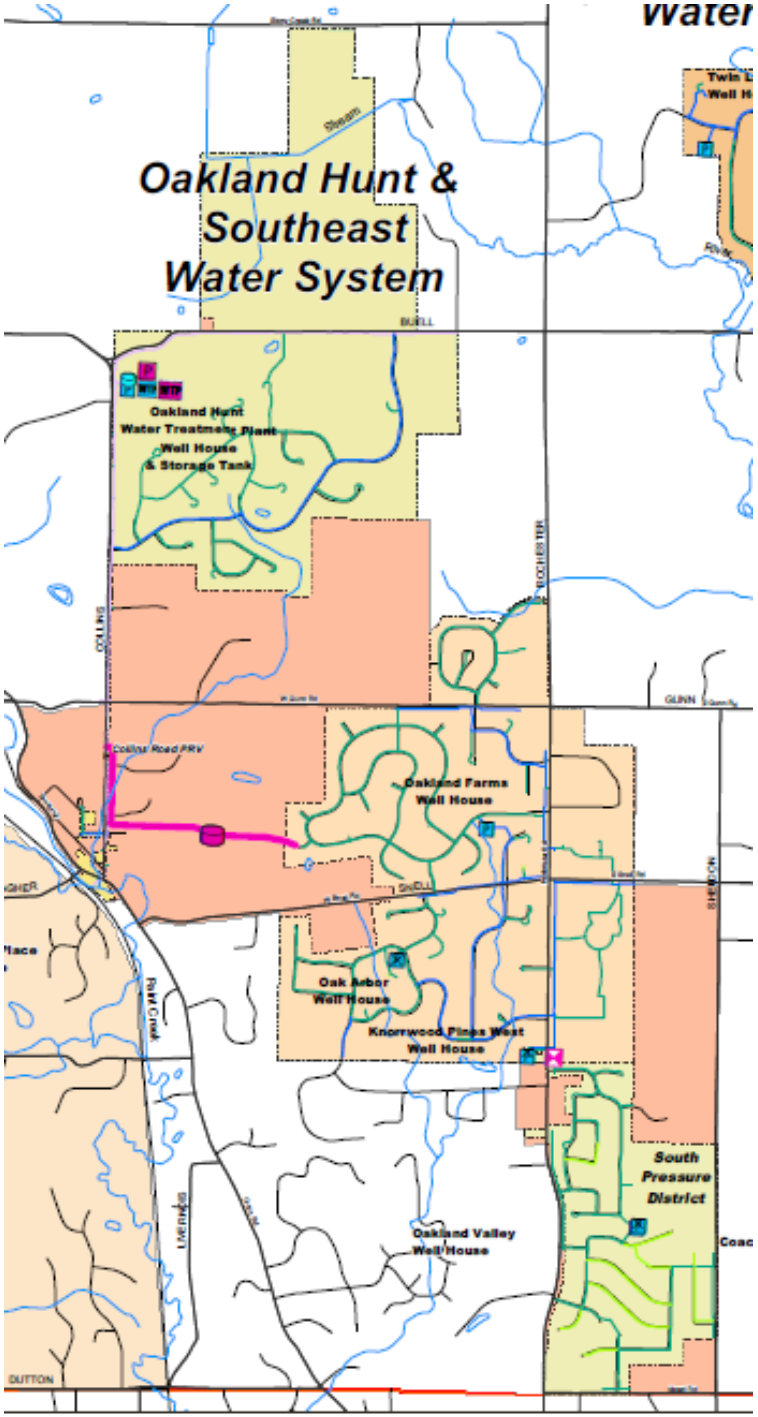

Southwest
Water System
North
Pressure
District
Trout Creek PRV
West Guinn Road PRV
East Guinn Road PRV
Century Oaks
Well House
The Crossings
Well House
Country Creek
No. 2
Well House
Country Creek
No. 1
Well House
Central
Pressure
District
In System
Water Storage
Location TBD
East
Pressure
District
Goodison Place
Well House
Fawn Hill & Crestone PRV
Gallagher & Goodison PRV
Collins Road PRV
GALLAGHER
SILVERBELL
DUTTON
Trout Creek

Oakland Hunt and Southeast District

- Inter Connection
  - Improved Reliability
  - Well Site Redundancy

- Distribution System Storage
  - MDEQ Requirement
  - Improved Water Pressure (Peak Flows)
  - Improved Reliability

- Treatment (Iron Removal)
  - Improved Water Quality (SE District)
  - Reduced Home Treatment Expense (SE District)


Oakland Hunt &
Southeast
Water System
Oakland Hunt
Water Treatment Plant
Well House
& Storage Tank
Oakland Farms
Well House
Oak Arbor
Well House
Knorrwood Pines West
Well House
South
Pressure
District
Oakland Valley
Well House
BURLL
COLLINS
ROCHESTER
GLENN
SHELDON
DUTTON

Project Information

- Total Project Cost = $25 Million to $30 Million
  (Conceptual Engineering)

- Project Schedule
  - Drinking Water Revolving Fund Project Plan by May 2015
  - Project Bonding In August 2015
  - Design Completion December 2015
  - Construction Starting in Spring 2016
  - Construction Completion by Summer of 2018

- Project Funding
  - DWRF Loan (Drinking Water Revolving Fund - Preferred Funding)
  - Cost Recovery Rate (Phased in Over 3 Years)

Oakland Township Water System
Master Plan Project
Phase I Rate Projections (note 1)

Rate Year	Fixed Rate Per Quarter (note 2)	Base Rate ($ / mcf) (note 3)	Cost Recovery Rate ($/mcf)	Avg Customer ($/quarter)	Avg Customer ($/month)
Current (7/1/13 to 6/30/14)	$39.25	$13.75	n/a	$118	$39
FY 2015 (7/1/14 to 6/30/15)	$39.25	$13.75	$6.00	$161	$54
FY 2016 (7/1/15 to 6/30/16)	$39.25	$13.75	$12.00	$205	$68
FY 2017 (7/1/16 to 6/30/17)	$39.25	$13.75	$22.50	$281	$94
Notes:					
1) Based on conceptual engineering total project cost estimate of $25 million					
2) Up to 1,500 cubic feet of water usage					
3) For all consumption over 1,500 cubic feet					

Q & A


Oakland Hunt Water Treatment Plant and Ground Water Storage

Painted Steel Ground Water Storage Tanks

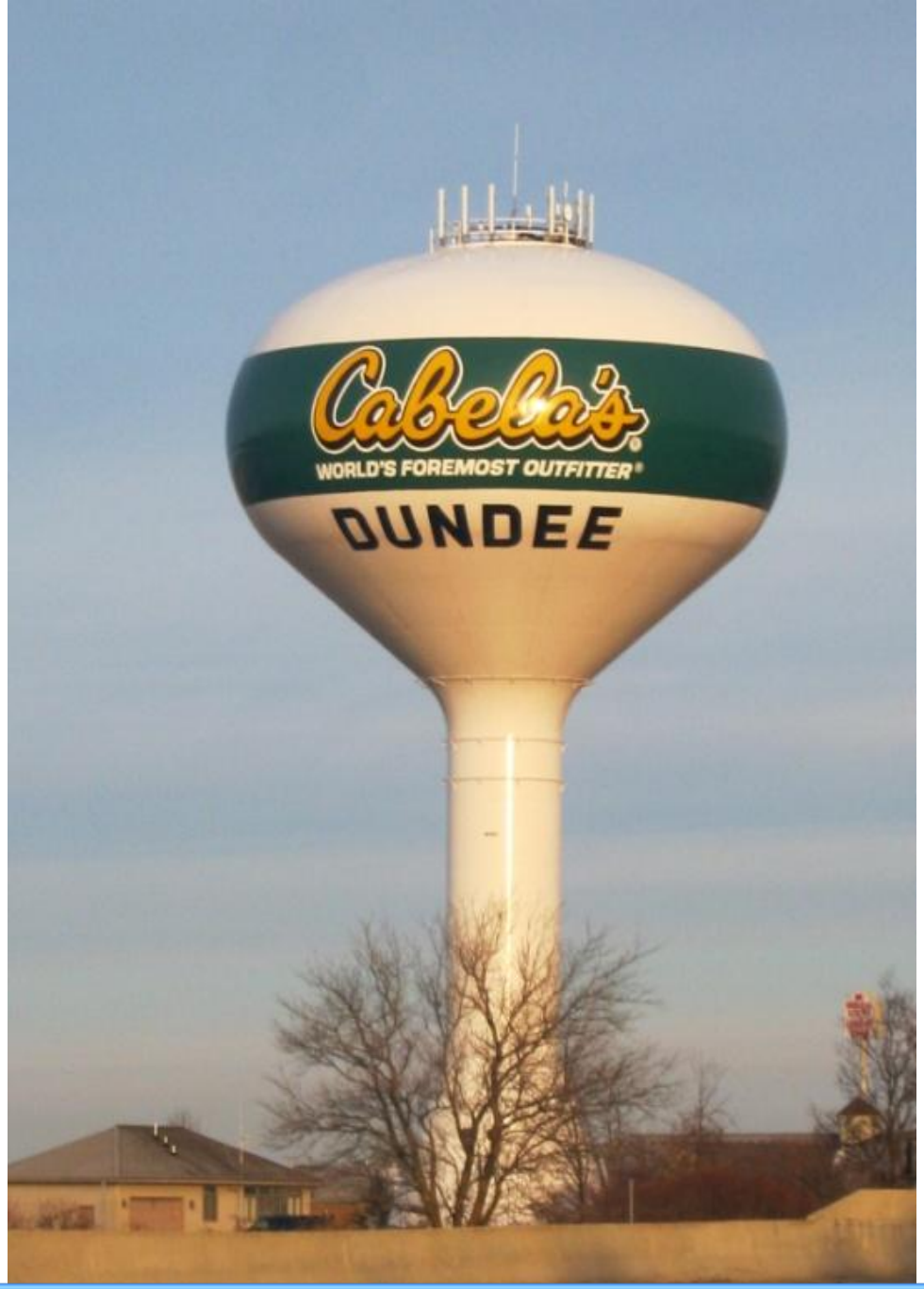
Water Storage Tanks
0.70 MG Water Storage Tank
Engineer: Underwood Engineers

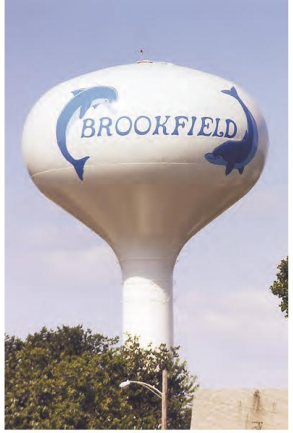
Water Storage Tanks
1.25 MG Water Storage Tank
Engineer: Akhras Associates, Inc.

Water Storage Tanks
2.0 MG Water Storage Tank (BW)
Engineer: Board of Water & Light, Engineering Dept.

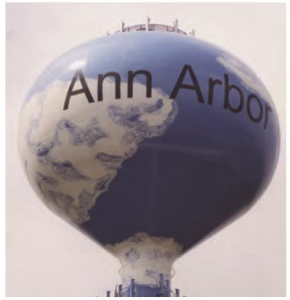
Water Storage Tanks
1.0 MG Ground Storage Reservoir
Engineer: Robinson Engineering, Ltd

Prestressed Concrete Ground Water Storage Tanks

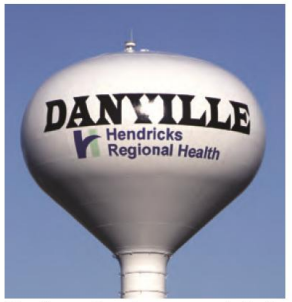




Modern sleek design



Visually pleasing contours blend well with surroundings



Attractive graphics enhance community identity

Custom paint options

Watershperoid Elevated Water Storage

Orion Township 2.5 MG Composite Elevated Storage

Farmington Hills 3 MG Elevated Composite Elevated Storage Tank