
A Collaborative Focus for Regional Water Supply

February 26, 2008

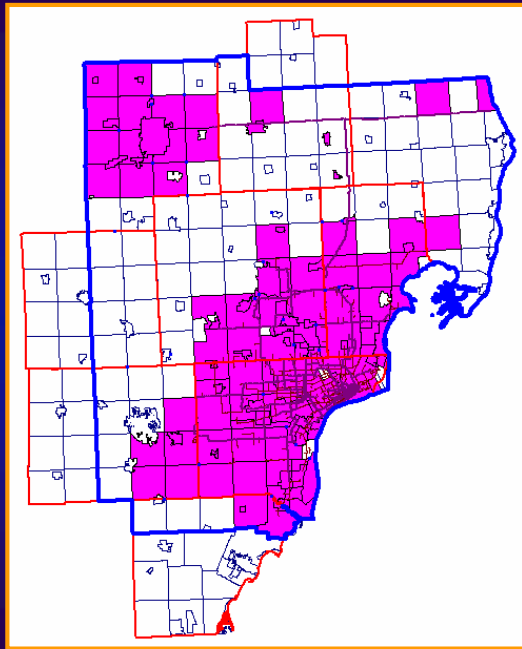
**Victor M. Mercado, Director, Detroit Water & Sewerage Department
John P. McCulloch, Oakland County Drain Commissioner**

Objectives

- Provide snapshots of DWSD/OCDC Master Plans
 - Discuss the TAC – our collaborative model for regional team work
 - Present major accomplishments of TAC and plans for the future
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The Master Plan is a long-range planning tool to help us accomplish our mission

“To exceed our customers’ expectations through the innovative treatment and transmission of water and wastewater, and the provision of services that promote healthy communities and economic growth”



Master Plan 2000 Service Area

Number of Communities: 246

Population: 5.2 million

126 Communities Served

7 Counties – Genesee, Lapeer

Macomb, Monroe, Oakland,

Washtenaw, Wayne

Population: 4.2 million

Served Population: 3.8 million

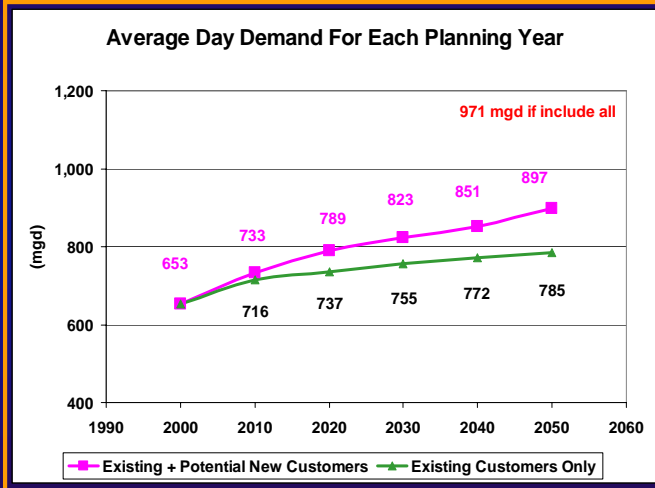
Average Daily Water Demand:

Year 2001 = 650 mgd

Year 2050 = 800 --> 1,000mgd?

**The Detroit Water and Sewerage
Department is planning to update its
Master Plan in 2013**

Water Demand Projections (2000-2050)



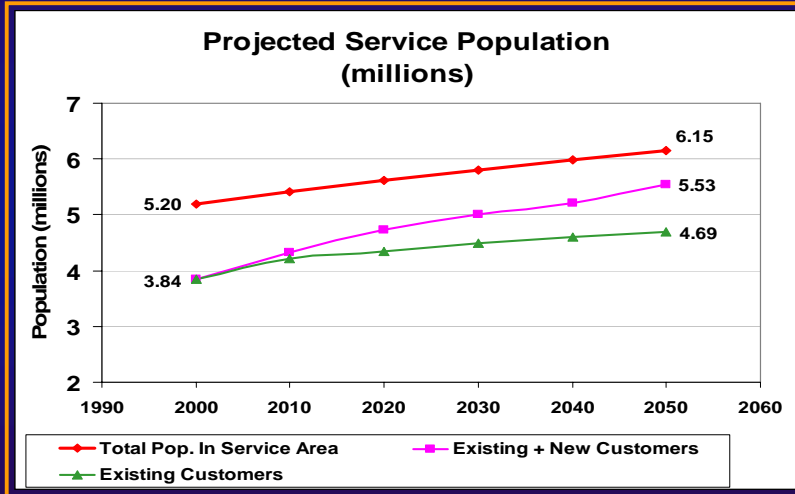
Average day demand

% Increase for 2050

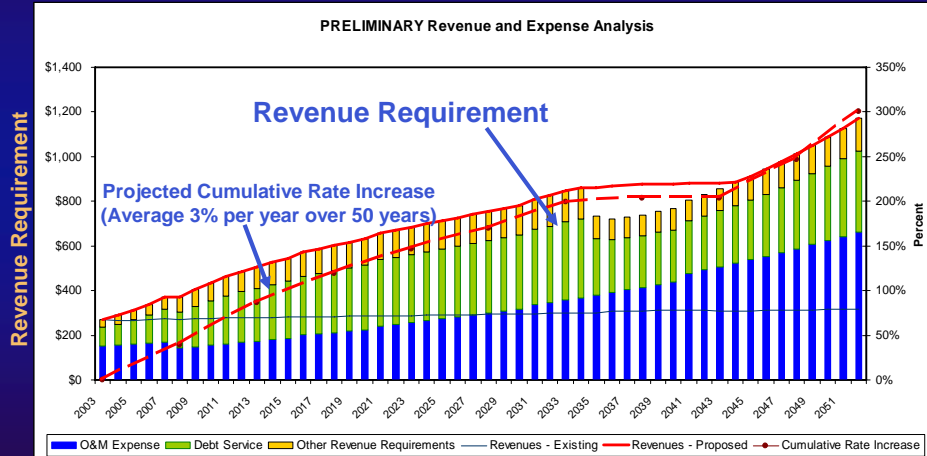
Existing Customers: 20%

Existing + New Communities: 37%

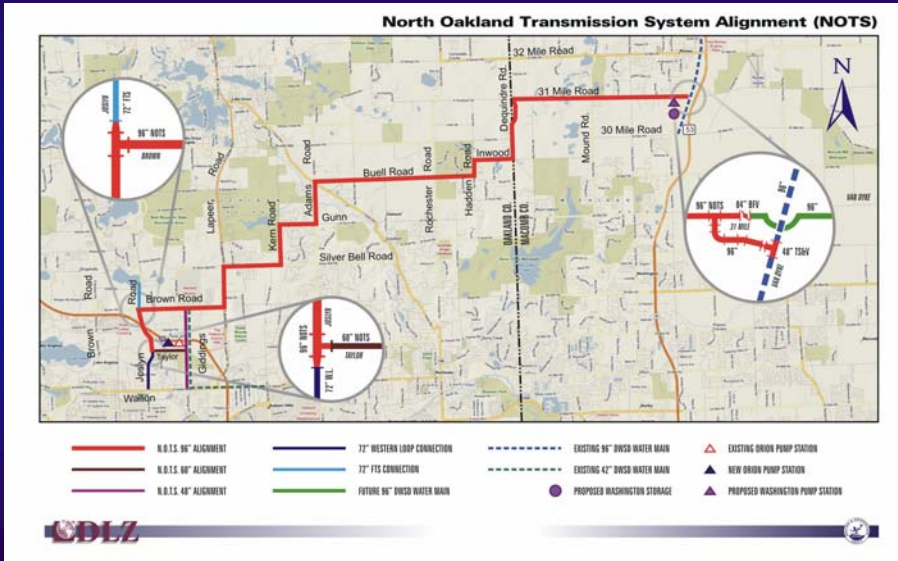
Service and Customer Population (2000-2050)



Master Plan Projection: Revenue Needs and Impact on Rate Structure



Preliminary Route Northern Oakland – Northern Macomb Connection



Oakland County Water and Wastewater Master Plan



OVERVIEW OF SCOPE OF WORK

Inventory and capabilities of existing water and wastewater facilities

Project the future (2035) needs for both water and wastewater

Develop and evaluate alternatives to meet future needs

Evaluate the economic feasibility of alternatives

DESIRED OUTCOME:

Document water and wastewater needs for each city, village and township

Present possible alternatives to address those needs

Encourage communication and cooperation among the 61 municipalities in Oakland County.

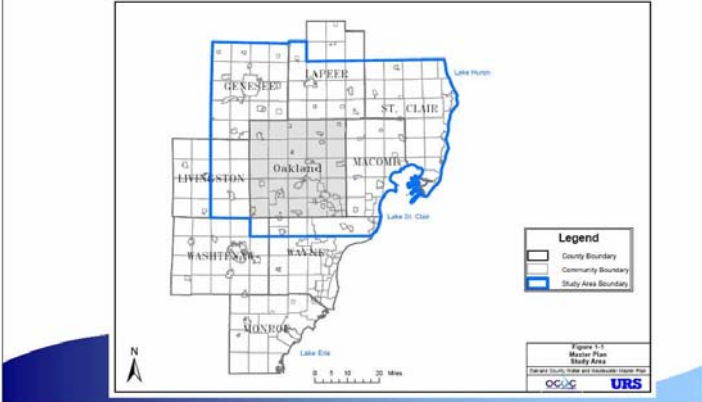
OAKLAND'S MASTER PLAN IS NOT INTENDED TO:

Make specific recommendations for each city, village or township.

Financial analysis is comparative

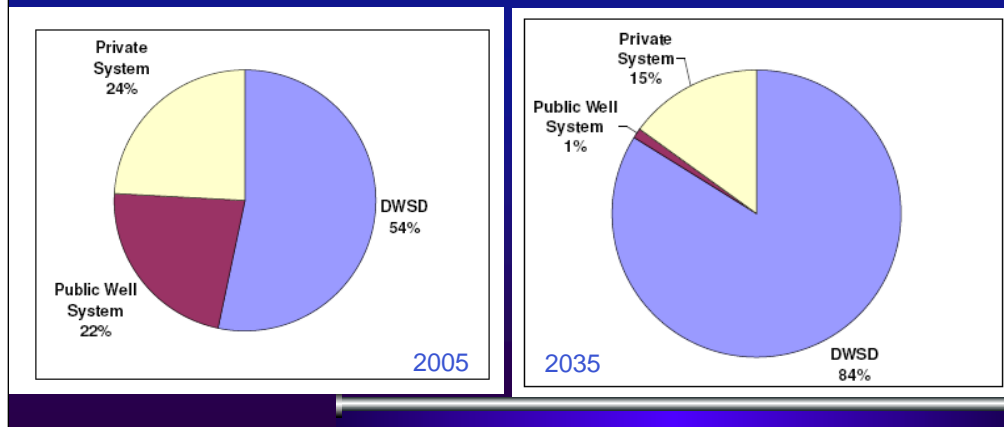


PROJECT SCOPE STUDY AREA



CONCLUSIONS & OPPORTUNITIES

- DWSD is Now and Will Remain the Largest Water & Wastewater Service Provider in Oakland County

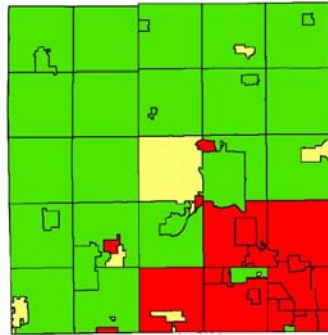


The Detroit Water and Sewerage Department is, and will remain the largest water and wastewater service provider in Oakland County

2005 – DWSD supplies 65 percent of Oakland County’s water needs

2035 – DWSD will supply anywhere from 54- to-84 percent of Oakland County’s water service -- depending on the directions individual communities take.

CONCLUSIONS & OPPORTUNITIES



- Needs Driven by Aging Infrastructure & Population Shifts
- Master Planning & Asset Management are Critical to Long-Term Sustainability and Cost Control

On this map, the green areas indicate areas of growth. The red area in the southeast portion of the county show declining populations while the yellow areas are expected to remain relatively stable within two percentage points of population growth or reduction.

Community well systems are viable and cost competitive -- even when compared to individual well systems.

2005 – 35% of Oakland County is supplied by private/public well systems

2035 – Private and/or public well systems could supply anywhere from 16-to-46 percent of Oakland County's water needs -- depending on direction individual communities take

CONCLUSIONS & OPPORTUNITIES

- Local & Regional Approaches Must be Refined and Further Evaluated Prior to Implementation
- Competing Alternatives Should be Pursued if they are Cost Effective

Local and regional approaches must be refined and further evaluated prior to implementation.

Each community has its own unique challenges that require detailed evaluations before proceeding with any specific alternative or system improvement.



CONCLUSIONS & OPPORTUNITIES

- Partnering has Been Underutilized and Should be Considered in Water & Wastewater Planning
- Cooperation & Communication are Important Elements to Successful Emergency Response



Partnering has been underutilized and should be considered in water and wastewater planning.

All communities must protect their own interests, but compromise can result in benefits to the greater region.

**DWSD Water Master
Plan Technical Advisory
Committee (TAC)
Partnering Agreement**

April 28, 2003



Mission Statement

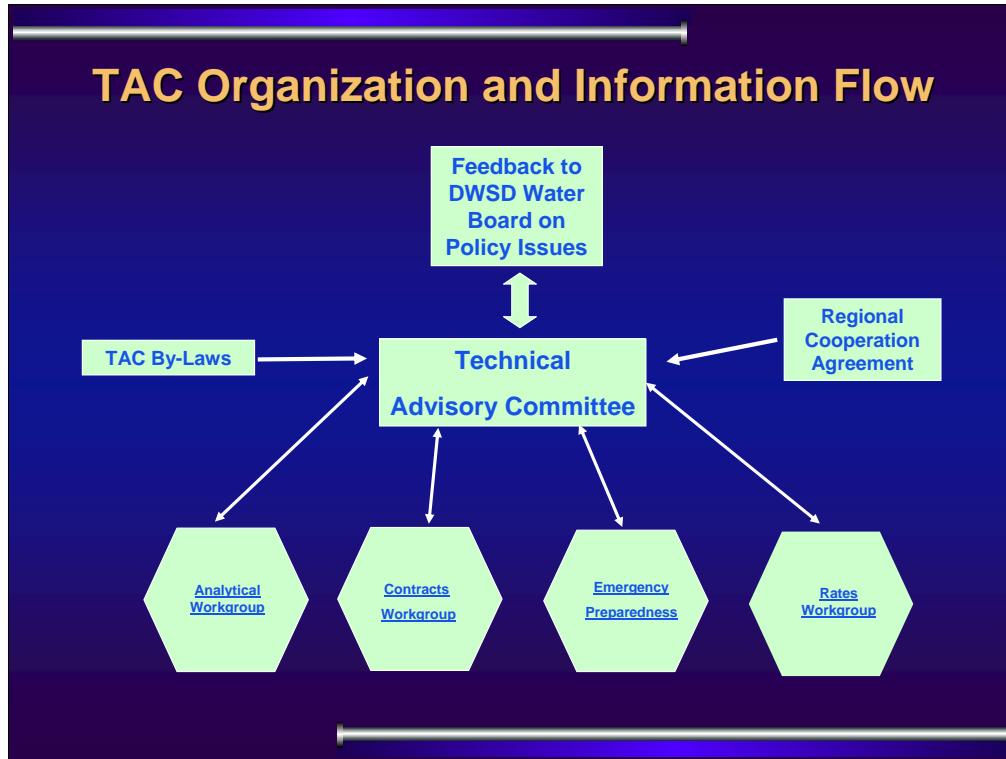
Our mission is to provide a safe, secure & reliable potable water supply with sufficient quantities, pressures & in an efficient, cost effective manner that protects public health through proactive efforts to sustain communication, education, cooperation & a level of service acceptable to all customers.

**The TAC is the
water steering
team for DWSD
and its
customers.**

The TAC provides a collaborative forum

- Predicts actual needs and wants
 - Focuses resources resulting in a cost-effective regional planning
 - Saves time and money with early decision making
 - Provides customer opinion flow and sharing of critical information
 - Develops trust, gains confidence, reduces frustration
-

TAC Organization and Information Flow



TAC By-Laws Features

- Supports Model Contract commitment
- Defines members
- Defines Roles/Responsibilities and selection process for TAC Co-Chairs
- Defines consensus/voting processes for TAC to decide on its recommendation to DWSD
- Include Amendment process

Approved on Jan. 17, 2008

TAC Participants

Allen Park	Eastpointe	Melvindale	Romulus	Washington Twp.
Auburn Hills	Farmington Hills	Northville (City)	Roseville	Wayne (City)
Berlin Twp.	Ferndale	Northville Twp.	Royal Oak	Wayne Cty.
Birmingham	Flint	Novi	SEMCOG	West Bloomfield Twp.
Bloomfield Twp.	Garden City	Oak Park	Shelby Twp.	Wixom
Brownstown Twp.	Genesee County	OCDC	SOCWA	Woodhaven
Canton	Inkster	Orion Twp.	St. Clair Shores	YCUA
Centerline	Lincoln Park	Plymouth Twp.	Sterling Hts.	
Commerce Twp.	Livonia	Pontiac	Taylor	
Dearborn	Macomb Twp.	Redford Twp.	Troy	
Dearborn Heights	MDEQ	Rochester Hills	VA Med. Ctr.	

TAC Co-Chairs include:

Doug Buchholz – OCDC

Tim Faas – Canton Township

Gary Fujita – DWSD

Kurt Giberson - Dearborn

Guy Kebbe – Sterling Heights

John Schandavel – SOCWA

TAC Process Metrics

- Implemented a customer outreach team structure for all water customers.
 - Conducted +600 meetings with customers, elected officials, and state agencies.
 - Established *eRoom* to store documents and meeting schedules.
 - Signed up nearly 300 participants in eRoom and loaded +400 documents.
 - Trained nine DWSD staff members as facilitators.
 - Involvement in DWSD rate-making decisions
 - In 2006, planned and facilitated a Regional Water and Waste Water Forum that was attended by over 120 national, state, regional, and local stakeholders and experts.
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Why is the TAC important to Oakland County and the region?

- Improve communication
- Development of a partnering relationship
- Provide input into DWSD decisions
- Regional approach to improving water supply system
- Foundation for a new relationship

A Continuing Relationship

The TAC February 17, 2004 Goal

Develop a Model Contract that reflects modern operating, political, market, and environmental conditions

Voting Results on Model Contract

Closed on Feb. 8, 2008

YES

1. Brownstown Twp.	13. Redford Township
2. Canton Township	14. Rochester Hills
3. Dearborn Heights	15. Shelby Township
4. Detroit Water & Sewerage Dept.	16. SOCWA
5. Ferndale	17. Southgate
6. Keego Harbor	18. South Rockwood Village
7. Lenox Township	19. Sterling Heights
8. Livonia	20. Washington Township
9. Northville (City)	21. Wayne
10. Northville Twp.	22. Wixom
11. OCDC GWK	23. YCUA
12. Pontiac	

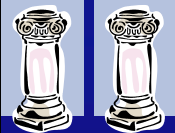
YES Votes with Changes

1. Auburn Hills
2. Bloomfield Hills
3. Bloomfield Township
4. Center Line
5. Commerce Township
6. Dearborn
7. Eastpointe
8. Grosse Pointe Woods
9. Melvindale
10. Orion Township
11. Plymouth Township
12. Roseville
13. Royal Oak Township
14. St. Clair Shores
15. Troy
16. Westland
17. West Bloomfield Township

Three Pillars of New Agreement



- ① Customers will establish desired pressure ranges for service.



- ② The customer will agree to establish maximum flow rates. These flow rates replace annual peaking factors. Both pressure ranges and maximum flow rates will be renegotiable after two years, three years, and every five years thereafter.



- ③ The TAC will annually review contract incidents regarding pressure ranges and flow limits. The TAC will also review the process of establishing and maintaining pressure ranges and maximum flow limits every five years.

Contracts in Negotiation

- Allen Park
- Belleville
- Bloomfield Twp.
- Brownstown Twp.
- Canton
- Center Line
- Dearborn
- Dearborn Heights
- Eastpointe
- Ferndale
- Fraser
- Livonia
- Northville
- Northville Twp.
- Plymouth Twp.
- Romulus
- Roseville
- SOCWA
- St. Clair Shores
- Sterling Heights
- Taylor
- Troy
- Wayne
- West Bloomfield
- Wixom
- YCUA (Board Approved)