The background features abstract geometric shapes. On the left, there is a vertical orange triangle. Below it, a teal triangle points upwards. The rest of the background is filled with a large blue shape that has a diagonal line across it, creating a sense of depth and movement.

NOCWA

NORTH OAKLAND COUNTY
WATER AUTHORITY

CURRENT SITUATION

- Individual communities purchase water from the Detroit Water and Sewerage Department (DWSD) through individual community contracts
- Rates are based on purchased water volume, distance and elevation from DWSD and peaking factors for maximum day and peak hour water demands
- By working together – the opportunity exists to curtail future water increases along with a reduction in revenue requirement from DWSD through peak hour demand mitigation



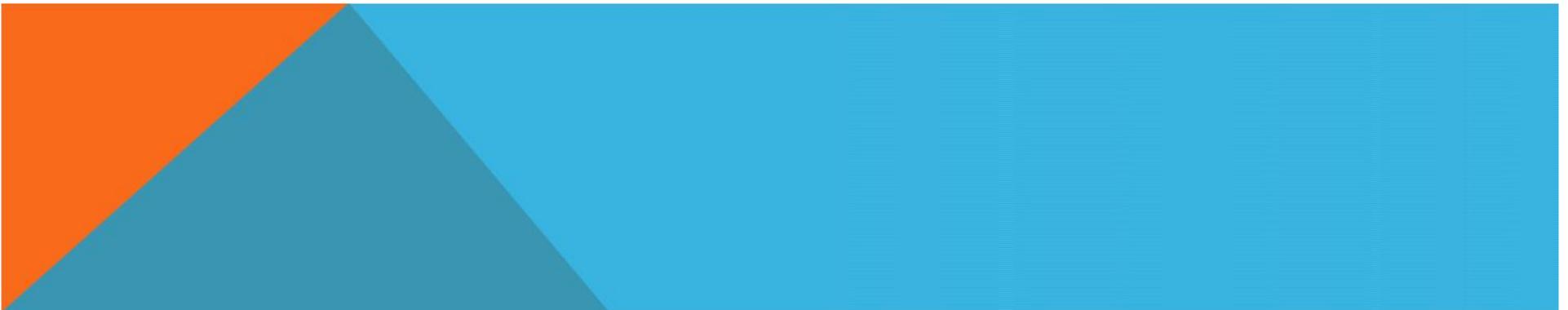
PURPOSE OF NOCWA

- Provide better water service for Northern Oakland County Communities
- Maximize the utilization of existing underutilized assets; like the Pontiac Water Storage Tanks
- Increase overall efficiency by operating as a small regional district instead of 4 individual communities



COMMUNITIES

- Auburn Hills
- Pontiac
- Rochester Hills
- Orion Township
- Oakland Township (Potential Future)
- Others?



SERVICE AREA

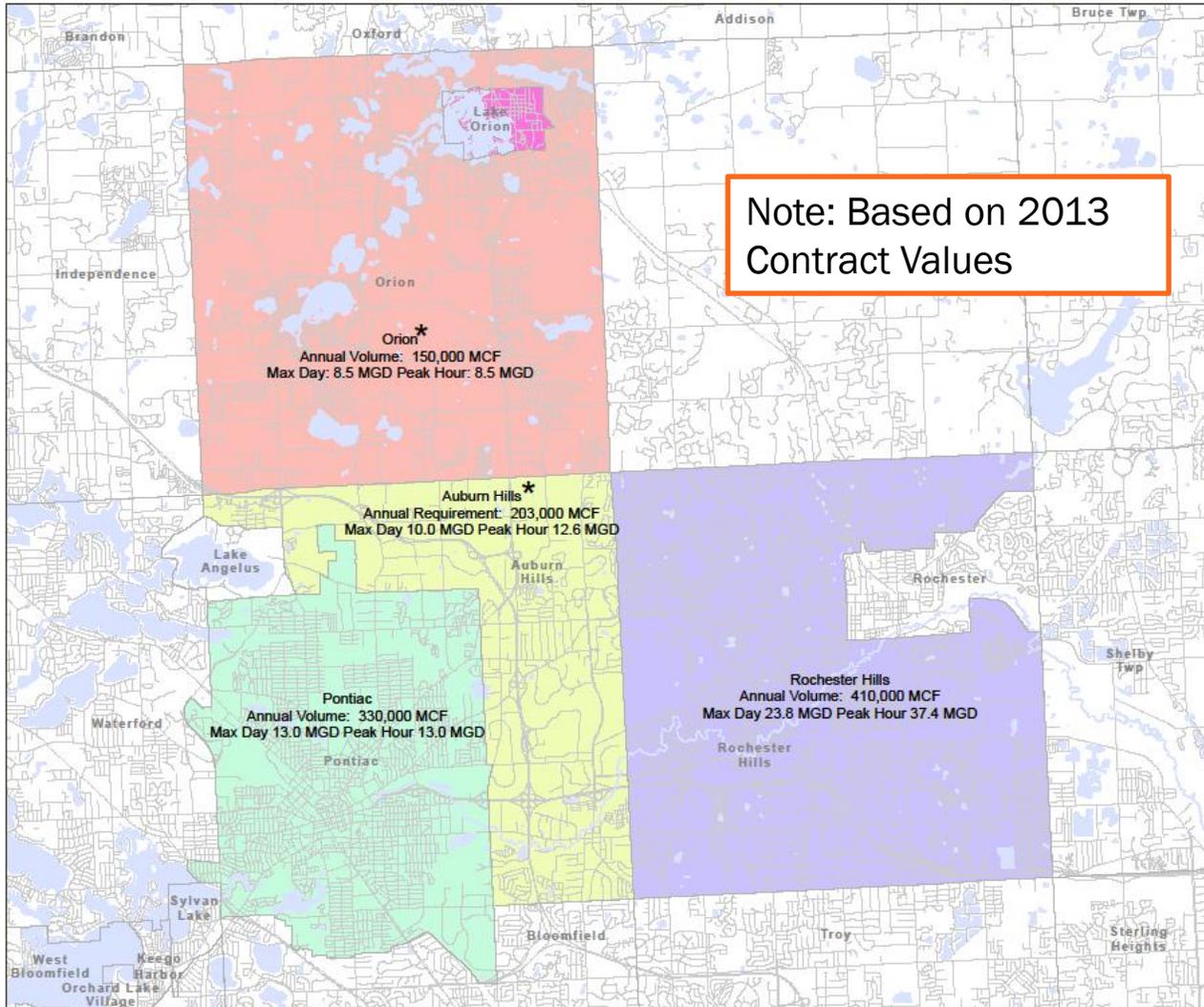


FIGURE A
Proposed NOCWA
Service Areas
 Oakland County

- Auburn Hills
- Lake Orion
- Orion
- Pontiac
- Rochester Hills

★ Flow rate for base scenario



Source: Data provided by Oakland County Orchard, Hitz 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 Intl

Map Published: July 12, 2013



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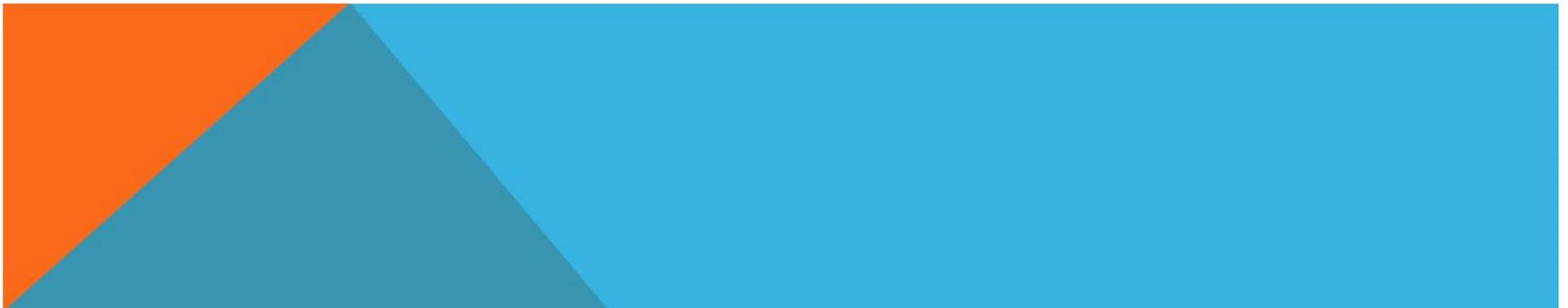
ADVANTAGES OF NOCWA

- Economic Benefit
 - Sustainable water rates lead to community growth
- Community Collaboration
 - Sharing of best management practices
 - Enhanced communication
- Enhanced Level of Service
 - Improved water system pressures for some customers during high water demand
- Maximize Existing Infrastructure and Reduce Future Capital Expenditures



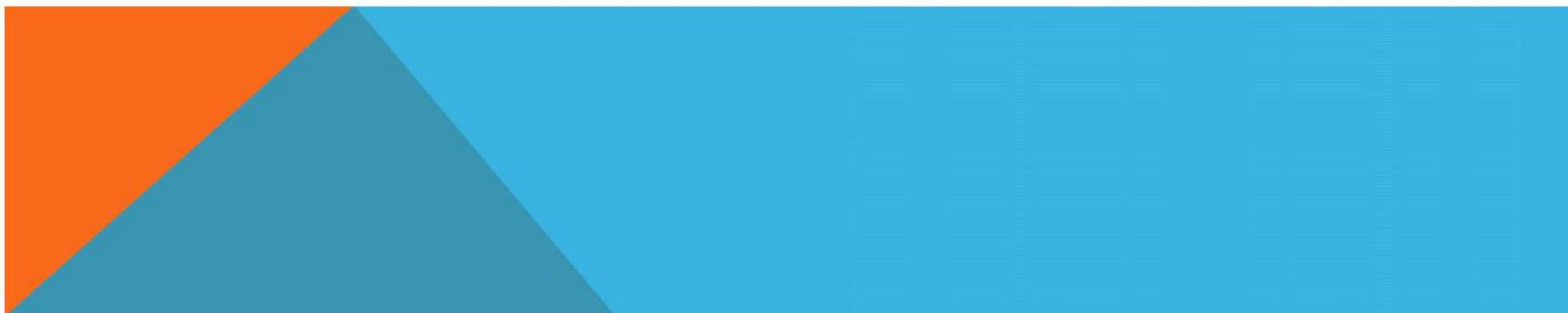
MOVING FORWARD – PHASED APPROACH

- Phase 1 – Creation of an Authority
- Phase 2 – Pontiac institutes upgrades and operational changes to supply their peak hour water demand through their existing storage tanks
- Phase 3 – New water main constructed between Pontiac and Auburn Hills to further reduce peak hour water draw from DWSD



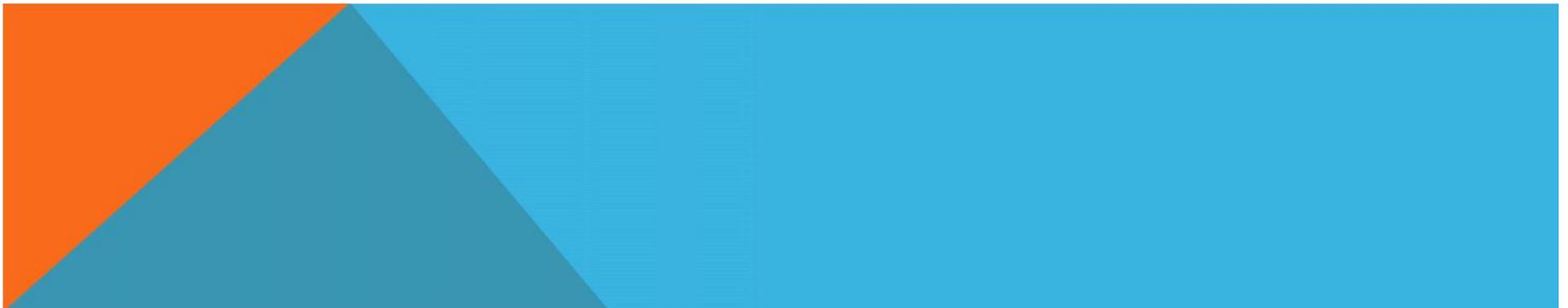
PHASE I: CREATION OF AN AUTHORITY

- Formation of NOCWA under Michigan Constitution of 1963 and Urban Cooperation Act of 1967
- Simple structure
- Goal is to keep infrastructure ownership and operations/maintenance with individual communities
- Duties (financial, legal, etc) taken on by individual communities to eliminate need for direct NOCWA employees or consultants



PHASE II: PONTIAC UPGRADES FOR PEAK HOUR MITIGATION

- Utilize existing pumping station and storage facilities to satisfy Pontiac's peak hour demand
- Reduce or eliminate DWSD draw from existing meter connections (PO-01 and PO-02) during peak hour
- Requires enhanced SCADA communication and controls at existing meter connections
- System operational for summer 2014 demonstration to DWSD
- Expected to result in over \$3,000,000 in DWSD revenue requirement reduction compared to the total revenue requirement of the four individual communities



PHASE III: ADDITIONAL CAPITAL INFRASTRUCTURE FOR FURTHER PEAK HOUR MITIGATION

- Meter pit and water main installed to convey water from Pontiac Storage to Auburn Hills
- System controls instituted at AH-02 (Auburn Hills DWSD Meter Connection)
- Expected to result in additional \$300,000 in DWSD revenue requirement reduction for the four individual communities



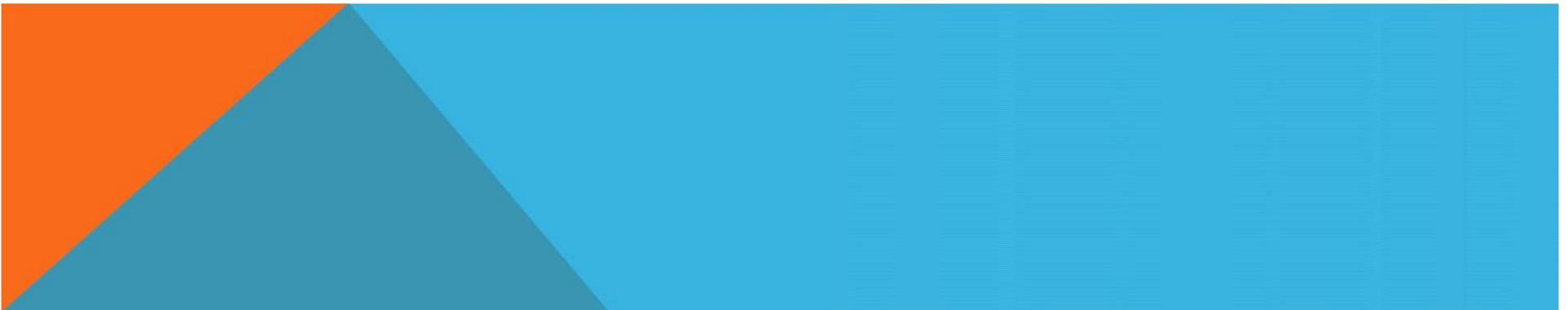
NOCWA STATUS

- Ongoing community representative meetings to define NOCWA goals, legal agreements & rate methodology since January 2013
- SEMCOG providing facilitation services – Spring 2013
- Funding established for technical assistance - Spring 2013
- Obtained letter of support from DWSD for NOCWA formation – September 2013
- Requested funding from Oakland County Water Resources Commission (OCWRC) for Authority implementation – November 2013
- Resubmit Competitive Grant Assistance Program grant – January 2014



WHAT'S NEXT?

- Create draft collaboration agreement (NOCWA formation) by 3/14 (Rochester Hills)
- Implement Phase II Improvements by 5/14 (Pontiac)
- Demonstration period for peak hour management Summer 2014
- Negotiate contract with DWSD between 6/1-10/31 (Community Representatives)



QUESTIONS?

