

# Water System ISO Preparation for Rating

# What is ISO?

- ▶ ISO is a rating system for a community assessment to prevent fire loss.
- ▶ Community rating for insurance purposes.

# Community Rating

- ▶ Rating is based on emergency notification (911), the local fire department and the local water supply.
  - ▶ Rating system is from 1 to 10.
  - ▶ Industrial, Business and Homeowners insurance rates based on this rating.
  - ▶ **BENEFIT** Lower the rating reduces the insurance rates.
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# Calculations to Rating

- ▶ Notification System 10%
- ▶ Fire Department 50%

▶ **Water System is 40% of the rating!**

- ▶ This becomes a cooperation with your fire department– Joint Venture

# ISO SERVICE

- ▶ ISO is a “free” service
  - ▶ Every community gets an ISO representative
  - ▶ ISO packet
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# ISO PACKET

- ▶ The water system and how it works
  - ▶ Water source
  - ▶ Storage tanks / reservoirs
  - ▶ Pressure districts / PRV / Bypass
  - ▶ Water main sizes
  - ▶ Hydrants
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# Gathering Information

Use the ISO packet –answer the questions.

Use information already available – if it is current!

- ▶ Contact person.
  - ▶ Water system operation descriptions. Use your reliability study language.
  - ▶ Current water system map.
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# More Information

- ▶ Maximum daily consumption for the past year must include the past three years of data (use your annual MDEQ pumpage reports).
  - ▶ Water supply information.
  - ▶ Alternative water supplies.
  - ▶ Storage tank or reservoirs elevation plans with information.
  - ▶ Pumps and rated capacity.
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# Hydrants

- ▶ Hydrant maintenance
  - ▶ Hydrant flushing frequency
  - ▶ Hydrant markings
  - ▶ Hydrant operation
  - ▶ Hydrant flows and pressures
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# Hydrant Forms and Information

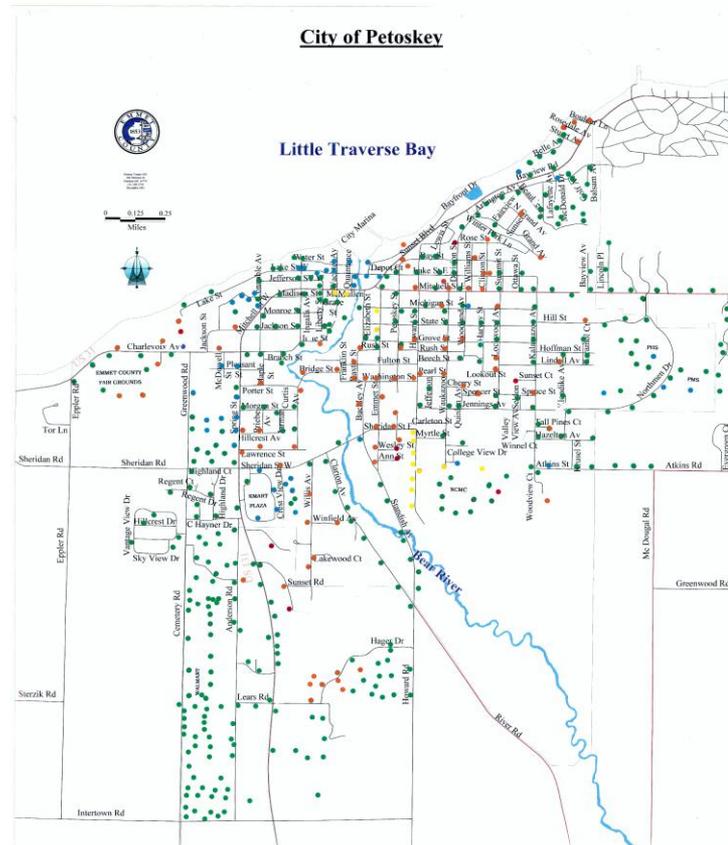
HYDRANT INFORMATION FIELD REPORT				WSSN 5300
			Data Entry Date	/ /
Hydrant No.	Operator	Report Date	/	/
Address No.				
Street Name				
Cross Street 1				
Cross Street 2				
Main Size				
Barrel Size		No. of Outlets		
Opening Direction RT LT		Outlet 1 size		
Shutoff Valve Location		Outlet 2 size		
		Outlet 3 size		
FLOW TEST DATA		HYDRANT	FLOWING	
Pressure Hydrant		Static PSI		
Discharge Opening		Pitot Reading PSI		
Co-Efficient		Residual PSI		
Last Test Date		GPM		
REMARKS / SPECIAL INSTRUCTIONS				
Color Code_____				

- ▶ Hydrant Records
- ▶ Tag number
- ▶ Hydrant location
- ▶ Type of hydrant
- ▶ Make of hydrant
- ▶ Size of hydrant
- ▶ Main size
- ▶ Hydrant flow information

# Flow Indicating

- ▶ Main Size Marking
- ▶ Pressure zones
- ▶ Source of water supply
  - Dry hydrant
  - Reclaimed water
- ▶ Hydrant Flow Marking
  - ▶ BLUE = +1500 gpm
  - ▶ GREEN = 1000–1500 gpm
  - ▶ ORANGE = 500–1000 gpm
  - ▶ RED = 500 gpm

# Hydrant Flows



# Flow Indicating



# Hydrant Marking



Mark-A-Hydrant® Reflectors deliver:

- Significantly Greater Visibility
- Immediate Flow-rate Identification
- Quick and Simple Installation
- Excellent Durability
- Interference free Hydrant Operation
- Low Cost

Color codes  
Hydrant flags  
Hydrant tags



# Hydrant Main Marking

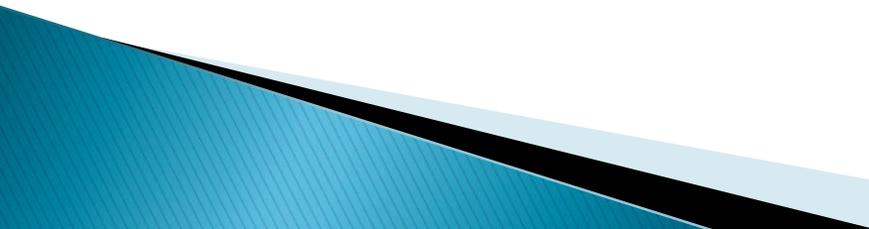


- ▶ Orange = 24 inch main
- ▶ Green = 12 inch main
- ▶ White = 8 inch main
- ▶ Yellow = 6 inch main

# Report to ISO

- ▶ Call your ISO representative with questions you have.
  - ▶ Mail your packet of information to ISO.
  - ▶ Contact ISO for a site visit (ISO likes about 6 weeks to review the submitted information).
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# ISO SITE VISIT

- ▶ ISO site visit is divide between fire / water departments.
  - ▶ Water system inspection:
    - Wells
    - Storage tank(s)
    - Data review – Hydrant flow information
    - Hydrant mapping
    - ISO hydrant flow testing
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**THEN YOU WAIT  
4 to 6 months**



# Questions ?

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