

BOARD OF DIRECTORS MEETING 07 17

MINUTES

A meeting of the Conservation Halton Board of Directors was held on Thursday, October 26, 2017, beginning at 3:05 pm at Conservation Halton Administration Building.

Members Present: Rob Burton
Mike Cluett
Joanne DiMaio
Cathy Duddeck arrive 3:45
Rob Duvall
Allan Elgar
Stephen Gilmour
Dave Gittings
Moya Johnson
Gord Krantz depart 4:05
Bryan Lewis
Gerry Smallegange
Jim Sweetlove
John Vice
Marianne Meed Ward
Jean Williams

Absent with Regrets: Sue McFadden
Ed Wells

1. Acceptance of Agenda as distributed and amended.

CHBD 07 01 Moved by: Rob Duvall
Seconded by: Dave Gittings

THAT the Conservation Halton Board of Directors **accept the Agenda as distributed and amended.**

Carried

2. Disclosure of Pecuniary Interest for Board of Directors

There was no disclosure of pecuniary interest

3. **Presentation:** A presentation on Flood Forecasting Modernization Strategy was provided by Glenn Farmer, Coordinator, Flood Forecasting Operations and Hassaan Basit, CAO/Secretary- Treasurer. A copy of the presentation is provided with these Minutes.

4. Consent Items

Report #: 07 17 02, Page 1, last paragraph, sentence missing: "Based on a three-year average of actual seasonal wages from 2014 to 2016 this will reduce the financial impact to \$340,572."

The Consent Items were adopted.

7. **Other Business**

Emerald Ash Borer progress report was provided for the Members.

2018 Budget is being provided at the Nov. 1, 2017 Finance & Audit Committee and then at the Nov. 26, 2017 Board of Directors meeting

Mr. Patrick Moyle provided an update on his work for Conservation Halton to date.

Members highly commended staff on hosting the Citizenship Ceremony at Kelso Conservation Area for 40 new Canadians in partnership with CIC (Citizenship and Immigration Canada).

CAO will provide a presentation at the Nov. 26, 2017 Board meeting on the results of Planning & Regulations Process Re-Engineering Project and its implications on achieving service delivery goals.

8. **Adjournment**

CHBD 07 10

Moved by:

Marianne Meed Ward

THAT the Conservation Halton Board of Directors **adjourn at 4:30 pm**
Carried



Flood Forecasting & Operations (FF&O) Program

**An Update on the Status of Flood Forecasting &
Operations Program**

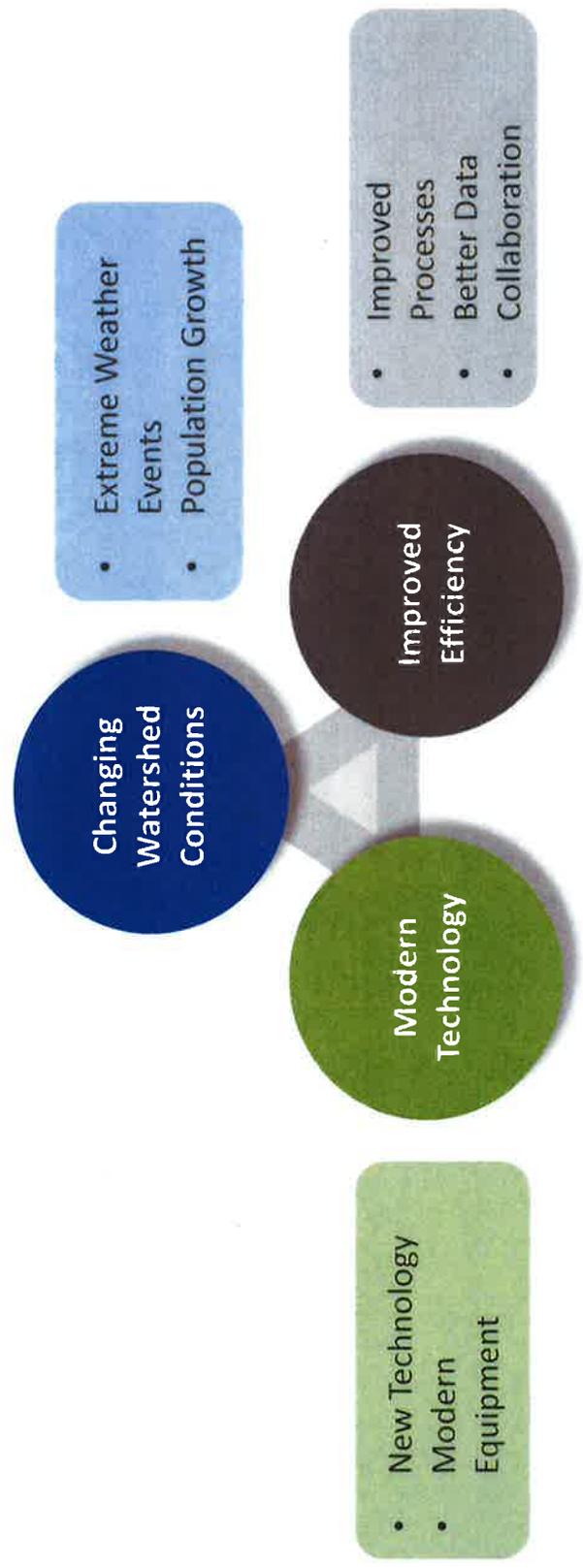
October 2017





Conservation Halton Strategic Plan

Key Objective: *“Enhance public safety through the modernization of flood management operations to protect communities from severe weather and natural hazards”.*





FF&O Program Components

- **Watershed Monitoring**
- **Flood Forecasting & Warning (FF&W)**
- **Operations & Maintenance (O&M)**
- **Capital Projects**
- **Program Administration**

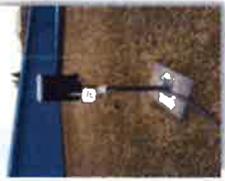




Watershed Monitoring

Watershed Monitoring

- Existing Station Upgrades
- New Climate & Streamflow Gauging Stations
- Real-Time Monitoring Network
- Collaboration with Watershed Partners (Region, Municipalities, Government Agencies & Private Sector)



- Equipment Upgrades & Retrofits
- Installation of New Gauges & Sensors
- New Watershed Monitoring Software
- Use of Mobile  Smart Phone Applications
- Building Watershed Partnerships & Increasing Collaboration

Conservation Halton Proposed Real-Time Rain Gauge Network



- Heated Gauge
- Weighing Gauge

- Conservation Halton
- City of Burlington
- Credit Valley Conservation
- Environment Canada
- Regional Municipality of Halton
- Municipal Boundary
- Niagara Escarpment

Existing Coverage (Telemetered)

- Conservation Halton
- Conservation Halton (PGMV)
- Region of Halton
- Town of Oakville
- Credit Valley Conservation
- City of Burlington
- City of Hamilton

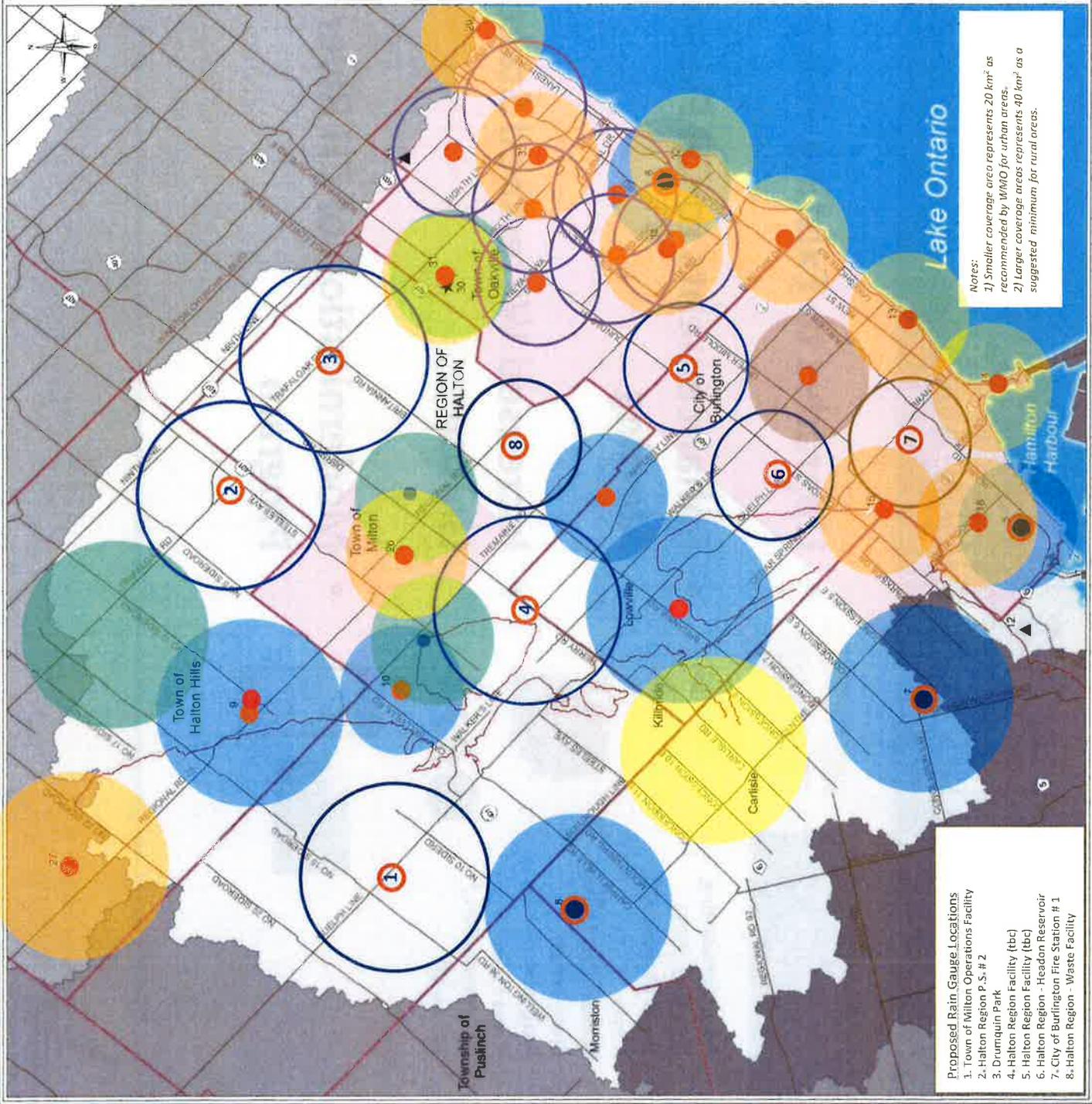
Future Stations (Telemetered)

- Conservation Halton
- City of Burlington
- Town of Oakville
- Region of Halton
- City of Hamilton
- Other



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Notes:
 1) Smaller coverage area represents 20 km² as recommended by WMO for urban areas.
 2) Larger coverage areas represents 40 km² as a suggested minimum for rural areas.

- ### Proposed Rain Gauge Locations
1. Town of Milton Operations Facility
 2. Halton Region P.S. # 2
 3. Drumquoin Park
 4. Halton Region Facility (tbc)
 5. Halton Region Facility (tbc)
 6. Halton Region - Headon Reservoir
 7. City of Burlington Fire Station # 1
 8. Halton Region - Waste Facility



Flood Forecasting & Warning (FF&W)

Flood Forecasting & Warning (FF&W)



- Flood Forecasting Activities (DPC)
- Flood Messages & Alerts
- Stakeholder Liaison Program
- River Watch
- Flood Event Documentation / Follow up



- Upgrades to Existing FF&W Tools
- Enhancements to CH Flood Messaging & Alerting
- Increased Watershed Stakeholder Liaison
- Modernization of CH River Watch Program



Operations & Maintenance (O&M)

Operations & Maintenance

- Flood Control Infrastructure Maintenance
- Web-based O&M System Development



- Equipment Upgrades & Replacement

- New Vegetation Management Equipment & Techniques



- Health & Safety Improvements



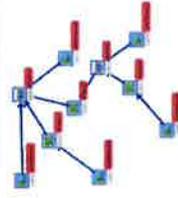
- Public Safety Initiatives



Capital Projects

Capital Projects

- Flood Forecasting System Upgrades & Development (tools, models)
- Flood Control Infrastructure Replacements & Upgrades (WECI and non-WECI projects)
- Flood Remediation Projects



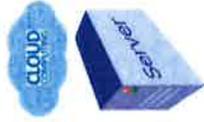
- Managing Capital Assets
- Development of New Software & Tools
- Implementation of a Flood Forecasting & Warning Model Pilot Study
- Coordination of MNRF Water & Erosion Control (WECI) Projects



Program Administration

Program Administration

- Program Planning
- Budget
- Schedule
- Documentation
- Training
- Reporting
- Emergency Operations Centre (EOC)
- Communications System



- Preparation of Flood Forecasting & Operating Modernization Strategy
- Improved Budget Planning & Scheduling
- Updated Program Documentation



FF&O Program Costs

How much will this cost???

- FF&O program 2017 operating & capital year-end projection ~\$250,000*
- FF&O program baseline operating & capital budget expected over next five years (2018-2022) >\$300,000*

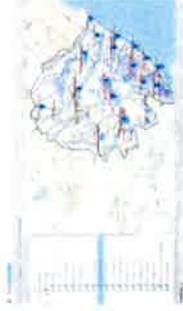
* Does not include salary & benefits

Interactive Demonstration

- CH's Watershed Monitoring System (PC)
- Integration of Dam Operations into DataCurrent using QR Codes (iPhone)
- Axis Companion Web-Cameras (iPhone)
- Logger Link Direct Datalogger Access (iPhone)
- Vijeo Design'Air Scotch Block Emergency Spillway PLC Monitoring (iPhone)
- Other Useful FF&O Mobile Applications
 - STORM – weather & radar application including alerting functions
 - Windy TV – Forecast application including wave height & direction
 - Windy – wind forecast application for Lake Ontario shoreline



Hilken Falls Lower 12 Inch



STORM





Questions ?

Key CH Staff:

- Janelle Weppler, Associate Director Engineering
- Benjamin O'Reilly, Flood Forecasting & Operations Technologist
- Dave Mitchell, Flood Control Operations Specialist
- Rob Turner, Flood Control Operations Specialist
- Richard Admans, IT Specialist



Glenn Farmer

Coordinator, Flood Forecasting & Operations

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