



Minutes of Meeting of the Essex Region Source Protection Committee (SPC) held on **Wednesday, May 19, 2010**, in the **Essex Civic Centre, Committee Room E**, 360 Fairview Avenue West, Essex, Ontario.

PRESENT

MEMBERS:	Robert Auger – carries proxy for Thom Hunt	Hans Peter Pfeifer
	John Barnett	Andrew Pula
	David Church	Gord Queen
	Tom Fuerth (Chair)	Mario Sonego
	Antonietta Giofu	John Stuart
	Charles McLean	Ron Rogers (SPA Liaison)
	Teresa McLellan (MOE Liaison)	Larry Verbeke
	Tim Mousseau	David Watsa

REGRETS: Thom Hunt
Ashley Stevenson

ABSENT: Deb Bennett (Health Liaison)

STAFF: Stan Taylor, Director of Source Water Protection
Candice Kondratowicz, Administrative Assistant
Rajesh Bejankiwar, Water Quality Specialist

GUESTS: None

CALL TO ORDER

The Chair of the SPC, Tom Fuerth, called the Meeting to Order at 4:15 p.m.

CHAIR'S WELCOME

Chair Fuerth welcomed all the attendants to this SPC meeting.

Chair Fuerth discussed the great outcome for the OWWA Conference. It was mentioned that the planned events were enjoyed by all.

Stan Taylor & Chair Fuerth attended a one day session on Watershed Based Planning hosted in Toronto where Source Water Protection was discussed. It was determined that the session was good to attend, but not much new information was provided.

INTRODUCTIONS

David Church, new SPC Member replacing Jim Vincent. Mr. Church works at Canada Salt Company, as the Mine Manager at the Ojibway Mine.

DISCLOSURE OF INTEREST

None

AGENDA

1. The Agenda for the Meeting of the Essex Region Source Protection Committee (SPC) held on Wednesday, May 19, 2010.

Resolution SPC 20/10

**Moved by Charlie McLean
Seconded by John Barnett**

THAT the Agenda for the Wednesday, May 19 2010, Meeting of the Essex Region Source Protection Committee (SPC) be approved.

- CARRIED

MINUTES

1. Minutes of the Meeting of the Source Protection Committee (SPC) held on Tuesday, March 23, 2010.

Resolution SPC 21/10

**Moved by Tim Mousseau
Seconded by Gord Queen**

THAT the Minutes of the Meeting of the Source Protection Committee (SPC) held on Tuesday, March 23, 2010 and the recommendations therein be adopted as distributed.

- CARRIED

CORRESPONDENCE

None

DELEGATIONS

None

SOURCE PROTECTION AUTHORITY (SPA) INFORMATION

1. Minutes of the Meeting of the Source Protection Authority (SPA) held on February 11, 2010.

Resolution SPC 22/10

**Moved by Charlie McLean
Seconded by John Stuart**

THAT the Minutes of the February 11, 2010, Source Protection Authority (SPA), as distributed be received for information purposes.

- CARRIED

2. Report SPA 03/10 – Source Protection Chair’s Quarterly Report.

Resolution SPC 23/10

**Moved by Charlie McLean
Seconded by John Stuart**

THAT the Report SPA 03/10 as distributed be received for information purposes.

- CARRIED

MOE LIAISON’S UPDATE

Ms Teresa McLellan provided a brief update to the SPC.

The Water Opportunities Act was discussed by Ms McLellan and the SPC. This Act encourages water conservation.

The Chair’s meeting which was hosted in Windsor was briefly discussed. Good feedback was received in regards to the hosting of this meeting.

The upcoming Walkerton 10th Anniversary was discussed by Ms McLellan, she also touched upon a new program that will help benefit with the recent disaster in Haiti. Walkerton to Haiti Clean Water Project – a project which will help the survivors of Haiti disaster with recovery to ensure the provisions of safe drinking water.

REPORTS

1. **Report SPC 07/10** – Issues – Further Work for Updated Assessment Report

A powerpoint presentation was provided by Stan Taylor & Rajesh Bejankiwar (*attached*).

Resolution SPC 24/10

**Moved by Tim Mousseau
Seconded by Gord Queen**

THAT the scope of the work regarding Issues for the purpose of the updated Assessment Report, as outlined in Report SPC 07/10 be endorsed, subject to available funding.

- CARRIED

OTHER BUSINESS

The following items were provided on the Agenda to the SPC for information purposes.

1. Proposed Assessment Report

No further discussion occurred.

2. South Point Wind's 1400MW Offshore Wind Energy Project

Ms McLellan advised that there will be an EBR posting regarding the Offshore Wind Energy Project sometime in the near future.

3. Tour of IPZs and HVAs

Stan Taylor advised any SPC who have not yet RSVP'd to this event, do so in order for arrangements for the Tour to be made.

4. Update on Ontario Drinking Water Stewardship Program (ODWSP)

The status of the funding for the Car Wash was briefly discussed.

5. Source Protection Plan Process

The discussion by the SPC indicated that the Municipal Working Group (MWG) should probably evolve into two committees. A Planning Working Group (PWG) would be beneficial to assist the SPC in developing policies for the Source Protection Plan. In addition to Planners from various municipalities, the PWG might include others such as Public Works, Building Officials, & SPC Members. Also, the formation of a second group with a technical focus was discussed. As well as a Committee of the Whole group for sensitive items. It was also noted that the invitations to join these two subgroups should not be extended to the 'general public' as the SPC was formed to represent different areas/groups and act on the behalf of the public.

NEW BUSINESS

1. Business Plan Submission 2010 – 2011

This was provided to the SPC information purposes.

2. Walkerton Water Tragedy 10th Anniversary – Commemoration

As mentioned previously by Teresa McLellan, donation to help the new project Walkerton to Haiti can be made by person, if you desire to help make people aware of the need for clean drinking water.

3. Pharmaceuticals & Personal Care Products and Source Protection

This was provided for information purposes, no discussion occurred.

4. Accessibility Training

Discussion arose regarding the best time for the SPC to attend this training. It was determined that some SPC members have already attended Accessibility Training through means of employment. It was mentioned that any SPC members who have had this training & don't want an update should advise Candice. Also that this training should be held at the beginning or end of the meeting to accommodate for those who have been previously trained. An update will be provided at the June SPC meeting.

5. Part IV – Training – Risk Management Officials

It was determined that this training is not required at this time and that Teresa McLellan request a copy of the content and/or syllabus for the SPC to review. If required, ERCA may send someone to attend this training. It was noted that this training is expected to be over a couple of weeks.

MEETING ADJOURNMENT

Resolution SPC 25/10

**Moved by Consensus
Seconded by**

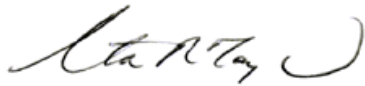
- CARRIED

Meeting adjourned at 6:25 p.m.

DATE – NEXT MEETING

The next meeting of the SPC is scheduled for **Wednesday, June 16, 2010** in the Essex Civic Centre, Committee Room C, beginning at 4:00 p.m.

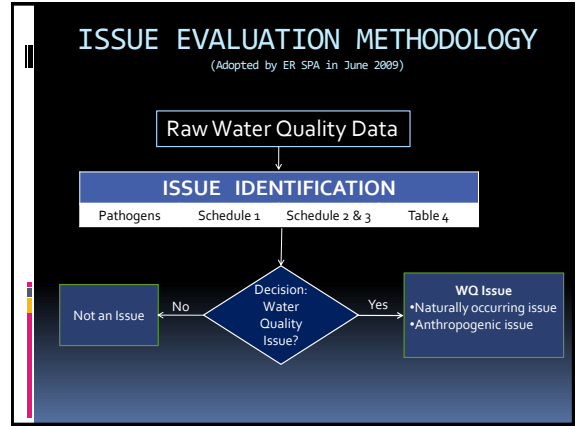
CONCLUSION OF MEETING



Stan Taylor P.Eng.,
SWP Program Manager

Further Work for Updated Assessment Report

DRINKING WATER QUALITY ISSUES IN ESSEX REGION SPA



DW Quality Issues Identified in ER SPA

Stoney Point WTP	Lakeshore (Belle River) WTP	AH Weeks WTP	Amherstburg WTP	Harrow Colchester South WTP	Union WTP
Turbidity	Turbidity	Turbidity	Turbidity	Turbidity	Turbidity
Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Organic N		Organic N	Organic N	Organic N	Organic N
	Iron		E.coli		

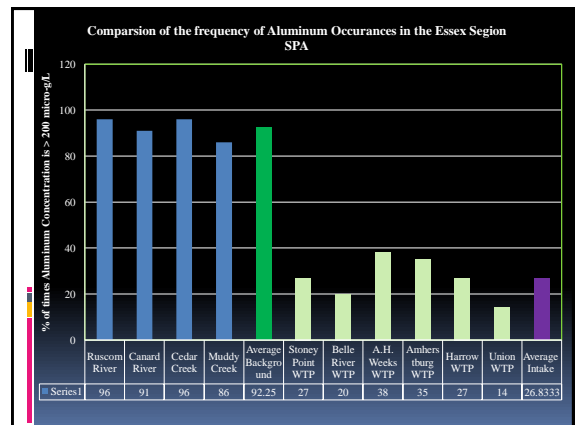
Identified through Issues Evaluation Method in the Draft Assessment Report (2009)

Pelee Island WTP: No issues were identified due to lack of data

The Wheatley WTP: Turbidity was identified as a Issue by TSR (limited data for other parameters)

- ### Further work on Issues
- Evaluation of some of the Issues: **anthropogenic** or **natural** sources
 - Determination of the 'Issue Contributing Areas' (ICAs)
 - Evaluation of concerns: ammonia, and algae; and for the Pelee Island WTP and for HVAs

- ## Aluminum
- **Preliminary indications:** The levels of Al at the intakes within the natural background levels
 - **Limitations:** Difference in timing and frequency of the sampling data sets; dilution
 - The relative contribution of **anthropogenic point sources** have not been evaluated



Further study on Aluminum

- Analysis of data from sewage discharges and WTP discharges
- Literature Review on Al levels in offshore waters
- Analysis of existing data: local watersheds and nearshores
- Possibly -targeted samplings: intakes, select tributaries and offshore

Turbidity

- **Strong correlation:** Between tributary runoff events and the turbidity spikes based on studies at the Belle River WTP and Amherstburg WTP
- Issue of turbidity considered at least **partly anthropogenic** where strong association with **run-off events**
- Issue of turbidity may be considered **natural** where very strong association with **wind events**

Further study on Turbidity

- Correlation between turbidity spikes and run-off and/or wind events for the Windsor and Union WTPs initially
- Budget approximately \$50,000 – possibly needed for other WTPs later
- For issue of anthropogenic origin: **Issue Contributing Area** should be considered as **IPZ-3**

Turbidity continued.....

- **IPZ-3s** should include the tributaries shown to contribute to the IPZ-1s and IPZ-2s
- **The IPZ-3s for Lake St Clair Intakes:** Baird is evaluating if other tributaries contribute
- The SPC would need to request the Director of the SP Branch to add specific activity(ies), circumstances, as threat(s) for Issue of Turbidity

Organic Nitrogen

- **Anthropogenic sources are likely substantial factors:** Sanitary sewage discharges, fertilizers, faulty septic systems, livestock operations etc.
- **The Issue Contributing Areas (ICAs):** Likely widespread in most cases, as with Turbidity

Further study on Organic N

- **Analysis of existing data:** areas where sewage discharges, septic systems
- **Literature Review** on Organic N levels in offshore waters - including other Source Protection Regions
- May assist in the ICAs delineation, and understanding of relative contributions of some of the main anthropogenic sources

E.Coli (Amherstburg WTP intake only)

- Anthropogenic sources are considered to be very substantial factors
- Studies shown relatively little mixing across the river -largely due to anthropogenic sources on the Canadian side of the River
- Need for better understanding on relative contributions of potential sources

Further study on E.coli

- Analysis of existing data: recent monitoring in the Canard River and nears its outlet in the Detroit River
- Canard River appears to be only a partial contributor
- Targeted sampling: Upstream and downstream of sewage plant , tributary outlet, and near the intake
- Estimated cost for targeted sampling: \$25,000 (ERCA staff) – possibly need to expand

Iron (the Lakeshore WTP intake only)

- Anthropogenic sources are likely substantial factors

Further Evaluation of:

- Data from sewage discharges
- MPAC Data, 'parcel look-up' etc
- Data from recently extended intake
- Existing data from ERCA's programs
- Possibly -Some targeted sampling:\$10,000

Further Evaluation of Other Potential Issues

- The Pelee Island WTP intake: Depending on availability of data
- Ammonia: evaluation of information from Operators
- Blue-green algae/Cyanobacteria: Analysis of the Summer 2009 and new data
- Literature Review and other Research: Phosphorus levels and other conditions

Potential Issues.....

- GW Quality Issues in HVAs: Private well testing results form the Ministry of Health or the Health Unit
- The Wheatley WTP
 - Further collaboration with the TSR on issue of turbidity, and evaluation of other potential issues
 - Details are not available at this time

Conclusions/Summary

This proposed plan of work would greatly assist in:

- Delineation of ICAs (for anthropogenic issues)
- Relative contribution of various sources contributing to the Issue

Further recommendation to the SPC on:

- Delineation of additional IPZ-3s for intakes on the Detroit River and Lake Erie Threats Assessment through an 'Event based' approach