



DRINKING WATER **SOURCE PROTECTION**

Our Actions Matter

Essex Region
Conservation Authority
sustaining the place for life

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Annual Progress Reports

- Annual Progress Reports are required by May 1st each year
- Reports are generated from data collected from Implementing Bodies, received by February 1
- The Report covers progress toward implementation cumulatively from October 1, 2015 (effective date) to December 31, 2019.
- Progress in 2019 is highlighted
- Reports are produced using a template provided by MECP
- This is the third Annual Progress Report produced by the ERSPA



Scoring in Annual Progress Report

P – Progressing Well

S – Satisfactory

L – Limited progress

- Overall Score
- Implementation Progress
- Municipal Progress
- Risk Management Plans
- Provincial Progress



Overall Score & Message from the SPC

- **Overall Score**
- 2018 score: **P – progressing well**
2019 score: **P – progressing well**
- Continue to make progress on implementation of all policies.
- Municipalities are incorporating Source Water Protection into their business practices and working on Official Plan updates.
- Progress towards the establishment of RMPs for existing threats is on target to meet 1 October 2020 deadline
- Harmful Algal blooms continue to impact our local drinking water sources, and we must continue local efforts
- Recommends that the Ministry develop, at least, a base funding strategy to ensure the local program is able to deliver results that are effective.



Policy Implementation Progress

2018 score: **P – progressing well**

2019 score: **P – Progressing well**

- The percentage of fully implemented policies for significant drinking water threats has increased from 2018 (54%) to 2019 (57%)

| Implementation Status | Significant Threat Policies | Low/Moderate Policies | Other Policies |
|----------------------------|-----------------------------|-----------------------|----------------|
| Implemented | 25 | 1 | 1 |
| No further action required | 1 | 1 | 0 |
| In progress | 17 | 2 | 1 |
| No progress made | 1 | 0 | 0 |
| No response received | 0 | 0 | 0 |
| TOTAL | 44 | 4 | 2 |



Municipal Conformity Progress

2018 score: **P – progressing well**

2019 score: **P – progressing well**

- Municipalities have:
 - Delegated Part IV to ERCA
 - Have screening mechanisms in place for s.59 policies
 - Completed or working on OP and ZBL updates
 - Completed or working on road sign installation

| Progress | OP | ZBL |
|--------------|----|-----|
| Complete | 3 | 2 |
| In process | 8 | 7 |
| Not started | 0 | 2 |
| Not required | 0 | 0 |



Risk Management Services

Q4) Risk Management Plans

2018 score: **P – progressing well**

2019 score: **P – progressing well**

Summary

- **384** threats identified in the Assessment Report
 - **295** properties do not require a RMP
 - **6** additional threats (not identified in the Assessment Report) were identified through field verification in 2019 (1/ 6 completed a RMP)
 - **34** RMPs established in 2019
 - **48** RMPs established overall
 - **44** RMPs are in progress
 - **2 sites** under further investigation
 - **46 sites remaining in Essex Region**

20 additional RMPs have been established for existing threats since January 1, 2020



Risk Management Services

Q4) Risk Management Plans

2018 score: **P – progressing well**

2019 score: **P – progressing well**

| Risk Management Plans (Existing Threats) | |
|--|----|
| 2016 | 0 |
| 2017 | 1 |
| 2018 | 13 |
| 2019 | 34 |
| Cumulative | 48 |

20 additional RMPs have been established for existing threats since January 1, 2020



Risk Management Services - Summary of Part IV Implementation

Essex Region Source Protection Area (ERSPA)

Table 1a – Existing Threats. The summary table details all actions taken from 2016 - 2019 by the RMO/I for each municipality in the ERSPA.

| | Amherstburg | Essex | Kingsville | LaSalle | Pelee | Tecumseh | Windsor | Lakeshore | Leamington | Total |
|--|-------------|-------|------------|---------|-------|----------|---------|-----------|------------|-------|
| Total Identified threats in the AR | 16 | 31 | 93 | 3 | 3 | 12 | 33 | 29 | 164 | 384 |
| No RMP required | 16 | 28 | 62 | 3 | 1 | 10 | 29 | 26 | 120 | 295 |
| RMPs established | - | 2 | 16 | - | 2 | 2 | 2 | 3 | 22 | 48 |
| ¹ Further investigation required | - | - | - | - | - | - | - | - | 2 | 2 |
| RMPs in progress (from original count of SDWTs ID'd in AR) | - | 1 | 15 | - | - | 1 | 2 | - | 20 | 39 |
| ² Total threats addressed | 16 | 30 | 78 | 3 | 3 | 11 | 31 | 29 | 142 | 343 |
| ³ Total threats remaining | - | 1 | 15 | - | - | 0 | 2 | - | 22 | 41 |
| NEW* additional SDWTs Identified through field verification in 2019 | - | - | 5 | - | - | - | - | - | 1 | 6 |
| RMPs established | - | - | - | - | - | - | - | - | 1 | 1 |
| RMPs in progress | - | - | 5 | - | - | - | - | - | - | 5 |
| ² Total threats addressed | - | - | - | - | - | - | - | - | 1 | 1 |
| Total threats remaining | - | 1 | 20 | - | - | 0 | 2 | - | 22 | 46 |

¹Sites identified as 'resource extraction stations' requiring further investigation (e.g. oil pumping stations, volumes associated with storage tanks, contents etc.)

²Threats that have been addressed include those where either no RMP is required or a RMP has been established

³Remaining threats are those that have a RMP in progress, or require further investigation



Future Threats – S. 59 Policy Update

RMPs are established for new threats immediately and as needed

Essex Region Source Protection Area (ERSPA)

Table 2a – Summary of all actions taken by the RMO/I in 2016 - 2019 as a result of the Section 59 (Restricted Land Use) screening process for the Event Based Area (EBA).

| | 2016 | 2017 | 2018 | 2019 | Total |
|---|------|------|------|------|-------|
| s. 59 Application Site Visits | 4 | 0 | 1 | 1 | 6 |
| s. 59 Applications where s. 57 or s. 58 Did Not Apply | 14 | 2 | 1 | 3 | 20 |
| s. 59 Applications where s. 57 Applied (Prohibition) | 0 | 0 | 0 | 0 | 0 |
| s. 59 Applications where s. 58 Applied (RMP) | 4 | 0 | 1 | 1 | 6 |
| Total No. of s. 59 Applications | 18 | 2 | 2 | 4 | 26 |



Provincial Progress

2018 score: **P – progressing well**

2019 score: **P – progressing well**

- Provincial Ministries:
 - Screen new applications for all Provincial Instruments and have incorporated SWP into their processes
 - Reviewed PIs for all existing threats in 2018
 - No new SDWTs in 2019



Road Signs



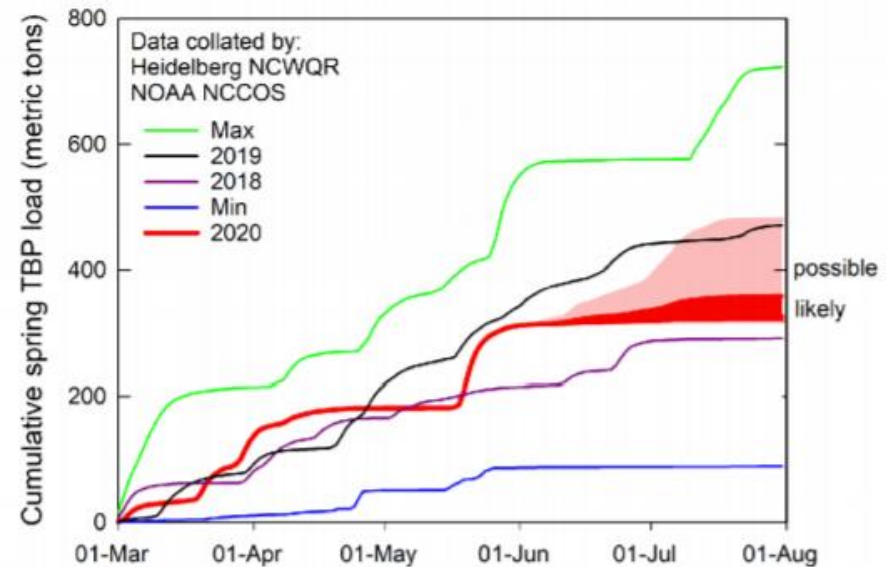
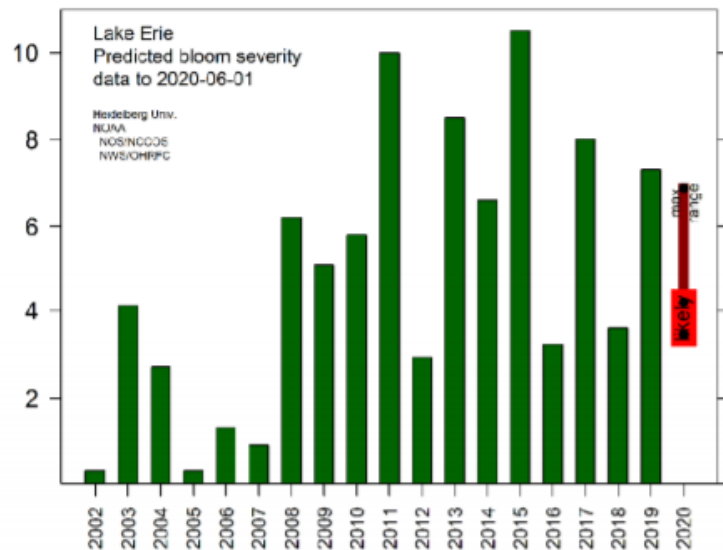
- Municipalities and the MTO were required to install new road signs to address transportation of SDWTs
- All municipalities have installed signs including those on County roads
- MTO installed all approved signs in the region on Hwy 401, Hwy 3, and Hwy 77 in 2017/18

| Time Period | Municipal signs | Provincial Signs |
|-------------|-----------------|------------------|
| 2019 | 3 | 0 |
| Cumulative | 57 | 5 |



Harmful Algal Blooms

- Annual occurrence affect intakes in Lake St.Clair and Lake Erie, particularly on Pelee Island
- Water monitoring through DWSP has been transferred to municipalities
- No toxin ever found in treated drinking water
- International efforts to reduce HABS



Success Stories

BEFORE



AFTER

