INDEPENDENT PERFORMANCE TESTS

CanadianPond.ca Products Ltd. retained GSEE Inc., leading American experts on water aeration, to performance test its proprietary $\frac{1}{2}''$ and $\frac{3}{4}''$ Bubble Tubing™ and OctoAir-10™ aeration devices. The test results are summarized as follows:

\[
\begin{array}{l}
1/2'' \text{ Bubble Tubing™, SCFM vs. SAE} & \quad \text{Page 2} \\
1/2'' \text{ Bubble Tubing™, SCFM vs. SOTR} & \quad \text{Page 3} \\
1/2'' \text{ Bubble Tubing™, SOTR vs. SAE} & \quad \text{Page 4} \\
3/4'' \text{ Bubble Tubing™, SCFM vs. SAE} & \quad \text{Page 5} \\
3/4'' \text{ Bubble Tubing™, SCFM vs. SOTR} & \quad \text{Page 6} \\
3/4'' \text{ Bubble Tubing™, SOTR vs. SAE} & \quad \text{Page 7} \\
\text{OctoAir-10™, SCFM vs. SAE} & \quad \text{Page 8} \\
\text{OctoAir-10™, SCFM vs. SOTR} & \quad \text{Page 9} \\
\text{OctoAir-10™, SOTR vs. SAE} & \quad \text{Page 10}
\end{array}
\]

The following further summarizes key test results:

1. SOTR increases, but less than proportionally so, with:
   a. Increasing airflow, and
   b. Increasing air release depth.
2. SOTE and Aerator Efficiency decrease, but less than proportionally so, with increasing airflow.
3. SOTE increases, but less than proportionally so, with air release depth.
4. Aerator Efficiency is only marginally influenced by air release depth.

GSEE concludes:

“Overall, the results obtained for the CanadianPond.ca Products Ltd. aeration systems were uniformly excellent and produced some of the highest SOTE values GSEE, Inc. has observed.”

\[1\] 0.575”/1.5cm I.D. 
\[2\] 0.825”/2.1cm I.D.
1/2" Bubble Tubing™ – Summary of Independent Test Results

SCFM / 100' of Bubble Tubing™ vs. SAE

SCFM (standard cubic feet per minute)

SAE (standard aerator efficiency) in Lb O² / Hr / HP

- 5' Depth
- 10' Depth
- 15' Depth
- Log. (5' Depth)
- Log. (10' Depth)
- Log. (15' Depth)
1/2” Bubble Tubing™ - Summary of Independent Test Results
SCFM / 100’ of Bubble Tubing™ vs. SOTR

SOTR (standard oxygen transfer rate) in Lb O₂/Hr

Average Air Flow in SCFM (standard cubic feet per minute)

- 5' Depth
- 10' Depth
- 15' Depth
- Linear (5' Depth)
- Linear (10' Depth)
- Linear (15' Depth)
1/2" Bubble Tubing™ -- Independent Test Results
SOTR / 100' of Bubble Tubing™ vs. SAE

SAE (standard aerator efficiency) in Lb O₂/Hr / Hp

SOTR (standard oxygen transfer rate) in Lb O₂ / Hr

- 5' Depth
- 10' Depth
- 15' Depth
- Log. (5' Depth)
- Log. (10' Depth)
- Log. (15' Depth)

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$3/4''$ Bubble Tubing™ -- Summary of Independent Test Results
SCFM / 100' of Bubble Tubing™ vs. SAE
3/4" Bubble Tubing™ -- Independent Test Results
SOTR / 100' of Bubble Tubing™ vs. SAE

SAE (standard aerator efficiency) in Lb O₂ / Hr / Hp vs. SOTR (standard oxygen transfer rate) in Lb O₂ / Hr

Legend:
- □ 5' Depth
- ▲ 10' Depth
- ★ 15' Depth
- Faded Log. (5' Depth)
- Solid Log. (10' Depth)
- Dashed Log. (15' Depth)
OctoAir-10™ -- Summary of Independent Test Results
SCFM / unit vs. SAE

SAE (standard aerator efficiency) in Lb O₂ / Hr / Hp

SCFM (standard cubic feet per minute)

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OctoAir-10™ -- Summary of Independent Test Results
SCFM / unit vs. SOTR

SOTR (standard oxygen transfer rate) in Lb O₂/Hr

Average Air Flow in SCFM (standard cubic feet per minute)

5' Depth	10' Depth	15' Depth	Linear (5' Depth)	Linear (10' Depth)	Linear (15' Depth)