Water Quality Presentation by John Nash Spring Lake Lake Board Chairman Spring Lake Township Supervisor







SPRING LAKE PRIOR TO ALUM TREATMENT

("GREEN PAINT")

WHAT ALGAE EATS...



- NITROGEN
- OXYGEN
- PHOSPHORUS

NITROGEN

AVAILABLE IN THE AIR

OXYGEN

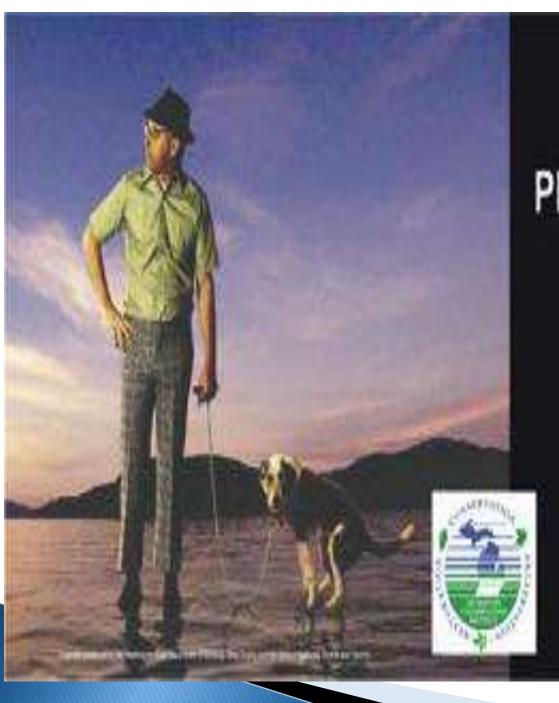
AVAILABLE IN THE WATER AND THE AIR

PHOSPHORUS

THIS IS THE ONE ON WHICH WE CAN HAVE SOME IMPACT

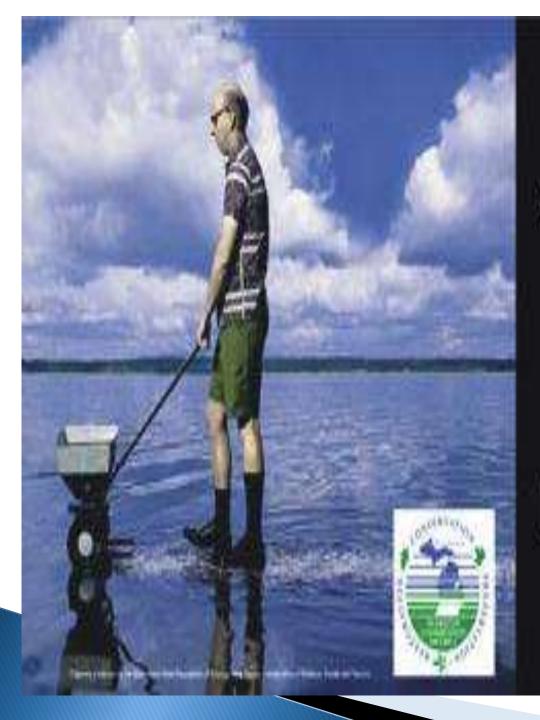
HOW DO WE REDUCE THE AMOUNT OF PHOSPHORUS AVAILABLE?

- **EXECUTE** LAWN FERTILIZER
- **X** FARM FERTILIZER
- **図 RUN OFF**
- **▼ GOOSE P**⊗⊗P
- **EXECUTION MATERIAL**



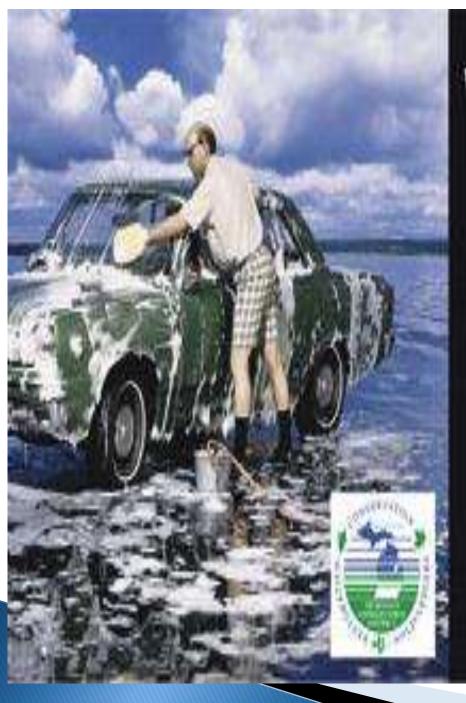
WHEN YOUR PET GOES ON THE LAWN, REMEMBER IT DOESN'T JUST GO ON THE LAWN.

muskegoncd.org



WHEN YOU'RE FERTILIZING THE LAWN, REMEMBER YOU'RE NOT JUST FERTILIZING THE LAWN.

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WHEN YOU'RE WASHING YOUR CAR IN THE DRIVEWAY, REMEMBER

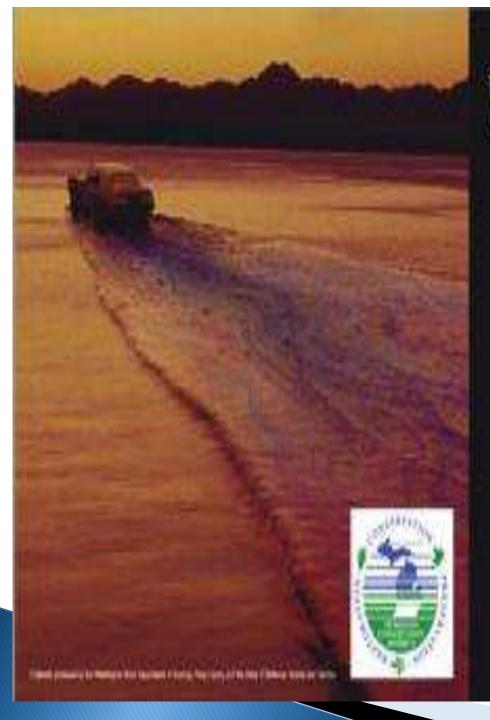
YOU'RE NOT JUST

WASHING YOUR CAR

IN THE DRIVEWAY.

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WHEN YOUR CAR'S LEAKING OIL

ON THE STREET,

REMEMBER

IT'S NOT JUST LEAKING OIL

ON THE STREET.

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WHAT THE SPRING LAKE LAKE BOARD DID TO CONTROL PHOSPHORUS



FIRST:

CHECKED SOURCES

- **INCOMING STREAMS**
- **☑ LAWN FERTILIZER**
- **☑ LAKE SEDIMENT**
- **SOIL SAMPLES**

SECOND: WHAT CAN WE DO?

- * EDUCATE
- * SEAL SEDIMENT
- * WORK TOWARD A
 FERTILIZER ORDINANCE

2004:

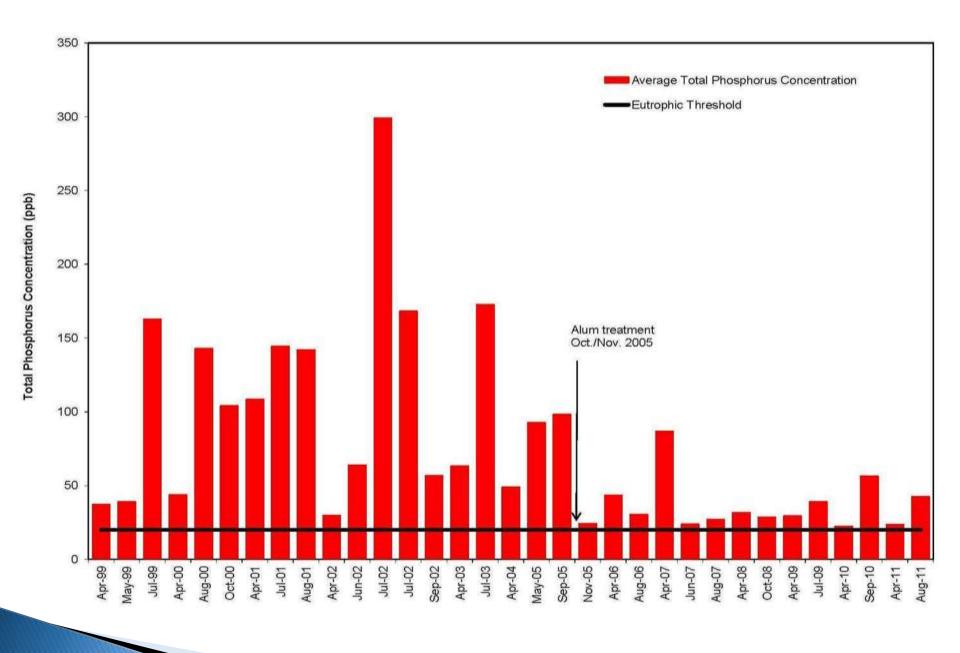
CONTRACTED WITH GVSU WATER INSTITUTE

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VERY EXTENSIVE STUDY TO SEE IF AN ALUM WOULD SEAL OFF THE PHOSPHORUS IN THE SEDIMENT

SPRING 2005: GVSU STUDY RESULTS

- ⇒ ALUM WOULD SEAL THE PHOSPHORUS IN THE LAKE BOTTOM SEDIMENT
- **⇒** COST: \$1 MILLION
- NEED DEQ PERMITS



* EVERY LAKE IS INDIVIDUAL

* OUR RESULTS HAVE BEEN VERY GOOD

* NO GREEN PAINT SINCE ALUM TREATMENT IN 2005

SUGGESTIONS

- DISCOURAGE FEEDING WATER FOWL
- REMOVE DEAD WEEDS
- REMOVE LEAVES
- PLANT TREES 50+ FEET
 BACK FROM WATER'S EDGE

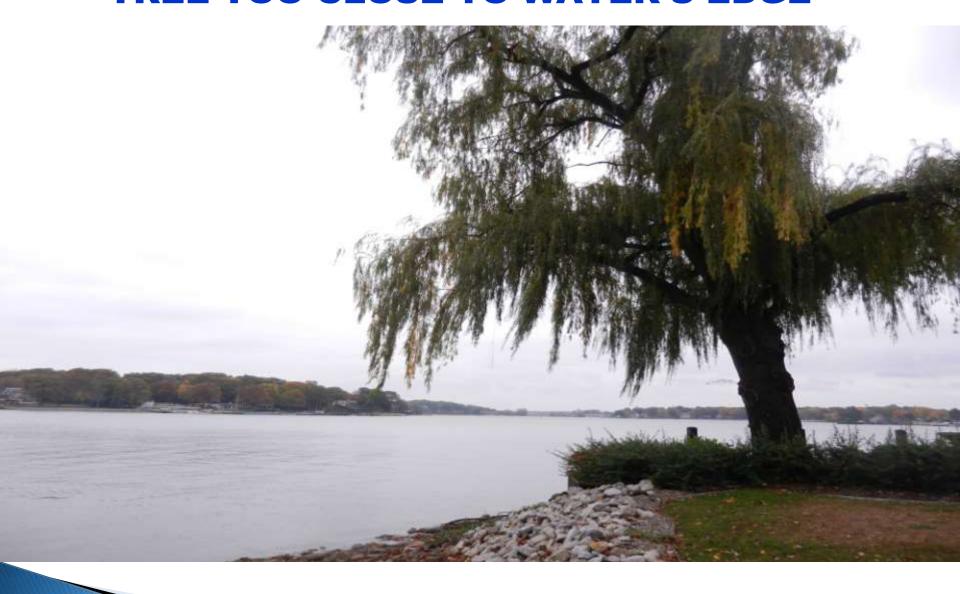
RAKE AND REMOVE SEAWEED AND LEAVES FROM SHORELINE



BEACH – DECOMPOSED PLANT MATTER



TREE TOO CLOSE TO WATER'S EDGE



MORE TREES TOO CLOSE TO WATER'S EDGE



DO NOTHING. RESULTS WILL BE. . . .



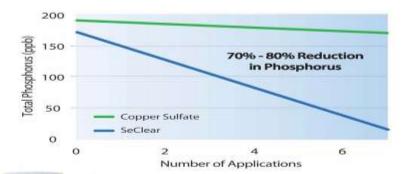
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Algaecide

A Better Technical, Operational and Economical Solution for Algae Management and Water Quality Improvement

SeClear is the first algaecide and water quality enhancer in-one designed to replace routine algaecide programs. SeClear provides effective control of a broad-range of algae species while reducing in-water phosphorus levels with each application. The result is longer lasting control, improved water quality and aesthetics with reduced maintenance through time. Water treated with SeClear may be used for drinking, swimming, fishing, watering livestock and for irrigated crops, turf, fairways, putting greens and ornamental plants immediately following treatment.

- Effective algae control
- Decreases algal growth rates with less potential for harmful biomass levels
- Removes phosphorus from the water column and improves water quality and clarity
- · Fewer applications and/or lower use rates



For more information about SeClear, contact your SePRO Aquatic Specialist or call 1-800-419-7779.



Pre-Treatment



14 days after treatment



30 days after treatment

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QUESTIONS?

COMMENTS...