

NEXT LEVEL OF TREATMENT (NLT)



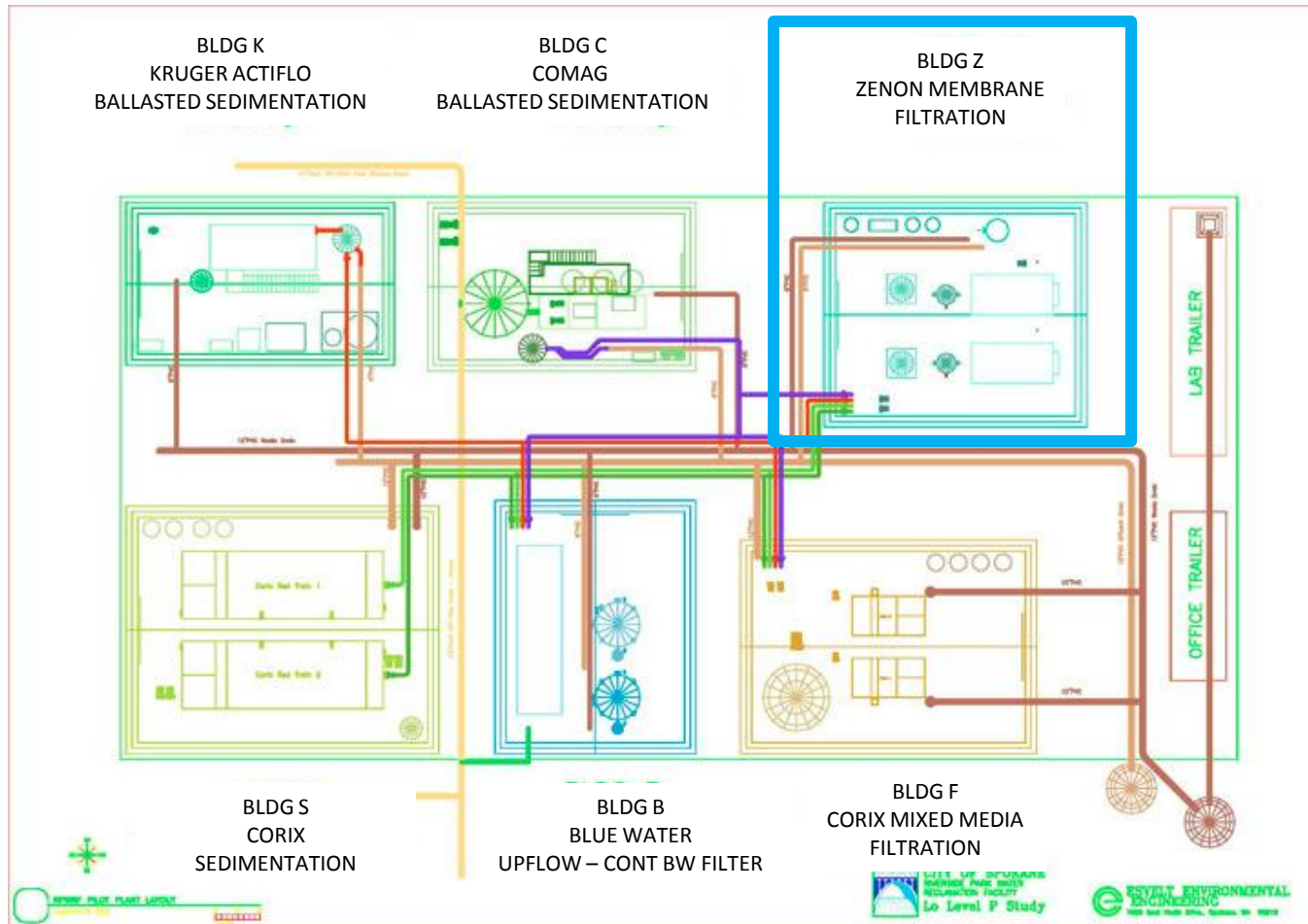
REGULATORY REQUIREMENT TO MEET NEW TOTAL MAXIMUM DAILY LOAD (TMDL) STANDARDS AND A SERIES OF SEASONAL AND ANNUAL POLLUTION REDUCTIONS.

NEW (FIFTH) PRIMARY CLARIFIER



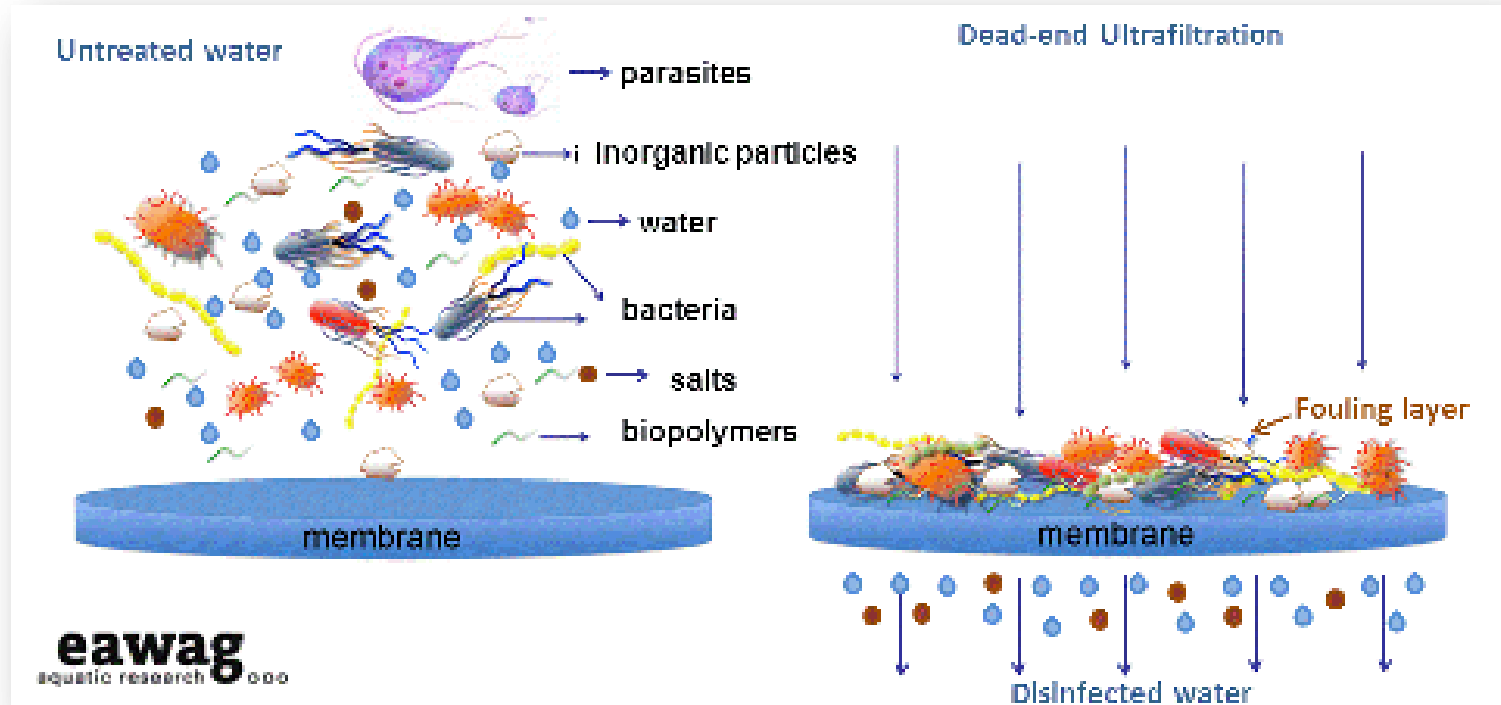
WILL SUBSTANTIALLY IMPROVE FLEXIBILITY TO MOVE AND STORE STORM AND SNOW MELT EVENT FLOWS TO OPTIMIZE PLANT PERFORMANCE.

PILOT STUDY REVIEW



PILOT STUDY LOOKED AT 6 TECHNOLOGIES. MEMBRANES WERE BEST.

MEMBRANE FILTRATION



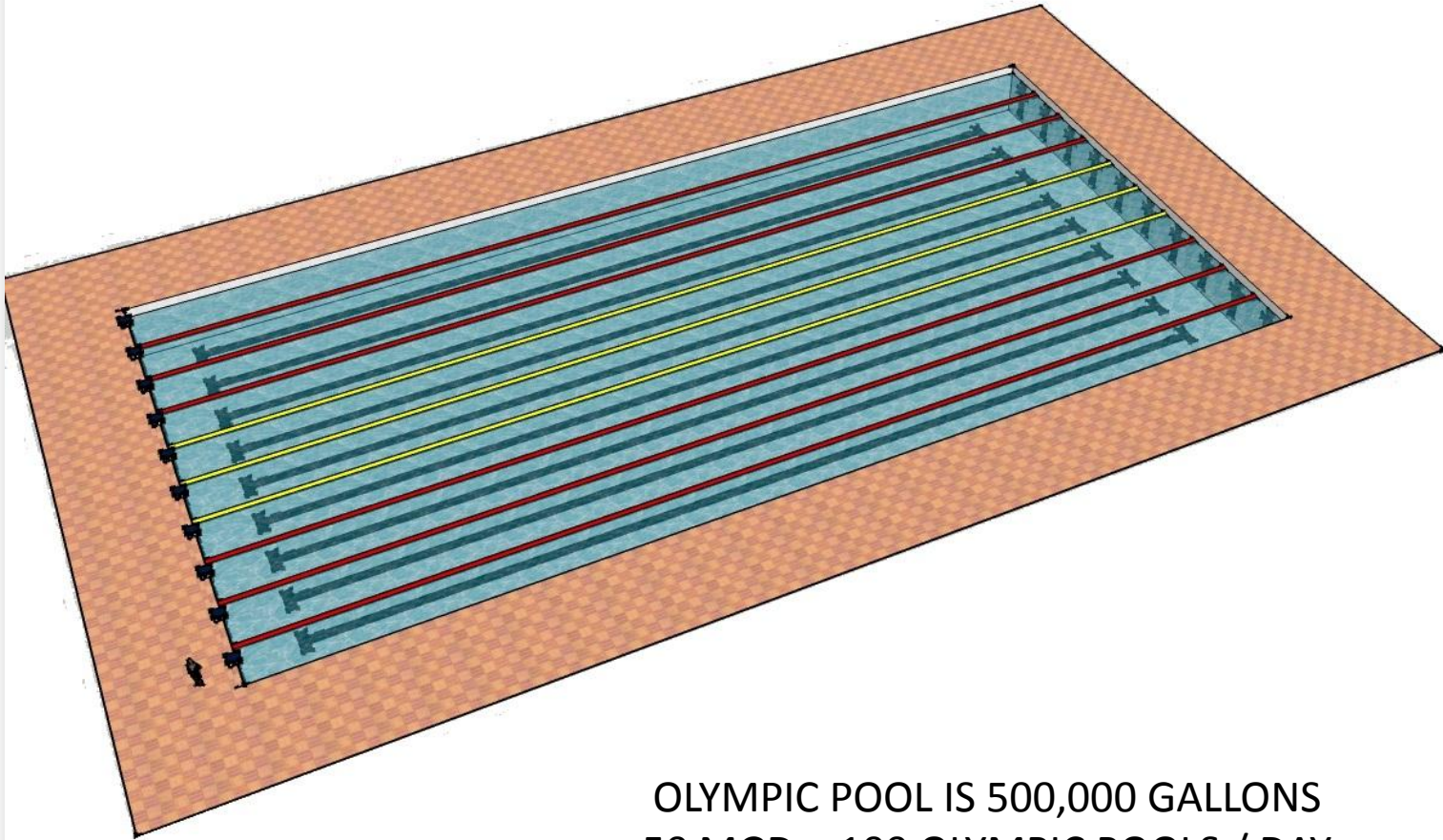
ULTRA FILTRATION CANDIDATES: 0.1 OR 0.043 MICRON PORE SIZE

A MICRON IS 1 MILLIONTH OF A METER

A THIN HUMAN HAIR IS ABOUT 20 MICRONS

HOW MUCH DO WE NEED?

50 MILLION GALLONS / DAY FILTER CAPACITY



OLYMPIC POOL IS 500,000 GALLONS
50 MGD = 100 OLYMPIC POOLS / DAY

TWO COMPETING PROTOCOLS IMMERSED VERSUS PRESSURE SYSTEMS

IMMERSED SYSTEMS



LIKE PENDLETON WATER SYSTEM

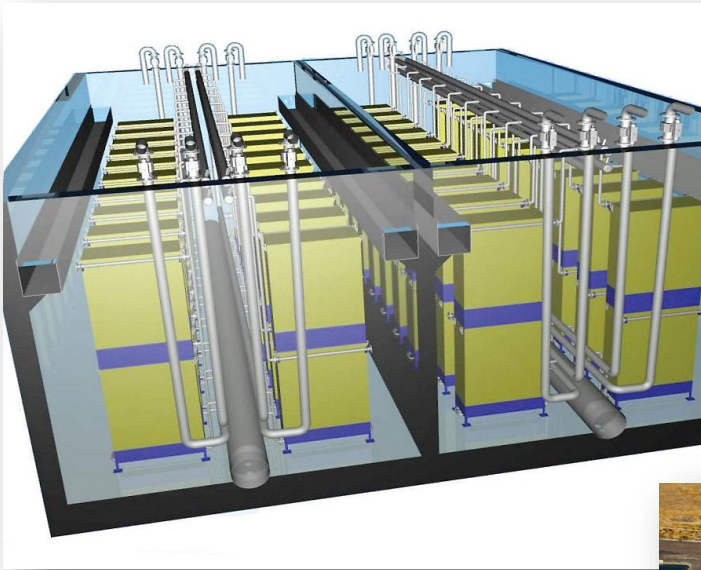
PRESSURE SYSTEMS



LIKE SANDPOINT WATER SYSTEM

IMMERSED SYSTEM

**LARGE, SERPENTINE, CONCRETE
TANK ARRAY**



**BUILDING TO HOUSE IT AGAINST
FREEZING IN WINTER**



**PENDLETON
WATER
TREATMENT
PLANT**

PRESSURE SYSTEM

**LARGE BUILDING WITH RACKS OF
CANNISTERS ALL MANIFOLDED**

**PLUG AND PLAY RACKS OF
CANISTERS OF FILTERS**



**UP TO 6,300 FILTER TUBES
PER 5 IN. CANISTER**

39 CANISTERS PER RACK



**SANDPOINT
WATER
TREATMENT
PLANT**

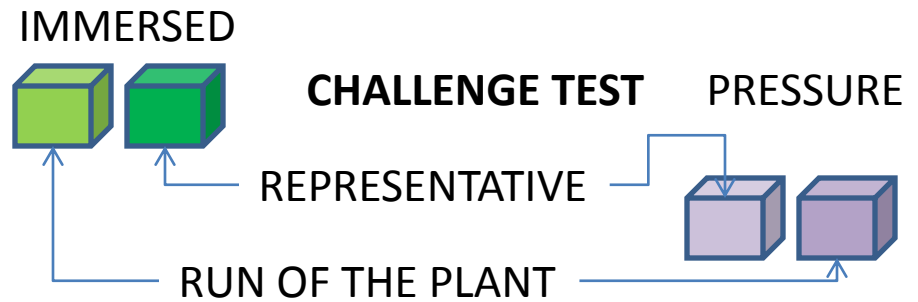
WHAT'S NEXT?

CHALLENGE TEST

ISSUE RFQ

- ESTABLISHED MEMBRANE PRODUCER
- LARGE ENOUGH TO MEET PRODUCTION
- FINANCIALLY SOUND
- PRODUCT PROVEN IN THE FIELD AT LEAST 10 YEARS
- STAFFED FOR GREAT CUSTOMER SERVICE
- PROVIDES THE BEST LIFE CYCLE COST - BENEFIT

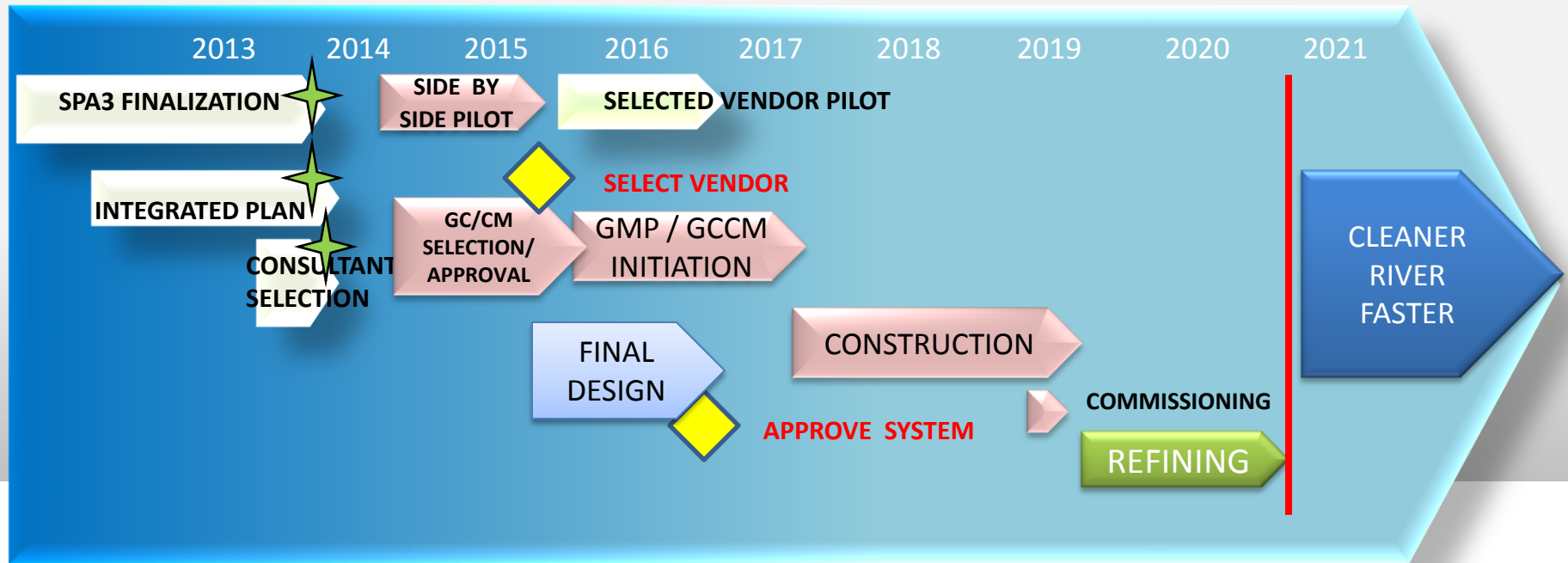
NEW SIDE BY SIDE PILOT REPRESENTATIVE AND RUN OF THE PLANT



**ESTIMATED COST OF NLT = \$100 MILLION
IMPORTANT TO GET IT RIGHT**

TIMELINE PROJECT PLANNING

10 Years



QUESTIONS / COMMENTS?

