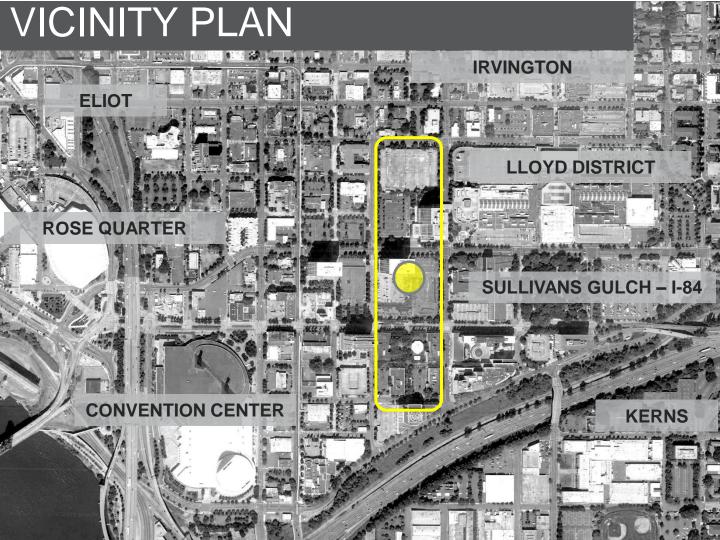
PORTLAND, OREGON

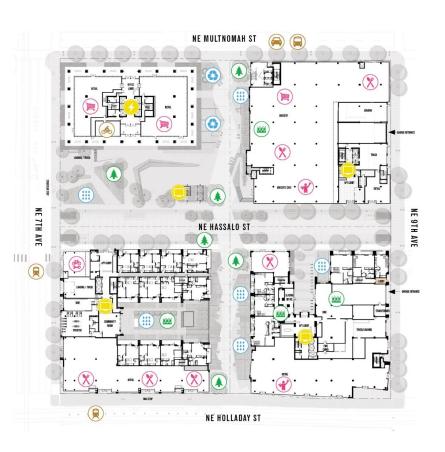








LLOYD ECODISTRICT STRATEGIES





Conserve / Manage Dashboard / Web Office Building Plant Connected to Retail High Performance Envelope



Outdoor Space Eco-Roof/Gardens



Rainwater Reservoir Stormwater Treatment 100% Black/Grey Water Treatment and Re-use; Irrigation, Flush, Cooling Tower – Infiltrate (DEO)

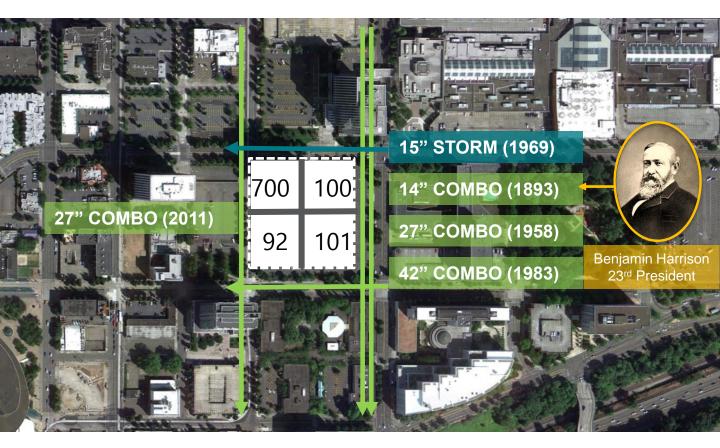


Essential Services
Multi-Generational Living
Mix of Housing Types
Eat/Drink/Sleep/Work/
Study/
Play/Flirt



Bike Hub / Valet at L700 Streetcar Max Line Zip Car Charging Station 20 Minute Living

EXISTING STORM / SANITARY SYSTEM



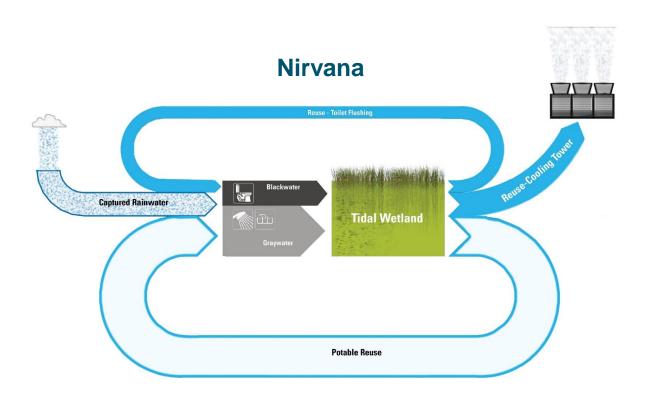


© Mithun

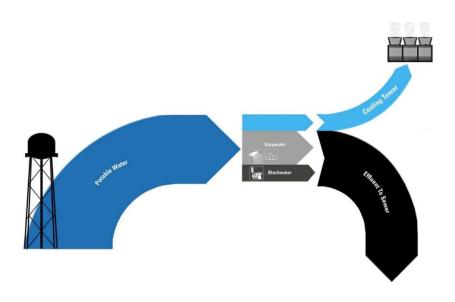




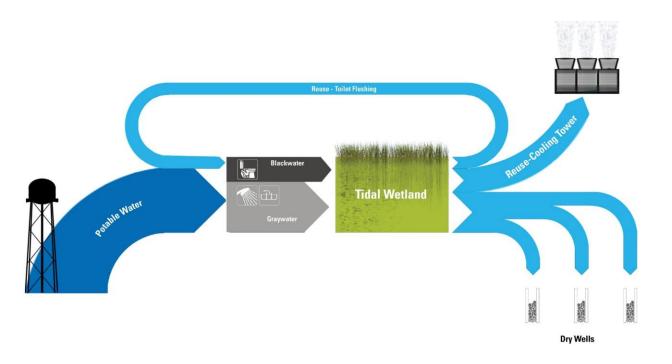
NET ZERO WATER USE



TYPICAL WATER USE



PROVEN WATER USE



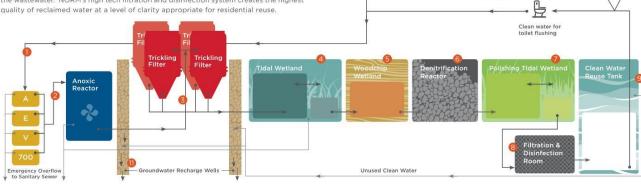




SO HOW DOES THIS WORK?

NORM DIAGRAM IN MOTION

Every used drop of water from sinks, toilets, showers and laundry (black and grey wastewater) is collected and stored by NORM. NORM then uses innovative treatment technologies to reduce nutrient loads and natural constructed wetlands to further process the wastewater. NORM's high tech filtration and disinfection system creates the highest quality of reclaimed water at a level of clarity appropriate for residential reuse.



- Primary Tanks collect and store wastewater from each building.
- The Anoxic Reactor helps to reduce nutrient loads from the wastewater.
- Trickling Filters further reduce nutrient loads and eliminate odor.
- 4, 5, 6 and 7. Natural Treatment Wetlands work using a tidal-flow (fill and drain) process to foster naturally occurring microbial organisms used to treat wastewater.
- 8. Mechanical filters screen out fine particles. Ultraviolet (UV) and ozone technology is used to kill pathogens and improve water clarity.

Black and grey wastewater traveling from units begin the

cycle here

- and 10. Clean water is stored and distributed for reuse.
- 11. Any unused treated water is infiltrated into the ground via groundwater recharge wells.

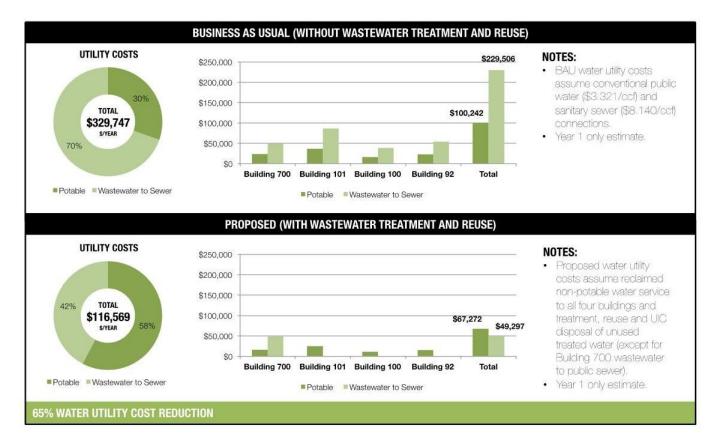
To cooling

tower

Irrigation

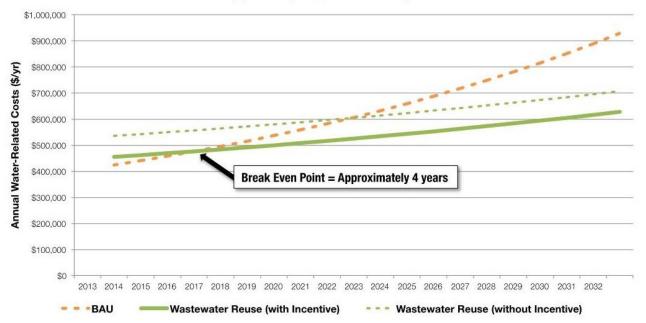
on site

WATER & WASTEWATER COSTS



Integrated Water Management Cost of Service Comparison

(System Capacity = 45,210 GPD)



NOTES:

COST OF SERVICE – Includes both CAPEX and OPEX.



WATER STREET



NORM



WATER STREET (RAINWATER HARVESTING)



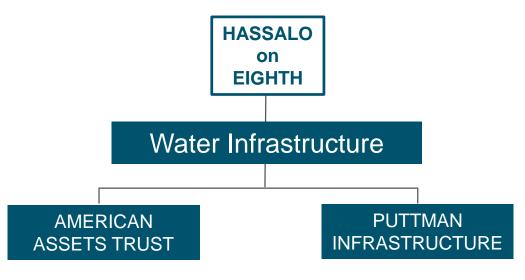
WATER STREET







MANAGEMENT TEAM



MANAGEMENT

Wade Lange Emily Mandic Stephanie Shaffer Dana Gross

OPERATIONS

Mike Shadley Chet Bowlsby Dean Hackney Jarrett Schranz

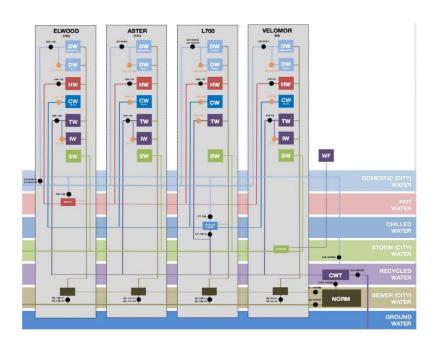
MANAGEMENT

Tom Puttman
Joe Payne

OPERATIONS

Ken Johannes Jarod Re Dustin Thorson

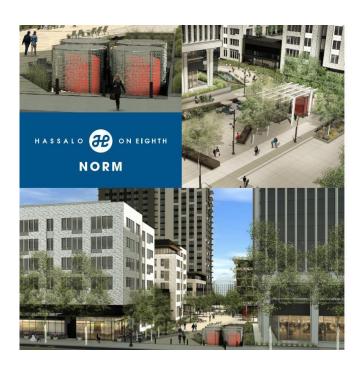
NEW "UTILITY"



The Utility Management System provides:

- 24/7 monitoring of 7 major systems, including 36 separate meters
- Regulatory compliance reporting
- Monthly revenue and expense management, including cost allocations per building
- Tenant rate setting and billing
- Dashboard infographics

COMMUNITY EDUCATION



WE HAVEN'T REALLY RE-INVENTED THE WHEEL, IT JUST SEEMS LIKE IT

MEET NORM - NATURAL ORGANIC RECYCLING MACHINE

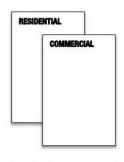
CONSERVATION NORM helps to reduce water use by over 50%—that's 7,000,000 gallons annually—by treating 100% of the wastewater generated from Hassalo on 8th to create clean reclaimed water used to flush toilets, irrigate landscaping and to supply cooling water for interior climate control. Biosolids generated from NORM are reused offsite to make fertilizer and generate energy.

SAFETY, QUALITY AND RELIABILITY Designed with state-of-the-art technology and controls, NORM meets the highest standards for wastewater treatment and reuse and is monitored 24/7 by certified wastewater operators to ensure optimal system performance, water quality and tenant safety.

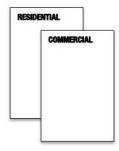
VALUE NORM reduces water and wastewater utility costs which translate into lower cost of living and smaller environmental footprint for building tenants. NORM also reduces strain on an over-capacity city sewer system.

NORM IS THE FUTURE NOW As the largest, natural urban wastewater reuse system in North America, we're proud to provide this benchmark for sustainable living both locally and globally.

COMMUNITY EDUCATION



TENANT EDUCATION MANUAL



TENANT LEASE AGREEMENTS







SIGNAGE DASHBOARD TOURS



Contact us:

- Wastewater Operations | Puttman Infrastructure
- Tom Puttman, PE, AICP Presdient & CEO
- thomas.puttman@puttman.com

- Architect | GBD Architects
- Kyle Andersen, AIA, LEED AP Principal
- kyle@gbdarchitects.com