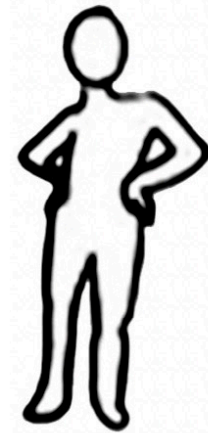


URINE

Contains
80% of the
nitrogen in the
waste stream but
is only 1% of the
volume of the
waste stream

One person's yearly volume of urine

URINE
120 gallons



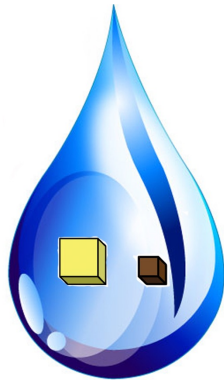
8 lbs nitrogen
0.75 lbs phosphorus

PeeCycling Matters

reduce pollution



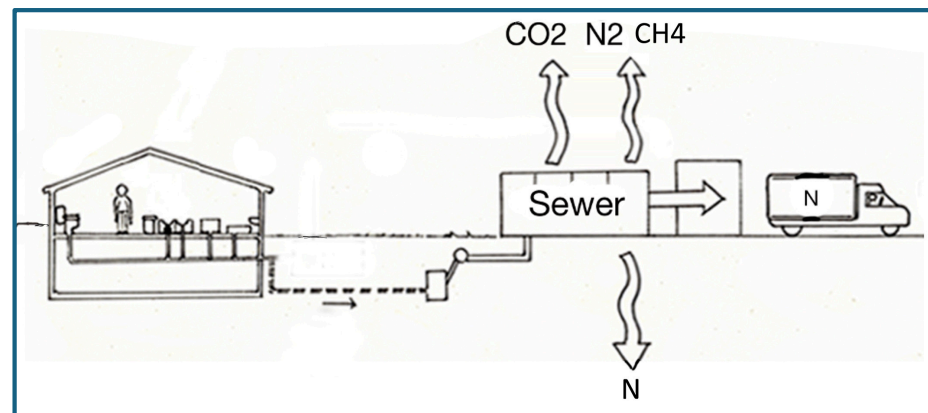
conserve
water



Produce
fertilizer



reduce greenhouse
gas emissions



Urine Diversion

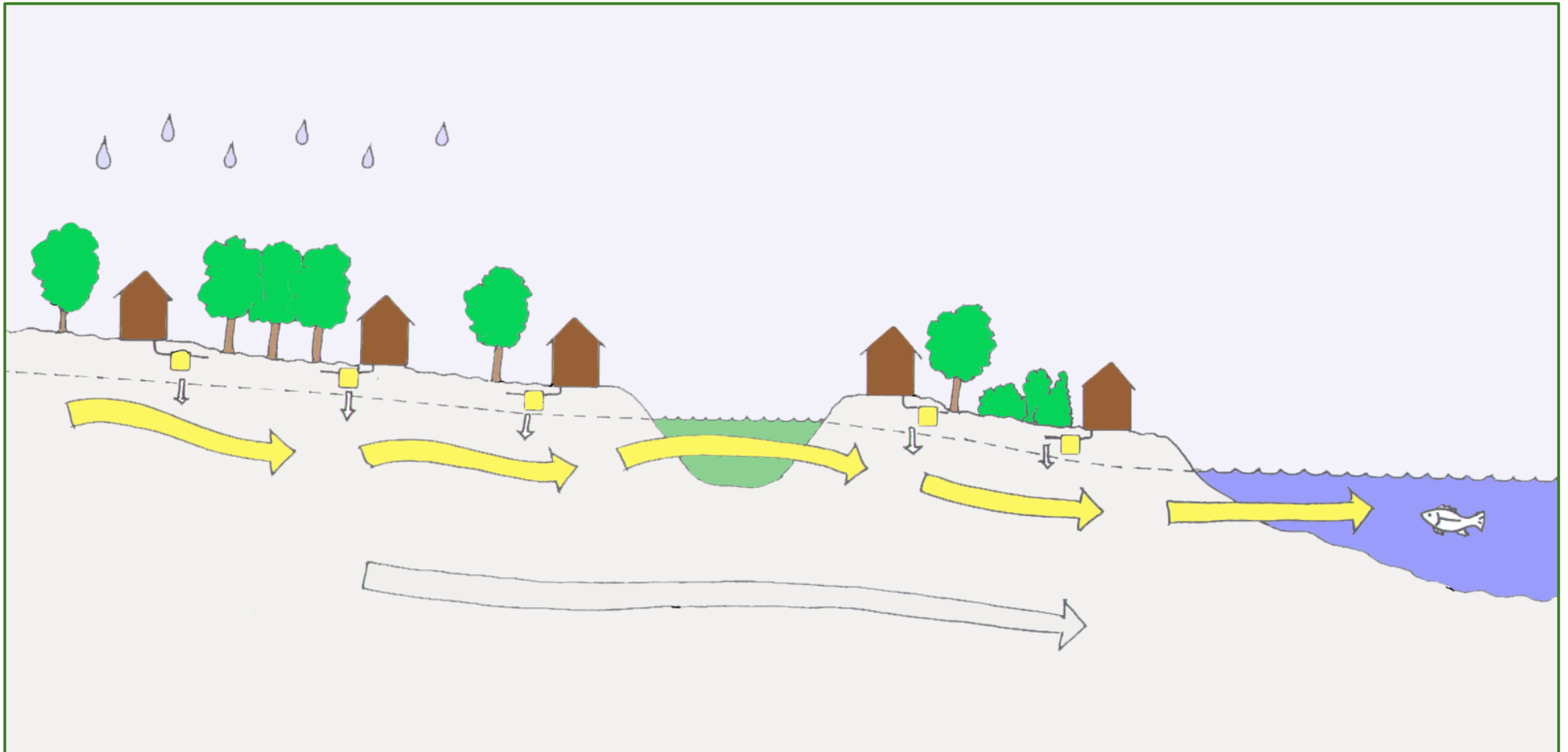
is keeping urine out of the waste stream

PeeCycling

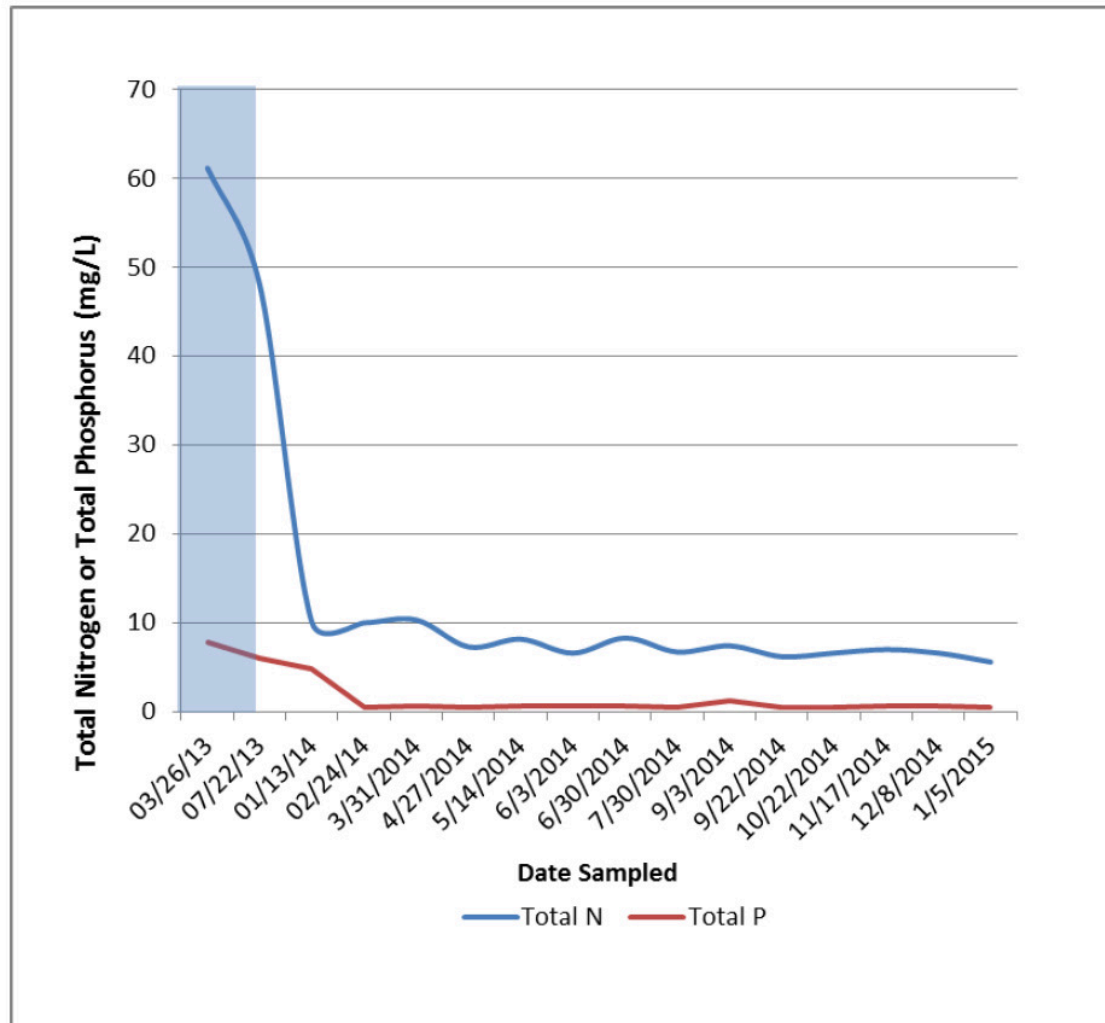
collects, treats and reclaims urine for
agricultural fertilizer

Urine Diversion

is keeping urine out of the waste stream
of a watershed



Urine Diversion

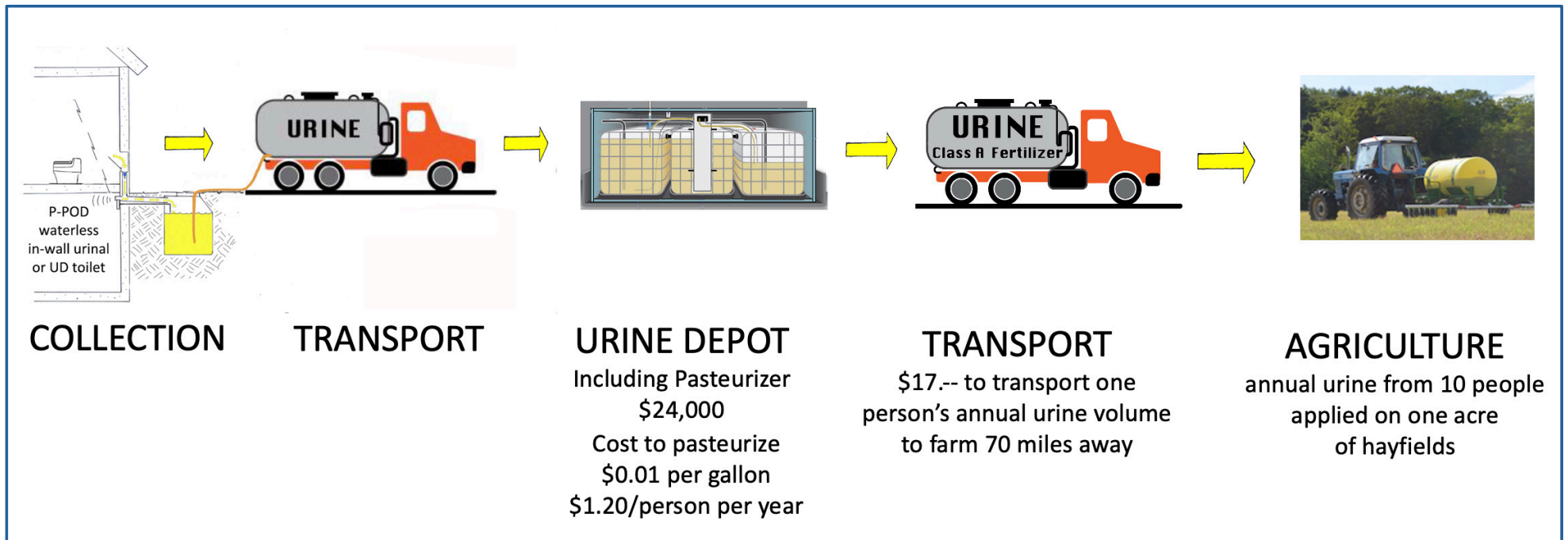


Composting toilets reduce nitrogen by 90% & phosphorus by 99%

Urine Diversion can reduce nitrogen by 80% & phosphorus by 55%

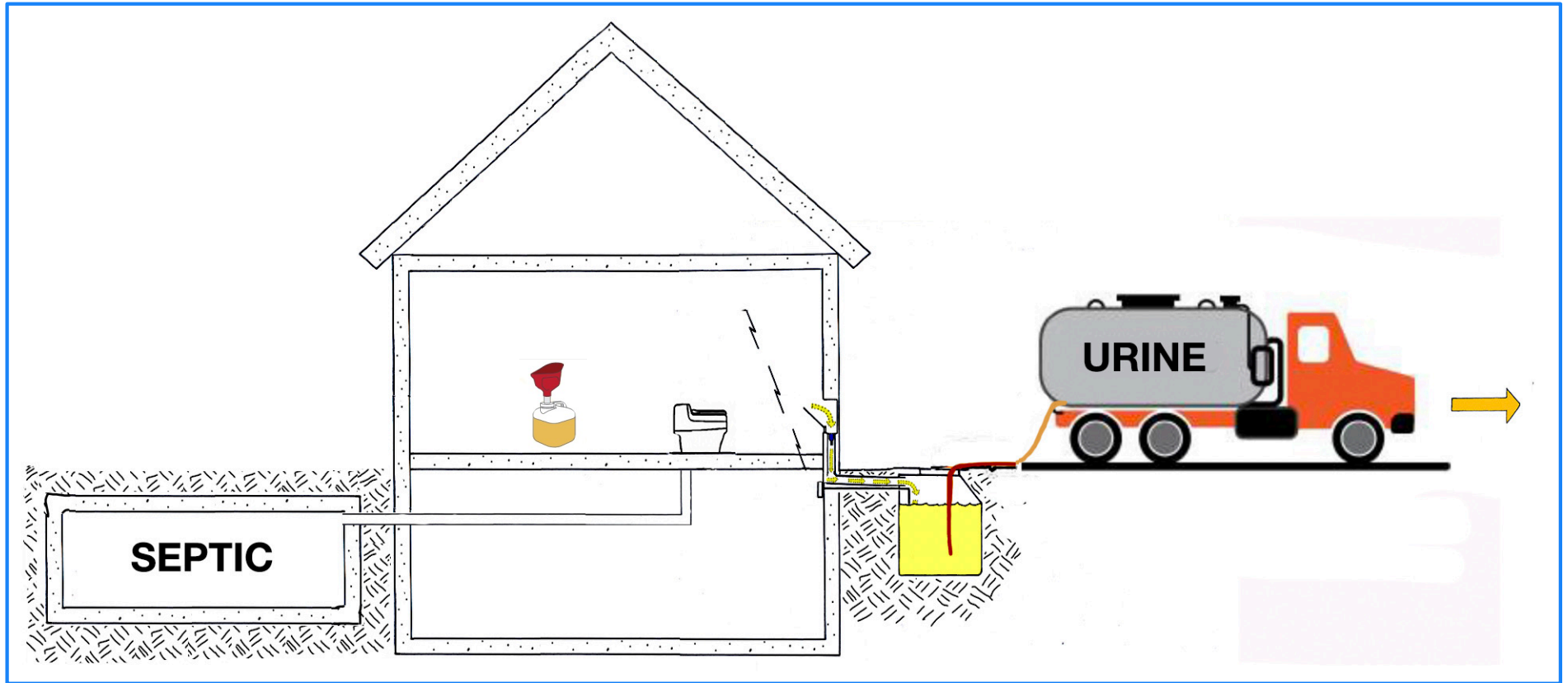
PeeCycling

infrastructure collects, treats and reclaims urine for agricultural fertilizer



low cost

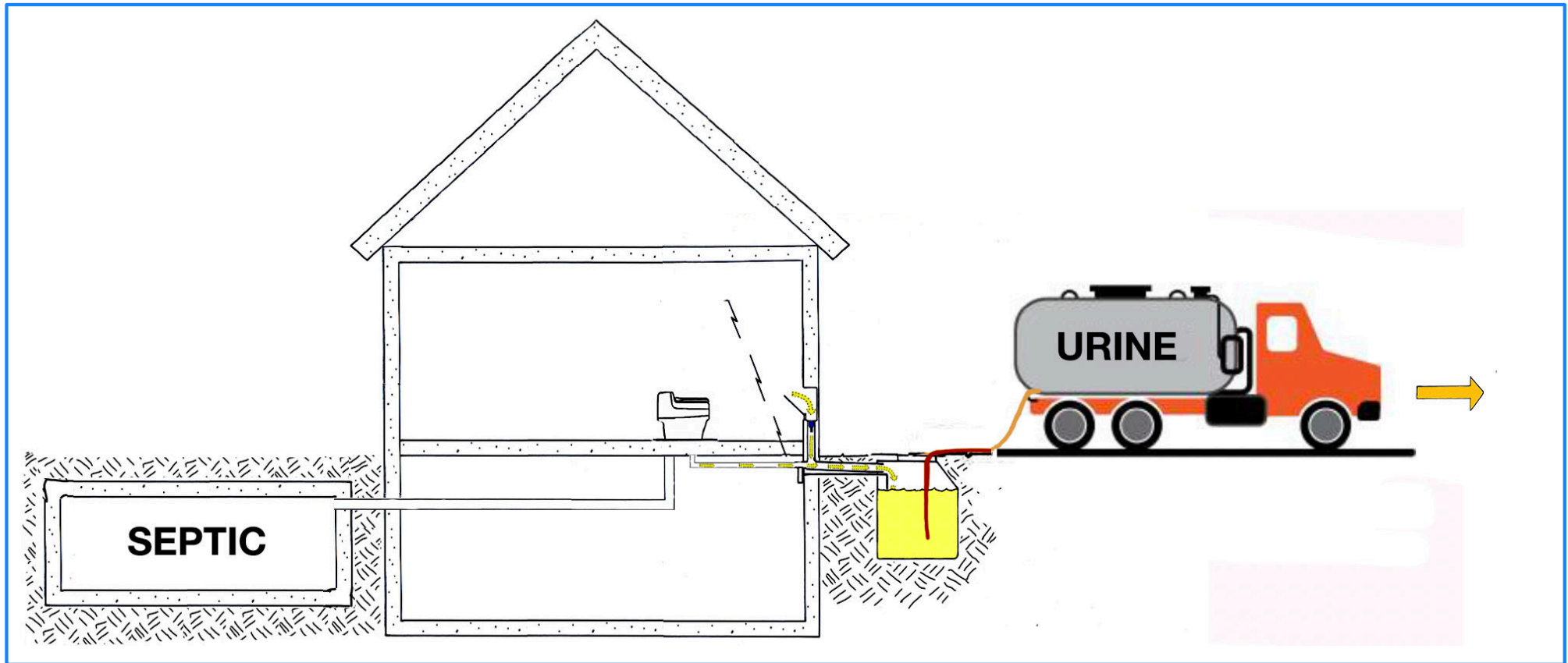
PeeCycling



Add P-POD waterless in-wall urinal in house.
And optional add Cubies for diverting male
and female urine



PeeCycling



Add P-POD waterless in-wall urinal and urine diverting flush toilet (or other UD fixtures) in house.

Divert all urine – up to 80% nitrogen & 55% phosphorus



Cubie

uni-sex portable urinal

”.. an affordable analog of a permanent installed UD toilet system ...”



Results:
average 80% of urine diverted

GREEN CENTER TWO-MONTH URINE DIVERSION PROJECT FINAL REPORT



4 Kittridge Road, Buzzards Bay, Massachusetts 02542

Green Center Two-Month Urine Diversion Project Final Report

March 13, 2024



Waterless unisex “Cubie” urinals and “Pee-Toilets”



The Green Center, Inc.
thegreencenterinc@gmail.com
<https://newalchemists.net>



55-gallon drums for urine storage



Bryan Horsley
Author of Final Report
MASSTC Environmental Project Assistant

Falmouth Provisional UD Pilot Project

Project Plan -- \$80,000 to MASSTC to research details and costs

Project Funding -- Falmouth to include funding in 2024 June-Nov budget cycle

Falmouth Town Meetings

April 2023 Green Center proposed original project:

– male urinals only, 90 homes, 2 years, \$1 million **to test urine diversion**

April 2024 Falmouth changed goal **to get DEP I/A approval:**

– 3-4 years, 50 homes, \$1.7 million

MASSTC is now revising plan and budget

? Appeal to the Cape delegation for county or state funding

This is not a Green Center (non-profit) project.

It is a Falmouth /DEP Provisional pilot project .

MASSTC will be contracted to conduct the project.

County or State Funding has to go to Falmouth or MASSTC.