

Near-zero nitrate target. Whole-home treated water.

Silver Standard nitrate resin pretreatment + NIKOS Cabinet RO with added internal TDS pre-filter.



\$7,500

per household IPW
treatment package

\$15,000

first two homes - treatment
equipment

3 years

2 manufacturer + 1
additional IPW year

1-2 weeks

planned readiness for first
two packages

Across the first two homes: 2 NIKOS Cabinet RO systems + 2 Silver Standard nitrate resin units + 2 salt/brine tanks

How the whole-home package works

- 1 **Silver Standard** Nitrate-selective resin reduces nitrate load first.
- 2 **NIKOS Cabinet** Added TDS pre-filter inside first stage; existing NIKOS stages remain intact.
- 3 **450-gallon tank** Stores treated water for normal household demand.
- 4 **Pressure pump** Delivers treated water from the tank to the home.

Roles at a glance

IPW provides

- 2 treatment packages
- Years 1-2 NIKOS packs
- 3-year warranty
- Onsite first installs

Consortium / installer

- Prefab / tank / pump
- Local installation
- Reject / brine tanks

IPW will be onsite with the Consortium-selected plumbers for the first installations to assist, commission, and train for future local installs.

Near-zero nitrate is the project target; treated-water nitrate should be verified after commissioning.

Maintenance & replacement rhythm

Monthly	Salt level check / top-off
Every 6 months	Main NIKOS media / cassettes
Yearly	Added TDS pre-filter + RO service
Every 2 years	Full nitrate resin replacement
Years 1-2	NIKOS replacement packs included
Year 3+	\$1,200/year NIKOS replacement package

Interim drinking-water bridge



94.4%
reported nitrate
reduction

\$219.99
per home

~1 year
family of 5 estimate

NO PLUMBING • NO ELECTRICITY

Reject-water containment & beneficial-reuse planning

Jared mentioned researching alternatives to sending reject water directly to drain. The deck research gives the Consortium a starting point - not a prescribed reuse design.



ABOVE GROUND

Simpler for pilot monitoring, sampling, pump-out and modifications.



UNDERGROUND

Lower visibility and added protection, with more excavation and access planning.

Research takeaways

- Keep NIKOS RO concentrate and Silver Standard regeneration brine as separate waste streams.
- Evaluate RO concentrate for agricultural / beneficial reuse only after testing and applicable local review.
- If homes are clustered, a communal RO-concentrate collection tank may be worth evaluating.

Exterior reject/reuse tanks are Consortium / installer-supplied site components; IPW supplies the treatment units and setup guidance.