



## Installation and Retrieval Instructions

The following document outlines the procedures for installing, retrieving, and returning the REGENESIS® FluxTracer® device.

### Equipment Checklist

REGENESIS will construct and ship a fully contained, ready to install FluxTracer. There is minimal preparation required to install and retrieve the FluxTracer.

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#### Materials provided by REGENESIS

- FluxTracer device (fully assembled)
- Blue ice
- Pair of wire cutters for unpacking
- 10' x 10' tarp
- Chain of custody form
- FluxTracer return kit (used to package the device for return to REGENESIS)

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#### Return kit contents:

- Zip ties to secure FluxTracer canisters inside return sleeves
- Plastic cover sleeves (one per canister plus extra)
- Large plastic bag

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#### Tools that are not provided but are required for installation and retrieval:

- Water level indicator
- Tools to access monitoring well (e.g. socket set/open end wrenches)
- PPE

# Installation Instructions

All installation materials that are listed in the REGENESIS-provided equipment section above will be included inside the cooler where the device is shipped in.

**Each FluxTracer device arrives fully assembled. Installation will require:**

- Confirming the well depth
- Device unpacking
- Canister insertion
- Retaining S-clip attachment

Below is a detailed description of the installation process:

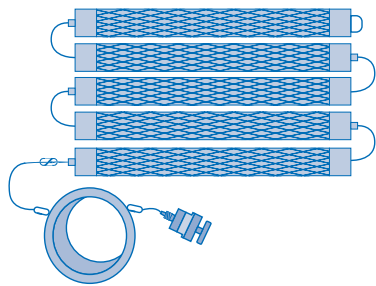
**1**



Measure and record the depth to groundwater and the total depth of the monitoring well on the Chain of Custody form.

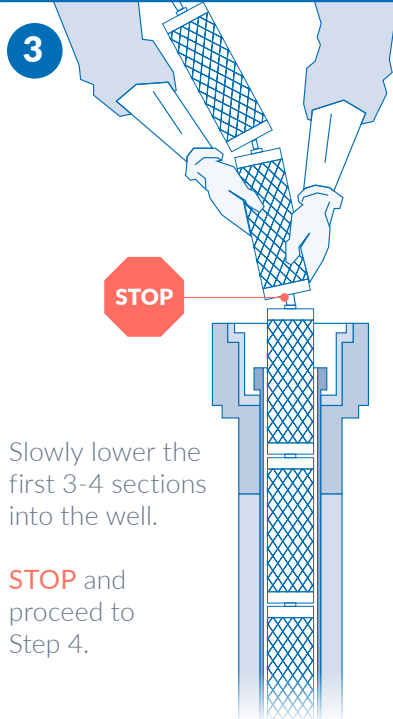
If the measurements do not match with what was provided to REGENESIS, pause the installation and contact REGENESIS for guidance.

**2**



Lay the FluxTracer on the tarp and remove the device from the plastic bag and individual sleeves. Use wire cutters to remove zip ties. Inspect device for damage and confirm that all carabineers are locked.

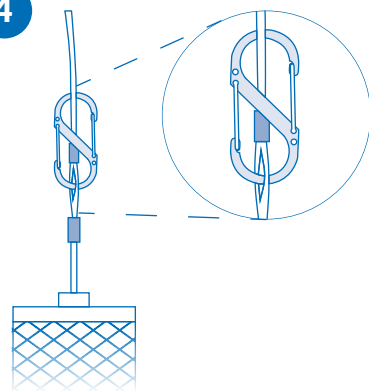
**3**



Slowly lower the first 3-4 sections into the well.

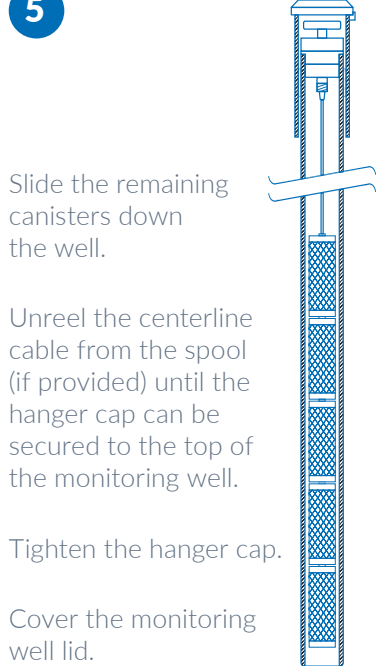
**STOP** and proceed to Step 4.

**4**



Clip one side of the retaining S-clip (already located on the center wire) in the gap between the two wires located just above the top canister. This clip guarantees the canisters remain together and in the correct position in the well.

**5**



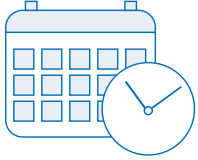
Slide the remaining canisters down the well.

Unreel the centerline cable from the spool (if provided) until the hanger cap can be secured to the top of the monitoring well.

Tighten the hanger cap.

Cover the monitoring well lid.

**6**



Record the installation date and time on the chain-of-custody form.

**7**



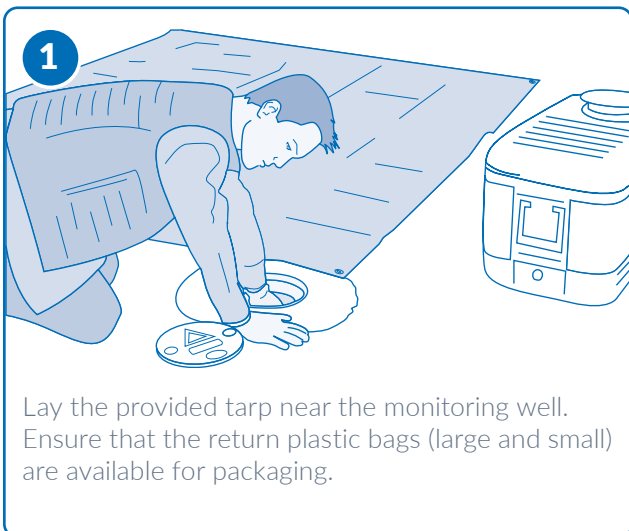
Store Blue Ice in a freezer until retrieval.

## Retrieval Instructions

After the FluxTracer canisters have been installed inside of the monitoring well for the recommended deployment period, the units are ready to be retrieved and shipped back to REGENESIS.

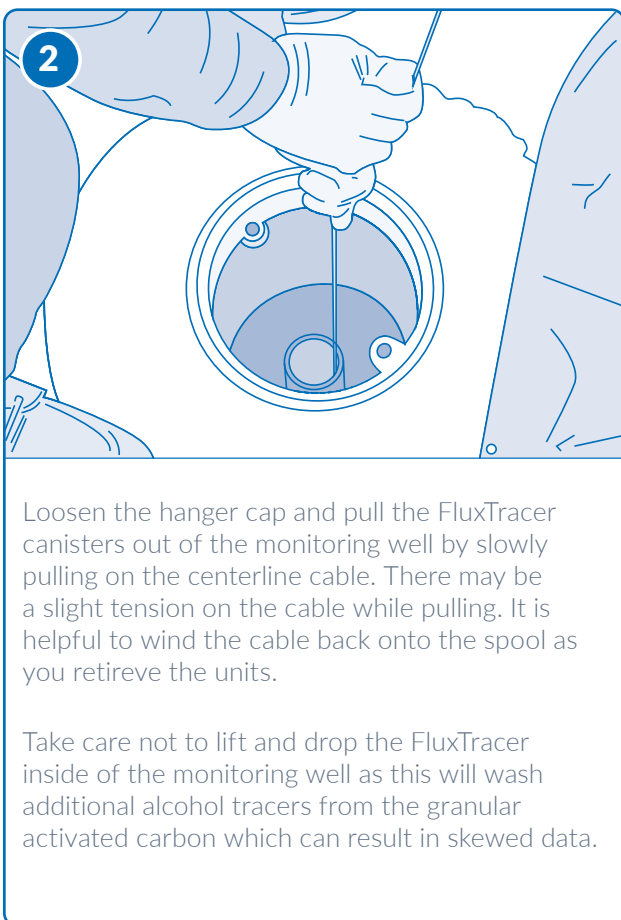
**The FluxTracer canisters should be shipped via overnight shipping and with cold blue ice to preserve the alcohol tracers and contaminants for measurement. DO NOT PACK COOLER WITH WET ICE! Doing so may adversely affect the final data.**

**1**



Lay the provided tarp near the monitoring well. Ensure that the return plastic bags (large and small) are available for packaging.

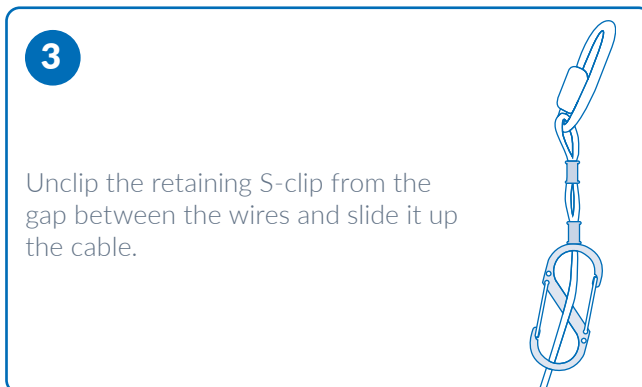
**2**



Loosen the hanger cap and pull the FluxTracer canisters out of the monitoring well by slowly pulling on the centerline cable. There may be a slight tension on the cable while pulling. It is helpful to wind the cable back onto the spool as you retrieve the units.

Take care not to lift and drop the FluxTracer inside of the monitoring well as this will wash additional alcohol tracers from the granular activated carbon which can result in skewed data.

**3**



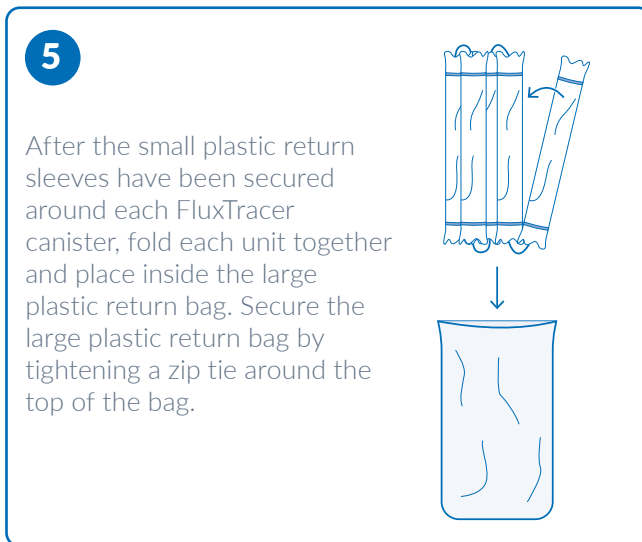
Unclip the retaining S-clip from the gap between the wires and slide it up the cable.

**4**



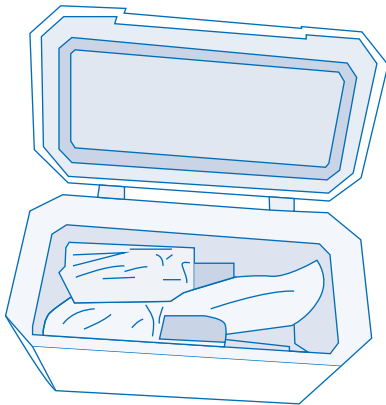
Lay the retrieved FluxTracer canisters on the tarp. Carefully slide the small plastic return bags over each FluxTracer canister. Secure a zip tie over the top and bottom of each canister as well as a zip tie over the plastic bag that extends onto the centerline cable. It is normal to have some water inside the return bags.

**5**



After the small plastic return sleeves have been secured around each FluxTracer canister, fold each unit together and place inside the large plastic return bag. Secure the large plastic return bag by tightening a zip tie around the top of the bag.

6



### Pack the cooler:

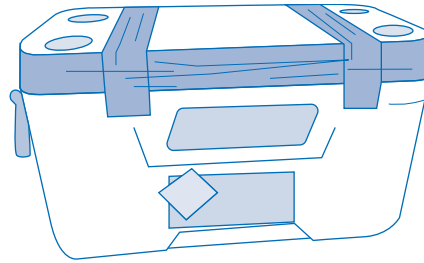
Place the plastic bag wrapped FluxTracer canisters inside the cooler and cover with blue ice.

Place the provided equipment inside the cooler, please crosscheck with equipment checklist.

Record the retrieval date and time as well as any issues that you may have observed (high ambient air temperatures, rain while installing, etc.) on the provided chain-of-custody. Take a picture of the COC and then place it inside the plastic document bag within the cooler.

Secure the cooler and close with duct tape.

7



### Ship cooler to REGENESIS

Using the provided return label, ship the cooler overnight to REGENESIS. Please provide your REGENESIS lab contact with the shipping tracking number.

After retrieval, the device must be immediately shipped overnight back to REGENESIS **Monday-Thursday**.

Weekend receiving is **not** available.

### Shipping address:

REGENESIS FluxTracer  
1011 Calle Sombra  
San Clemente, CA 92673  
949-366-8000



## Important Technical Notes

- The FluxTracer is designed to be installed inside of a 2-inch diameter schedule 40 monitoring well.
- Take care not to drop or bend the FluxTracer canisters as this may affect the installation into a monitoring well.
- REGENESIS constructs each FluxTracer unit specific to the monitoring well targeted for installation. Therefore, it is critical to accurately measure the depth to water and total depth of the monitoring well and provide the recorded measurements to REGENESIS for FluxTracer construction. The FluxTracer should not be installed into sediment in a well as this will skew the data and can result in the FluxTracer becoming stuck in the monitoring well.

## Storage and Handling Guidelines

- The FluxTracer should be installed within three days of receipt.
- Store the FluxTracer in the original shipping cooler until installation. The cooler should be stored in a cool, dark area until installation.
- Do not remove the FluxTracer from the packaging until the time of installation.

## Health and Safety

REGENESIS recommends that a two-person crew be used to install and retrieve the FluxTracer. Recommended PPE for installation and retrieval include (but are not limited to): work gloves, safety glasses, and high visibility vests.

Consult your health and safety officer for site-specific requirements.