



**FIELD ENVIRONMENTAL INSTRUMENTS, INC.**

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## Spill Buddy Portable NAPL Recovery Pump

### **INTRODUCTION:**

The Spill Buddy™ is a compact, manually operated, floating petroleum product (LNAPL) pump, which uses sensors based on proven Spill Buster™ technology. The Spill Buddy can also be used to remove heavier-than-water (DNAPL) contaminants. The Spill Buddy is used to determine the product / water interface and to pump small quantities of LNAPL, water or DNAPL.

The Spill Buddy Pro is a combination of a manually operated product pump and an interface probe. This system is used to measure the "depth-to-product" and "depth-to-water" in test wells. The integrated measuring tape and audible feedback allows the user to determine the thickness of the product layer. Once the measurements are recorded, the operator can pump the product from the well by activating a small switch, located on the reel assembly. Pumped product is discharged through a hose on the back side of the reel assembly, into a collection container.

Use of the Spill Buddy and Spill Buddy Pro systems is relatively cost effective, when compared to the traditional method of product recovery from groundwater monitoring wells. Traditionally, product has been recovered by using a hand-bailing device. This requires the collection of groundwater in addition to the product. The contaminated water is then treated as hazardous waste and must be disposed of accordingly. Handbailing is also very time consuming. Use of the Spill Buddy and Spill Buddy Pro to remove free phase contamination from groundwater monitoring wells is relatively quick and easy.

The compact probe with enclosed pump easily fits into wells as small as 2" in diameter. The rugged, lightweight, and convenient Spill Buddy units can skim up to 0.7 gallons of product per minute. The Spill Buddy units also have a self contained, rechargeable battery for the sensor electronics and pump. The battery is rechargeable from a 12 VDC source (car battery or cigarette lighter socket-optional) or the wall transformer provided with the unit. The Spill Buddy units will operate for up to one hour of continuous pumping. (approx. 40 gallons) per charge.

### **FEATURES:**

- **Portable pump with water interface detector for product-only recovery.**
- **For use in 2-inch and larger wells.**
- **Standard Unit goes 50 feet deep, optional 100 feet deep unit.**
- **Operated by self-contained rechargeable battery for easy portability.**
- **Battery provides one hour of continuous use per charge, equivalent to 40 gallons of product.**
- **Pumps 1 foot of product in a 2" well in 14 seconds at a 50 foot depth.**
- **Battery can be charged by wall transformer or optional cigarette lighter jack for charging between sites.**

### **SPECIFICATIONS:**

Size	18.5 x 14.25 x 8.25 - in. (470 x 362 x 210 mm)
Weight	19 LBS (8.6 kg) ( with battery )
Pumping Rate	0.7 gpm (2.6 L/min)
Min. Skimming Thickness	0" (will pump some water in this condition)
Pumping Head	50 ft. (21.43 m) standard unit. 100 ft (22.86 m) optional.
Pumping Time	1 hour continuous pumping per battery charge (approx. 40 gallons)
Pump-able Fluids	Water and most hydrocarbons, floaters or sinkers (DNAPLS) Viscosities from 0-10 Cp.
Battery	12 VDC, 5 Amps-hours sealed lead acid (included)
Battery Charger	Wall transformer. A cigarette-lighter jack is available as an option for charging between sites.
Operating Temperature Range	0 to +130 degrees F (-18 to +55 degrees C)



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