

## **A.1 Technology Name**

HydraSleeve Passive Grab-Sampler

### **A.1.1 Source**

“HydraSleeve, A No-Purge Groundwater Sampler for All Constituents and Evaluation of its Use on DWR Projects”. PowerPoint Presentation

By Chris Bonds, DWR-Central District, Geology and Groundwater Meeting, Stove Pipe Wells, Death Valley, December 5, 2007

### **A.1.2 Summary**

**Media:** Groundwater

**Study Type:** Side by Side

**Technology:** HydraSleeve Passive Grab-Sampler

**Peer Reviewed:** No

**Publication Date:** December 5, 2007

### **A.1.3 Site Description**

The presentation describes the HydraSleeve, its advantages and limitations, a field evaluation and data evaluation compared to 3-5 volume purge and pumped samples.

The California DWR-Central District performed a groundwater sampling study comparing HydraSleeve sample results to pumped results for Major Ions, Minor Ions, Trace Ions, and Physical Parameters and Zymax Forensics for Stable Isotopes of O and H, in eleven wells at four DWR multi-level well sites in the Sacramento Valley. Well depths ranged from 47 feet to 557 feet bgs.

### **A.1.5 Outcome**

The study concluded;

- The HydraSleeve produced results that correlated well to industry standard 3-5 volume pump sample results indicating high accuracy
- The HydraSleeve had excellent data reproducibility indicating high precision
- The results of the evaluation are consistent with those obtained by USACOE in a trial of passive sampling devices at the former McClellan AFB.
- The HydraSleeve requires minimal equipment and personnel, is inexpensive and disposable, is quick and easy to use and generates no purge water.
- The use of the HydraSleeve following a standard procedure should produce highly accurate and reproducible data at both clean and contaminated water sites
- Use of the HydraSleeve will save DWR time and money
- The HydraSleeve should be seriously considered for use by DWR and our contractors on all future groundwater sampling projects where appropriate
- DWR has been using HydraSleeves on these sites since the study was conducted.

#### **A.1.6 References**

“Results Report for the Demonstration of No-Purge Groundwater Sampling Devices at Former McClellan Air Force Base, California”, Prepared for U.S Army Corp of Engineers, Omaha District and Air Force Center for Environmental Excellence and Air Force Real Property Agency. Prepared by Parsons, Denver Co. October 2005.

The study referenced a New England Case Study with 30 wells 30-200 feet deep comparing HydraSleeve to Low-Flow pumping where the low-flow sampling required 2 weeks and four people and the HydraSleeve required 4 days with two people. No citation provided.