

A.1 Technology Name: HydraSleeve

A.1.1 Source:

HydraSleeve™ SAMPLING STUDY AT KANSAS SMALL ARID LANDFILLS (SALs)

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A.1.2

Media: Groundwater

Study Type: Side-by-Side

Technology: HydraSleeve Passive Grab-Sampler

Peer Reviewed:

Publication Date: October 2006

A.1.3 Site Description:

This study compared results from HydraSleeve samples to 3-volume purge and pumped, or 3-volume purge and bailed samples at 14 wells across 3 small arid landfills for a reduced set of 12 VOC and two metal constituents (cadmium and chromium). The study noted that results were very consistent between the two sampling methods and the HydraSleeve provides more accurate results for VOCs at low levels due to less agitation during the collection process and the samples are not exposed to ambient air, minimizing volatilization. Samples for metals, taken with the HydraSleeve, were less turbid than pumped samples and turbidity is known to increase results for metals concentrations.

A.1.4 Phase: Long Term Monitoring

A.1.5 Outcome: HydraSleeve sampling method may be used at any of the 33 SALs for ongoing site monitoring.

Based on the findings of this limited study and much research, it is the author's recommendation that the use of the HydraSleeve™ for ground water monitoring be approved. While providing consistent and accurate data, this method also allows facilities to take advantage of many benefits should they choose to select this alternative method of sampling.

A.1.6 References:

Allied Environmental Consultants, Inc., Don A. Breit, P.G. May 18, 2006. "Semi-Annual Monitoring Report, Pratt County Landfill Sampling Event – Spring 2006".

Interstate Technology & Regulatory Council. March 2006. "Technology Overview of Passive Sampler Technologies.

34 MILCO Environmental Services, Inc., Leah MacNeill. June 14, 2006. "Semi-Annual Sampling
35 Results, April 2006, Thomas County Landfill".
36 PARSONS. October 2005. "Final – Results Report for the Demonstration of No-Purge
37 Groundwater Sampling Devices at Former CcClellan Air Force Base, California".
38 Rooks County Landfill, Rich E. Bouchey. June 5, 2006. "Groundwater Sampling and Analysis
39 May Event, Rooks County Landfill, Rooks Co. Ks".