

## WESTBAY® WELL SUMMARY

Page 1 of 4

**Location ID:** 700-H

**Field Representative:** Hunnicut-Mack, Giles,  
Pearson, McClure, Rivera

**Purpose of Well:** Downgradient Westbay® multiport monitoring well relative to the 700 Area landfill to characterize Bis(2-ethylhexyl) phthalate concentrations in groundwater.

**Date Started:** 6/9/99

**Date Completed:** 8/18/99

**Northing:** 235909.42

**Easting:** 416171.20

**Brass Cap:** 4867.86'

**Outer Casing:** 4868.87'

**Inner Casing:** 4868.44'

**Drilling Method:** Air rotary casing hammer with hammer tool bit.

**Drilling Contractor:** Stewart Brothers Drilling Co.

**Driller:** Juan Aguilar

**Total Depth Borehole:** 730'

**Diameter Borehole:** 7 5/8" (0-170'), 4 1/2" (170-730')

**Total Depth Surface Casing:** 170'

**Diameter Surface Casing:** 5" OD

**Total Depth Well Casing:** 695'

**Diameter Well Casing:** 1.5" OD

**Water First Detected:** NA

**Water Level Open Borehole:** 324'  
(from geophysical log)

**Water Level Measurement Port:** 265'  
(from pressure profile)

**Estimated Water Use:** NA

Location ID: 700-H

Page 2 of 4

Sampling Zones: 345' to 360'  
525' to 545'  
660' to 680'  
\_\_\_\_\_ to \_\_\_\_\_  
\_\_\_\_\_ to \_\_\_\_\_  
\_\_\_\_\_ to \_\_\_\_\_  
\_\_\_\_\_ to \_\_\_\_\_  
\_\_\_\_\_ to \_\_\_\_\_

**Well Casing Used:**

10-foot: 61 = 610 ft

5-foot: 10 = 50 ft

2-foot: 1 = 2 ft

packer: 7 = 35 ft      Total Footage: 697 ft

Regular Couplings: 68

Pumping Ports: 3

Measurement Ports: 7

End Caps: 1

Magnetic Collars: 3

**Pertinent Field Notes**

For more detail, refer to Field Notebook #s 700 Area Landfill (pages 19-40, page 54), Westbay Installation Book #1 (pages 39-45).

- 6/8/99- Mobilized to 700-H site. Serviced drilling equipment and prepared for spudding borehole- L. Hunnicutt-Mack.
- 6/9/99- Drilled from 0'-90' with 7 5/8" drive casing- J. Pearson.
- 6/10/99- Drilled from 90'-170' with drive casing- J. Pearson.
- 6/15/99- Rig down casing assembly. Run 5" diameter surface casing to 170' inside the drive casing - J. Pearson.
- 6/16/99- Cemented 5" surface casing from 170' to ground surface and extracted drive casing before cement set- L. Hunnicutt-Mack and M. Rivera.
- 6/17/99- Drilled 4 1/2" borehole from 170'-360' with air hammer- L. Hunnicutt-Mack and M. Rivera.
- 6/18/99- Drilled 4 1/2" borehole from 360'-570' with air hammer. First indication of water at 435'. Randy Stewart reports oryx siting on way in- L. Hunnicutt-Mack.
- 6/19/99- Drilled 4 1/2" borehole from 570'-730' (TD). Tripped out of borehole - eight joints and the hammer remain in the borehole- M. McClure.
- 6/20/99- Tripped in to borehole at 710' with drill pipe and air-lifted 3,300 gallons from borehole. Parameters stable. Turbidity high due to suspended solids and air bubbles- G. Giles.
- 6/21/99- Southwest Geophysical Services, Inc. performed geophysical logging on 700-H borehole. Moved casing hammer rig to mid-plume staging area for maintenance and decontamination before moving to 700-G well- L. Hunnicutt-Mack.
- 7/11/99- 700-H blocked at 285' adjacent to cave-in noted in camera log. Tripped in liner to 300' and broke through bridge. Tripped in 1 1/2" tremie pipe within liner to 710'. Prepared to air-lift borehole prior to Westbay® material installation- L. Hunnicutt-Mack.

**Pertinent Field Notes Cont.**

- 7/12/99- Air-lifted approximately 2,500 gallons at 4-6 gpm from 700-H borehole. Commenced mobilization to 700-G- M. McClure.
- 7/27/99- 700-H borehole camera logged to a depth of 715' - M. Dunford and D. Sanchez.
- 7/28/99- Attempted to install Westbay® MP38 casing with stiffened packers. A liner has been installed due to bridging. The packers will not fit into the liner. Westbay® installation suspended- M. McClure and L. Hunnicutt-Mack.
- 8/10/99- Sound borehole at 712'. Steam clean Westbay® casing. Install 695' Westbay® well with unstiffened packers. Unstiffened packers in 4 ½" borehole maximum volume = 6.5 liters, maximum pressure = 110 psi- M. McClure and L. Hunnicutt-Mack.
- 8/11/99- Performed Westbay® casing integrity test- L. Hunnicutt-Mack and M. Rivera.
- 8/12/99- No leaks in Westbay® casing. Inflated packers #1, #3 and #4- M. McClure and M. Rivera.
- 8/13/99- Inflated packers #5 and #6- M. McClure and L. Hunnicutt-Mack.
- 8/16/99 &  
8/17/99- Packer inflation discussions with D. Larssen and D. Mercer of Westbay Instruments, Inc. Packers not overinflated as D. Mercer originally suggested. Packer #1 inflated correctly and water should be added to packers #3, #4 and #6 to duplicate it.
- 8/18/99- Inflated packer #2. Completed packers #3, #4 and #6. Trip out liner and inflate packer #7. Packer inflation completed. Turned well over to Technicians for Westbay® development- M. McClure.