

## Steve Pullen

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**From:** Steve Pullen [Steve\_pullen@nmenv.state.nm.us]  
**Sent:** Wednesday, March 27, 2002 2:32 PM  
**To:** Patrick.G.Corser@us.mwhglobal.com  
**Subject:** RE: Monitoring Well Locations

Pat,

Wells 14-17 and 19 are located in relation to the stormwater detention basin, not the waste process area or the evaporation ponds. All other installations and locations are correct pending final determination of wells (?) 11-13.

Steve

-----Original Message-----

**From:** Patrick.G.Corser@us.mwhglobal.com  
[mailto:Patrick.G.Corser@us.mwhglobal.com]  
**Sent:** Wednesday, March 27, 2002 1:48 PM  
**To:** Steve Pullen  
**Subject:** Monitoring Well Locations

Steve,

Does the attached represent an accurate description of the monitoring well installations and locations.

Pat

(See attached file: Monitoirng Well Details and Locations.xls)

## Gandy Monitoring Well System

Name	Number	Depth	Contact/Zone to Be Monitored	Installation Description	General Location
VZMW- D	1	Deep	Upper/Lower Dockum	4-inch diameter Sch 80, PVC Pipe	East side of north evaporation pond
VZMW- D	2	Deep	Upper/Lower Dockum	4-inch diameter Sch 80, PVC Pipe	East side of south evaporation pond
VZMW- D	3	Deep	Upper/Lower Dockum	4-inch diameter Sch 80, PVC Pipe	East side of Phase IA, 400 feet south of NE corner of landfill
VZMW- D	4	Deep	Upper/Lower Dockum	4-inch diameter Sch 80, PVC Pipe	East side of Phase IA, 750 feet south of NE corner of landfill
VZMW- D	5	Deep	Upper/Lower Dockum	4-inch diameter Sch 80, PVC Pipe	East side of Phase IA, 1050 feet south of NE corner of landfill
VZMW- D	6	Deep	Upper/Lower Dockum	4-inch diameter Sch 80, PVC Pipe	At NE corner of Phase IA of landfill
VZMW- D	7	Deep	Upper/Lower Dockum	4-inch diameter Sch 80, PVC Pipe	At NE corner of Facility boundary
VZMW- D	8	Deep	Upper/Lower Dockum	4-inch diameter Sch 80, PVC Pipe	Halfway along a straight line extended between VZMW-D6 and D7
VZMW- D	9	Deep	Upper/Lower Dockum	4-inch diameter Sch 80, PVC Pipe	Next to WW1
VZMW- D	10	Deep	Upper/Lower Dockum	4-inch diameter Sch 80, PVC Pipe	Next to PB14
VZMW- S	11	Shallow	Upper Dockum	Vacuum-pressure Suction Cup Sampler	NW Corner of north evaporation pond (next to VSMW-D23)
VZMW- S	12	Shallow	Upper Dockum	Vacuum-pressure Suction Cup Sampler	East side of north evaporation pond (next to VZMW-D1)
VZMW- S	13	Shallow	Upper Dockum	Vacuum-pressure Suction Cup Sampler	East side of south evaporation pond (next to VZMW-D2)
VZMW- S	14	Shallow	Alluvial/Upper Dockum	4-inch diameter Sch 80, PVC Pipe	NE corner of Stormwater Detention Basin
VZMW- S	15	Shallow	Alluvial/Upper Dockum	4-inch diameter Sch 80, PVC Pipe	East side of Stormwater Detention Basin, one-third distance between 14 and 17
VZMW- S	16	Shallow	Alluvial/Upper Dockum	4-inch diameter Sch 80, PVC Pipe	East side of Stormwater Detention Basin, two-thirds distance between 14 and 17
VZMW- S	17	Shallow	Alluvial/Upper Dockum	4-inch diameter Sch 80, PVC Pipe	SE corner of Stormwater Detention Basin
VZMW- S	18	Shallow	Alluvial/Upper Dockum	4-inch diameter Sch 80, PVC Pipe	Next to WW1
VZMW- S	19	Shallow	Alluvial/Upper Dockum	4-inch diameter Sch 80, PVC Pipe	Next to PB14
VZMW- VD	20	Very Deep	Lower Dockum	4-inch diameter Sch 80, PVC Pipe	SE corner of Stormwater Detention Basin (next to VZMW-S17)
VZMW- D	21	Deep	Upper/Lower Dockum	2-inch diameter Sch 80, PVC Pipe	North side, center, Phase 1A Landfill
VZMW- D	22	Deep	Upper/Lower Dockum	2-inch diameter Sch 80, PVC Pipe	West side, center, Phase 1A Landfill
VZMW- D	23	Deep	Upper/Lower Dockum	2-inch diameter Sch 80, PVC Pipe	NW Corner of north evaporation pond (next to VSMW-S11)

VZMS

3 Sumps

17 Well

6 Shallow 10-Deep 1 Very Deep

3 Gyrometers

3 neutron probe access tubes

Gandy Neutron Prob Results					Summary			
	Number	Moisture Conditions	Depth (ft)	API	Dry Range		Wet Range	
Boreholes					Low	High	Low	High
	PB14	Dry	0 - 60	3250	3250			
		Wet	64 - 90	500			500	
	PB14 Off Set	Dry	38 - 90	2625	2625			
		Wet	90	500			500	
	PB26	Dry	0 - 80	3000	3000			
		Dry	80 - 130	1500 - 3750	1500	3750		
		Wet	130 - 155	700 - 1000			700	1000
	WW-1	Dry	0 - 140	1500 - 3000	1500	3000		
		Wet	140 - 550	350			350	
		Wet	550 - 810	500 - 650			500	650
	WW-2	Dry	40 - 160	1750	1750			
		Wet	160 - 400	350			350	
					2271	3375	483	825
						Low	High	
		Ratio of Wet:Dry				0.21	0.24	