

Table 5-2
Comparison of Ground Water Vertical Flow Nets
4Q2013 through 2Q2014
Hoffmann-La Roche Inc. - Nutley, New Jersey

Well ID	Depth to Center of Screen (feet amsl)	Q4 12/12/2013 Vertical Flow Direction	Q1 3/17/2014 Vertical Flow Direction	Q2 6/2/2014 Vertical Flow Direction
Vertical Gradient Between Zone S1 and Zone S2				
53RI-MW4	115.7			
MW-16AW	90.8	Downward ↓	Downward ↓	Downward ↓
MW-8W	125.7			
MW-7W	81.5	Downward ↓	Downward ↓	Upward ↑
MW-10W	119.4			
MW-9W	85.1	Downward ↓	Downward ↓	Downward ↓
MW-14A	103.3			
MW-252B	70.1	Downward ↓	Downward ↓	Downward ↓
MW-38	115.1			
MW-41	70.0	Downward ↓	Downward ↓	Downward ↓
MW-60	109.1			
MW-60-Z2	83.2	N/A	Downward ↓	Downward ↓
MW-60M	106.4			
MW-263B	83.7	N/A	Downward ↓	Downward ↓
MW-60O	106.1			
MW-234B	78.8	Downward ↓	Downward ↓	Downward ↓
MW-80	109.2			
MW-80-Z2	83.1	N/A	Downward ↓	Downward ↓
MW-80C	105.3			
MW-24B	82.7	Downward ↓	No Gradient	Downward ↓
MW-91	101.5			
MW-82	74.7	Downward ↓	Upward ↑	Upward ↑
MW-106A	87.2			
MW-106B	68.8	Upward ↑	Upward ↑	Upward ↑
MW-218	105.7			
MW-218B	83.2	Upward ↑	Downward ↓	Downward ↓
MW-227A	90.3			
MW-227B	62.6	Downward ↓	Downward ↓	Downward ↓
MW-237A	111.0			
MW-237B	64.2	N/A	N/A	Downward ↓
MW-243A	101.4			
MW-243B	73.9	N/A	N/A	Downward ↓
MW-257A	81.5			
MW-257B	56.5	Downward ↓	Downward ↓	Downward ↓
MW-259A	111.3			
MW-259B	77.6	N/A	Downward ↓	Upward ↑
MW-266A	87.4			
MW-266B	55.2	N/A	Downward ↓	Downward ↓
MW-267A	103.3			
MW-267B	53.0	N/A	Downward ↓	Downward ↓
MW-229A	119.1			
MW-229B	82.3	Downward ↓	Downward ↓	Downward ↓
MW-44	113.2			
MW-44B	86.5	Downward ↓	Downward ↓	Downward ↓
MW-207A	104.3			
MW-207B	71.5	Downward ↓	Downward ↓	Downward ↓
MW-213B	103.8			
MW-213C	79.2	Downward ↓	Downward ↓	Downward ↓
MW-226A	109.9			
MW-226B	79.9	Downward ↓	Downward ↓	Downward ↓
ART-MW-3	108.4			
ART-MW-6	86.2	Downward ↓	Downward ↓	Downward ↓
ART-MW-2	109.3			
ART-MW-6	86.2	Downward ↓	Downward ↓	Downward ↓
53RI-MW-2	112.2			
MW-223B	76.5	N/A	Downward ↓	Upward ↑
MW-186A	105.7			
MW-186-2	84.6	Downward ↓	Downward ↓	Downward ↓
MW-90	91.3			
MW-78	75.9	Upward ↑	Downward ↓	Upward ↑
MW-93	101.2			
MW-87	75.6	Downward ↓	Upward ↑	Upward ↑
MW-94	98.2			
MW-22A	74.8	Downward ↓	Downward ↓	Downward ↓
MW-92	95.1			
MW-84	73.4	Downward ↓	Downward ↓	Downward ↓

Positive values indicate upward gradients and negative values indicate downward gradients.
N/A = Not Available.

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Well ID	Depth to Center of Screen (feet amsl)	Q4 12/12/2013 Vertical Flow Direction	Q1 3/17/2014 Vertical Flow Direction	Q2 6/2/2014 Vertical Flow Direction
Vertical Gradient Between Zone S1 and Zone S2				
MW-208A	101.9	Upward ↑	Downward ↓	Downward ↓
MW-208B	70.5	Upward ↑	Downward ↓	Downward ↓
MW-214A	99.6	Downward ↓	Upward ↑	Slight Downward ↓
MW-214B	76.8	Downward ↓	Upward ↑	Slight Downward ↓
MW-7B	99.7	Downward ↓	Downward ↓	Downward ↓
MW-7C	87.2	Downward ↓	Downward ↓	Downward ↓
MW-201A	105.6	Downward ↓	Upward ↑	Upward ↑
MW-201	91.1	Downward ↓	Upward ↑	Upward ↑
MW-170A	104.9	Upward ↑	Downward ↓	Downward ↓
MW-170B	84.3	Upward ↑	Downward ↓	Downward ↓
MW-169A	105.2	Downward ↓	Upward ↑	Downward ↓
MW-169B	85.1	Downward ↓	Upward ↑	Downward ↓
MW-168A	105.0	Upward ↑	Downward ↓	Downward ↓
MW-168B	85.1	Upward ↑	Downward ↓	Downward ↓
MW-167A	105.4	Upward ↑	Downward ↓	Downward ↓
MW-167B	85.4	Upward ↑	Downward ↓	Downward ↓
MW-209A	90.3	Downward ↓	Downward ↓	Downward ↓
MW-209B	68.2	Downward ↓	Downward ↓	Downward ↓
MW-103A	89.7	Upward ↑	Upward ↑	Upward ↑
MW-103B	67.2	Upward ↑	Upward ↑	Upward ↑
MW-104A	90.4	Upward ↑	Upward ↑	Upward ↑
MW-104B	68.8	Upward ↑	Upward ↑	Upward ↑
MW-105A	90.4	Upward ↑	Downward ↓	Upward ↑
MW-105B	65.0	Upward ↑	Downward ↓	Upward ↑
MW-62	83.5	Downward ↓	Downward ↓	Downward ↓
MW-63	65.5	Downward ↓	Downward ↓	Downward ↓
MW-68	88.4	Upward ↑	Upward ↑	Upward ↑
MW-71	71.3	Upward ↑	Upward ↑	Upward ↑
MW-72	85.5	Downward ↓	Downward ↓	Upward ↑
MW-74	68.0	Downward ↓	Downward ↓	Upward ↑
MW-25	96.0	Upward ↑	Upward ↑	Upward ↑
MW-26A	63.9	Upward ↑	Upward ↑	Upward ↑
MW-125	107.4	Downward ↓	Downward ↓	Downward ↓
MW-125A	89.6	Downward ↓	Downward ↓	Downward ↓
MW-15A	100.3	Downward ↓	Downward ↓	Upward ↑
MW-15B	85.1	Downward ↓	Downward ↓	Upward ↑
MW-128	105.7	Upward ↑	Upward ↑	Upward ↑
MW-128B	83.2	Upward ↑	Upward ↑	Upward ↑
MW-60G	105.4	Downward ↓	Downward ↓	Upward ↑
MW-224B	89.3	Downward ↓	Downward ↓	Upward ↑
ART-MW-1	107.5			
MW-308B	77.1	N/A	N/A	Downward ↓
ART-MW-3	108.4			
MW-246B	77.2	N/A	N/A	Downward ↓
MW-60A	103.8			
MW-60A-S2	61.6	N/A	N/A	Downward ↓
MW-61	124.9			
MW-61B	69.0	N/A	N/A	Downward ↓
MW-126	94.1			
MW-126B	59.1	N/A	N/A	Upward ↑
MW-131	84.0			
MW-131B	69.0	N/A	N/A	Downward ↓
MW-143	85.7			
MW-143B	63.4	N/A	N/A	Upward ↑
MW-271A	96.2			
MW-271B	60.7	N/A	N/A	Downward ↓
MW-272A	93.2			
MW-272B	71.8	N/A	N/A	Downward ↓
MW-274A	116.0			
MW-274B	67.7	N/A	N/A	Downward ↓
MW-275A	96.5			
MW-275B	65.9	N/A	N/A	Upward ↑
MW-276A	90.8			
MW-276B	65.2	N/A	N/A	Upward ↑

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Well ID	Depth to Center of Screen (feet amsl)	Q4 12/12/2013 Vertical Flow Direction	Q1 3/17/2014 Vertical Flow Direction	Q2 6/2/2014 Vertical Flow Direction
Vertical Gradient Between Zone S1 and Zone S2				
MW-277A	81.0	N/A	N/A	Downward ↓
MW-277B	55.3			Downward ↓
MW-278A	84.3	N/A	N/A	Downward ↓
MW-278B	55.1			Downward ↓
MW-280A	103.7	N/A	N/A	Upward ↑
MW-280B	68.9			Upward ↑
MW-288A	91.3	N/A	N/A	Upward ↑
MW-288B	69.3			Upward ↑
MW-292A	90.1	N/A	N/A	Downward ↓
MW-292B	66.8			Downward ↓
MW-295A	106.2	N/A	N/A	Downward ↓
MW-295B	83.7			Downward ↓
MW-39A	103.1	Downward ↓	Downward ↓	Downward ↓
MW-40A	89.8			Downward ↓
MW-153	106.4	N/A	N/A	Downward ↓
MW-300B	81.1			Downward ↓
MW-154A	93.0	N/A	N/A	Downward ↓
MW-154B	81.4			Downward ↓
MW-217	107.5	N/A	N/A	Downward ↓
MW-217B	82.2			Downward ↓
MW-253A	95.3	N/A	N/A	Downward ↓
MW-253B	68.4			Downward ↓
MW-108A	86.5	Upward ↑	Upward ↑	Upward ↑
MW-108B	68.4			Upward ↑
MW-144A	87.0	Upward ↑	Upward ↑	Upward ↑
MW-144B	66.3			Upward ↑
MW-171A	73.6	Downward ↓	Upward ↑	Upward ↑
MW-171B	58.5			Upward ↑
MW-145A	79.2	Upward ↑	Downward ↓	Upward ↑
MW-145B	66.8			Upward ↑
MW-124A	71.0	Downward ↓	Downward ↓	Downward ↓
MW-124B	63.1			Downward ↓
Vertical Gradient Between Zone S2 and Zone S3				
MW-230B	75.5	Slight Downward ↓	Downward ↓	Downward ↓
MW-230C	50.5			Downward ↓
MW-206B	75.9	Upward ↑	Upward ↑	Downward ↓
MW-206C	50.5			Downward ↓
MW-229B	82.3	Downward ↓	Downward ↓	Downward ↓
MW-229C	56.7			Downward ↓
MW-44B	86.5	Downward ↓	Downward ↓	Downward ↓
MW-44C	57.3			Downward ↓
MW-207B	71.5	Downward ↓	Downward ↓	Downward ↓
MW-207C	44.5			Downward ↓
MW-218B	63.0	Upward ↑	Downward ↓	Downward ↓
MW-218C	33.2			Downward ↓
MW-223B	76.5	Upward ↑	Upward ↑	Downward ↓
MW-223C	46.2			Downward ↓
MW-225B	87.7	Downward ↓	Downward ↓	Downward ↓
MW-225C	52.0			Downward ↓
MW-227B	62.6	Upward ↑	Downward ↓	Downward ↓
MW-227C	35.1			Downward ↓
MW-228B	82.0	Downward ↓	Downward ↓	Downward ↓
MW-228C	51.9			Downward ↓
MW-234B	78.8	Downward ↓	Upward ↑	Downward ↓
MW-233C	63.7			Downward ↓
MW-251B	71.5	Downward ↓	Downward ↓	Downward ↓
MW-251C	41.4			Downward ↓
MW-252B	70.1	Upward ↑	Upward ↑	Upward ↑
MW-252C	45.2			Upward ↑
MW-253B	68.4	Downward ↓	Downward ↓	Downward ↓
MW-253C	43.3			Downward ↓
MW-259B	111.3	N/A	Downward ↓	Downward ↓
MW-259C	77.6			Downward ↓
MW-258C	15.6	Upward ↑	Downward ↓	Downward ↓
DW-24	-29.6			Downward ↓
MW-1N	63.9	Downward ↓	Upward ↑	Downward ↓
MW-4N	47.3			Downward ↓
MW-5N	61.1	Upward ↑	N/A	Upward ↑
MW-13N	22.4			Upward ↑

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Vertical Gradient Between Zone S2 and Zone S3				
MW-9N	58.2	Upward ↑	Downward ↓	N/A
MW-9IN	44.3			
MW-50	78.3			
MW-56	53.2	Downward ↓	Downward ↓	Downward ↓
MW-53	78.4			
MW-54	53.4	Upward ↑	Downward ↓	Downward ↓
MW-76	77.0			
MW-77	52.0	Downward ↓	Downward ↓	Upward ↑
MW-78	75.9			
MW-79	50.5	Downward ↓	Downward ↓	Upward ↑
MW-82	74.7			
MW-83	49.6	Upward ↑	Downward ↓	Upward ↑
MW-87	75.6			
MW-88	49.6	Downward ↓	Downward ↓	Upward ↑
MW-22A	74.8			
MW-86	50.1	Upward ↑	Upward ↑	Downward ↓
MW-84	73.4			
MW-85	48.3	Upward ↑	Downward ↓	Upward ↑
MW-126B	59.1			
MW-126C	29.1	N/A	N/A	Upward ↑
MW-131B	69.0			
MW-131C	26.7	N/A	N/A	Downward ↓
MW-186-2	84.6			
MW-186B	42.5	Downward ↓	Downward ↓	Downward ↓
MW-226B	79.9			
MW-226C	49.7	Downward ↓	Downward ↓	Downward ↓
MW-231B	81.0			
MW-231C	55.9	Downward ↓	Downward ↓	Downward ↓
MW-237B	64.2			
MW-237C	21.3	N/A	N/A	Downward ↓
MW-264B	69.4			
MW-264C	24.9	N/A	Upward ↑	Upward ↑
MW-265B	75.6			
MW-265C	25.7	N/A	N/A	Downward ↓
MW-266B	55.2			
MW-266C	30.3	N/A	Downward ↓	Downward ↓
MW-267B	53.0			
MW-267C	17.2	N/A	Downward ↓	Downward ↓
MW-268B	72.7			
MW-268C	38.5	N/A	Downward ↓	Downward ↓
MW-271B	60.7			
MW-271C	21.4	N/A	N/A	Downward ↓
MW-272B	71.8			
MW-272C	41.9	N/A	N/A	Downward ↓
MW-273B	77.1			
MW-273C	25.8	N/A	N/A	Downward ↓
MW-274B	67.7			
MW-274C	36.9	N/A	N/A	Downward ↓
MW-275B	67.7			
MW-275C	36.9	N/A	N/A	Downward ↓
MW-276B	65.2			
MW-276C	29.8	N/A	N/A	Downward ↓
MW-277B	55.3			
MW-277C	18.7	N/A	N/A	Downward ↓
MW-280B	68.9			
MW-280C	39.9	N/A	N/A	Upward ↑

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Well ID	Depth to Center of Screen (feet amsl)	Q4 12/12/2013 Vertical Flow Direction	Q1 3/17/2014 Vertical Flow Direction	Q2 6/2/2014 Vertical Flow Direction
Vertical Gradient Between Zone S2 and Zone S3				
MW-24B	82.7			
MW-113	53.0	N/A	N/A	Downward ↓
MW-61B	69.0			
MW-61C	13.6	N/A	N/A	Downward ↓
MW-60A-S2	61.6			
MW-60A-S3	31.9	N/A	N/A	Downward ↓
MW-208B	70.5			
MW-208C	41.2	Upward ↑	Downward ↓	Downward ↓
MW-214B	76.8			
MW-214C	52.1	Upward ↑	Downward ↓	Downward ↓
MW-209B	68.2			
MW-209C	33.2	Upward ↑	Downward ↓	Downward ↓
MW-104B	68.8			
MW-104C	27.9	Upward ↑	Upward ↑	Upward ↑
MW-26A	63.9			
MW-25C	34.1	Downward ↓	Upward ↑	Downward ↓
MW-204B	74.6			
MW-204C	48.6	Downward ↓	Downward ↓	Downward ↓
MW-128B	83.2			
MW-128C	63.3	Upward ↑	Upward ↑	Upward ↑
MW-171B	59.5			
MW-171C	33.7	Upward ↑	Upward ↑	Upward ↑
MW-124B	21.0			
MW-124C	59.1	Downward ↓	Upward ↑	Downward ↓
MW-148A	65.1			
MW-148B	45.1	Downward ↓	Downward ↓	Upward ↑
MW-48	56.1			
MW-48B	28.8	Upward ↑	Upward ↑	Upward ↑
Vertical Gradient Between Zone S3 and Zone D1				
DW-13A	23.6			
DW-13B	-65.6	Upward ↑	Downward ↓	Downward ↓
DW-9A	31.9			
DW-9B	-15.1	N/A	N/A	Downward ↓
DW-2B	26.6			
DW-2-D1	-28.4	N/A	N/A	Upward ↑
MW-237C	21.3			
DW-31A	-40.2	N/A	N/A	Downward ↓
MW-260-S3	32.2			
DW-36A	-34.5	N/A	N/A	Downward ↓
MW-265C	25.7			
DW-30A	-54.4	N/A	N/A	Downward ↓
MW-269C	29.5			
DW-38A	-29.2	N/A	N/A	Upward ↑
MW-270C	29.7			
DW-37A	-36.3	N/A	N/A	Upward ↑
MW-271C	21.4			
DW-28A	-52.7	N/A	N/A	Downward ↓
MW-272C	41.9			
DW-29A	-52.7	N/A	N/A	Downward ↓
MW-273C	25.8			
DW-33A	-32.8	N/A	N/A	Downward ↓
MW-264C	24.9			
DW-26	-50.1	N/A	Downward ↓	Downward ↓
MW-266C	30.3			
DW-32A	-38.7	N/A	Downward ↓	Downward ↓
MW-215C	33.8			
DW-11B	8.5	Upward ↑	Downward ↓	Upward ↑
DW-3B	28.1			
DW-3C	-75.9	Upward ↑	Upward ↑	Downward ↓
MW-48B	28.8			
MW-48C	-1.5	Downward ↓	Downward ↓	Downward ↓

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Well ID	Depth to Center of Screen (feet amsl)	Q4 12/12/2013 Vertical Flow Direction	Q1 3/17/2014 Vertical Flow Direction	Q2 6/2/2014 Vertical Flow Direction
Vertical Gradient Between Zone D1 and Zone D2				
DW-12A	-7.5	Downward ↓	Downward ↓	Downward ↓
DW-12B	-65.0			
DW-2-D1	-28.4	N/A	N/A	Upward ↑
DW-2-D2	-128.4			
DW-13B	-65.6	N/A	N/A	Downward ↓
DW-13-D2	-136.0			
DW-25A	-38.0	N/A	N/A	Downward ↓
DW-25B	-115.7			
DW-28A	-34.1	N/A	N/A	Downward ↓
DW-28B	-163.9			
DW-31A	-40.2	N/A	N/A	Downward ↓
DW-31B	-179.0			
DW-33A	-32.8	N/A	N/A	Downward ↓
DW-33B	-151.8			
DW-34A	-46.4	N/A	Downward ↓	Downward ↓
DW-34B	-133.6			
DW-35A	-18.3	N/A	N/A	Downward ↓
DW-35B	-173.2			
DW-36A	-34.5	N/A	N/A	Upward ↑
DW-36B	-134.0			
DW-37A	-36.3	N/A	N/A	Downward ↓
DW-37B	-141.2			
DW-38A	-29.2	N/A	N/A	Downward ↓
DW-38B	-107.6			
DW-40A	-37.5	N/A	N/A	Upward ↑
DW-40B	-141.6			
DW-27A	-31.7	N/A	Downward ↓	Downward ↓
DW-27B	-163.0			
DW-29A	-52.7	N/A	Downward ↓	Downward ↓
DW-29B	-149.7			
DW-30A	-54.4	N/A	Downward ↓	Downward ↓
DW-30B	-134.4			
DW-32A	-38.7	N/A	Downward ↓	Downward ↓
DW-32B	-168.2			
DW-14A	-58.3	Downward ↓	Downward ↓	Downward ↓
DW-14B	-115.9			
DW-7B	-48.8	Downward ↓	Downward ↓	Downward ↓
DW-7C	-216.2			
DW-8B	-64.4	Downward ↓	Downward ↓	Slightly Upward ↑
DW-8C	-179.0			
DW-10B	-17.1	Downward ↓	Downward ↓	Upward ↑
DW-10C	-180.9			
DW-5B	-2.4	Downward ↓	Downward ↓	Downward ↓
DW-5C	-171.5			
DW-6B	8.8	Upward ↑	Downward ↓	Upward ↑
DW-6C	-167.4			
Vertical Gradient Between Zone D2 and Zone D3				
DW-14B	-115.9	Downward ↓	Downward ↓	Upward ↑
DW-14C	-260.3			
DW-2-D2	-128.4	N/A	N/A	Downward ↓
DW-2D	-278.9			
DW-27B	-163.0	N/A	N/A	Downward ↓
DW-27C	-288.6			
DW-29B	-149.7	N/A	N/A	Downward ↓
DW-29C	-298.8			
DW-33B	-151.8	N/A	N/A	Downward ↓
DW-33C	-290.7			

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Vertical Gradient Between Zone D2 and Zone D3				
DW-40B	-141.6	N/A	N/A	Downward ↓
DW-40C	-283.1			↑
DW-7C	-216.2	Upward ↑	Upward ↑	Upward ↑
DW-7D	-314.2	Upward ↑	Upward ↑	Upward ↑
DW-8C	-179.0			↑
DW-8D	-318.7	Upward ↑	Upward ↑	Upward ↑
DW-6C	-167.4	Downward ↓	Downward ↓	Downward ↓
DW-6D	-366.7			↓

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