TABLE C-2
HYDRAULIC GRADIENT AND GROUDNWATER VELOCITY IN SHALLOW SURFICIAL AQUIFER
HERCULES LLC AND PINOVA, INC.
BRUNSWICK, GA

Horizontal Hydraulic Gradient Calculation
Surficial Aquifer - Shallow Zone of Upper Unit

Well Set	Horizontal Distance Between Wells	Hydraulic Head Difference		Horizontal Hydraulic Gradient
	Feet	Feet		Feet / Feet
Upper Unit - Shallow Wells MW-19S / MW-20S	4,404	12/12/16	6.35	0.0014

Groundwater Flow Velocity Calculations
Shallow Zone - Upper Unit of Surficial Aquifer

	Date		
Groundwater Elevations	12/12/16		
MW-19S	10.11	ft.	
MW-20S	3.76	ft.	
	6.35	ft.	=dh
Distance between wells:	4,404	ft.	= dl
Horiz. Hydraulic gradient (i) =	0.0014		= dh/dl
[1]K =	9.8	ft/day	
n_e =	0.25		
Avg. Linear Flow Velocity (V) =	0.057	ft/ day	= iK/n_e

Notes:
[1] Hydraulic conductivity value is an average of all aquifer tests conducted to date in the applicable aquifer zone.