

CARRIAGE HILL
POND 71
STORM WATER QUALITY VOLUME
MINIMUM STORAGE VOLUME REQUIREMENTS

MSP No. 04476.01
Date: 7/11/2013

Runoff Coefficient for storms less than one inch 0.40
Precipitation Depth (inches) 0.75
ONSITE Drainage Area into basin (acres) 27.7

WATER QUALITY STORAGE VOLUME 30165 CU FT
DEDUCTION VOLUME FOR WET POND -7541 CU FT
TOTAL STORAGE VOLUME FOR 24 HOUR DRAIN TIME 22624 CU FT

BASIN - STAGE VS. STORAGE CALCULATIONS

PLAN SCALE: 1" = 1 FT

ELEV (msl)	AREA (sq ft)	INCRE VOLUME (cu ft)	SYSTEM CURVE		INCREMENTAL DRAWDOWN TIME (hr)	TOTAL DRAWDOWN TIME (hr)
			SUM VOLUME (cu ft)	DISCHARGE (cfs)		
790.00	104300	0	0	0.00		130.88
790.05	104552	5221	5221	0.03	84.24	46.65
790.10	104804	5234	10455	0.10	22.06	24.59
790.15	105057	5247	15702	0.18	10.55	14.04
790.20	105310	5259	20961	0.28	6.43	7.61
790.25	105564	5272	26233	0.38	4.43	3.18
790.30	105817	5285	31517	0.54	3.18	0.00

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STORM WATER QUALITY CALCULATIONS

MSP No. 04476.01
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DESCRIP.	(1) - 12"H x 6"V	(1) - 12"H x 6"V
	OPENING WEIR FLOW	OPENING ORIF FLOW
AREA	---	0.5
INV EL	---	790.00
CENTROID EL	---	790.25
WEIR LENGTH	1.00	---
CREST EL	790.00	---

ELEV	DISCHARGE		TOTAL
(msl)	(cfs)	(cfs)	(cfs)
790.00	0.00		0.00
790.05	0.03		0.03
790.10	0.10		0.10
790.15	0.18		0.18
790.20	0.28		0.28
790.25	0.38		0.38
790.30		0.54	0.54

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STORM WATER QUALITY VOLUME
MINIMUM STORAGE VOLUME REQUIREMENTS

MSP No. 04476.01
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Runoff Coefficient for storms less than one inch 0.35
Precipitation Depth (inches) 0.75
ONSITE Drainage Area into basin (acres) 17.1

WATER QUALITY STORAGE VOLUME 16294 CU FT
DEDUCTION VOLUME FOR WET POND -4074 CU FT
TOTAL STORAGE VOLUME FOR 24 HOUR DRAIN TIME 12221 CU FT

BASIN - STAGE VS. STORAGE CALCULATIONS

PLAN SCALE: 1" = 1 FT

ELEV (msl)	AREA (sq ft)	INCRE VOLUME (cu ft)	SYSTEM CURVE		INCREMENTAL DRAWDOWN TIME (hr)	TOTAL DRAWDOWN TIME (hr)
			SUM VOLUME (cu ft)	DISCHARGE (cfs)		
788.10	56400	0	0	0.00		23.66
788.15	56662	2827	2827	0.10	15.20	8.46
788.20	56924	2840	5666	0.29	3.99	4.47
788.25	57186	2853	8519	0.54	1.91	2.56
788.30	57450	2866	11385	0.83	1.17	1.39
788.35	57714	2879	14264	1.15	0.81	0.58
788.40	57978	2892	17156	1.61	0.58	0.00

CARRIAGE HILL
POND 72
STORM WATER QUALITY CALCULATIONS

MSP No. 97333.32
Date: 7/11/2012

DESCRIP.	(1) - 18"H x 6"V	(1) - 18"H x 6"V
	OPENING WEIR FLOW	OPENING ORIF FLOW
AREA	---	1.5
INV EL	---	788.10
CENTROID EL	---	788.35
WEIR LENGTH	3.00	---
CREST EL	788.10	---

ELEV (msl)	DISCHARGE		TOTAL (cfs)
	(cfs)	(cfs)	
788.10	0.00		0.00
788.15	0.10		0.10
788.20	0.29		0.29
788.25	0.54		0.54
788.30	0.83		0.83
788.35	1.15		1.15
788.40		1.61	1.61