

**Appendix B – Tables**

**Table 1 – Build-Out Calculations**

**Table 2 – Pollutant Loads by Land Cover (NJDEP BMP Manual, Draft, 2003)**

**Table 3 – Nonpoint Source Loads at Build-Out**

Build-Out Calculations

HUC 14 and Developable Soils	Build out Zoning	Total Area (acres)	Existing Impervious (%)	Existing Impervious (acres)	Wetlands/Water Area (acres)	Developable Area (acres)	Allowable Impervious (%)	Build-Out Impervious (acres)
<b>0204301180010</b>								
DoA, LwB, BF, AxB, LhA, DoA, HaA, AdA, Pm	PA	2588.58	1.23%	31.87	734.78	1845.22	10%	184.522
<b>Total</b>		<b>2588.58</b>	<b>1.23%</b>	<b>31.87</b>	<b>734.78</b>	<b>1845.22</b>		<b>184.522</b>
<b>0204301180030</b>								
AxB, BF, LhA	PA	373.41	0.00%	0	0	373.41	10%	37.341
<b>Total</b>		<b>373.41</b>	<b>0.00%</b>	<b>0</b>	<b>0</b>	<b>373.41</b>		<b>37.341</b>
<b>0204301180020</b>								
AxB, AdA, DoA, DpB, LmA, LhA	PA	1430.42	0.09%	1.33	856.8	470.42	10%	47.042
DoA, DpB	PI	309.83	0.00%	0	21.58	288.25	20%	57.65
At	PF	2215.58	0.75%	16.51	886.7	1368.46	20%	273.692
<b>Total</b>		<b>3955.83</b>	<b>0.45%</b>	<b>17.84</b>	<b>1765.08</b>	<b>2127.13</b>		<b>378.384</b>
<b>0204301180040</b>								
DpB, DpA, AdA	PF	1462.86	0.88%	12.9	126.45	1318.87	20%	263.774
DoA	C-PHD	103.67	13.41%	13.9	0	89.77	50%	44.885
AxB, LhA, At, BF, Pm	PA	1242.41	0.00%	0	488.69	753.72	10%	75.372
<b>Total</b>		<b>2808.94</b>	<b>0.95%</b>	<b>26.8</b>	<b>615.14</b>	<b>2162.36</b>		<b>384.031</b>
<b>0204301130020</b>								
DpA, DpB, AxB, Pm	PF	497.31	4.34%	21.56	0	475.75	20%	95.15
BF	CN	28.62	22.43%	6.42	0	22.2	50%	11.1
DoA	MH	157.19	75.42%	118.55	0	38.64	20%	7.728
Pm	PI	97.19	0.00%	0	0	97.19	20%	19.438
AxB, DoA	RL/AC	182.41	0.00%	0	0	182.41	20%	36.482
BF	RH*	50.96	0.00%	0	0	50.96	30%	15.288
<b>Total</b>		<b>1013.68</b>	<b>14.46%</b>	<b>146.53</b>	<b>0</b>	<b>867.15</b>		<b>185.186</b>
<b>0204301130010</b>								
AxB	PF	26.88	0.00%	0	0	26.88	20%	5.376
AxB, BF, DoA, DpB	RL/AC	1412.49	7.75%	109.43	233.64	1075.28	20%	215.056
AxB, DoA, BF	RH*	807.65	5.38%	43.49	232.2	509.98	30%	152.994
DpB	RM	162.31	61.80%	100.3	0	49.05	20%	9.81
DpB	CN	150.8	21.31%	32.14	0	118.66	50%	59.33
DoA	RL	58.7	0.00%	0	20.77	37.93	10%	3.793
DoA	RC-7.5	98.95	30.88%	30.56	0	9.67	30%	2.901
DoA	R-15	6.56	87.20%	5.72	0	0.84	20%	0.168
DpB, DoA, AxB	R-6	97.11	100.00%	97.11	0	0	30%	0
DoA	R-7.5	40.23	45.19%	18.18	0	22.05	30%	6.615
DoA	ML#3	49.47	8.93%	4.42	0	45.05	30%	13.515
DoA, DpB, WoC, Pm	R.O.W	129.15	100.00%	129.15	0	0	100%	0
<b>Total</b>		<b>3040.3</b>	<b>18.76%</b>	<b>570.5</b>	<b>486.61</b>	<b>1895.39</b>		<b>469.558</b>

**Build-Out Calculations**

HUC 14 and Developable Soils		Build out Zoning	Total Area (acres)	Existing Impervious (%)	Existing Impervious (acres)	Wetlands/ Water Area (acres)	Developable Area (acres)	Allowable Impervious (%)	Build-Out Impervious (acres)
<b>0204301120020</b>									
SS		PW	3836.68	1.13%	43.45	3799.36	0	20%	0
BF, DoA, LwB		ML#3	64.16	59.59%	38.23	0	25.93	30%	7.779
BF, DoA, LhA		R-7.5	339.93	58.24%	197.98	191.03	30.45	30%	9.135
LhA		C-PHD	206.96	19.23%	39.8	166	12.96	50%	6.48
BF		R-6	276.26	76.87%	212.36	114.15	34.75	30%	10.425
Pm, BF, DpB		CN	78.3	26.09%	20.43	14.74	43.49	50%	21.745
At, Ma, Be, SS		R-20	645.74	12.23%	78.95	407.75	178.72	20%	35.744
HhA, SS		CV	174.32	74.55%	129.96	80.44	1.49	50%	0.745
PN		R-MF	281.86	18.63%	52.5	261.6	19.56	50%	9.78
DoA, DpB, Pm		ML#2	69.32	11.71%	8.12	25.6	39	30%	11.7
DoA, DpB, EvC		R-15	11.82	62.18%	7.35	0	12.58	20%	2.516
BF, EvC		ML#1	105.43	7.41%	7.81	4.06	96.12	30%	28.836
LhA		ML#4	89.62	13.50%	12.1	49.95	24.04	20%	4.808
Po		CM	42.25	1.37%	0.58	42.95	0	30%	0
<b>Total</b>			<b>6222.65</b>	<b>13.65%</b>	<b>849.62</b>	<b>5157.63</b>	<b>519.09</b>		<b>149.693</b>
<b>0204301120030</b>									
W, SS		PW	3634.94	0.00%	0	3634.94	3634.94	20%	726.988
<b>Total</b>			<b>3634.94</b>	<b>0.00%</b>	<b>0</b>	<b>3634.94</b>	<b>3634.94</b>		<b>726.988</b>
<b>0204301120010</b>									
DpB		RL/AC	279.48	5.48%	15.31	0	264.17	20%	52.834
DpB, BF		RH*	80.12	48.44%	38.81	0	41.31	30%	12.393
Pm		RM	5.68	22.89%	1.3	0	4.38	20%	0.876
EvC, DpB		R-10	50.06	6.05%	3.03	0	47.03	30%	14.109
EvC, DpB		R-7.5	270.4	60.51%	163.62	16.52	90.28	30%	27.084
DpB, Pm		R-40	465.64	5.09%	23.7	209.36	221.17	20%	44.234
DoA		ML#1	63.6	0.42%	0.27	28.29	32.41	30%	9.723
EvC		R-20	111.97	16.25%	18.2	0.25	93.77	20%	18.754
DpB		ML#4	39.64	0.00%	0	0	39.64	20%	7.928
Pm		CN	7.56	100.00%	7.56	0	0	50%	0
LmA		C-PHD	60.33	53.34%	32.18	38.97	7.68	50%	3.84
		R-6	30	0.00%	0	30	0	30%	0
		R.O.W	77.16	100.00%	77.16	0	0	100%	0
<b>Total</b>			<b>1541.64</b>	<b>24.72%</b>	<b>381.14</b>	<b>323.39</b>	<b>841.84</b>		<b>191.775</b>
<b>0204301110040</b>									
AxB, AdA, DoA, DpB, Pm		PF	266.59	0.00%	0	14.75	251.84	20%	50.368
AxB, BF		PV	45.7	9.39%	4.29	7.32	31.42	20%	6.284
Pm, BF		PI	159.32	0.00%	0	14.18	144.7	20%	28.94
WoC		CN	9.1	25.93%	2.36	0	6.74	50%	3.37
AxB		RL/AC	4.19	0.00%	0	0	4.19	20%	0.838
<b>Total</b>			<b>484.9</b>	<b>1.37%</b>	<b>6.65</b>	<b>36.25</b>	<b>438.89</b>		<b>89.8</b>
<b>0204301110010</b>									
DpB, DpA, AxB		PF	42.15	0.00%	0	0	42.15	20%	8.43
<b>Total</b>			<b>42.15</b>	<b>0.00%</b>	<b>0</b>	<b>0</b>	<b>42.15</b>		<b>8.43</b>

**Pollutant Loads by Land Cover  
(NJDEP BMP Manual)**

Land Cover	Total Phosphorus Load (lbs/acre/year)	Total Nitrogen Load (lbs/acre/year)	Total Suspended Solids (TSS) Load (lbs/acre/year)
High, Medium Density Residential	1.4	15	140
Low Density, Rural Residential	0.6	5	100
Commercial	2.1	22	200
Industrial	1.5	16	200
Urban, Mixed Urban, Other Urban	1	10	120
Agriculture	1.3	10	300
Forest, Water, Wetlands	0.1	3	40
Barrenland/Transitional Area	0.5	5	60

Nonpoint Source Loads at Build-Out

HUC 14 and Developable Soils	Build out Zoning	Developable Area (acres)	TP (lbs/acre/year)	TP (lbs/year)	TN (lbs/acre/year)	TN (lbs/year)	TSS (lbs/acre/year)	TSS (lbs/year)
<b>0204301180010</b>								
DoA, LwB, BF, AxB, LhA, DoA, HaA, AdA, Pn	PA	1845.22	0.1	184.522	3	5535.66	40	73808.8
Total		1845.22		184.522		5535.66		73808.8
<b>0204301180030</b>								
AxB, BF, LhA	PA	373.41	0.1	37.341	3	1120.23	40	14936.4
Total		373.41		37.341		1120.23		14936.4
<b>0204301180020</b>								
AxB, AdA, DoA, DpB, LmA, LhA	PA	470.42	0.1	47.042	3	1411.26	40	18816.8
DoA, DpB	PI	288.25	1.5	432.375	16	4612	200	57650
At	PF	1368.46	0.1	136.846	3	4105.38	40	54738.4
Total		2127.13		616.263		10128.64		131206.2
<b>0204301180040</b>								
DpB, DpA, AdA	PF	1318.87	0.1	131.887	3	3956.61	40	52754.8
DoA	C-PHD	89.77	2.1	188.517	22	1974.94	200	17954
AxB, LhA, At, BF, Pm	PA	753.72	0.1	75.372	3	2261.16	40	30148.8
Total		2162.36		395.776		8192.71		100857.6
<b>0204301130020</b>								
DpA, DpB, AxB, Pm	PF	475.75	0.1	47.575	3	1427.25	40	19030
BF	CN	22.2	2.1	46.62	22	488.4	200	4440
DoA	MH	38.64	0.1	3.864	3	115.92	4	154.56
Pm	PI	97.19	1.5	145.785	16	1555.04	200	19438
AxB, DoA	RL/AC	182.41	0.6	109.446	5	912.05	100	18241
BF	RH*	50.96	1.4	71.344	15	764.4	140	7134.4
Total		887.15		424.634		5263.06		68437.96
<b>0204301130010</b>								
AxB	PF	26.88	0.1	2.688	3	80.64	40	1075.2
AxB, BF, DoA, DpB	RL/AC	1075.28	0.6	645.168	5	5376.4	100	107528
AxB, DoA, BF	RH*	509.98	1.4	713.972	15	7649.7	140	71397.2
DpB	RM	49.05	1.4	68.67	15	735.75	140	6867
DpB	CN	118.66	2.1	249.186	22	2610.52	200	23732
DoA	RL	37.93	0.6	22.758	5	189.65	100	3793
DoA	RC-7.5	9.67	1.4	13.538	15	145.05	140	1353.8
DoA	R-15	0.84	1.4	1.176	15	12.6	140	17.6
DoA	R-7.5	22.05	1.4	30.87	15	330.75	140	3087
DoA	ML#3	45.05	1.4	63.07	15	675.75	140	6307
Total		1896.39		1811.096		17806.81		225257.8
<b>0204301120020</b>								
BF, DoA, LwB	ML#3	25.93	1.4	36.302	15	388.95	140	3630.2
BF, DoA, LhA	R-7.5	30.45	1.4	42.63	15	456.75	140	4263
LhA	C-PHD	12.96	2.1	27.216	22	285.12	200	2592
BF	R-6	34.75	1.4	48.65	15	521.25	140	4865
Pm, BF, DpB	CN	43.49	2.1	91.329	22	956.78	200	8698
At, Ma, Be, SS	R-20	178.72	1.4	250.208	15	2680.8	140	25020.8
HaA, SS	CV	1.49	2.1	3.129	22	32.78	200	298
PN	R-MF	19.56	1.4	27.384	15	293.4	140	2738.4
DoA, DpB, Pm	ML#2	39	1.4	54.6	15	585	140	5460
DoA, DpB, EVC	R-15	12.58	1.4	17.612	15	188.7	140	1761.2
BF, EVC	ML#1	96.12	1.4	134.568	15	1441.8	140	13456.8
LhA	ML#4	24.04	1.4	33.656	15	360.6	140	3365.6
Total		619.09		767.284		8191.93		76149
<b>0204301120030</b>								
W, SS	PW	3634.94	0.1	363.494	3	10904.82	40	145397.6

Nonpoint Source Loads at Build-Out

HUC 14 and Developable Soils	Build out Zoning	Developable Area (acres)	TP (lbs/acre/year)	TP (lbs/year)	TN (lbs/acre/year)	TN (lbs/year)	TSS (lbs/acre/year)	TSS (lbs/year)
<b>Total</b>		<b>3634.94</b>		<b>363,494</b>		<b>10904.82</b>		<b>145397.6</b>
<b>0204301120010</b>								
DpB	RL/AC	264.17	0.6	158,502	5	1320.85	100	26417
DpB, BF	RH*	41.31	1.4	57,834	15	619.65		0
Pm	RM	4.38	1.4	6,132	15	65.7		0
Evc, DpB	R-10	47.03	1.4	65,842	15	705.45	140	6584.2
Evc, DpB	R-7.5	90.28	1.4	126,392	15	1354.2	140	12639.2
DpB, Pm	R-40	221.17	0.6	132,702	5	1105.85	100	22117
DoA	ML#1	32.41	1.4	45,374	15	486.15	140	4537.4
Evc	R-20	93.77	1.4	131,278	15	1406.55	140	13127.8
DpB	ML#4	39.64	1.4	55,496	15	594.6	140	5549.6
Pm	CN	0	2.1	0	22	0	200	0
LmA	C-PHD	7.68	2.1	16,128	22	168.96	200	1536
<b>Total</b>		<b>841.84</b>		<b>795.68</b>		<b>7827.96</b>		<b>92508.2</b>
<b>0204301110040</b>								
AxB, AdA, DoA, DpB, Pm	PF	251.84	0.1	25,184	3	755.52	40	10073.6
AxB, BF	PV	31.42	1.4	43,988	15	471.3	140	4398.8
Pm, BF	PI	144.7	1.5	217,05	16	2315.2	200	28940
WoC	CN	6.74	2.1	14,154	22	148.28	200	1348
AxB	RL/AC	4.19	0.6	2,514	5	20.95	100	419
<b>Total</b>		<b>438.89</b>		<b>302.89</b>		<b>3711.25</b>		<b>45179.4</b>
<b>0204301110010</b>								
DpB, DpA, AxB	PF	42.15	0.1	4,215	3	126.45	40	1666
<b>Total</b>		<b>42.15</b>		<b>4,215</b>		<b>126.45</b>		<b>1666</b>