

Direct Calculation Total Kg of TSS per year

<p><u>Pre Development</u></p> <p>Design Point 1 Total acreage 55.51</p> <p>Forest (0.037kg/m3) (50.2acres* 4047m2) (1.27m) (0.64) = 6,109.14</p> <p>Impervious (0.15kg/m3) (0acres* 4047m2) (1.27m) (0.98) = 0.00</p> <p>Wetland (0kg/m3) (2.8acres* 4047m2) (1.27m) (0.64) = 0.00</p> <p>Pasture/Grass (0.037kg/m3) * (2.51acres* 4047m2) (1.27m) (0.64) = 305.37</p> <p>Total TSS kg/Year 6,414.51</p>	<p><u>Post Development</u></p> <p>Design Point 1 Total acreage 72.42</p> <p>Forest (0.037kg/m3) (59.32acres* 4047m2) (1.27m) (0.64) = 7,219.93</p> <p>Impervious (0.15kg/m3) (4.1acres* 4047m2) (1.27m) (0.98) = 3,099.41</p> <p>Wetland (0kg/m3) (2.49acres* 4047m2) (1.27m) (0.64) = 0.00</p> <p>Pasture/Grass (0.037kg/m3) * (6.51acres* 4047m2) (1.27m) (0.64) = 792.11</p> <p>Total TSS kg/Year 11,111.45</p>
<p><u>Pre Development</u></p> <p>Design Point 1a Total acreage 15.82</p> <p>Forest (0.037kg/m3) (15.02acres* 4047m2) (1.27m) (0.64) = 1,828.32</p> <p>Impervious (0.15kg/m3) (0acres* 4047m2) (1.27m) (0.98) = 0.00</p> <p>Wetland (0kg/m3) (0.61acres* 4047m2) (1.27m) (0.64) = 0.00</p> <p>Pasture/Grass (0.037kg/m3) * (0.19acres* 4047m2) (1.27m) (0.64) = 22.60</p> <p>Total TSS kg/Year 1,850.92</p>	<p><u>Post Development</u></p> <p>Design Point 1a Total acreage 16.45</p> <p>Forest (0.037kg/m3) (12.38acres* 4047m2) (1.27m) (0.64) = 1,272.39</p> <p>Impervious (0.15kg/m3) (4.39acres* 4047m2) (1.27m) (0.98) = 1,131.39</p> <p>Wetland (0kg/m3) (1.26acres* 4047m2) (1.27m) (0.64) = 0.00</p> <p>Pasture/Grass (0.037kg/m3) * (12.94acres* 4047m2) (1.27m) (0.64) = 436.52</p> <p>Total TSS kg/Year 2,840.30</p>
<p><u>Pre Development</u></p> <p>Design Point 2 Total acreage 29.88</p> <p>Forest (0.037kg/m3) (27.25acres* 4047m2) (1.27m) (0.64) = 3,316.81</p> <p>Impervious (0.15kg/m3) (0acres* 4047m2) (1.27m) (0.98) = 0.00</p> <p>Wetland (0kg/m3) (1.24acres* 4047m2) (1.27m) (0.64) = 0.00</p> <p>Pasture/Grass (0.037kg/m3) * (1.38acres* 4047m2) (1.27m) (0.64) = 168.43</p> <p>Total TSS kg/Year 3,485.24</p>	<p><u>Post Development</u></p> <p>Design Point 2 Total acreage 30.96</p> <p>Forest (0.037kg/m3) (12.38acres* 4047m2) (1.27m) (0.64) = 1,506.85</p> <p>Impervious (0.15kg/m3) (4.39acres* 4047m2) (1.27m) (0.98) = 3,316.39</p> <p>Wetland (0kg/m3) (1.26acres* 4047m2) (1.27m) (0.64) = 0.00</p> <p>Pasture/Grass (0.037kg/m3) * (12.94acres* 4047m2) (1.27m) (0.64) = 1,574.40</p> <p>Total TSS kg/Year 6,397.64</p>
<p><u>Pre Development</u></p> <p>Design Point 2a Total acreage 3.22</p> <p>Forest (0.037kg/m3) (1.99acres* 4047m2) (1.27m) (0.64) = 242.69</p> <p>Impervious (0.15kg/m3) (0acres* 4047m2) (1.27m) (0.98) = 0.00</p> <p>Wetland (0kg/m3) (0.17acres* 4047m2) (1.27m) (0.64) = 0.00</p> <p>Pasture/Grass (0.037kg/m3) * (1.05acres* 4047m2) (1.27m) (0.64) = 128.08</p> <p>Total TSS kg/Year 370.77</p>	<p><u>Post Development</u></p> <p>Design Point 2a Total acreage 1.27</p> <p>Forest (0.037kg/m3) (1.04acres* 4047m2) (1.27m) (0.64) = 126.92</p> <p>Impervious (0.15kg/m3) (0acres* 4047m2) (1.27m) (0.98) = 0.00</p> <p>Wetland (0kg/m3) (0acres* 4047m2) (1.27m) (0.64) = 0.00</p> <p>Pasture/Grass (0.037kg/m3) * (0.22acres* 4047m2) (1.27m) (0.64) = 27.14</p> <p>Total TSS kg/Year 154.06</p>
<p><u>Pre Development</u></p> <p>Design Point 2b Total acreage 26.04</p> <p>Forest (0.037kg/m3) (21.11acres* 4047m2) (1.27m) (0.64) = 2,569.14</p> <p>Impervious (0.15kg/m3) (0acres* 4047m2) (1.27m) (0.98) = 0.00</p> <p>Wetland (0kg/m3) (0acres* 4047m2) (1.27m) (0.64) = 0.00</p> <p>Pasture/Grass (0.037kg/m3) * (4.94acres* 4047m2) (1.27m) (0.64) = 600.74</p> <p>Total TSS kg/Year 3,169.88</p>	<p><u>Post Development</u></p> <p>Design Point 2b Total acreage 4.69</p> <p>Forest (0.037kg/m3) (3.48acres* 4047m2) (1.27m) (0.64) = 423.35</p> <p>Impervious (0.15kg/m3) (0acres* 4047m2) (1.27m) (0.98) = 0.00</p> <p>Wetland (0kg/m3) (0acres* 4047m2) (1.27m) (0.64) = 0.00</p> <p>Pasture/Grass (0.037kg/m3) * (1.21acres* 4047m2) (1.27m) (0.64) = 146.97</p> <p>Total TSS kg/Year 570.32</p>

<u>Pre Development</u> Design Point 3 Total acreage 14.75 Forest (0.037kg/m3) (12.17acres* 4047m2) (1.27m) (0.64) = 1,481.30 Impervious (0.15kg/m3) (0acres* 4047m2) (1.27m) (0.98) = 0.00 Wetland (0kg/m3) (0.13acres* 4047m2) (1.27m) (0.64) = 0.00 Pasture/Grass (0.037kg/m3) * (2.44acres* 4047m2) (1.27m) (0.64) = 297.37 Total TSS kg/Year 1,778.67	<u>Post Development</u> Design Point 3 Total acreage 2.42 Forest (0.037kg/m3) (2.42acres* 4047m2) (1.27m) (0.64) = 293.97 Impervious (0.15kg/m3) (0acres* 4047m2) (1.27m) (0.98) = 0.00 Wetland (0kg/m3) (0acres* 4047m2) (1.27m) (0.64) = 0.00 Pasture/Grass (0.037kg/m3) * (0acres* 4047m2) (1.27m) (0.64) = 0.00 Total TSS kg/Year 293.97
<u>Pre Development</u> Design Point 4 Total acreage 23.61 Forest (0.037kg/m3) (23.61acres* 4047m2) (1.27m) (0.64) = 2,873.59 Impervious (0.15kg/m3) (0acres* 4047m2) (1.27m) (0.98) = 0.00 Wetland (0kg/m3) (0acres* 4047m2) (1.27m) (0.64) = 0.00 Pasture/Grass (0.037kg/m3) * (0acres* 4047m2) (1.27m) (0.64) = 0.00 Total TSS kg/Year 2,873.59	<u>Post Development</u> Design Point 4 Total acreage 32.64 Forest (0.037kg/m3) (17.37acres* 4047m2) (1.27m) (0.64) = 2,114.29 Impervious (0.15kg/m3) (3.53acres* 4047m2) (1.27m) (0.98) = 2,669.09 Wetland (0kg/m3) (0acres* 4047m2) (1.27m) (0.64) = 0.00 Pasture/Grass (0.037kg/m3) * (11.74acres* 4047m2) (1.27m) (0.64) = 1,428.83 Total TSS kg/Year 6,212.21
<u>Pre Development</u> Design Point 5 Total acreage 32.80 Forest (0.037kg/m3) (29.64acres* 4047m2) (1.27m) (0.64) = 3,608.01 Impervious (0.15kg/m3) (0acres* 4047m2) (1.27m) (0.98) = 0.00 Wetland (0kg/m3) (1.21acres* 4047m2) (1.27m) (0.64) = 0.00 Pasture/Grass (0.037kg/m3) * (1.94acres* 4047m2) (1.27m) (0.64) = 236.33 Total TSS kg/Year 3,844.34	<u>Post Development</u> Design Point 5 Total acreage 25.18 Forest (0.037kg/m3) (20.71acres* 4047m2) (1.27m) (0.64) = 2,521.05 Impervious (0.15kg/m3) (0.33acres* 4047m2) (1.27m) (0.98) = 247.16 Wetland (0kg/m3) (0.1acres* 4047m2) (1.27m) (0.64) = 0.00 Pasture/Grass (0.037kg/m3) * (4.04acres* 4047m2) (1.27m) (0.64) = 491.73 Total TSS kg/Year 3,259.94
<u>Pre Development</u> Design Point 6 Total acreage 3.34 Forest (0.037kg/m3) (0acres* 4047m2) (1.27m) (0.64) = 0.00 Impervious (0.15kg/m3) (0acres* 4047m2) (1.27m) (0.98) = 0.00 Wetland (0kg/m3) (0acres* 4047m2) (1.27m) (0.64) = 0.00 Pasture/Grass (0.037kg/m3) * (3.34acres* 4047m2) (1.27m) (0.64) = 407.06 Total TSS kg/Year 407.06	<u>Post Development</u> Design Point 6 Total acreage 2.08 Forest (0.037kg/m3) (1.53acres* 4047m2) (1.27m) (0.64) = 185.77 Impervious (0.15kg/m3) (0.45acres* 4047m2) (1.27m) (0.98) = 338.22 Wetland (0kg/m3) (0acres* 4047m2) (1.27m) (0.64) = 0.00 Pasture/Grass (0.037kg/m3) * (0.1acres* 4047m2) (1.27m) (0.64) = 12.57 Total TSS kg/Year 536.56
<u>Pre Development</u> Design Point 7 Total acreage 4.53 Forest (0.037kg/m3) (0acres* 4047m2) (1.27m) (0.64) = 0.00 Impervious (0.15kg/m3) (0acres* 4047m2) (1.27m) (0.98) = 0.00 Wetland (0kg/m3) (0acres* 4047m2) (1.27m) (0.64) = 0.00 Pasture/Grass (0.037kg/m3) * (4.53acres* 4047m2) (1.27m) (0.64) = 551.88 Total TSS kg/Year 551.88	<u>Post Development</u> Design Point 7 Total acreage 2.43 Forest (0.037kg/m3) (2.43acres* 4047m2) (1.27m) (0.64) = 295.26 Impervious (0.15kg/m3) (0acres* 4047m2) (1.27m) (0.98) = 0.00 Wetland (0kg/m3) (0acres* 4047m2) (1.27m) (0.64) = 0.00 Pasture/Grass (0.037kg/m3) * (0acres* 4047m2) (1.27m) (0.64) = 0.00 Total TSS kg/Year 295.26

<u>Pre Development</u>		<u>Post Development</u>	
Design Point	8 Total acreage 41.93	Design Point	8 Total acreage 53.30
Forest	(0.037kg/m3) (33.32acres* 4047m2) (1.27m) (0.64) =	Forest	(0.037kg/m3) (29.89acres* 4047m2) (1.27m) (0.64) =
	4,054.88		3,638.23
Impervious	(0.15kg/m3) (0acres* 4047m2) (1.27m) (0.98) =	Impervious	(0.15kg/m3) (7.84acres* 4047m2) (1.27m) (0.98) =
	0.00		5,921.09
Wetland	(0kg/m3) (0.7acres* 4047m2) (1.27m) (0.64) =	Wetland	(0kg/m3) (0.32acres* 4047m2) (1.27m) (0.64) =
	0.00		0.00
Pasture/Grass	(0.037kg/m3) * (7.92acres* 4047m2) (1.27m) (0.64) =	Pasture/Grass	(0.037kg/m3) * (15.26acres* 4047m2) (1.27m) (0.64) =
	963.81		1,856.95
Total TSS kg/Year	5,018.69	Total TSS kg/Year	11,416.27
<u>Pre Development</u>		<u>Post Development</u>	
Design Point	9 Total acreage 27.84	Design Point	9 Total acreage 29.17
Forest	(0.037kg/m3) (19.16acres* 4047m2) (1.27m) (0.64) =	Forest	(0.037kg/m3) (13.02acres* 4047m2) (1.27m) (0.64) =
	2,332.20		1,584.19
Impervious	(0.15kg/m3) (0.62acres* 4047m2) (1.27m) (0.98) =	Impervious	(0.15kg/m3) (3.91acres* 4047m2) (1.27m) (0.98) =
	469.26		2,950.42
Wetland	(0kg/m3) (0.14acres* 4047m2) (1.27m) (0.64) =	Wetland	(0kg/m3) (0.2acres* 4047m2) (1.27m) (0.64) =
	0.00		0.00
Pasture/Grass	(0.037kg/m3) * (7.92acres* 4047m2) (1.27m) (0.64) =	Pasture/Grass	(0.037kg/m3) * (12.05acres* 4047m2) (1.27m) (0.64) =
	963.63		1,466.56
Total TSS kg/Year	3,765.09	Total TSS kg/Year	6,001.17
<u>Pre Development</u>		<u>Post Development</u>	
Design Point	11 Total acreage 163.61	Design Point	11 Total acreage 167.96
Forest	(0.037kg/m3) (134.05acres* 4047m2) (1.27m) (0.64) =	Forest	(0.037kg/m3) (121.53acres* 4047m2) (1.27m) (0.64) =
	16,314.36		14,790.70
Impervious	(0.15kg/m3) (5.91acres* 4047m2) (1.27m) (0.98) =	Impervious	(0.15kg/m3) (12.83acres* 4047m2) (1.27m) (0.98) =
	4,461.80		9,697.24
Wetland	(0kg/m3) (5.76acres* 4047m2) (1.27m) (0.64) =	Wetland	(0kg/m3) (5.47acres* 4047m2) (1.27m) (0.64) =
	0.00		0.00
Pasture/Grass	(0.037kg/m3) * (17.9acres* 4047m2) (1.27m) (0.64) =	Pasture/Grass	(0.037kg/m3) * (28.13acres* 4047m2) (1.27m) (0.64) =
	2,179.05		3,423.45
Total TSS kg/Year	22,955.21	Total TSS kg/Year	27,911.39
<u>Pre Development</u>		<u>Post Development</u>	
Design Point	12 Total acreage 15.71	Design Point	12 Total acreage 19.27
Forest	(0.037kg/m3) (15.36acres* 4047m2) (1.27m) (0.64) =	Forest	(0.037kg/m3) (14.26acres* 4047m2) (1.27m) (0.64) =
	1,869.72		1,735.12
Impervious	(0.15kg/m3) (0acres* 4047m2) (1.27m) (0.98) =	Impervious	(0.15kg/m3) (1.6acres* 4047m2) (1.27m) (0.98) =
	0.00		1,206.93
Wetland	(0kg/m3) (0.34acres* 4047m2) (1.27m) (0.64) =	Wetland	(0kg/m3) (0.34acres* 4047m2) (1.27m) (0.64) =
	0.00		0.00
Pasture/Grass	(0.037kg/m3) * (0acres* 4047m2) (1.27m) (0.64) =	Pasture/Grass	(0.037kg/m3) * (3.07acres* 4047m2) (1.27m) (0.64) =
	0.00		373.35
Total TSS kg/Year	1,869.72	Total TSS kg/Year	3,315.40

Total Existing kg P/year 58,355.57

Total Proposed kg P/year 80,315.94

Total pre-development acreage 458.60

Total post-development acreage 460.24