

Project: Axis Development - Stage 2
Project Number: 20120009
Revision: B
Date: 12/05/2013
Engineer: Brett Lipscombe

Actual Water Consumption	Indoor Water (kL)	Outdoor Water (kL)	Heat Rjection Water (kL)	Total Water (kL)
January	13.486	105.600	1281.970	1401.056
February	12.260	77.600	1165.427	1255.287
March	13.486	44.050	1281.970	1339.506
April	13.180	52.500	1252.834	1318.514
May	13.486	67.000	1281.970	1362.456
June	13.180	0.000	1252.834	1266.014
July	13.486	26.650	1281.970	1322.106
August	13.486	27.450	1281.970	1322.906
September	13.180	77.550	1252.834	1343.564
October	13.486	67.750	1281.970	1363.206
November	13.180	59.900	1252.834	1325.914
December	13.486	121.550	1281.970	1417.006
Total Water Consumption	159.380	727.600	15150.554	16037.534

Rainfall Data	Average Rainfall (mm)	Rain Days>1mm	Average Storm (mm)	Weeks
January	118.8	9.2	12.9	4.4
February	144.8	8.6	16.8	4
March	131.9	9.3	14.2	4.4
April	110.0	7.2	15.3	4.3
May	86.0	7.3	11.8	4.4
June	116.2	7.6	15.3	4.3
July	56.7	5.2	10.9	4.4
August	55.1	5.3	10.4	4.4
September	59.9	5.2	11.5	4.3
October	84.5	7.3	11.6	4.4
November	95.2	8.9	10.7	4.3
December	86.9	7.3	11.9	4.4
Annual	1148.7	88.4	16.8	52

Building Data

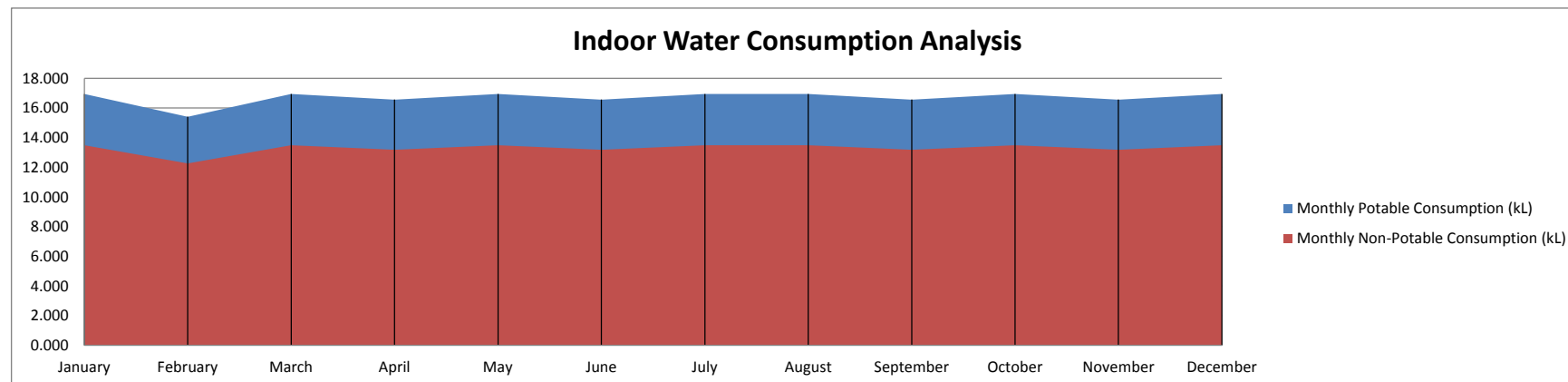
Total Gross Floor Area (m2)	26014
Total Site Area (m2)	3170
Total Roof Area (m2)	2632
Harvesting Ratio (%)	100%
Harvestable Catchment (m2)	2632
Run-Off Coefficient	0.95

Tank Sizes	Minimum	Median	Maximum
Tank Size (L)	42.100	223.129	362.058
Weekly Collection (kL)	55.105	55.105	55.105
Weekly Contribution (kL)	55.105	55.105	55.105
Weekly Overflow (kL)	0.000	0.000	0.000
Annual Potable Cold Water Top Up (kL)	13,172.075	13,172.075	13,172.075
Annual Rainwater Contribution	17.9%	17.9%	17.9%
Rainwater Available Per Day (kL)	1.060	1.060	1.060

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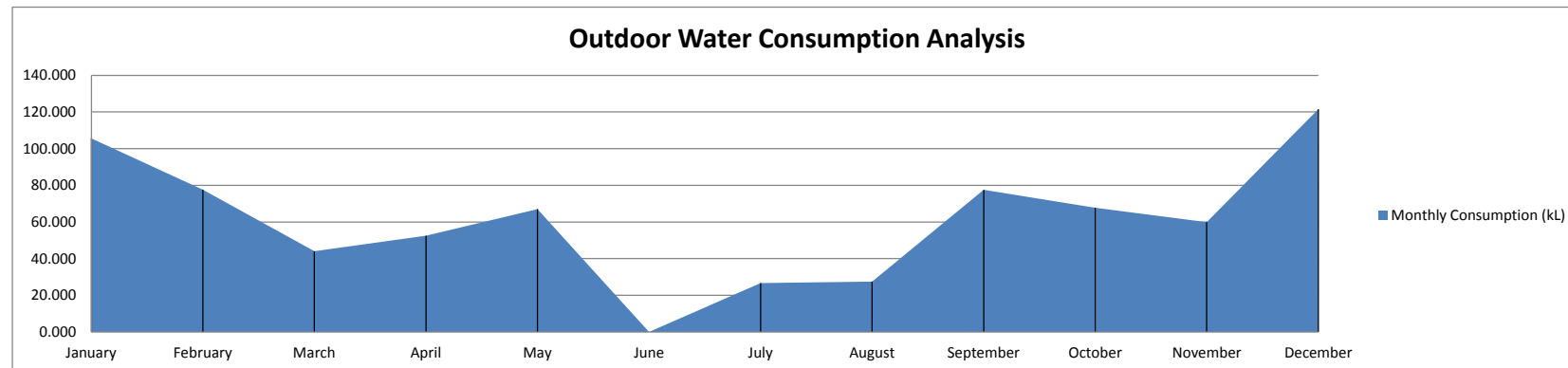
Location	Daily Consumption (L/day)	Weekly Consumption (kL)	Weekly Potable Consumption (kL)	Weekly Non-Potable Consumption (kL)
Retail Amenities			2.519	3.065
Retail Tenancies			1.332	0.000
Totals	0	0.000		3.065

Month	Weeks Per Month	Monthly Potable Consumption (kL)	Monthly Non-Potable Consumption (kL)	Monthly Totals (kL)
January	4.4	16.944	13.486	30.430
February	4	15.404	12.260	27.664
March	4.4	16.944	13.486	30.430
April	4.3	16.559	13.180	29.739
May	4.4	16.944	13.486	30.430
June	4.3	16.559	13.180	29.739
July	4.4	16.944	13.486	30.430
August	4.4	16.944	13.486	30.430
September	4.3	16.559	13.180	29.739
October	4.4	16.944	13.486	30.430
November	4.3	16.559	13.180	29.739
December	4.4	16.944	13.486	30.430
Totals	52	200.3	159.4	359.632



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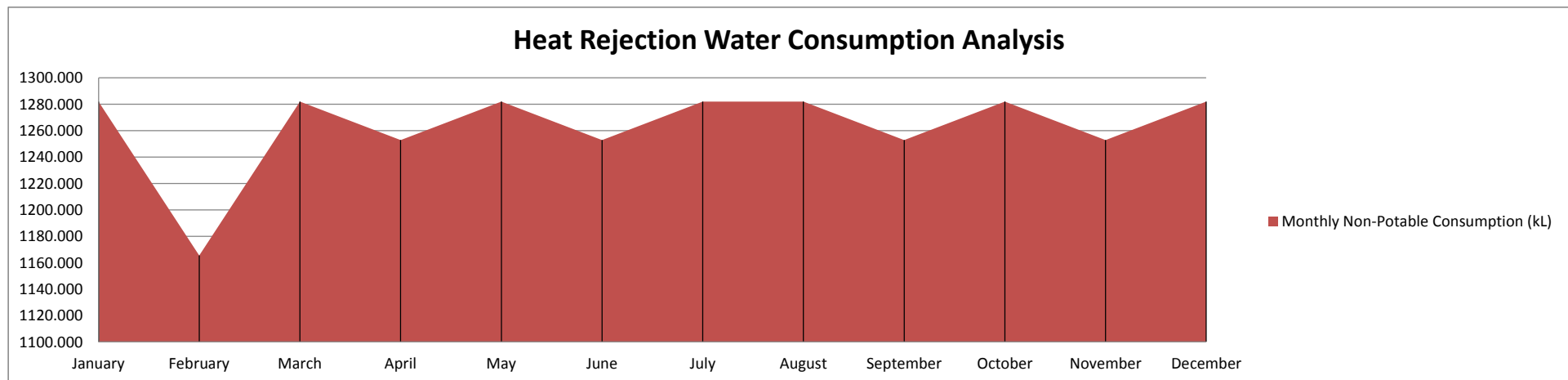
Month	Weeks Per Month	Applications Per Week	Irrigation Rate	Requirement	Rainfall	Irrigation Area	Monthly Consumption (kL)	Weekly Consumption (kL)
January	4.4	3.0	25	330	118.8	500	105.600	24.000
February	4	3.0	25	300	144.8	500	77.600	19.400
March	4.4	2.0	25	220	131.9	500	44.050	10.011
April	4.3	2.0	25	215	110.0	500	52.500	12.209
May	4.4	2.0	25	220	86.0	500	67.000	15.227
June	4.3	1.0	25	108	116.2	500	0.000	0.000
July	4.4	1.0	25	110	56.7	500	26.650	6.057
August	4.4	1.0	25	110	55.1	500	27.450	6.239
September	4.3	2.0	25	215	59.9	500	77.550	18.035
October	4.4	2.0	25	220	84.5	500	67.750	15.398
November	4.3	2.0	25	215	95.2	500	59.900	13.930
December	4.4	3.0	25	330	86.9	500	121.550	27.625
Totals	52						727.600	



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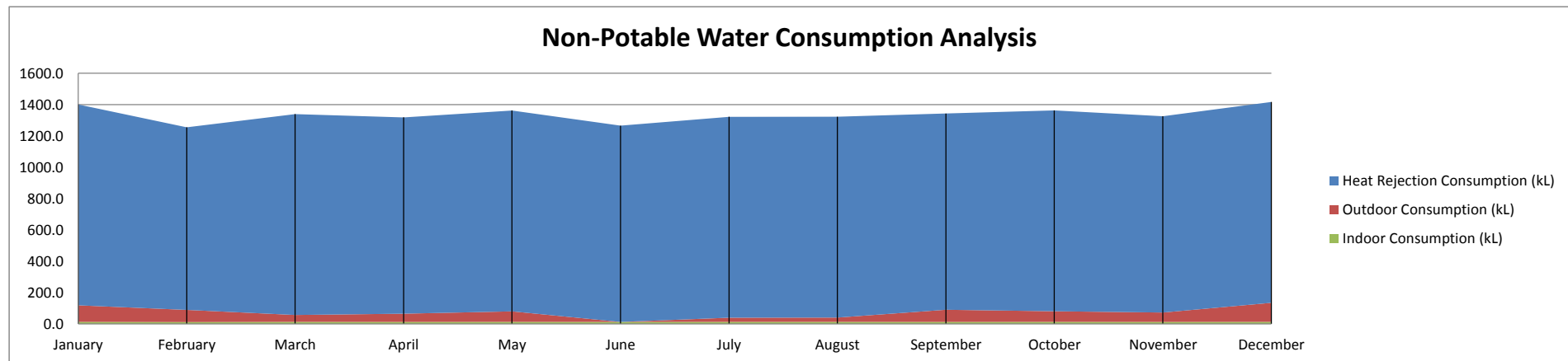
Plant	Building Area (m2)	Rate (L/day/m2)	Weekly Non-Potable Consumption (kL)
Cooling Towers	26014	1.60	291.357
Totals	26014		291.357

Month	Weeks Per Month	Monthly Non-Potable Consumption (kL)
January	4.4	1281.970
February	4	1165.427
March	4.4	1281.970
April	4.3	1252.834
May	4.4	1281.970
June	4.3	1252.834
July	4.4	1281.970
August	4.4	1281.970
September	4.3	1252.834
October	4.4	1281.970
November	4.3	1252.834
December	4.4	1281.970
Totals	52	15150.554



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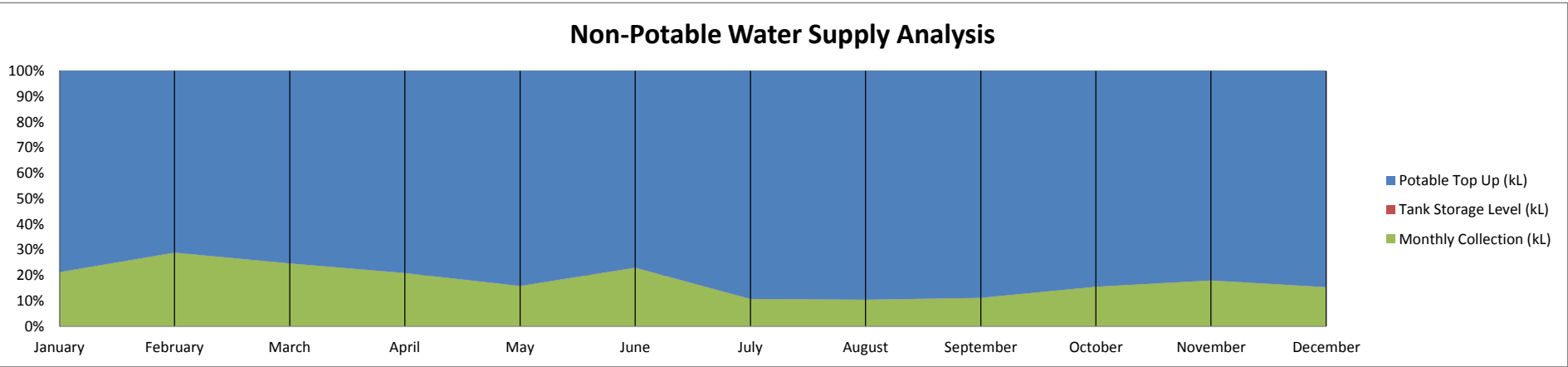
Monthly Water Balance	Rainfall Collection (kL)	Indoor Consumption (kL)	Outdoor Consumption (kL)	Heat Rejection Consumption (kL)	Total Consumption (kL)
January	297.04752	13.5	105.6	1281.970	1401.056
February	362.05792	12.3	77.6	1165.427	1255.287
March	329.80276	13.5	44.1	1281.970	1339.506
April	275.044	13.2	52.5	1252.834	1318.514
May	215.0344	13.5	67.0	1281.970	1362.456
June	290.54648	13.2	0.0	1252.834	1266.014
July	141.77268	13.5	26.7	1281.970	1322.106
August	137.77204	13.5	27.5	1281.970	1322.906
September	149.77396	13.2	77.6	1252.834	1343.564
October	211.2838	13.5	67.8	1281.970	1363.206
November	238.03808	13.2	59.9	1252.834	1325.914
December	217.28476	13.5	121.6	1281.970	1417.006
Totals	2865.4584	159.38		15150.554	16037.534



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Minimum Tank Size (m3) 42.100

Month	Monthly Collection (kL)	Monthly Consumption (kL)	Monthly Balance (kL)	Tank Storage Level (kL)	Tank Overflow (kL)	Potable Top Up (kL)
January	297.04752	1401.1	-1104.0	0.000	0.000	1104.0084
February	362.05792	1255.3	-893.2	0.000	0.000	893.22928
March	329.80276	1339.5	-1009.7	0.000	0.000	1009.70316
April	275.044	1318.5	-1043.5	0.000	0.000	1043.46974
May	215.0344	1362.5	-1147.4	0.000	0.000	1147.42152
June	290.54648	1266.0	-975.5	0.000	0.000	975.46726
July	141.77268	1322.1	-1180.3	0.000	0.000	1180.33324
August	137.77204	1322.9	-1185.1	0.000	0.000	1185.13388
September	149.77396	1343.6	-1193.8	0.000	0.000	1193.78978
October	211.2838	1363.2	-1151.9	0.000	0.000	1151.92212
November	238.03808	1325.9	-1087.9	0.000	0.000	1087.87566
December	217.28476	1417.0	-1199.7	0.000	0.000	1199.72116
Totals	2865.4584	16037.5336			0.000	13172.0752

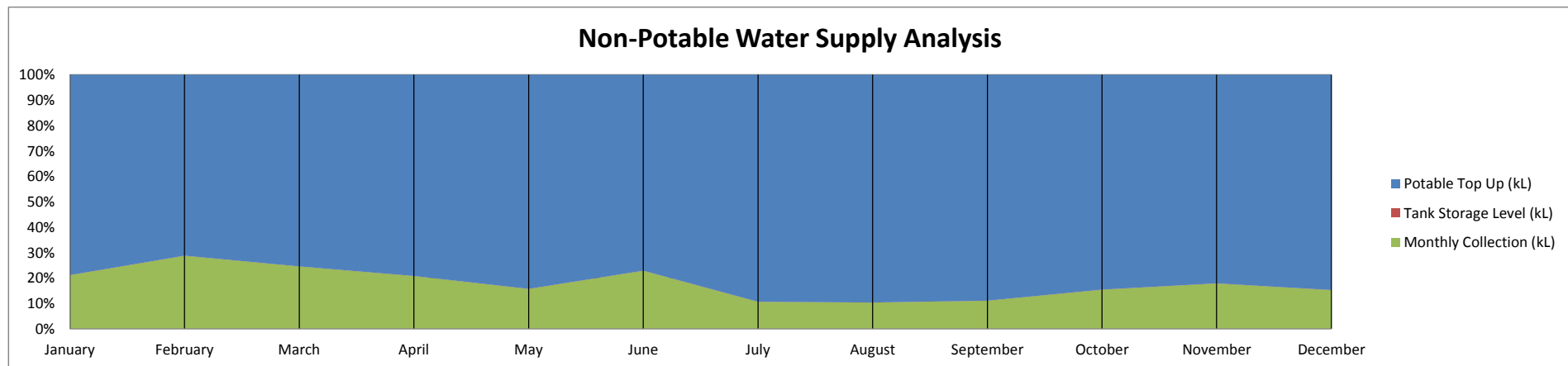


Rainwater Contribution 17.9%

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Option 2 Tank Size (m3) 223.129

Month	Monthly Collection (kL)	Monthly Consumption (kL)	Monthly Balance (kL)	Tank Storage Level (kL)	Tank Overflow (kL)	Potable Top Up (kL)
January	297.04752	1401.1	-1104.0	0.000	0.000	1104.0084
February	362.05792	1255.3	-893.2	0.000	0.000	893.22928
March	329.80276	1339.5	-1009.7	0.000	0.000	1009.70316
April	275.044	1318.5	-1043.5	0.000	0.000	1043.46974
May	215.0344	1362.5	-1147.4	0.000	0.000	1147.42152
June	290.54648	1266.0	-975.5	0.000	0.000	975.46726
July	141.77268	1322.1	-1180.3	0.000	0.000	1180.33324
August	137.77204	1322.9	-1185.1	0.000	0.000	1185.13388
September	149.77396	1343.6	-1193.8	0.000	0.000	1193.78978
October	211.2838	1363.2	-1151.9	0.000	0.000	1151.92212
November	238.03808	1325.9	-1087.9	0.000	0.000	1087.87566
December	217.28476	1417.0	-1199.7	0.000	0.000	1199.72116
Totals	2865.4584	16037.5336			0.000	13172.0752

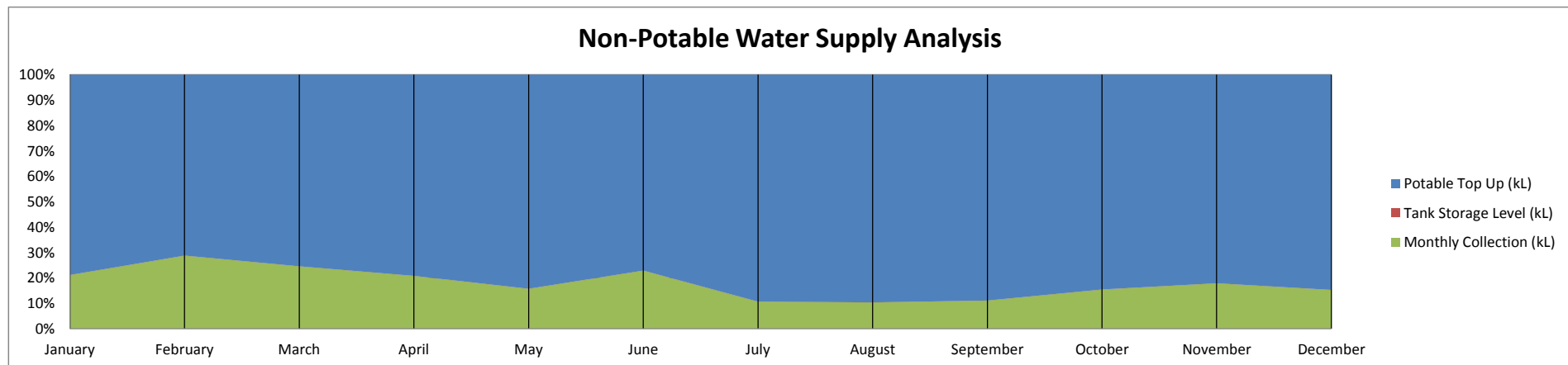


Rainwater Contribution 17.9%

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Maximum Tank Size (m3) 362.058

Month	Monthly Collection (kL)	Monthly Consumption (kL)	Monthly Balance (kL)	Tank Storage Level (kL)	Tank Overflow (kL)	Potable Top Up (kL)
January	297.04752	1401.1	-1104.0	0.000	0.000	1104.0084
February	362.05792	1255.3	-893.2	0.000	0.000	893.22928
March	329.80276	1339.5	-1009.7	0.000	0.000	1009.70316
April	275.044	1318.5	-1043.5	0.000	0.000	1043.46974
May	215.0344	1362.5	-1147.4	0.000	0.000	1147.42152
June	290.54648	1266.0	-975.5	0.000	0.000	975.46726
July	141.77268	1322.1	-1180.3	0.000	0.000	1180.33324
August	137.77204	1322.9	-1185.1	0.000	0.000	1185.13388
September	149.77396	1343.6	-1193.8	0.000	0.000	1193.78978
October	211.2838	1363.2	-1151.9	0.000	0.000	1151.92212
November	238.03808	1325.9	-1087.9	0.000	0.000	1087.87566
December	217.28476	1417.0	-1199.7	0.000	0.000	1199.72116
Totals	2865.4584	16037.5336			0.000	13172.0752



Rainwater Contribution 17.9%