

**Appendix 2:** Abundance of small plastic debris and other debris collected at each beach in quantity (items/m<sup>2</sup>) and density (g/m<sup>2</sup>).

**Quantity (items/m<sup>2</sup>)**

Sampling sites	Plastic			Plant			Shell		
	January	February	March	January	February	March	January	February	March
1. Teluk Kemang Beach	219 ± 16	244 ± 18	229 ± 13	325 ± 20	372 ± 39	388 ± 19	127 ± 13	172 ± 16	145 ± 20
2. Pasir Panjang Beach	228 ± 21	227 ± 11	179 ± 17	129 ± 9	124 ± 10	153 ± 16	350 ± 36	233 ± 13	354 ± 17
3. Batu Burok Beach	1064 ± 77	888 ± 100	388 ± 19	703 ± 68	1463 ± 167	705 ± 76	968 ± 64	3292 ± 261	972 ± 51
4. Seberang Takir Beach	1164 ± 56	944 ± 62	528 ± 43	889 ± 76	776 ± 44	456 ± 37	881 ± 79	1825 ± 158	256 ± 24
5. Tanjung Aru Beach	183 ± 18	213 ± 17	180 ± 17	1860 ± 219	2760 ± 522	908 ± 60	725 ± 63	555 ± 56	423 ± 37
6. Teluk Likas Beach	239 ± 21	263 ± 16	245 ± 14	319 ± 40	283 ± 30	249 ± 19	2119 ± 221	2375 ± 250	523 ± 43

**Density (g/m<sup>2</sup>)**

Sampling sites	Plastic			Plant			Shell		
	January	February	March	January	February	March	January	February	March
1. Teluk Kemang Beach	31.65 ± 2.14	39.21 ± 3.00	32.46 ± 1.77	34.07 ± 1.82	41.84 ± 4.28	45.33 ± 3.81	17.06 ± 1.98	18.22 ± 1.25	17.71 ± 1.62
2. Pasir Panjang Beach	25.24 ± 2.59	22.61 ± 0.77	12.93 ± 0.90	16.44 ± 1.70	13.72 ± 0.92	16.81 ± 2.12	41.87 ± 4.03	34.11 ± 2.30	43.03 ± 1.78
3. Batu Burok Beach	46.97 ± 2.09	109.51 ± 10.66	48.44 ± 6.12	35.06 ± 4.09	51.91 ± 5.74	35.17 ± 2.14	92.12 ± 8.93	352.08 ± 27.36	78.92 ± 4.68
4. Seberang Takir Beach	33.00 ± 2.48	155.78 ± 18.12	56.08 ± 4.59	62.92 ± 7.27	87.47 ± 7.88	14.57 ± 1.24	167.76 ± 15.07	124.90 ± 7.95	38.16 ± 3.38
5. Tanjung Aru Beach	20.16 ± 1.94	20.37 ± 2.01	15.82 ± 1.67	219.24 ± 18.12	358.44 ± 31.45	88.41 ± 3.17	181.43 ± 14.15	61.13 ± 6.17	12.42 ± 1.15
6. Teluk Likas Beach	40.54 ± 3.35	44.43 ± 3.64	40.71 ± 2.25	98.32 ± 14.60	83.79 ± 9.01	35.53 ± 2.90	122.21 ± 14.23	137.59 ± 14.71	62.11 ± 7.35

**Appendix 3:** *Classification of small plastic debris collected at each beach in quantity (items/m<sup>2</sup>).*

**Quantity (items/m<sup>2</sup>)**

Sampling sites	Film			Foam			Fragment		
	January	February	March	January	February	March	January	February	March
1. Teluk Kemang Beach	<b>111 ± 9</b>	<b>127 ± 11</b>	<b>123 ± 10</b>	<b>81 ± 8</b>	<b>80 ± 8</b>	<b>80 ± 5</b>	<b>27 ± 2</b>	<b>39 ± 3</b>	<b>27 ± 2</b>
2. Pasir Panjang Beach	<b>65 ± 14</b>	<b>69 ± 8</b>	<b>16 ± 1</b>	<b>63 ± 7</b>	<b>76 ± 6</b>	<b>24 ± 2</b>	<b>0 ± 0</b>	<b>0 ± 0</b>	<b>0 ± 0</b>
3. Batu Burok Beach	<b>540 ± 42</b>	<b>353 ± 32</b>	<b>260 ± 15</b>	<b>237 ± 25</b>	<b>255 ± 43</b>	<b>52 ± 5</b>	<b>195 ± 10</b>	<b>221 ± 30</b>	<b>75 ± 6</b>
4. Seberang Takir Beach	<b>107 ± 11</b>	<b>116 ± 13</b>	<b>80 ± 7</b>	<b>183 ± 14</b>	<b>247 ± 27</b>	<b>164 ± 18</b>	<b>67 ± 6</b>	<b>84 ± 9</b>	<b>76 ± 11</b>
5. Tanjung Aru Beach	<b>53 ± 6</b>	<b>81 ± 10</b>	<b>96 ± 12</b>	<b>47 ± 5</b>	<b>53 ± 4</b>	<b>43 ± 5</b>	<b>83 ± 8</b>	<b>79 ± 7</b>	<b>41 ± 5</b>
6. Teluk Likas Beach	<b>200 ± 22</b>	<b>220 ± 14</b>	<b>171 ± 15</b>	<b>25 ± 3</b>	<b>21 ± 3</b>	<b>48 ± 6</b>	<b>0 ± 0</b>	<b>0 ± 0</b>	<b>0 ± 0</b>

**Cont, (items/m<sup>2</sup>)**

Sampling sites	Line			Pellet		
	January	February	March	January	February	March
1. Teluk Kemang Beach	<b>0 ± 0</b>	<b>0 ± 0</b>	<b>0 ± 0</b>	<b>0 ± 0</b>	<b>0 ± 0</b>	<b>0 ± 0</b>
2. Pasir Panjang Beach	<b>100 ± 7</b>	<b>81 ± 4</b>	<b>139 ± 16</b>	<b>0 ± 0</b>	<b>0 ± 0</b>	<b>0 ± 0</b>
3. Batu Burok Beach	<b>92 ± 19</b>	<b>23 ± 3</b>	<b>0 ± 0</b>	<b>0 ± 0</b>	<b>36 ± 3</b>	<b>0 ± 0</b>
4. Seberang Takir Beach	<b>805 ± 42</b>	<b>432 ± 36</b>	<b>208 ± 18</b>	<b>0 ± 0</b>	<b>64 ± 12</b>	<b>0 ± 0</b>
5. Tanjung Aru Beach	<b>0 ± 0</b>	<b>0 ± 0</b>	<b>0 ± 0</b>	<b>0 ± 0</b>	<b>0 ± 0</b>	<b>0 ± 0</b>
6. Teluk Likas Beach	<b>9 ± 2</b>	<b>16 ± 2</b>	<b>21 ± 2</b>	<b>5 ± 1</b>	<b>5 ± 1</b>	<b>5 ± 1</b>

**Appendix 4:** Classification of small plastic debris collected at each beach in density ( $\text{g/m}^2$ ).

<b>Density (<math>\text{g/m}^2</math>)</b>									
Sampling sites	<b>Film</b>			<b>Foam</b>			<b>Fragment</b>		
	January	February	March	January	February	March	January	February	March
1. Teluk Kemang Beach	<b>13.88</b> ± 1.10	<b>21.22</b> ± 1.75	<b>17.23</b> ± 1.33	<b>4.49</b> ± 0.81	<b>3.76</b> ± 0.61	<b>1.78</b> ± 0.22	<b>13.28</b> ± 0.98	<b>14.21</b> ± 1.44	<b>13.46</b> ± 0.72
2. Pasir Panjang Beach	<b>5.49</b> ± 0.96	<b>8.35</b> ± 0.81	<b>1.55</b> ± 0.14	<b>5.03</b> ± 0.71	<b>3.31</b> ± 0.43	<b>4.84</b> ± 0.71	<b>0.00</b> ± 0.00	<b>0.00</b> ± 0.00	<b>0.00</b> ± 0.00
3. Batu Burok Beach	<b>12.48</b> ± 0.75	<b>32.28</b> ± 4.18	<b>30.59</b> ± 4.42	<b>1.88</b> ± 0.14	<b>7.61</b> ± 0.91	<b>3.13</b> ± 0.27	<b>22.70</b> ± 1.17	<b>58.36</b> ± 5.98	<b>14.74</b> ± 1.79
4. Seberang Takir Beach	<b>3.16</b> ± 0.34	<b>26.78</b> ± 2.07	<b>18.46</b> ± 3.03	<b>5.25</b> ± 0.84	<b>15.30</b> ± 1.94	<b>9.92</b> ± 1.10	<b>4.71</b> ± 0.57	<b>45.94</b> ± 8.01	<b>18.73</b> ± 2.56
5. Tanjung Aru Beach	<b>4.62</b> ± 0.56	<b>6.63</b> ± 1.20	<b>2.35</b> ± 0.32	<b>2.62</b> ± 0.36	<b>5.07</b> ± 0.61	<b>3.25</b> ± 0.36	<b>12.90</b> ± 1.21	<b>8.67</b> ± 1.00	<b>10.23</b> ± 1.27
6. Teluk Likas Beach	<b>27.05</b> ± 2.93	<b>21.52</b> ± 1.97	<b>20.64</b> ± 1.30	<b>11.99</b> ± 1.75	<b>2.54</b> ± 0.31	<b>5.92</b> ± 0.59	<b>0.00</b> ± 0.00	<b>0.00</b> ± 0.00	<b>0.00</b> ± 0.00

<b>Cont, (<math>\text{g/m}^2</math>)</b>						
Sampling sites	<b>Line</b>			<b>Pellet</b>		
	January	February	March	January	February	March
1. Teluk Kemang Beach	<b>0.00</b> ± 0.00	<b>0.00</b> ± 0.00	<b>0.00</b> ± 0.00	<b>0.00</b> ± 0.00	<b>0.00</b> ± 0.00	<b>0.00</b> ± 0.00
2. Pasir Panjang Beach	<b>14.72</b> ± 1.79	<b>10.95</b> ± 0.74	<b>6.54</b> ± 0.75	<b>0.00</b> ± 0.00	<b>0.00</b> ± 0.00	<b>0.00</b> ± 0.00
3. Batu Burok Beach	<b>9.89</b> ± 0.54	<b>4.69</b> ± 0.74	<b>0.00</b> ± 0.00	<b>0.00</b> ± 0.00	<b>6.59</b> ± 0.71	<b>0.00</b> ± 0.00
4. Seberang Takir Beach	<b>19.89</b> ± 1.73	<b>53.35</b> ± 10.00	<b>8.96</b> ± 1.50	<b>0.00</b> ± 0.00	<b>14.43</b> ± 1.97	<b>0.00</b> ± 0.00
5. Tanjung Aru Beach	<b>0.00</b> ± 0.00	<b>0.00</b> ± 0.00	<b>0.00</b> ± 0.00	<b>0.00</b> ± 0.00	<b>0.00</b> ± 0.00	<b>0.00</b> ± 0.00
6. Teluk Likas Beach	<b>0.61</b> ± 0.00	<b>18.00</b> ± 2.13	<b>10.21</b> ± 1.36	<b>0.89</b> ± 0.19	<b>2.38</b> ± 0.39	<b>3.94</b> ± 0.63

**Appendix 5:** Abundance of small plastic debris according to tidal zone in quantity (items/m<sup>2</sup>) and density (g/m<sup>2</sup>).

**Quantity (items/m<sup>2</sup>)**

Sampling sites	Low Tide			High Tide			Berm		
	January	February	March	January	February	March	January	February	March
1. Teluk Kemang Beach	21 ± 3	31 ± 3	25 ± 5	72 ± 13	72 ± 10	83 ± 6	125 ± 19	141 ± 26	121 ± 13
2. Pasir Panjang Beach	72 ± 16	43 ± 4	0 ± 0	143 ± 28	107 ± 12	144 ± 7	13 ± 4	77 ± 10	35 ± 1
3. Batu Burok Beach	156 ± 32	64 ± 6	68 ± 9	175 ± 10	192 ± 27	176 ± 17	733 ± 47	632 ± 150	144 ± 23
4. Seberang Takir Beach	344 ± 52	332 ± 4	0 ± 0	604 ± 49	420 ± 110	180 ± 45	216 ± 17	191 ± 30	348 ± 87
5. Tanjung Aru Beach	9 ± 3	16 ± 2	7 ± 3	28 ± 2	51 ± 6	28 ± 6	145 ± 15	147 ± 15	145 ± 11
6. Teluk Likas Beach	187 ± 2	85 ± 19	55 ± 11	23 ± 9	59 ± 12	81 ± 5	29 ± 6	119 ± 20	109 ± 23

**Density (g/m<sup>2</sup>)**

Sampling sites	Low Tide			High Tide			Berm		
	January	February	March	January	February	March	January	February	March
1. Teluk Kemang Beach	3.03 ± 0.64	3.56 ± 0.92	5.43 ± 1.29	13.20 ± 2.92	18.72 ± 3.28	15.10 ± 0.32	15.42 ± 1.08	16.93 ± 3.40	11.93 ± 2.50
2. Pasir Panjang Beach	12.97 ± 4.10	4.95 ± 0.15	0.00 ± 0.00	9.42 ± 1.87	9.17 ± 0.35	7.05 ± 0.24	2.85 ± 1.22	8.49 ± 1.14	5.88 ± 0.71
3. Batu Burok Beach	7.41 ± 1.67	6.43 ± 1.28	6.64 ± 0.90	19.12 ± 1.51	30.15 ± 5.53	33.16 ± 10.40	20.43 ± 1.67	72.94 ± 14.48	8.64 ± 0.18
4. Seberang Takir Beach	6.20 ± 0.45	67.47 ± 13.77	0.00 ± 0.00	20.88 ± 3.24	79.04 ± 29.34	19.36 ± 4.49	5.92 ± 0.47	9.27 ± 0.79	36.68 ± 1.02
5. Tanjung Aru Beach	10.83 ± 3.32	0.70 ± 0.18	0.63 ± 0.27	3.01 ± 0.19	2.51 ± 0.47	3.90 ± 1.56	6.31 ± 1.08	17.16 ± 0.83	11.29 ± 1.76
6. Teluk Likas Beach	28.42 ± 1.13	3.25 ± 0.64	9.65 ± 2.41	7.87 ± 3.31	20.67 ± 4.20	17.30 ± 2.82	4.25 ± 0.94	20.51 ± 4.02	13.75 ± 1.94

**Appendix 6:** Total abundance of small plastic debris according to size in quantity (items/m<sup>2</sup>) and density (g/m<sup>2</sup>).

**Total quantity (items/m<sup>2</sup>)**

Sampling sites	>4.75 mm			2.80 - 4.75 mm			1.00 - 2.80 mm		
	January	February	March	January	February	March	January	February	March
1. Teluk Kemang Beach	154 ± 11	229 ± 18	193 ± 10	44 ± 4	15 ± 2	36 ± 3	21 ± 3	0 ± 0	0 ± 0
2. Pasir Panjang Beach	165 ± 11	204 ± 9	179 ± 17	13 ± 2	23 ± 2	0 ± 0	49 ± 11	0 ± 0	0 ± 0
3. Batu Burok Beach	652 ± 27	640 ± 51	296 ± 16	321 ± 41	140 ± 27	64 ± 6	91 ± 17	108 ± 26	28 ± 5
4. Seberang Takir Beach	783 ± 41	656 ± 36	292 ± 24	381 ± 28	199 ± 20	144 ± 12	0 ± 0	88 ± 10	92 ± 10
5. Tanjung Aru Beach	164 ± 15	148 ± 11	116 ± 10	19 ± 2	41 ± 4	41 ± 5	0 ± 0	24 ± 4	23 ± 5
6. Teluk Likas Beach	239 ± 21	261 ± 16	232 ± 13	0 ± 0	1 ± 0	13 ± 2	0 ± 0	0 ± 0	0 ± 0

**Total density (g/m<sup>2</sup>)**

Sampling sites	>4.75 mm			2.80 - 4.75 mm			1.00 - 2.80 mm		
	January	February	March	January	February	March	January	February	March
1. Teluk Kemang Beach	25.97 ± 1.76	39.18 ± 3.00	30.56 ± 1.66	3.44 ± 0.39	0.02 ± 0.00	1.90 ± 0.19	2.23 ± 0.37	0.00 ± 0.00	0.00 ± 0.00
2. Pasir Panjang Beach	22.55 ± 2.32	22.39 ± 0.76	12.93 ± 0.90	2.67 ± 0.52	0.22 ± 0.03	0.00 ± 0.00	0.03 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
3. Batu Burok Beach	44.42 ± 2.04	107.96 ± 10.33	47.97 ± 6.11	2.11 ± 0.29	1.17 ± 0.28	0.44 ± 0.04	0.43 ± 0.08	0.38 ± 0.09	0.04 ± 0.01
4. Seberang Takir Beach	29.80 ± 2.55	150.16 ± 17.12	36.24 ± 4.50	3.20 ± 0.58	5.16 ± 1.11	1.05 ± 0.17	0.00 ± 0.00	0.46 ± 0.10	0.08 ± 0.01
5. Tanjung Aru Beach	18.68 ± 1.93	19.60 ± 1.96	15.47 ± 1.66	1.47 ± 0.22	0.73 ± 0.09	0.31 ± 0.04	0.00 ± 0.00	0.03 ± 0.00	0.04 ± 0.01
6. Teluk Likas Beach	40.54 ± 3.35	44.19 ± 3.61	40.69 ± 2.25	0.00 ± 0.00	0.24 ± 0.06	0.01 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.01

**Appendix 7:** Abundance of small plastic debris according to size at low tide in quantity (items/m<sup>2</sup>) and density (g/m<sup>2</sup>).

**Quantity (items/m<sup>2</sup>) at low tide area**

Sampling sites	>4.75 mm			2.80 - 4.75 mm			1.00 - 2.80 mm		
	January	February	March	January	February	March	January	February	March
1. Teluk Kemang Beach	19 ± 3	23 ± 4	25 ± 5	3 ± 1	8 ± 2	0 ± 0	0 ± 0	0 ± 0	0 ± 0
2. Pasir Panjang Beach	61 ± 12	43 ± 4	0 ± 0	7 ± 3	0 ± 0	0 ± 0	4 ± 2	0 ± 0	0 ± 0
3. Batu Burok Beach	156 ± 32	64 ± 6	52 ± 5	0 ± 0	0 ± 0	16 ± 5	0 ± 0	0 ± 0	0 ± 0
4. Seberang Takir Beach	284 ± 50	216 ± 12	0 ± 0	60 ± 12	64 ± 9	0 ± 0	0 ± 0	16 ± 1	0 ± 0
5. Tanjung Aru Beach	9 ± 3	16 ± 2	7 ± 3	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0
6. Teluk Likas Beach	187 ± 2	85 ± 19	55 ± 11	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0

**Density (g/m<sup>2</sup>) at low tide area**

Sampling sites	>4.75 mm			2.80 - 4.75 mm			1.00 - 2.80 mm		
	January	February	March	January	February	March	January	February	March
1. Teluk Kemang Beach	2.87 ± 0.61	3.54 ± 0.92	5.43 ± 1.29	0.16 ± 0.04	0.01 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
2. Pasir Panjang Beach	12.38 ± 3.85	4.95 ± 0.15	0.00 ± 0.00	0.58 ± 0.25	0.00 ± 0.00	0.00 ± 0.00	0.0013 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
3. Batu Burok Beach	7.41 ± 1.67	6.43 ± 1.28	6.49 ± 0.88	0.00 ± 0.00	0.00 ± 0.00	0.16 ± 0.04	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
4. Seberang Takir Beach	5.97 ± 0.39	66.97 ± 13.88	0.00 ± 0.00	0.23 ± 0.07	0.48 ± 0.11	0.00 ± 0.00	0.00 ± 0.00	0.02 ± 0.003	0.00 ± 0.00
5. Tanjung Aru Beach	10.83 ± 3.32	0.70 ± 0.18	0.63 ± 0.27	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
6. Teluk Likas Beach	28.42 ± 1.13	3.25 ± 0.64	9.65 ± 2.41	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00

**Appendix 8:** Abundance of small plastic debris according to size at high tide in quantity (items/m<sup>2</sup>) and density (g/m<sup>2</sup>).

**Quantity (items/m<sup>2</sup>) at high tide area**

Sampling sites	>4.75 mm			2.80 - 4.75 mm			1.00 - 2.80 mm		
	January	February	March	January	February	March	January	February	March
1. Teluk Kemang Beach	40 ± 5	72 ± 10	69 ± 3	16 ± 5	0 ± 0	13 ± 3	16 ± 4	0 ± 0	0 ± 0
2. Pasir Panjang Beach	91 ± 7	93 ± 11	144 ± 7	7 ± 2	13 ± 3	0 ± 0	45 ± 20	0 ± 0	0 ± 0
3. Batu Burok Beach	175 ± 10	180 ± 23	152 ± 17	0 ± 0	12 ± 5	24 ± 6	0 ± 0	0 ± 0	0 ± 0
4. Seberang Takir Beach	332 ± 50	268 ± 59	92 ± 11	272 ± 2	96 ± 36	56 ± 14	0 ± 0	44 ± 17	32 ± 9
5. Tanjung Aru Beach	28 ± 2	28 ± 2	23 ± 5	0 ± 0	23 ± 5	5 ± 2	0 ± 0	0 ± 0	0 ± 0
6. Teluk Likas Beach	23 ± 9	59 ± 12	81 ± 5	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0	0 ± 0

**Density (g/m<sup>2</sup>) at high tide area**

Sampling sites	>4.75 mm			2.80 - 4.75 mm			1.00 - 2.80 mm		
	January	February	March	January	February	March	January	February	March
1. Teluk Kemang Beach	10.85 ± 2.51	18.72 ± 3.28	14.11 ± 0.50	0.12 ± 0.03	0.00 ± 0.00	1.00 ± 0.22	2.23 ± 0.50	0.00 ± 0.00	0.00 ± 0.00
2. Pasir Panjang Beach	7.31 ± 1.00	9.00 ± 0.32	7.05 ± 0.24	2.09 ± 0.91	0.17 ± 0.05	0.00 ± 0.00	0.013 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
3. Batu Burok Beach	19.12 ± 1.51	30.14 ± 5.53	32.91 ± 10.39	0.00 ± 0.00	0.01 ± 0.00	0.25 ± 0.05	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
4. Seberang Takir Beach	18.05 ± 4.05	74.10 ± 27.21	19.28 ± 4.47	2.83 ± 0.94	4.52 ± 1.95	0.08 ± 0.03	0.00 ± 0.00	0.42 ± 0.17	0.02 ± 0.00
5. Tanjung Aru Beach	3.01 ± 0.19	2.18 ± 0.38	3.90 ± 1.56	0.00 ± 0.00	0.33 ± 0.10	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
6. Teluk Likas Beach	7.87 ± 3.31	20.67 ± 4.20	17.30 ± 2.82	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00

**Appendix 9:** Abundance of small plastic debris according to size at berm in quantity (items/m<sup>2</sup>) and density (g/m<sup>2</sup>).

**Quantity (items/m<sup>2</sup>) at berm area**

Sampling sites	>4.75 mm			2.80 - 4.75 mm			1.00 - 2.80 mm		
	January	February	March	January	February	March	January	February	March
1. Teluk Kemang Beach	95 ± 14	135 ± 24	99 ± 9	25 ± 5	7 ± 3	23 ± 4	5 ± 1	0 ± 0	0 ± 0
2. Pasir Panjang Beach	13 ± 4	68 ± 9	35 ± 1	0 ± 0	9 ± 2	0 ± 0	0 ± 0	0 ± 0	0 ± 0
3. Batu Burok Beach	321 ± 17	396 ± 66	92 ± 14	321 ± 20	128 ± 45	24 ± 8	91 ± 27	108 ± 44	28 ± 8
4. Seberang Takir Beach	167 ± 18	124 ± 16	200 ± 18	49 ± 3	39 ± 8	88 ± 8	0 ± 0	28 ± 10	60 ± 13
5. Tanjung Aru Beach	127 ± 14	104 ± 8	87 ± 6	19 ± 2	19 ± 3	36 ± 4	0 ± 0	24 ± 4	23 ± 5
6. Teluk Likas Beach	29 ± 6	117 ± 19	96 ± 21	0 ± 0	1 ± 0	13 ± 3	0 ± 0	0 ± 0	0 ± 0

**Density (g/m<sup>2</sup>) at berm area**

Sampling sites	>4.75 mm			2.80 - 4.75 mm			1.00 - 2.80 mm		
	January	February	March	January	February	March	January	February	March
1. Teluk Kemang Beach	12.26 ± 0.97	16.92 ± 3.39	11.03 ± 2.34	3.16 ± 0.18	0.01 ± 0.00	0.90 ± 0.19	0.01 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
2. Pasir Panjang Beach	2.85 ± 1.22	8.44 ± 1.13	5.88 ± 0.71	0.00 ± 0.00	0.05 ± 0.01	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
3. Batu Burok Beach	17.88 ± 1.95	71.39 ± 13.87	8.57 ± 0.19	2.11 ± 0.24	1.17 ± 0.47	0.03 ± 0.01	0.43 ± 0.12	0.38 ± 0.15	0.04 ± 0.01
4. Seberang Takir Beach	5.78 ± 0.48	9.09 ± 0.83	16.96 ± 1.21	0.14 ± 0.01	0.16 ± 0.04	0.97 ± 0.26	0.00 ± 0.00	0.03 ± 0.01	0.07 ± 0.02
5. Tanjung Aru Beach	4.84 ± 0.88	16.73 ± 0.75	10.94 ± 1.80	1.47 ± 0.22	0.40 ± 0.12	0.31 ± 0.04	0.00 ± 0.00	0.03 ± 0.00	0.04 ± 0.01
6. Teluk Likas Beach	4.25 ± 0.94	20.27 ± 3.93	13.74 ± 1.94	0.00 ± 0.00	0.24 ± 0.10	0.01 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00

**Appendix 10:** *Total abundance of plastic debris collected at each beach/sampling site.*

<b>Total quantity of plastic pieces (items/m<sup>2</sup>) collected at each beach/sampling site</b>				
Sampling sites	R1	R2	R3	Mean
	January	February	March	
1. Teluk Kemang Beach	219	244	229	231
2. Pasir Panjang Beach	228	227	179	211
3. Batu Burok Beach	1064	888	388	780
4. Seberang Takir Beach	1164	944	528	879
5. Tanjung Aru Beach	183	213	180	192
6. Teluk Likas Beach	239	263	245	249
<b>Total</b>	<b>3097</b>	<b>2779</b>	<b>1749</b>	<b>2542</b>

<b>Total density of plastic pieces (g/m<sup>2</sup>) collected at each beach/sampling site</b>				
Sampling sites	R1	R2	R3	Mean
	January	February	March	
1. Teluk Kemang Beach	31.65	39.21	32.46	34.44
2. Pasir Panjang Beach	25.24	22.61	12.93	20.26
3. Batu Burok Beach	46.97	109.51	48.44	68.31
4. Seberang Takir Beach	33.00	155.78	56.08	81.62
5. Tanjung Aru Beach	20.16	20.37	15.82	18.78
6. Teluk Likas Beach	40.54	44.43	40.71	41.89
<b>Total</b>	<b>197.56</b>	<b>391.91</b>	<b>206.44</b>	<b>265.30</b>