**Identification of Microplastic Abundance in Bandung City Water Treatment Plant Using the SCS (Size and Color Sorting) Method**

Identification of Microplastic Greyndance in Water Treatment Plant A

| **Sample Name** | **Category** | **Size****(mm)** | **Type** | **Color** | **Total** | **Code** |
| --- | --- | --- | --- | --- | --- | --- |
| Prased | MMP | 0,5 | film | black | 1 | MMP/0,5/BK/1 |
|  | MMP | 0,5 | film | Grey | 1 | MMP/0,5/GY/1 |
|  | MMP | 0,25 | fragmen | Black | 1 | MMP/0,25/BK/1 |
|  | MP | 1 | fiber | Green | 1 | MP/1/GN/1 |
|  | MMP | 0,1 | fiber | Black | 1 | MMP/0,1/BK/1 |
|  | MP | 1 | fiber | Black | 1 | MP/1/BK/1 |
|  | MMP | 0,6 | fiber | Transparant | 1 | MMP/0,6/TP/1 |
|  | MMP | 0,7 | fiber | Black | 1 | MMP/0,7/BK/1 |
|  | MMP | 0,5 | fiber | Black | 1 | MMP/0,5/BK/1 |
|  | MMP | 0,1 | fiber | Black | 1 | MMP/0,1/BK/1 |
|  | MMP | 0,25 | fiber | Transparant | 1 | MMP/0,25/TP/1 |
|  | MMP | 0,5 | fiber | Blue | 1 | MMP/0,5/BL/1 |
|  | MMP | 0,4 | fiber | Transparant | 1 | MMP/0,4/TP/1 |
|  | MMP | 0,6 | fiber | Red | 1 | MMP/0,6/RD/1 |
|  | MMP | 0,3 | fiber | Black | 1 | MMP/0,3/BK/1 |
|  | MP | 1 | fiber | Blue | 1 | MP/1/BL/1 |
|  | MP | 1 | fiber | Red | 1 | MP/1/RD/1 |
|  | MMP | 0,3 | fiber | Transparant | 1 | MMP/0,3/TP/1 |
|  | MMP | 0,6 | fiber | Grey | 1 | MMP/0,6/GY/1 |
|  | MMP | 0,4 | fiber | Black | 1 | MMP/0,4/BK/1 |
|  | MP | 1 | fiber | Black | 1 | MP/1/BK/1 |
|  | MP | 1 | fiber | Grey | 1 | MP/1/GY/1 |
|  | MMP | 0,1 | fiber | Black | 1 | MMP/0,1/BK/1 |
|  | MMP | 0,2 | fiber | Grey | 1 | MMP/0,2/GY/1 |
|  | MMP | 0,1 | fiber | Grey | 3 | MMP/0,1/GY/3 |
|  | MMP | 0,1 | fiber | Transparant | 1 | MMP/0,1/TP/1 |
|  | MMP | 0,4 | fiber | Green | 1 | MMP/0,4/GN/1 |
|  | MP | 1 | fiber | Grey | 2 | MP/1/GY/2 |
|  | MMP | 0,1 | fiber | Red | 1 | MMP/0,1/RD/1 |
|  | MMP | 0,2 | fiber | Black | 1 | MMP/0,2/BK/1 |
|  | MMP | 0,2 | fiber | Grey | 2 | MMP/0,2/GY/1 |
|  | MMP | 0,1 | fiber | Transparant | 1 | MMP/0,1/TP/1 |
|  | MP | 1 | fiber | Grey | 1 | MP/1/GY/1 |
|  | MP | 1 | fiber | Green | 1 | MP/1/GN/1 |
| Coa-Flocc | MMP | 0,05 | fragmen | Green | 1 | MMP/0,05/GN/1 |
|  | MMP | 0,2 | fiber | Transparant | 1 | MMP/0,2/TP/1 |
|  | MP | 1 | fiber | Green | 1 | MP/1/GN/1 |
|  | MMP | 0,1 | fiber | Transparant | 1 | MMP/0,1/TP/1 |
|  | MMP | 0,5 | fiber | Transparant | 1 | MMP/0,5/TP/1 |
|  | MMP | 0,3 | fiber | Black | 1 | MMP/0,3/BK/1 |
|  | MMP | 0,1 | fiber | Black | 1 | MMP/0,1/BK/1 |
|  | MMP | 0,1 | fiber | Red | 1 | MMP/0,1/RD/1 |
|  | MMP | 0,15 | fiber | Transparant | 1 | MMP/0,15/TP/1 |
|  | MMP | 1 | fiber | Green | 1 | MMP/1/GN/1 |
|  | MMP | 0,5 | fiber | Grey | 1 | MMP/0,5/GY/1 |
|  | MMP | 0,3 | fiber | Black | 1 | MMP/0,3/BK/1 |
|  | MMP | 0,4 | fiber | Blue | 1 | MMP/0,4/BL/1 |
|  | MP | 1 | fiber | Black | 1 | MP/1/BK/1 |
|  | MP | 1 | fiber | grey | 3 | MP/1/GY/3 |
|  | MMP | 0,1 | fiber | Transparant | 1 | MMP/0,1/TP/1 |
| Sedimentation | MMP | 0,1 | fiber | Black | 1 | MMP/0,1/BK/1 |
|  | MP | 1 | fiber | Black | 2 | MP/1/BK/1 |
|  | MP | 1 | fiber | Transparant | 1 | MP/1/TP/1 |
|  | MMP | 0,4 | fiber | Black | 1 | MMP/0,4/BK/1 |
|  | MMP | 0,3 | fiber | Transparant | 1 | MMP/0,3/TP/1 |
|  | MMP | 0,5 | fiber | Transparant | 1 | MMP/0,5/TP/1 |
|  | MMP | 0,2 | fiber | Blue | 1 | MMP/0,2/BL/1 |
|  | MMP | 0,3 | fiber | Black | 1 | MMP/0,3/BK/1 |
|  | MMP | 0,7 | fiber | Red | 1 | MMP/0,7/RD/1 |
|  | MP | 1 | fiber | Black | 1 | MP/1/BK/1 |
|  | MMP | 0,15 | fiber | Black | 1 | MMP/0,15/BK/1 |
|  | MP | 1 | fiber | Red | 1 | MP/1/RD/1 |
|  | MMP | 0,5 | fiber | Transparant | 1 | MMP/0,5/TP/1 |
|  | MMP | 0,6 | fiber | Blue | 1 | MMP/0,6/BL/1 |
|  | MMP | 0,4 | fiber | Black | 1 | MMP/0,4/BK/1 |
|  | MP | 1 | fiber | Black | 1 | MP/1/BK/1 |
|  | MMP | 0,2 | fiber | Black | 1 | MMP/0,2/BK/1 |
|  | MMP | 0,25 | fiber | Red | 1 | MMP/0,25/RD/1 |
| Filtration | MMP | 0,8 | fiber | Red | 1 | MMP/0,8/RD/1 |
|  | MMP | 0,3 | fiber | Black | 1 | MMP/0,3/BK/1 |
|  | MMP | 0,4 | fiber | Red | 1 | MMP/0,4/RD/1 |
|  | MP | 1 | fiber | Black | 1 | MP/1/BK/1 |
|  | MP | 1 | fiber | Green | 1 | MP/1/GN/1 |
|  | MP | 1 | fiber | Red | 1 | MP/1/RD/1 |
|  | MMP | 0,2 | fiber | Grey | 1 | MMP/0,2/GY/1 |
|  | MMP | 0,5 | fiber | Grey | 1 | MMP/0,5/GY/1 |
|  | MMP | 0,6 | fiber | Grey | 1 | MMP/0,6/GY/1 |
|  | MMP | 0,1 | fiber | Black | 1 | MMP/0,1/BK/1 |
|  | MMP | 0,3 | fiber | Transparant | 1 | MMP/0,3/TP/1 |
|  | MMP | 0,4 | fiber | Coklat | 1 | MMP/0,4/BN/1 |
|  | MMP | 0,2 | fiber | Blue | 1 | MMP/0,2/BL/1 |
|  | MMP | 0,2 | fiber | Black | 1 | MMP/0,2/BK/1 |
|  | MMP | 0,9 | fiber | Red | 1 | MMP/0,9/RD/1 |
|  | MMP | 0,1 | fiber | Black | 1 | MMP/0,1/BK/1 |
|  | MMP | 0,5 | fiber | Blue | 1 | MMP/0,5/BL/1 |
|  | MMP | 0,9 | fiber | Blue | 1 | MMP/0,9/BL/1 |
|  | MMP | 0,4 | fiber | Blue | 1 | MMP/0,4/BL/1 |
| Reservoir | MMP | 0,2 | fragmen | Yellow | 1 | MMP/0,2/YL/1 |
|  | MMP | 0,1 | fiber | Green | 1 | MMP/0,1/GN/1 |
|  | MMP | 0,4 | fiber | Red | 1 | MMP/0,4/RD/1 |
|  | MMP | 0,7 | fiber | Red | 1 | MMP/0,7/RD/1 |
|  | MMP | 0,8 | fiber | Black | 1 | MMP/0,8/BK/1 |
|  | MP | 1 | fiber | Black | 1 | MP/1/BK/1 |
|  | MMP | 0,4 | fiber | Red | 1 | MMP/0,4/RD/1 |
|  | MMP | 0,2 | fiber | Green | 1 | MMP/0,2/GN/1 |
|  | MMP | 0,6 | fiber | Black | 1 | MMP/0,6/BK/1 |
|  | MMP | 0,8 | fiber | Black | 1 | MMP/0,8/BK/1 |
|  | MMP | 0,3 | fiber | Black | 1 | MMP/0,3/BK/1 |
|  | MMP | 0,9 | fiber | Green | 2 | MMP/0,9/GN/2 |

Identification of Microplastic Greyndance in Water Treatment Plant B

| **Nama Sampel** | **Kategori** | **Ukuran****(mm)** | **Jenis** | **Warna** | **Jumlah** | **Kode** |
| --- | --- | --- | --- | --- | --- | --- |
| Prased | MMP | 0,4 | fiber | Red | 3 | MMP/0,4/RD/3 |
|  | MMP | 0,3 | fiber | Red | 6 | MMP/0,3/RD/6 |
|  | MMP | 0,9 | fiber | Blue | 1 | MMP/0,9/BL/1 |
|  | MMP | 0,7 | fiber | Black | 1 | MMP/0,7/BK/1 |
|  | MMP | 0,5 | fiber | Grey | 1 | MMP/0,5/GY/1 |
|  | MMP | 0,1 | fiber | Grey | 1 | MMP/0,1/GY/1 |
|  | MMP | 0,5 | fiber | Grey | 1 | MMP/0,5/GY/1 |
|  | MMP | 0,2 | fiber | Black | 1 | MMP/0,2/BK/1 |
|  | MMP | 0,6 | fiber | Black | 1 | MMP/0,6/BK/1 |
|  | MMP | 0,5 | fiber | Yellow | 1 | MMP/0,5/YL/1 |
|  | MMP | 0,7 | fiber | Red | 1 | MMP/0,7/RD/1 |
|  | MMP | 0,1 | fiber | Black | 1 | MMP/0,1/BK/1 |
|  | MMP | 0,3 | fiber | Black | 1 | MMP/0,3/BK/1 |
|  | MMP | 0,7 | fiber | Black | 1 | MMP/0,7/BK/1 |
|  | MMP | 0,8 | fiber | Yellow | 1 | MMP/0,8/YL/1 |
|  | MMP | 0,1 | fiber | Transparant | 2 | MMP/0,1/TP/1 |
| Coa Flocc | MMP | 0,1 | fiber | Grey | 1 | MMP/0,1/GY/1 |
|  | MP | 1 | fiber | Grey | 1 | MP/1/GY/1 |
|  | MMP | 0,5 | fiber | Red | 1 | MMP/0,5/RD/1 |
|  | MMP | 0,8 | fiber | Green | 1 | MMP/0,8/GN/1 |
|  | MP | 1 | fiber | Grey | 1 | MP/1/GY/1 |
|  | MMP | 0,8 | fiber | Green | 1 | MMP/0,8/GN/1 |
|  | MP | 1 | fiber | Transparant | 1 | MP/1/TP/1 |
|  | MMP | 0,5 | fiber | Transparant | 1 | MMP/0,5/TP/1 |
|  | MMP | 0,3 | fiber | Black | 1 | MMP/0,3/BK/1 |
|  | MMP | 0,1 | fiber | Red | 1 | MMP/0,1/RD/1 |
|  | MP | 1 | fiber | Grey | 1 | MP/1/GY/1 |
|  | MMP | 0,8 | fiber | Transparant | 1 | MMP/0,8/TP/1 |
|  | MMP | 0,2 | fiber | Transparant | 3 | MMP/0,2/TP/3 |
|  | MMP | 0,1 | fiber | Green | 1 | MMP/0,1/GN/1 |
|  | MMP | 0,1 | fiber | Transparant | 1 | MMP/0,1/TP/1 |
|  | MMP | 0,1 | fiber | Grey | 1 | MMP/0,1/GY/1 |
| Sedimentation | MMP | 0,5 | fiber | Green | 1 | MMP/0,05/GN/1 |
|  | MMP | 0,1 | fiber | Black | 1 | MMP/0,1/BK/1 |
|  | MP | 1 | fiber | Red | 1 | MP/1/RD/1 |
|  | MMP | 0,8 | fiber | Red | 1 | MMP/0,8/RD/1 |
|  | MMP | 0,7 | fiber | Red | 1 | MMP/0,7/RD/1 |
|  | MMP | 0,8 | fiber | grey | 2 | MMP/0,8/GY/2 |
|  | MMP | 0,9 | fiber | black | 1 | MMP/0,9/BK/1 |
|  | MP | 1 | fiber | transparant | 3 | MP/1/TP/3 |
|  | MMP | 0,3 | fiber | red | 1 | MMP/0,3/RD/1 |
|  | MMP | 0,5 | fiber | blue | 1 | MMP/0,5/BL/1 |
|  | MMP | 0,3 | fiber | green | 1 | MMP/0,3/GN/1 |
| Filtration | MMP | 0,4 | fiber | black | 3 | MMP/0,4/BK/1 |
|  | MMP | 0,2 | fiber | red | 1 | MMP/0,2/RD/1 |
|  | MMP | 0,5 | fiber | transparant | 1 | MMP/0,5/TP/1 |
|  | MMP | 0,1 | fiber | transparant | 1 | MMP/0,1/TP/1 |
|  | MMP | 0,9 | fiber | grey | 1 | MMP/0,9/GY/1 |
|  | MMP | 0,6 | fiber | yellow | 1 | MMP/0,6/YL/1 |
|  | MMP | 0,3 | fiber | black | 1 | MMP/0,3/BK/1 |
|  | MMP | 0,3 | fiber | red | 1 | MMP/0,3/RD/1 |
|  | MMP | 0,2 | fiber | yellow | 1 | MMP/0,2/YL/1 |
|  | MMP | 0,1 | fiber | black | 1 | MMP/0,1/BK/1 |
|  | MMP | 0,5 | fiber | black | 1 | MMP/0,5/BK/1 |
|  | MMP | 0,6 | fiber | grey | 1 | MMP/0,6/GY/1 |
|  | MP | 1 | fiber | grey | 1 | MP/1/GY/1 |
|  | MP | 1 | fiber | green | 1 | MP/1/GN/1 |
| Reservoir | MP | 1 | fiber | black | 1 | MP/1/BK/1 |
|  | MMP | 0,1 | fiber | green | 1 | MMP/0,1/GN/1 |
|  | MMP | 0,2 | fiber | red | 1 | MMP/0,2/RD/1 |
|  | MP | 1 | fiber | grey | 1 | MP/1/GY/1 |
|  | MP | 1 | fiber | transparant | 2 | MP/1/TP/2 |
|  | MMP | 0,4 | fiber | transparant | 1 | MMP/0,4/TP/1 |
|  | MMP | 0,1 | fiber | grey | 1 | MMP/0,1/GY/1 |
|  | MMP | 0,9 | fiber | grey | 1 | MMP/0,9/GY/1 |

\*MP : Microplastis, MMP : Mini Microplastic

**Zeta Potential Test Result**

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