

TRAYNOR ENVIRONMENTAL LTD

EPA SEWAGE LOADING SIZING CHART - BRIAN DUNNE

| Situation | Source | Litres/day Person | BOD5 g/d Person | PE Organic Loading | Number of Persons | Population (Organic) | Hydraulic Loading (Lit) | Organic Loading (gr) | Population (Hydraulic) |
|-----------------|--|----------------------|--------------------|-----------------------|----------------------|-------------------------|----------------------------|-------------------------|---------------------------|
| Domestic | Normal Resident | 150 | 60 | 1.00 | 6 | 6 | 900 | 360 | 6.00 |
| Industrial | Office and/or factory without canteen | 30 | 20 | 0.33 | | 0 | 0 | 0 | 0.00 |
| | Office and/or factory with canteen | 60.0 | 30.0 | 0.5 | | 0 | 0 | 0 | 0.00 |
| | Open Industrial Site e.g. Quarry | 40.0 | 25.0 | 0.4 | | 0 | 0 | 0 | 0.00 |
| School | Non- residential with cooking on-site Students | 60.0 | 30.0 | 0.5 | | 0 | 0 | 0 | 0.00 |
| 6hr Shock | Non-residential with no-cooking on site | 35 | 20 | 0.33 | | 0 | 0 | 0 | 0.00 |
| Football clubs | Players incl. showers | 30 | 20 | 0.33 | | 0 | 0 | 0 | 0.00 |
| | Spectators - Toilet blocks | 8 | 10 | 0.17 | | 0 | 0 | 0 | 0.00 |
| Amenity Sites | Restuarants | 15 | 15 | 0.25 | | 0 | 0 | 0 | 0.00 |
| | Function rooms | 10 | 10 | 0.17 | | 0 | 0 | 0 | 0.00 |
| | Toilet blocks (per use) | 8 | 10 | 0.17 | | 0 | 0 | 0 | 0.00 |
| | Toilet blocks (long stay car parks) | 10 | 15 | 0.25 | | 0 | 0 | 0 | 0.00 |
| | Golf clubs | 25 | 15 | 0.25 | | 0 | 0 | 0 | 0.00 |
| | Squash, with club house | 25 | 15 | 0.25 | | 0 | 0 | 0 | 0.00 |
| | Swimming | 10 | 10 | 0.17 | | 0 | 0 | 0 | 0.00 |
| | | | | | | 6 | 900 | 360 | 6.00 |

| Loadings | |
|----------------|--------|
| Population Org | 6.00PE |
| Hydraulically | 6.00PE |

Treatment System Proposed: O'Reilly Oakstown Treatment System, Sand Filter & Gravel Base