Appendix D

OVER STRENGTH DISCHARGE FEES (ODFS) CALCULATION FORMULA

Type I ODF Formula – Unit Cost per Kilogram

4.2.1 Type I Formula – Unit Cost per Kilogram

The Type I formula is based on the cost to treat a unit (kg) of the surchargeable parameter and is applied to additional units (kg) of the parameter received above the applicable sewers bylaw limit. The ODF is additive for each parameter received above the applicable sewers bylaw limit.

Type I – Unit Cost per Kilogram

$$ODF = \sum_{i=1}^{n} (Actual\ average\ Concentration, mg/L - BylawLimit, mg/L) \times \frac{Volume\ (m^3)}{1,000} \times R_{kg}\ (\$/kg)$$

Where,

i = surchargeable parameter

n = number of surchargeable parameters

Actual concentration = measured average concentration in the effluent of the discharger, mg/L

Bylaw Limit = Sewers Bylaw limit, mg/L

Volume = total flow discharged into the sewer during the invoice period, m^3

R_{kg} = unit cost per kilogram of parameter being treated, $ / kg

For further details, see subsection 4.2.1 of Stantec's *Over Strength Surcharge Review Final Report for Toronto Water, City of Toronto, June, 2012*