

TABLE 5.4-2 (New, April 2003)

Potential Impact of Proposed Cogeneration Project On The Existing Refinery Wastewater  
Discharge To Outfall 001 To The Strait Of Georgia

Parameter	Cogen Project contribution (averages, converted to unit of measure used in NPDES limit)	Percent increase due to Cogen contribution	Combined Flow, Percent of NPDES Limit
Discharged Flow (gpm)	190	8.1%	NL
Discharged Flow (mgd)	0.27	8.1%	NL
Production (bbls/day)	---	---	NL
Temperature (°F, max.)	---	---	a
Biochemical Oxygen Demand (lbs/day)	132	1.0%	22%
Chemical Oxygen Demand (lbs/day)	323	0.6%	26%
Total Suspended Solids (lbs/day)	98	14.9%	50%
Oil & Grease (lbs/day)	3.0	0.1%	32%
Phenolic compounds (lbs/day)	0.0	0.0%	27%
Ammonia as N (lbs/day)	0.0	0.0%	13%
Sulfide (lbs/day)	0.0	0.0%	10%
Total Chromium (lbs/day) (d)	.32(1.45)	b	2.6%(12%)
Hexavalent Chromium (lbs/day)	0.0	0.0%	0%
Fecal Coliform (organisms/100mls)	0.0%	0.0%	0%
pH (maximum)	6.5-9.5	-1.0%	c

(a) No Change

(b) Not calculated because demoninator equals zero

(c) Not calculated because pH is a logarithmic scale

(d) The number provided is the long term average. The number in the parentheses is the 1<sup>st</sup> year average, due to potential leachate from the treated timbers used in the cooling tower construction.