

ITEM	4
MANAGER'S REPORT NO.	30
COUNCIL MEETING	1979 04 17

RE: COUNCIL ENQUIRIES
 (a) BURRARD INLET ODOUR
 (b) EMISSIONS OF OXIDES OF NITROGEN
 CHEVRON CANADA LIMITED
 REFINERY EXPANSION PROGRAM

Attached to the following report from the Chief Public Health Inspector is a letter from Mr. J. Barrie Mills of the G.V.R.D.'s Pollution Control Division. His letter provides additional information on two items that have been considered by Council on previous occasions, namely:

- (a) Burrard Inlet Odour
 (Item 9, Report No. 20, 1979 March 12)

On 1979 January 02, Council enquired about the odour in the area adjacent to the Burrard Inlet. Council, during discussion of a report that was received on 1979 March 12, correctly noted that the G.V.R.D. had not submitted information on readings at the Kensington Air Monitoring Station, as had been requested. (Council asked for readings that were recorded on 1979 January 01, the day of the upset, and readings for days of normal operation.)

- (b) Chevron Canada Limited
 Emission of Oxides of Nitrogen
 (Item 1, Report No. 20, 1979 March 12)

On 1979 March 12, Council received a report on the modernization and expansion program at Chevron. Discussion of this matter on that occasion resulted in a request for information on the emission of oxides of nitrogen from the modernized refinery, and more specifically, on the levels of such emissions and if they were taken into consideration by the G.V.R.D. at the time that a pollution permit was being prepared for this facility.

RECOMMENDATION:

1. THAT the report from the Chief Public Health Inspector be received for information purposes.

* * * * *

TO: MUNICIPAL MANAGER 79 04 10
 FROM: CHIEF PUBLIC HEALTH INSPECTOR
 RE: BURRARD INLET ODOUR - 1979 JANUARY 01
 COUNCIL ENQUIRY
 (ITEM 9, MUNICIPAL MANAGER'S REPORT NO. 20, 1979 03 12)

RECOMMENDATION

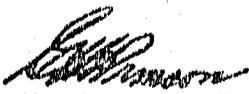
THAT this report be received for the information of Council.

REPORT

Further to the Council enquiry arising from the above-noted report, we are attaching a self-explanatory letter as received from J. Barrie Mills, P. Eng., Pollution Control, Greater Vancouver Regional District.

We are in agreement with the statements as made in Mr. Mills' letter.

GHA:pm
 Att.


 G.H. Armson, C.P.H.I. (C)
 CHIEF PUBLIC HEALTH INSPECTOR



Greater Vancouver Regional District

2294 WEST TENTH AVENUE VANCOUVER, BRITISH COLUMBIA V6K 2H9 TELEPHONE 731-1155

ITEM	4
MANAGER'S REPORT NO.	30
COUNCIL MEETING	1979 04 17

114

Please refer to our file number: 10.05

The Corporation of the
District of Burnaby,
6161 Gilpin Street,
Burnaby, B.C.
V5G 4A3.

April 6, 1979

Attention: Dr. S. L. Hemming, M.B., D.P.H., F.R.C.P.(c),
Medical Health Officer.

Dear Dr. Hemming,

Re: Burrard Inlet Odours on January 1, 1979
and Permit for Chevron Canada Limited.

Further to your letter to the Director of April 4, 1979, the following information is provided.

Limits for oxides of nitrogen are indeed contained in the permit for the Chevron refinery. The discussion of this parameter was omitted, in error, from my previous correspondence to you of January 17, 1979.

The Level A restrictions for these compounds specify emission limits of 50 lb. of nitrogen oxides per thousand Imperial gallons of fuel oil consumed or 200 lb. of nitrogen oxides per million SCF of Refinery Fuel Gas or natural gas consumed. Measured levels of these compounds are one tenth of these limits or less. I apologise for the delay in providing this information to you, that was caused by the inadvertent omission of this data from my previous correspondence.

With regard to the requested monitoring results at the Kensington Park station, the attached Table I provides a complete assessment of the data for January 1, 1979. You will note that levels of sulphur dioxide and all other measured contaminants were well within the desirable limits for air quality, as stated in previous correspondence. The January average is also provided. It indicates that January 1, 1979 was slightly better than normal for ozone and normal for all other measured contaminants.

The Acceptable and Desirable limits presented in Table I are the National Air Quality Objectives for these parameters. In establishing these limits the federal government has noted the following.

"The Maximum Acceptable level is intended to provide adequate protection against effects on soil, water, vegetation, materials, animals, visibility, personal comfort and well-being. It represents the realistic goal today for all parts of Canada". The Maximum Desirable level defines the ultimate goal for air quality".

I trust that the above analysis has adequately responded to your concern. The January 1, 1979 recommendations from your Chief Public Health Inspector, regarding actions for improved complaint reporting procedures, are noted with thanks. The excellent co-operation of your Council and staff, in this regard, is appreciated.

Yours truly,

J. Barrie Mills, P.Eng.,
Pollution Control.

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TABLE I

Analysis of Air Monitoring Results

Kensington Park - January 1, 1979.

Description	Concentration (ppm)			
	Sulphur Dioxide	Carbon Monoxide	Ozone	Nitrogen Dioxide
Acceptable 1 hour Limit	0.34	30.	0.08	0.21
Desirable 1 hour Limit	0.17	13.	0.05	none set
January 1 - 1 hour maximum	0.02	4.	0.01	0.03
January 1 - 1 hour minimum	0.01	1.	0.00	0.02
Acceptable Daily Limit	0.11	none set	0.025	0.11
Desirable Daily Limit	0.06	none set	0.015	none set
January 1 - Daily Average	0.01	2.	0.001	0.02
January Monthly Average	0.01	2.	0.005	0.02
Wind Direction (degrees from true North)	83 to 88			
Wind Speed - Maximum	3 Km/hour			
Wind Speed - Minimum	1 Km/hour			