

Page 001 of 235 to/à Page 156 of 235

Withheld pursuant to/removed as

s.3

MINISTRY OF ENVIRONMENT
RECEIVED

NOV 6 - 1984

NANAIMO, B.C.

November 2, 1984

Our File: **PR-1839**
(Twa-Saltspring)

Capital Regional District,
PO Drawer 1000,
Victoria, B.C. V8W 2S6

Attention: R. Warman, P. Eng.

Dear **Mr. Warman:**

Re: Waste Management Permit **PR-1839**
On Behalf of **Twa/Capital Regional District**

For your information I have enclosed a record of my recent inspection of the works associated with the subject permit.

If you have any questions in this regard, please contact me.

Yours truly,

K.H. Austin,

Vancouver Island Region,
Waste Management

DMCL/ew

Enclosure

REGIONAL OFFICE

☐ 2569 Kenworth Road
Nanaimo, B.C.
V9T 4P7

DISTRICT OFFICES

☐ 810 Blanshard Street
Victoria, B.C.
V8V 1X5

☐ 4, 1815 Blanshard Street
Victoria, B.C.
V8V 1X5

☐ 238 Government Street
Duncan, B.C.
V9L 1A5

☐ 4, 4515 Elizabeth Street
Port Alberni, B.C.
V9Y 6L5

☐ 221, 420 Cumberland Road
Courtenay, B.C.
V9N 5M6

☐ 670 Island Highway
Campbell River, B.C.
V9C 2C3

☐ Box 378
Gold River, B.C.
V0P 1G0

☐ Box 1290
Port Hardy, B.C.
V0N 2P0



MINISTRY OF ENVIRONMENT
RECEIVED
NOV 5 - 1984
NANAIMO, B.C.

MINISTRY OF ENVIRONMENT
WASTE MANAGEMENT BRANCH

Permit No. PR 1839
Date of Inspection 30 OCT/84

PERMIT INSPECTION

Permittee CRD - TWA
Location SALTSPRING ISLAND

A. SAMPLES TAKEN

YES ☐ NO ☒

Sources Sampled _____

B. OBSERVATIONS AND COMMENTS:

1. WORKING FACE NOW FAR TOO LARGE
2. NO COVER HAS BEEN APPLIED FOR SOME TIME
3. CATTLE GRAZING IN GARBAGE !

C. PERMIT COMPLIANCE

IN ☐ OUT ☒

Based on Site Observations.

COMMENTS: 1. NO COVER 2. CATTLE ON LANDFILL

D. ACTION REQUIRED BY PERMITTEE: 1. COMPACT & COVER REFUSE 2. REMOVE CATTLE

Permittee or Representative's Signature

[Signature]
For Waste Management

Regional Office Follow-up:

Original to File
Copy to Permittee ✓ mailed

4th, 1815 Blanshard St
Victoria BC V8V 1X5

Telephone: 387-1724

GEO + file ↓

Our File: PR-1839

September 20, 1984

Capital Regional District,
524 Yates Street,
PO Drawer 1000,
Victoria, B.C. V8W 2S6

Attention: R. Warman, P. Eng.

MINISTRY OF ENVIRONMENT

RECEIVED

SEP 25 1984

NANAIMO, B.C.

Dear Bob:

Recent inspections of the landfill on Saltspring Island have shown that the refuse is not being compacted and covered satisfactorily. We would request that you contact Mr. Twa to improve the operation of the landfill.

Yours truly,

K.H. Austin, Technician,
Waste Management.

KHA/ew



file

Permit No: PR 1839
 Name: CRD-TWA
 Location: SALTSPRING ISLAND
 Contacted: —
 Works: LANDFILL

Inspected by: KHA
 Date: July 4/89
 Weather: CL / SUNNY

Items: Flow

| General | Effluent | Air | Refuse |
|-------------------------------|---------------------------------|----------------------|--------------------|
| Housekeeping <u>FAIR-POOR</u> | Colour <u>—</u> | Ring <u>—</u> | Cover <u>SOME</u> |
| Flow Measur. <u>—</u> | Turbid. <u>—</u> | Temp. <u>—</u> | Odour <u>NO</u> |
| Sampling Fac. <u>—</u> | pH <u>—</u> | Colour <u>—</u> | Leach. <u>NO</u> |
| Records <u>—</u> | Resid. Cl ₂ <u>—</u> | Particulate <u>—</u> | L. Colour <u>—</u> |
| Monitoring <u>—</u> | Floatables <u>—</u> | <u>—</u> | L. Odour <u>—</u> |
| <u>—</u> | Odour <u>—</u> | <u>—</u> | <u>—</u> |
| <u>—</u> | D.O. <u>—</u> | <u>—</u> | <u>—</u> |

Comments: EFFORTS ARE STILL BEING MADE TO CONFIN
THE DISCHARGE TO A SMALL WORKING FACE. A
SCREEN HAS BEEN ERECTED OVER THE REFUSE
TO TRY TO KEEP BIRDS AWAY. NO LEACHATE
FLOWING FROM LANDFILL. COVER STILL INADEQUATE

Plans submitted: —

Monitoring submitted: —

Instructions left with Permittee: NONE

Status of Permit: QUASI - o/c

Action recommended: TRY TO PUT PRESSURE ON CRD TO
EITHER TAKE OVER OPERATION OR TO FIND
ANOTHER SITE

Signed

KHA

CRD
Capital
Regional
District



524 YATES ST. P.O. DRAWER 1000 VICTORIA B.C. V8W 2S6 Tel. (604) 388-4421

July 9, 1984

Islands Trust
716 Courtney Street
Victoria, B.C.
V8W 1C2

Attention: Mr. Dave Morris
Chief Planner

Gentlemen:

Re: Solid Waste - Salt Spring Island

Your letter of June 21, 1984 to Mr. Eric Simmons, Chairman, Sanitation and Water Committee, was referred to the July 4, 1984 meeting of that committee. The contents of your letter were discussed by the committee and it was requested that the Engineering Department respond to your letter.

You mention the concern of the Salt Spring Island Trust Committee about the continuation of a solid waste landfill within the watershed of Cusheon Lake. At the present time, this department knows of no other acceptable location for a landfill on the Island although we appreciate the concerns of Island residents about the location of the landfill within the watershed. Monitoring results submitted to us by the Waste Management Branch indicate that the landfill is not contributing to degradation of water quality in Cusheon Lake.

A member of the Sanitation and Water Committee reminded the Committee that Islands Trust is responsible for planning on the Island, and suggested that Islands Trust be invited to recommend possible landfill sites which meet planning criteria of acceptability. We extend that invitation to Islands Trust and to the members of the Salt Spring Island Trust Committee and advise you that we would be prepared to recommend to the Sanitation and Water Committee that an engineering study of the acceptable sites be undertaken. The only alternative to landfilling on Salt Spring Island is collection of refuse at a suitable transfer facility and transport of the refuse to the Hartland Road landfill. It is the opinion of this department that the alternative of hauling refuse to Hartland Road landfill would be considerably more expensive than landfilling.

.../2

MUNICIPALITIES AND ELECTORAL AREAS

CENTRAL SAANICH COLWOOD ESQUIMALT LANGFORD METCHOSIN NORTH SAANICH OAK BAY
OUTER GULF ISLANDS SAANICH SALTSRING ISLAND SIDNEY SOOKE VICTORIA VIEW ROYAL

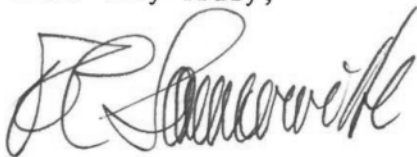
With regard to recycling, the Capital Regional District Board encourages recycling efforts by citizens' groups and has continued to support the operation of the Capital Regional District Recycling Depot and the recycling grant to the Salt Spring Island Community Society over the years. However, research by this department indicates that the success of any recycling operation depends on a heavy commitment of volunteer labour by concerned citizens, and that the range of materials which can be successfully recycled is limited. Therefore, this Department is not prepared, at this time, to recommend that the CRD expand its monetary support for recycling.

With regard to the procurement of land for recycling depots, we recommend that the Trust Committee, or the Salt Spring Island Community Society, investigate the availability of Provincial Government land. If suitable government land is available, it may be possible to obtain a Crown Grant of a parcel of land for the operation of a recycling depot. Perhaps Islands Trust, as an agency of the Provincial Government, can assist the committees with the identification and procurement of suitable land.

Regarding the recommendation by the Trust Committee that a sign be erected at the Blackburn Road dump which forbids deposit of toxic materials, the Sanitation and Water Committee has instructed the Engineering Department to arrange for such a sign to be erected. At the present time, however, there are no funds available to erect a building at the landfill site for deposit of toxic materials. In any case, we question the wisdom of accepting such materials at an unmanned facility because of the high potential for misuse of the materials.

Please do not hesitate to call if you have any further concerns about solid waste disposal on Salt Spring Island.

Yours very truly,



R.C. Sommerville, P.Eng.
Chief Engineer

cc: E. Simmons, Chairman,
Sanitation and Water Committee
cc: Director H. Borsman, Salt Spring Island
cc: G. Oldham, Waste Management Branch
cc: K. Austin, Waste Management Branch
cc: R. H. Ferguson, Waste Management Branch

RWW:mr
S40-10

Waste Management Branch

4th, 1815 Blanshard St
Victoria BC V8V 1X5

Telephone: 387-1724

[Signature]

Our File: PR-1839



June 28, 1984

Capital Regional District,
524 Yates Street,
PO Drawer 1000,
Victoria, B.C. V8W 2S6

Attention: Mr. R. Warman, P. Eng.

Dear Bob:

Waste Management Branch will undertake the following analysis of the pond in the Twa landfill:-

1. Once only - P.C.B. and Dioxin levels
2. Annually in October/November depending on rainfall - parameters such as specific conductance, chloride, nitrogen and coliform levels to indicate potential flow of leachate from the landfill. Based on the results obtained, a decision will be made to add other parameters.

Yours truly,

[Signature]

K.H. Austin,
Vancouver Island Region.

KHA/ew

CRD
Capital
Regional
District

524 YATES ST. P.O. DRAWER 1000 VICTORIA B.C. V8W 2S6 Tel. (604) 388-4421

June 13, 1984

Waste Management Branch
Ministry of Environment
1815 Blanshard Street
Victoria, B.C.
V7T 5A4

Attention: Mr. Ken Austin

Gentlemen:

Re: Saltspring Island Sanitary Landfill
Permit No. PR-1839

We are in receipt of a letter dated May 23, 1984 from the Salt Spring Island Water Preservation Society expressing concerns about the location of the landfill within the Cusheon Lake watershed. The letter was presented to the Sanitation and Water Committee of the Capital Regional District at its meeting of June 4, 1984. A staff report, copies of an internal memorandum on the subject of water quality in the watershed, and copies of a letter written to us by you on March 15, 1983, including water quality data dated December 8, 1982, were also given to the Committee. Copies of these documents are enclosed for your information.

Members of the Sanitation and Water Committee expressed interest in the level of operation of the landfill which prompted my telephone call to you requesting further information about Waste Management Branch inspections. Your memorandum dated June 6, 1984 summarizing inspections carried out in 1983 and 1984 has been received. Thank you for your prompt attention to my request.

The Committee also questioned whether the detailed monitoring carried out by you in December 1982 could be repeated at regular intervals, perhaps annually. We are passing that request along to you for your consideration. It appears that regular monitoring might help to allay the fears of members of the public about the effects of the landfill on drinking water supplies.

. . . . /2

6/17 7E-1839 ~~FOF~~



KHA to respond
per discussion
27 June '84
129

Waste Management Branch
Page 2
June 13, 1984

Please advise whether you are prepared to undertake additional testing during 1984. If so, it is requested that you also consider testing for PCB and dioxin as these are compounds of considerable public concern at the present time.

Yours very truly



R.W. Warman, P. Eng.
Manager, Special Programs Division

RWW:LW
S40-10
Attachments

cc: R.C. Sommerville, Chief Engineer
J. Finnie, Waste Management Branch, Nanaimo

WASTE INSPECTION



SAMPLING INSPECTION



Permit No:

PR1839

Inspected by:

KHA

Name:

CRD/TWA

Date:

12 MAR 1984

Location:

SSI

Weather:

Sun/Cloud

Contacted:

Works:

Landfill

Items: Flow

General

Effluent

Air

Refuse

Housekeeping

Colour

Ring

Cover

Flow Measur.

Turbid.

Temp.

Odour

Sampling Fac.

pH

Colour

Leach.

Records

Resid. Cl₂

Particulate

L. Colour

Monitoring

Floatables

L. Odour

Odour

D.O.

Comments:

Sampled puddle adjacent to landfill, pond below landfill, Blackburn Lake, and ditch on Telford-Ganges Road. High coliform levels in puddle and in ditch (G 2400) Pond 49F & Lake 2F.

Plans submitted:

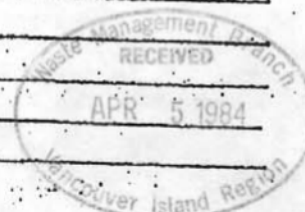
Monitoring submitted:

Instructions left with Permittee:

Status of Permit:

Yc

Action recommended:



Signed

KHA



Permit No: PR 1839
 Name: CRD-TWA
 Location: SAITSDRUM IS
 Contacted: —
 Works: LANDFILL

Inspected by: KHA file
 Date: 28/2/84
 Weather: cloudy

Items: Flow

| General | Effluent | Air | Refuse |
|---------------|-----------------------|-------------|-----------------------|
| Housekeeping | Colour | Ring. | Cover <u>SOME</u> |
| Flow Measur. | Turbid. | Temp. | Odour <u>NO</u> |
| Sampling Fac. | pH | Colour | Leach. <u>SLIGHT</u> |
| Records | Resid.Cl ₂ | Particulate | L.Colour <u>CLEAR</u> |
| Monitoring | Floatables | | L.Odour <u>NONE</u> |
| | Odour | | |
| | D.O. | | |

Comments: A SMALL STREAM OF LEACHATE ON WEST SIDE
OF LANDFILL GOING TO POND. LEACHATE CLEAR -
NO EVIDENCE OF REDUCING CONDITIONS.

Plans submitted: —

Monitoring submitted: —

Instructions left with Permittee: NONE

Status of Permit: O/C LOWER

Action recommended: WILL CONTACT PERMITTEE BY PHONE
TO DIVERT FLOWS.

Signed

KHA

~~JOE~~
~~KL~~ → ~~GEO~~ ↓
file
PR-1839

Gulf Islands Driftwood

Wed., Feb. 22, 1984

**Trust expresses concern
for toxic waste disposal**



Copyright

If we get a
further inquiry
we should send
him a copy of the
Special waste list
& proposed Regulations!

→ cc: Ted Oldham

Waste Management Branch

4th, 1815 Blanshard Street
Victoria BC V8V 1X5

Telephone: 387-1724

Our File: PR-1839

February 7, 1984

Islands Trust,
Parliament Buildings,
Victoria, B.C. V8W 3E1

Attention: R. McKellar

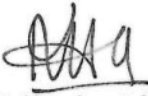
Dear Mr. McKellar:

To list those substances which are inappropriate for disposal in the landfill at Saltspring Island is difficult. If we submitted such a list, it would certainly be incomplete. We would, however, suggest that the following categories should not be disposed of at the landfill:-

1. Herbicides
2. Pesticides
3. Explosives
4. Liquid and Gaseous Flammables.

The substances listed can be disposed of by contacting J. Leung, Waste Management Branch, Nanaimo, at 758-3951, or K.H. Austin at 387-1724. In the case of explosives, they should not be moved.

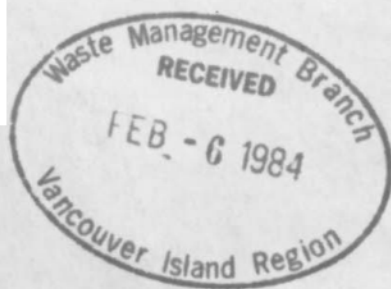
Yours truly,


K.H. Austin,
Vancouver Island Region,
Waste Management Branch.

KHA/ew

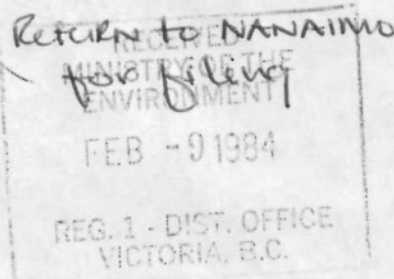
cc: R. Warman, P. Eng.,
Capital Regional District,
PO Drawer 1000, Victoria, B.C. V8W 2S6

February 1st /84

~~507-2~~

file: PR. 1839-

~~JP~~
~~JE~~
 KHA ~~WHA~~



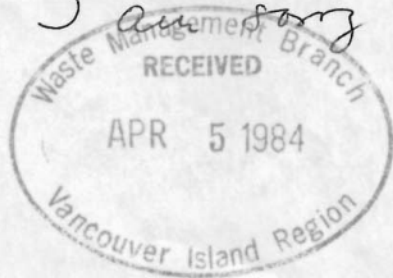
Ministry of
 Environment
 Waste Management Branch
 D. O. Finnie, P. Eng.
 Head,
 Municipal Section

Re: CRD/Twa Dump - Salt Spring Island

Dear Mr. Finnie,
 Thank you for your kind letter, Jan. 28/83.
 I would like to express my gratitude for
 the relief from excessive plastic burning at
 this a.m. dump. - Unfortunately
 there are more unsolved problems, as
 you can see from my enclosed statements
 to the CRD, (copy to your office)

I am sorry to give you more headaches

Yours truly



27. January 1984

s.22

re: Land use of ParcelCusheon Lake

I would like to offer my opinion in writing:

The site slopes towards North-East and East and provides sunshine only during the first few hours of the day, a poor condition for a swimming area. -

Before any more natural land will be developed into yet another source of pollution around Cusheon Lake, we all should carefully check the present state of this lake as the only available drinking water supply for an increasing number of residents.

Let us start at the dump on Blackburn Rd., surrounded by hills towards W, N, and E, with a gentle slope towards Blackburn Lake.

Please see my sketch. All kinds of poisons are dumped there, some containers still half full, the lid tight, which means, they will release their poison slowly later on. Anything can and is being dumped there without restrictions, even if there were any, nobody could fully enforce them. To name only one very dangerous example: batteries of digital watches, calculators i.e. which contain a high percentage of mercury. In spite of special warnings, spent batteries are not returnable and go to a dump.

Two outer Islands also use this as their disposal site.

Thanks to our former Regional Director continuous burning of plastic has been eliminated and the management of the dump has improved greatly.

Still this does not stop dumping of various poisons, and as pointed out on my sketch with photographs, the seepage from cans immersed in murky ponds runs down towards Blackburn Rd. crosses underneath through a culvert and into Blackburn Lake. From there it passes near the septic field of Cedar View Trailer Court on its relatively short way into Cusheon Lake.

I have not yet counted the many outhouses around this lake, which are flooded during winter or any other pollutants.

I have yet being talking about the observable surface run-off.

What about the seepage from the dump into the groundwater?

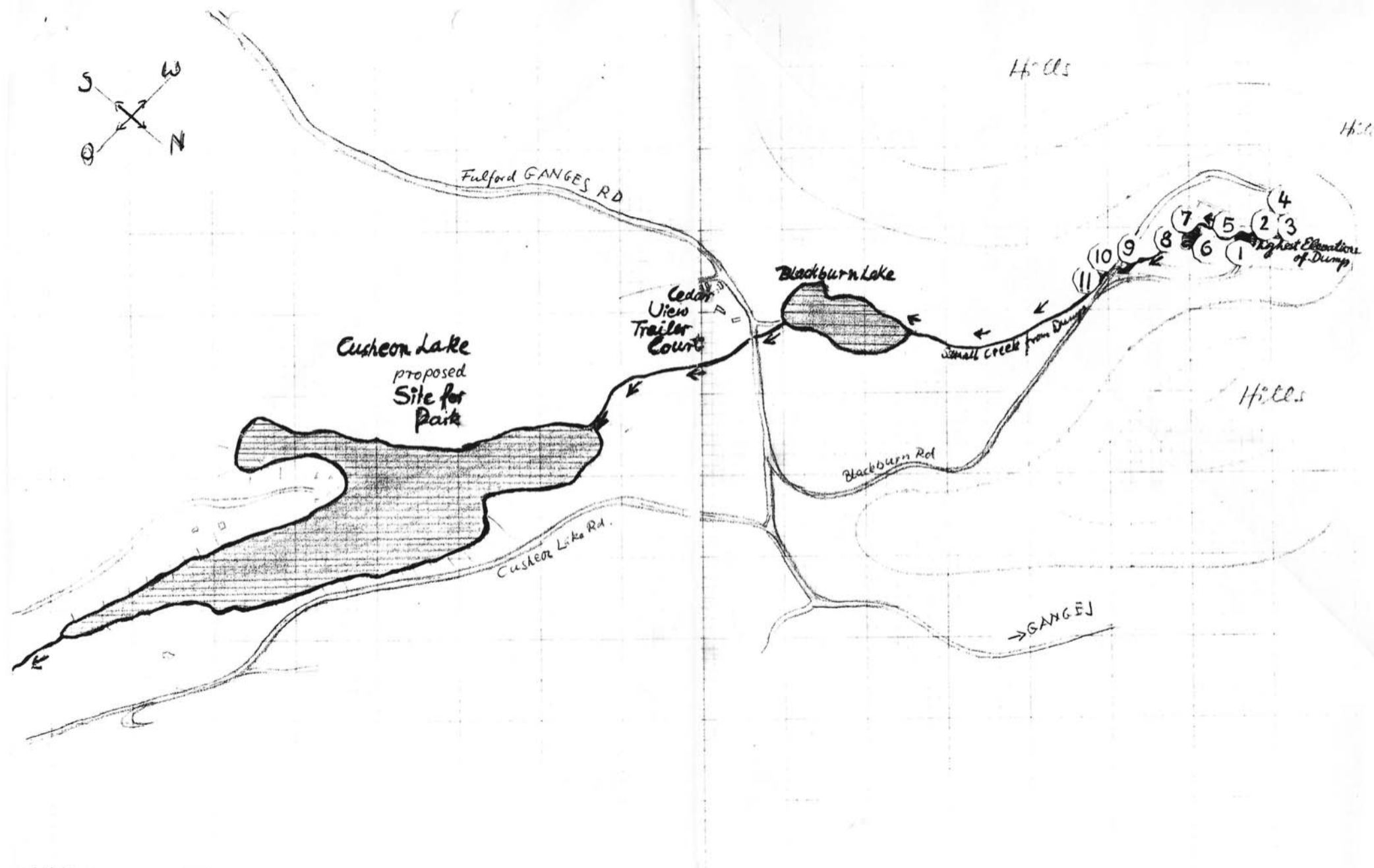
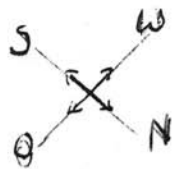
Unsuspecting consumers could be the victims of contaminated wells, groundwater which often runs in an other or even opposite direction than surfacewater. Where it turns up, we do not know.

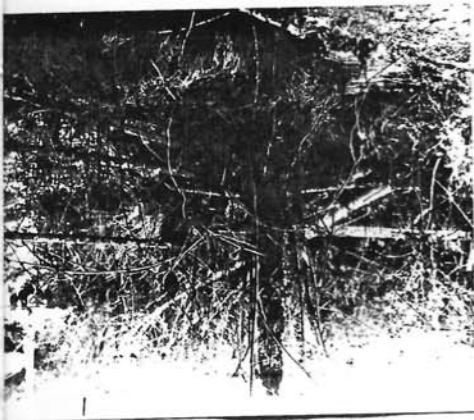
I come to the following conclusions:

- 1.) tests on all sources of drinking water should be carried out by independent laboratories
these tests should be comprehensive and not probe only for
a) coliforms, but also for salmonella and typhoid infectants
and
b) furthermore for poisonous chemicals (e.g. heavy metal compositions),
they should be done routinely and for years to come.
- 2.) If there are unfavourable results, other, safe sources of drinking water should be found for residents.
- 3.) In this case Real Estate Companies should have to make buyers aware of the situation.
- 4.) Until another way of waste disposal has been found (and our present government is working hard to solve this problem) we should not increase the number of households on this Island, who dump their garbage in this watershed area.

I am strongly convinced of the neccessity to preserve the last remaining area around Cusheon Lake in its natural state.

s.22





Creek
drains
Bassburg
Road

⑨



outflow
from
6
into
Creek

⑧



into
⑥



see
page
from
12/3
4

⑤



②



① higher elevation

10) covered under weeds
Ola's far Road



11)

Creek from Dump
Running down Ola's far
Lake



7)

= 6 from South West



Ola's far Dump off. 83
WATCO

4)



3)



NORONDA
D

Waste Management Branch

File: PR-1839

January 28, 1983

s.22

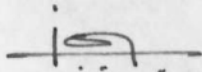
Re: CRD/Twa Dump - Saltspring Island

Thank you for the copy of your letter to the Capital Regional District regarding the Saltspring Island garbage dump.

We are aware of the operational problems at this site. Resolution of these problems are on our priority list, and we will be addressing the matter with the Permittees in the near future.

Thank you for your comments and advising us of your concerns.

Yours truly,



J. O. Finnie, P. Eng.
Head,
Municipal Section

JOF/mrb

cc: K.H. Austin

X

JOE ~~*is*~~
cc KHA

Ganges, Jan. 7th/83



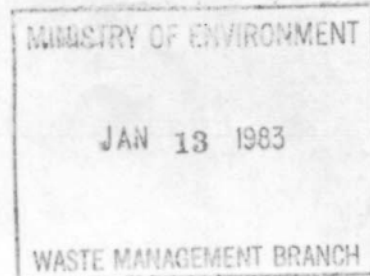
To the Waste Management Branch
810 Blanshard St
Victoria B.C.

Enclosed please find copy of my letter to the Chief Engineer
Capital Regional District Victoria.

Sincerely
Ch. F. Tennant

Ganges, January 7th 1983

To the Chief Engineer
Capial Regional District
542 Yates
Victoria B.C.



Dear Sir,

s.22

Initially claimed to be due to fires set by unknown youths, burning the garbage on this dump now has become the rule rather than the exception, especially during hot and dry summers as in 1981. This last fall the fires smoldered on and off for several months. Regardless as to the cause of these fires, the situation is now intolerable due to this smoke blanketing most residences in the Blackburn and Cusheon Lake Valley with increasing frequency and duration.

We need immediate reprieve from the toxic fumes.

Since this dump is surrounded by ridges and hills, the cool air during the evenings draws those emissions down the valley. No smokestacks will overcome this downdraft, which causes these fumes to linger in the trough of Blackburn and Cusheon Lake Valley especially during night hours. Headaches, nausea and dizziness are the results.

It is incomprehensible to see as large a Community as Salt Spring Island deal with ever increasing refuse disposal in such a primitive and hasardous way. Since this dump lies within the boundaries of a watershed area it is time to change this practice.

After several complaints we had a few weeks relief from this condition, evidently in consequence of your more stringent supervision and hope very much that a final and satisfactory solution will be found.

Yours sincerely

s.22

Copies to

Reg.Dir.Y.Valcourt
Waste Management Branch Vict.
Island Trust Victoria

| DISTRIBUTION | DATE | INITIALS |
|----------------------------|------|----------|
| <i>Reg Dir Y. Valcourt</i> | | |
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Waste Management Branch
Vancouver Island Region Sub-office
1815 Lanshard Street
Victoria BC V8V 1X5

Telephone: 387-1724

JOF
file

October 15, 1982



Our File: PR 1839

Capital Regional District,
Public Health Inspection,
2440 Sidney Avenue,
Sidney, B.C. V8L 1Y7

Attention: P. Jemmeson

Dear Peter:

Please find enclosed Xerox copies of analytical data for the well at Blackburn Farm on Saltspring Island.

The water quality is poor, however, it does not seem to be attributable to the Twa landfill.

Yours truly,

K.H. Austin,
Vancouver Island Region,
Waste Management Branch.

KHA/ew

Enclosure.



DEPARTMENT OF LANDS, FORESTS, AND WATER RESOURCES
OFFICE OF
THE DEPUTY MINISTER OF WATER RESOURCES
VICTORIA, B.C.

January 18, 1974.



Mr. Kenneth R. Luton,
P. O. Box 344,
Ganges, British Columbia.

Dear Sir:

In the absence of the Honourable Robert Williams, your letter of December 28, 1973, has been referred to me for reply.

The Director of Pollution Control advises me that an order was given to Mr. Twa to apply for a permit to operate the registered site to which you object. However, no permit was issued as there was no undertaking to upgrade the operation. Mr. Twa's position was that he would close the site, thus leaving Salt Spring Island residents with no facility, if upgrading were made a condition of continued discharge. Meanwhile, the Capital Regional District assured the Director that they would actively seek a refuse disposal site on Salt Spring Island which they would operate once the study they had in hand on refuse disposal was complete and they had obtained the necessary Letters Patent.

Under these circumstances, it was determined that Mr. Twa's application be held pending until the outcome of the study was known. Copies of this letter and of yours, are being sent to the Regional District, and I am asking them to advise me (with a copy to yourselves) of progress.

Yours very truly,

B. E. Marr,
Acting Associate
Deputy Minister.

c.c. Chairman,
Capital Regional District.

c.c. District Manager - Coast. ←

s.22

December 28th. 1973

RECEIVED

JAN 02 1974

The Minister.
Department of Lands Forests & Water Resources.
Parliament Buildings.
Victoria, B.C.

MINISTER OF LANDS, FORESTS,
and WATER RESOURCES OFFICE

Sir,

s.22

| | | |
|---------|---------------------------------------|---|
| Comment | Reply Direct In Minister's Absence | X |
| | Attention & File | |
| | Information & File | |
| | | |

This summer the refuse pit burst into flame which could only be suppressed by the local fire-fighting department; not without considerable fear that this entire wooded valley in its then tinder dry condition would be engulfed.

Whenever low cloud is prevalent it becomes impossible to sleep because of obnoxious fumes emanating from winter burning.

s.22

At times a bulldozer works incessantly throughout the night to further disturb us.

And now the winter rains are washing garbage into the runoffs to Blackburn Lake with resultant water pollution.

We really have had enough of this inconvenience to ourselves and ask that you close this refuse pit in the interest of public health and well-being.

Yours truly,

s.22

27. January 1984

s.22

re: Land use of ParcelCusheon Lake

I would like to offer my opinion in writing:

The site slopes towards North-East and East and provides sunshine only during the first few hours of the day, a poor condition for a swimming area. -

Before any more natural land will be developed into yet another source of pollution around Cusheon Lake, we all should carefully check the present state of this lake as the only available drinking water supply for an increasing number of residents.

Let us start at the dump on Blackburn Rd., surrounded by hills towards W, N, and E, with a gentle slope towards Blackburn Lake.

Please see my sketch. All kinds of poisons are dumped there, some containers still half full, the lid tight, which means, they will release their poison slowly later on. Anything can and is being dumped there without restrictions, even if there were any, nobody could fully enforce them. To name only one very dangerous example: batteries of digital watches, calculators i.a. which contain a high percentage of mercury. In spite of special warnings, spent batteries are not returnable and go to a dump.

Two outer Islands also use this as their disposal site.

Thanks to our former Regional Director continuous burning of plastic has been eliminated and the management of the dump has improved greatly.

Still this does not stop dumping of various poisons, and as pointed out on my sketch with photographs, the seepage from cans immersed in murky ponds runs down towards Blackburn Rd. crosses underneath through a culvert and into Blackburn Lake. From there it passes near the septic field of Cedar View Trailer Court on its relatively short way into Cusheon Lake.

I have not yet counted the many outhouses around this lake, which are flooded during winter or any other pollutants.

I have yet being talking about the observable surface run-off.

What about the seepage from the dump into the groundwater?

Unsuspecting consumers could be the victims of contaminated wells, groundwater which often runs in an other or even opposite direction than surfacewater. Where it turns up, we do not know.

I come to the following conclusions:

- 1.) tests on all sources of drinking water should be carried out by independent laboratories
these tests should be comprehensive and not probe only for
a) coliforms, but also for salmonella and typhoid infectants and
b) furthermore for poisonous chemicals (e.g. heavy metal compositions),
they should be done routinely and for years to come.
- 2.) If there are unfavourable results, other, safe sources of drinking water should be found for residents.
- 3.) In this case Real Estate Companies should have to make buyers aware of the situation.
- 4.) Until another way of waste disposal has been found (and our present government is working hard to solve this problem) we should not increase the number of households on this Island, who dump their garbage in this watershed area.

I am strongly convinced of the necessity to preserve the last remaining area around Cusheon Lake in its natural state.

s.22

PERMIT INSPECTION ☒

SAMPLING INSPECTION ☐

Permit No: PR1839

Inspected by: KHA

Name: CRD & N.TWA

Date: 9/12/83

Location: SSI

Weather: RAIN

Contacted: -

Works: LANDFILL



Items: Flow

| General | Effluent | Air | Refuse |
|--------------------------|-----------------------|-------------|-----------------------|
| Housekeeping <u>FAIR</u> | Colour | Ring. | Cover <u>MOD-GOOD</u> |
| Flow Measur. | Turbid. | Temp. | Odour <u>NONE</u> |
| Sampling Fac. | pH | Colour | Leach. <u>NONE</u> |
| Records | Resid.Cl ₂ | Particulate | L.Colour <u>-</u> |
| Monitoring | Floatables | | L.Odour <u>-</u> |
| | Odour | | |
| | D.O. | | |

Comments: EFFORT HAS BEEN MADE TO KEEP DISCHARGE
CONFINED TO A 50-FOOT SECTOR OF THE LANDFILL.
THE SITE IS MUDDY IN FRONT OF THE DISCHARGE
AREA SO THAT REFUSE MAY BE SCATTERED MORE
DURING THE NEXT TWO MONTHS.

Plans submitted: -

Monitoring submitted: -

Instructions left with Permittee: NONE

Status of Permit: Yc

Action recommended: NONE

Signed: Att Austin

PERMIT INSPECTION ☒

SAMPLING INSPECTION ☐

Permit No: PR1837
 Name: CRD - TWA
 Location: SANITARY IS
 Contacted: —
 Works: LANDFILL

Inspected by: KHA
 Date: 20/10/83
 Weather: SUNNY
950 → file



Items: Flow

| General | Effluent | Air | Refuse |
|-----------------------------|---------------|-------------|-----------------------|
| Housekeeping <u>F. GOOD</u> | Colour | Ring. | Cover <u>ADEQUATE</u> |
| Flow Measur. | Turbid. | Temp. | Odour <u>SLIGHT</u> |
| Sampling Fac. | pH | Colour | Leach. <u>—</u> |
| Records | Resid. Cl_2 | Particulate | L. Colour <u>—</u> |
| Monitoring | Floatables | | L. Odour <u>—</u> |
| | Odour | | |
| | D.O. | | |

Comments: LANDFILL OPERATING REASONABLY WELL. THE WORKING FACE IS STILL MUCH TOO LONG, HOWEVER THE SITE IS REASONABLY TIDY WITH DISCHARGED REFUSE CONFINED TO ONE AREA.

Plans submitted: —
 Monitoring submitted: —

Instructions left with Permittee: NONE

Status of Permit: 1/c

Action recommended: —

Signed

[Signature]

Waste Management Branch
1815 Blanshard Street
Victoria BC V8V 1X5

Telephone: 387-1724

Nanaimo
Our File: PR 1839



July 5, 1983

Islands Trust,
Parliament Buildings,
Victoria, B.C. V8W 3E1

Attention: Mr. R. McKellar

Dear Mr. McKellar:

The Waste Management Branch does not have any objection to the Islands Trust posting a notice about hazardous materials at the Blackburn Road landfill.

We would suggest that the notice include information that these materials can be disposed of by contacting the Environmental Safety Protection Officer at Nanaimo (telephone: 758-3951), or Victoria (telephone: 387-1724).

Yours truly,

K.H. Austin,
Waste Management Branch,
Vancouver Island Region.

KHA/ew

cc: Joe Leung

Jo F
file

Waste Management Branch

1815 Blanshard Street
Victoria BC V8V 1X5

Telephone: 387-1724

June 27, 1983

Our File: PR 1839
(Saltspring)

Capital Regional District,
524 Yates Street,
PO Drawer 1000,
Victoria, B.C. V8W 2S6

Attention: R. Warman, P. Eng.



Dear Bob:

The refuse disposal site operated by Norman Twa was inspected on June 23, 1983. The refuse had been compacted and covered, and discharge was confined to a relatively small area.

Yours truly,

A handwritten signature in dark ink, appearing to be "K.H. Austin".

K.H. Austin,
Vancouver Island Region,
Waste Management Branch.

XHA/ew

INSPECTION

file
COMPLING INSPECTION ☐

Permit No: PR 1839
 Name: CRD & TWA
 Location: SSI
 Contacted: N. Twa
 Works: landfill



Inspected by: KHA
 Date: 23 JUNE/83
 Weather: SUN/CLON

B. Items: Flow

| General | Effluent | Air | Refuse |
|--------------------------|------------------------|-------------|------------------|
| Housekeeping <u>good</u> | Colour | Ring. | Cover <u>yes</u> |
| Flow Measur. | Turbid. | Temp. | Odour <u>no</u> |
| Sampling Fac. | pH | Colour | Leach. <u>no</u> |
| Records | Resid. Cl ₂ | Particulate | L. Colour |
| Monitoring | Floatables | | L. Odour |
| | Odour | | |
| | D.O. | | |

C. Comments: Most of site had been covered with
compacted. Discharge can find in a small
area.

Plans submitted: —Monitoring submitted: —D. Instructions left with Permittee: NoneE. Status of Permit: VeF. Action recommended: —

Signed

KHA

J.C.F.
file
Waste Management Branch
1815 Blanshard Street
Victoria, B.C. V8V 1X5

Telephone: 387-1724

Our File: PR 1839

May 10, 1983



Mr. S. Filkow,
Box 1371,
Ganges, B.C. V0S 1E0

Dear Mr. Filkow:

The operation of the Twa landfill has not been satisfactory to the Waste Management Branch for some time. A considerable effort has been made, together with staff of the Engineering Department of the Capital Regional District, to bring the permit into compliance. At a meeting held on May 6th, with the landfill operator, the following terms were agreed to:-

1. That the landfill would be covered weekly.
2. That the discharge would be confined to the smallest possible working face.
3. That no refuse would be burned.
4. That the burning of stumps, demolition waste and cardboard would be permitted as described in the permit.
5. That should the landfill catch on fire, it would be extinguished as soon as possible.
6. That the Capital Regional District would pay a subsidy to the operation, based upon satisfactory performance.
7. That staff of the Waste Management Branch would monitor the operation of the landfill until December 31, 1983, at which time a decision would be made to allow continued operation, or to suspend the permit.

If you have any further questions on this matter, please let us know.

Yours truly,

K.H. Austin,
Vancouver Island Region,
Waste Management Branch.

KHA/ew

WASTE MANAGEMENT BRANCH

MEMO TO FILE: PR 1839

FROM: K.H. Austin
Region 1



DATE: May 10, 1983

RE: Operation of the Twa Landfill

A meeting was held at the C.R.D. offices on May 6, 1983, Those present were: Mr. N. Twa (Landfill Operator), Mr. R. McKellar (Islands Trust), Messrs. C. Sommerville and R. Warman (Capital Regional District), and Mr. K. Austin (Waste Management Branch).

Mr. Sommerville stated that on the basis of Waste Management Branch reports on the operation of the landfill during 1982, he was prepared to recommend to the C.R.D. Board that a payment of \$3,500.00 be made as a subsidy. He also suggested that effective May 1, 1983, Mr. Twa start again to operate the landfill according to the terms of the permit, and the Engineering Department would make recommendations on the subsidy based on Waste Management Branch reports. Waste Management Branch agreed to try to inspect the landfill six times during the next year.]

The amount of the subsidy reflects the portion of unused capacity at the Hartland Landfill, which is paid for by the residents of Saltspring Island. Mr. Twa stated that the landfill received a daily average of 4 cubic yards of refuse from Mayne Island, and 1 cubic yard from Pender Island. He was advised to bring the matter of the amount of subsidy to the attention of the Regional Director, Mrs. Valcourt.

The Waste Management Branch position was stated as follows:-

1. The landfill is to be covered weekly.
2. The discharge is to be confined to the smallest possible working face.
3. No refuse is to be burned.
4. Any fires at the landfill shall be extinguished as soon as possible.
5. Stumps, demolition waste and cardboard can be burned in accordance with the directions in the permit.
6. Waste Management Branch will review the operation of the landfill for the balance of 1983. If the operation is not satisfactory, it will be recommended that the permit be suspended.

A handwritten signature in dark ink, appearing to be "KHA".

K.H. Austin
Vancouver Island Region

KHA/ew

JOF
file
MARG → (copy to G. Prouse)
17/5/83

Gordon Prouse
Regional Manager
Fish & Wildlife Branch

May 5, 1983

Your File: 0773 12-8

Our File: PR-1839

Re: Raven Depredation Problem - Saltspring Island
(Twa Landfill - Blackburn Road)

Further to the letter dated April 12, 1983 (Weber/Agriculture to Prouse) which you referred for comment, please be advised as follows:

1. Waste Management is presently in discussion with Capital Regional District and Mr. Twa regarding improving the unacceptable operation at the landfill.
2. Mr. Weber's point on Page 4 of his letter is basically correct - the present Permit requirement is for weekly covering and it is unlikely that this frequency would be increased. Indeed, if weekly covering was now being practiced, a significant improvement in the overall dump operation would be realized.
3. We are pressing for improvements to the operation (i.e. Permit compliance) and for minimizing the size of the working face of the dump, and this may help somewhat with the raven problem in the dump area. It is unlikely, however, that even full compliance with the Permit requirements would have any significant impact on the general raven population and destruction of some of the birds will probably be necessary.
4. A meeting with CRD/Twa to discuss the dump operation, etc. has been scheduled for May 6, 1983, 11:00AM in Victoria (contact Ken Austin for details). You may wish to have staff representation at the meeting.

On a somewhat related matter, and as you are aware, problems are being encountered with the masses of glaucous winged gulls "residing" at the Hartland Road landfill in Victoria. Improvements to the covering practices at the landfill are expected in the near future

. . . 2

2.

Re: Raven Depredation Problem - Saltspring Island (Permit PR-1839)
(cont'd) . . . May 5, 1983

and this may result in bird mortality through reduced availability of food material. Accordingly, it is deemed desirable to reduce the gull population by lethal methods, perhaps, as Mr. Weber has suggested for the ravens, by cannon netting and subsequent destruction. I understand Federal and Provincial approval may be required for such a program and would appreciate your comments on the matter.



J. O. Finnie, P. Eng.
Head,
Municipal Section

JOF/mrb

cc: K. H. Austin
M. Caskey

Fish And Wildlife
Branch

file PR-1839
MARC: copy to K. Austin
5/5/83

J. Finnie

0773

12-8



21 April, 1983

Mr. Wayne Weber
Bird Control Specialist
Crop Protection Branch
Ministry of Agriculture & Food
17720 - 57th Avenue
Surrey, B. C.
V3S 4P9

Dear Mr. Heber:

Thank you for your letter of 12 April, 1983, describing the raven
depredation problem on Saltspring Island.

I will be discussing the matter and will get back to you after
thoroughly reviewing management alternatives.

Yours truly,

C. G. Prouse
Regional Manager

CCP:bms
bcgeu

bcc D. W. Janz, Regional Wildlife Biologist
W. Munro, i/c Bird Management
D. Turner, Regional Conservation Officer
J. Finnie, Head, Municipal Section, Waste Management Branch,
F. Tompa, i/c Carnivore Management

Comments Please!



April 12, 1983

Mr. C.G. Prouse,
Regional Manager,
Fish and Wildlife Branch,
B.C. Ministry of Environment,
2569 Kenworth Road,
Nanaimo, B.C. V9T 4P7

Dear Mr. Prouse:

At the suggestion of Doug Janz, Regional Wildlife Biologist, I am writing you with regard to the serious problem of Raven depredations on newborn lambs on Saltspring Island and adjacent areas. In particular, I would like to make two requests:

- (1) I wish to formally request a meeting of the Vancouver Island Region Problem Wildlife Advisory Committee, as soon as possible, to discuss the Raven problem and proposals for Raven control. I understand that this committee has not met since May 27, 1980, and a meeting is long overdue. I would like to attend the next meeting, as would Dr. Steve Mason, our Provincial Sheep Specialist. However, I do not wish to sit as the official representative of the Ministry of Agriculture and Food on this committee, as my responsibilities are province-wide rather than regional.

s.22

and would be unable to attend a Problem Wildlife Committee meeting during that period. If a meeting is scheduled during the summer, my immediate supervisor, Tony Kluge, would be willing to attend in my place. Mr. Kluge is nearly as familiar with the Raven problem as I am, and could equally well present the facts of the problem to the committee.

..... 2

MINISTRY OF ENVIRONMENT
RECEIVED
APR 15 1983
NANAIMO, B.C.

Mr. C.G. Prouse

April 12, 1983

- (2) On behalf of 36 sheep producers on Saltspring Island (list attached), I would like to recommend the issuance of kill permits for Ravens between December 1, 1983 and April 15, 1984 (which includes nearly all of the lambing season). I wrote Mr. Janz on January 24, 1983 to request that similar permits be issued for the latter part of the 1982-1983 lambing season; the response from Doug Turner was forwarded to me by Mr. Janz on February 7, 1983 (copies attached). I have interpreted this response as a refusal to issue such permits. I realize that, under the Wildlife Act, no permit is needed to kill Ravens or other Wildlife which are actually attacking or threatening newborn lambs, providing that such action is taken on the landowner's own property. However, what I am recommending is that permits be issued to allow shooting (with shotguns) or trapping of Ravens throughout the lambing season, not just when newborn lambs are present on a particular farm. The latter practice (shooting Ravens during attacks only) has been carried on by sheep producers for years, and seems to be quite ineffective.

As support for the above requests, I would like to present some information about the Raven depredation problem for your review. A memo sent by Mr. Kluge to Al Pelter, Director of our Livestock Branch (copy attached), summarizes some of this information.

What are changes in sheep pop.?
The Raven problem on Saltspring Island is not new, but has been gradually increasing in severity for many years. Long-time residents of Saltspring assure me that Ravens were rare on the island 20 years ago, but that the incidence of attacks on lambs has increased along with the Raven population. The Christmas Bird Count data, quoted in Mr. Kluge's memo, document a particularly dramatic increase in Raven numbers in the last five years. Raven numbers are abnormally high on Saltspring Island throughout the year, and this undoubtedly accounts for much of the problem. I would estimate that 100 or more lambs per year are killed by Ravens on Saltspring Island alone, in addition to other lambs and full-grown ewes which are injured but not killed. This amounts to an economic loss of more than \$10,000 per year.

To provide more specific data, I have appended copies of a questionnaire about Raven attacks on lambs to this letter. These give details of the problems experienced by individual sheep producers.

..... 3

Mr. C.G. Prouse

April 12, 1983

The usual pattern of Raven attacks on lambs seems to be that a group of 5 to 20 birds will attack a lamb as soon as it is born, attempting first to peck out the eyes. If they are successful in this, the lamb becomes quite helpless and is easily killed by the birds unless the mother is very protective. Attacks are commonest when a ewe has twin lambs (which is the rule in some flocks), because the ewe is unable to protect both lambs at once. If the birth is difficult and the ewe shows signs of weakness, such as failing to stand up afterward, the Ravens will often attack her as well, causing severe and sometimes fatal injuries.

Raven depredations are by no means confined to Saltspring Island, although the problem is worst there, probably because of the large number of sheep. I have heard reports of Raven attacks on lambs from Mayne Island, Saturna Island, the Saanich Peninsula, the William Head area west of Victoria, and the Comox area, as well as from the B.C. interior. As you may know, a year-round open season on Ravens has been established in parts of Region 4 (Kootenay) because of complaints of depredations by both sheep ranchers and cattle ranchers.

Sheep are not the only domestic animals attacked. As suggested above, calves are sometimes attacked. Mr. Kluge's memo mentions a loss of about 300 piglets in the Lumby area in 1982 to Raven predation, and piglets have also been killed on Saltspring and Vancouver Islands. Many people to whom I have spoken have reported losses of duck nests or newly-hatched ducklings or chicks to Ravens. In short, nearly all domestic animals small or helpless enough to be vulnerable are potential prey for Ravens, although the loss of lambs is of greatest significance.

In addition to domestic animals, wildlife may have suffered considerably from the high Raven populations on Saltspring Island. Predation on Blue Grouse and California Quail chicks has been reported, and several island residents believe, perhaps correctly, that Ravens have been responsible for a sharp drop in Blue Grouse numbers. A Great Blue Heron colony was thought to have been abandoned because of Raven predation, and Raven attacks in the heronry have been reported in its present location near Ganges.

Other than simply issuing shooting/trapping permits, a possible approach to the problem of Raven predation would be to establish an open season on Raven in all or part of Region 1, as has been done in Region 4. Another approach, which I support, would be to remove the Raven from the list of protected birds throughout B.C. The depredation problems are certainly widespread enough that removal of protection merits serious consideration. This subject is one which should properly be dealt with by the Provincial Problem Wildlife Committee, and in fact, it was mentioned by Mr. Kluge at the last Provincial Committee meeting in December 1982. Mr. Kluge and I will be preparing a detailed submission in support of removing the Raven

..... 4

Mr. C.G. Prouse

April 12, 1983

from the protected list for consideration by the Provincial Problem Wildlife Committee. In view of the recent increase in Raven populations throughout much of British Columbia, and of the difficulty of shooting this wary bird, it seems unlikely that lack of protection would cause a province-wide decrease in numbers, any more than it has done with the Common or Northwestern Crows. However, it would make things easier for the rancher or farmer faced with the necessity of protecting his livestock, by eliminating the need of going through the red tape of applying for a permit every year.

In addition to issuance of kill permits, establishing an open season, or removal from the protected list, I believe that a specific control program is needed on Saltspring Island. The number of Ravens there is amazingly high, even in summer, when large concentrations are not expected. During a brief visit on June 24, 1982, Mr. Kluge and I saw more than 40 Ravens, of which about 30 were in the immediate vicinity of the Blackburn Road dump. The dump itself certainly has much to do with the high Raven numbers on the island, and some of the heaviest losses of lambs have occurred on farms near the dump. I understand that there have been problems in the operation of the dump, such that garbage has been left uncovered for several weeks, attracting large numbers of Ravens. However, it seems doubtful that any action short of requiring daily compaction and covering of garbage would do much to discourage Raven concentrations. Unfortunately, Waste Management Branch guidelines apparently require daily covering of garbage only for disposal sites serving 10,000 people or more, which would not apply to Saltspring Island.

If improvements in the operation of the dump are not possible or are ineffective, the only alternative would seem to be control of Ravens by lethal methods, such as trapping or netting. Provided that the birds can be trapped, population reduction should be feasible, because Ravens have a relatively low reproductive potential and are non-migratory birds which usually do not move long distances. Possible approaches include use of a modified Australian Crow Trap (which has been used successfully elsewhere) and attracting birds to a bait such as a carcass, and then capturing them with a camouflaged cannon net or rocket net. (I would not recommend poisoning because of the hazard to non-target species such as eagles.) Control measures such as these are likely to be unpopular with some naturalist or animal protection groups, and should be thoroughly discussed and approved by the Regional Problem Wildlife Committee before being implemented.

..... 5

Mr. C.G. Prouse

April 12, 1983

In summary, I feel that the problem of Raven attacks on domestic animals is serious enough to warrant removing the species from the protected list, establishing an open season in part of Region 1, or at the very least, issuing liberal permits which would allow individual sheep producers to kill Ravens throughout the lambing season. In addition, I believe that a population reduction program on Saltspring Island is called for to alleviate the particularly severe problems there. I request that a meeting of the Regional Problem Wildlife Committee be called as soon as possible to discuss this and other problems, to decide whether a control program is needed, and to suggest preferred control methods, if a control program is deemed necessary.

Sincerely,

Wayne C. Weber

Wayne C. Weber,
Bird Control Specialist,
Crop Protection Branch.

WCW/lms
Encl.

cc: Mr. H.A. Kluge, Biologist, Vertebrate Pest Mgmt., B.C.M.A.F., Summerland
Mr. J.C. Arrand, Director, Crop Protection Br., B.C.M.A.F., Victoria
Dr. S. Mason, Sheep Specialist, B.C.M.A.F., Abbotsford
Mr. D.C. Crossfield, District Agriculturist, B.C.M.A.F., Duncan
Mr. D.W. Janz, Regional Wildlife Biologist, B.C.M.E., Nanaimo
Mr. D.V. Turner, Regional Conservation Officer, B.C.M.E., Nanaimo
Mr. W.T. Munro, Bird Management Biologist, B.C.M.E., Victoria

JO F

Waste Management Branch

1815 Blanshard Street
Victoria, B.C. V8V 1X5

Telephone: 387-1724

April 25, 1983

Our File: PR 1839

Mr. S. Filkow,
Box 1371,
Ganges, B.C. V0S 1E0



Dear Mr. Filkow:

This letter is to confirm our telephone conversation of April 25, 1983, in which I stated:-

1. That your letter of April 21, 1983, did not contain the previous correspondence referred to in the letter, and
2. That the address used was incorrect; the proper address being:

Waste Management Branch,
Vancouver Island Region,
Fourth Floor - 1815 Blanshard Street,
Victoria, B.C. V8V 1X5

Yours truly,

A handwritten signature in dark ink, appearing to be "K.H. Austin".

K.H. Austin,
Waste Management Branch,
Vancouver Island Region.

KHA/ew

SIDNEY FILKOW

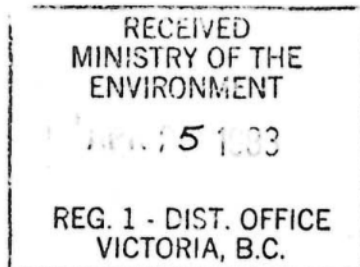
Barrister & Solicitor

BOX 1371, GANGES, BRITISH COLUMBIA V0S 1E0 - TELEPHONE 537-9572

- No enclosures requested by Telephone 25/4/83
- informed Mr Filkow of proper address.
- Sent letter 25/4/83

April 21, 1983

Department of the Environment
Waste Management Branch
810 Blanshard
Victoria, B.C.



Attn: Mr. McLaren and Mr. Austin

Dear Sirs:

Re: Blackburn Road Dump, Salt Spring Island

I enclose previous correspondence written on behalf of my client relative to the above matter. My client's observations that this dump is not being operated in accordance with the provisions of its permit is confirmed by the recent report of Mr. Richard McKellar planner for the Islands Trust. It is my client's position that:

1. The operation of the dump is an immediate health hazard and a danger to neighboring property; and
2. The Department of the Environment has been negligent in failing to enforce the provisions of the permit under which the dump operates.

My client therefore demands that your department take immediate steps to ensure that the terms of the permit are strictly adhered to without any further delay and that, failing such compliance, the permit be revoked. My client also request that the terms of the permit be reviewed as they are, in the opinion of my client, inadequate to ensure protection of health and property.

Failure of your department to enforce the provisions of the permit may result in legal action by my client to force your department to carry out its duty. Further, should any loss or damage occur to my client due to the inadequate operation of the dump my client will hold your department responsible therefore.

I would appreciate an early reply to my letter advising me of your intentions in this regard.

Yours truly,

S. Filkow

WASTE MANAGEMENT BRANCH

file PR-1839
copy to Marlene
Cassidy, Faw.
30/3/83

MEMO TO FILE: PR 1839

DATE: March 24, 1983

FROM: K.H. Austin,
Region 1



RE: Operation of PR 1839

A meeting was held at the Capital Regional District offices on March 23, 1983. Those present were Mrs. Y. Valcourt, Mr. N. Twa, Mr. C. Sommerville, Mr. R. Warman, and Mr. K. Austin.

The purpose of the meeting was to discuss the non-compliance status of the permit, and payment of a subsidy to Mr. Twa by C.R.D.

Discussion was protracted, but the following points were highlights:-

- 1) Mr. Twa stated that he needed a subsidy, or the dump would have to close. When questioned, he said that the dumping fee of approximately \$4.00 per cubic yard would have to double to break even. This might cause illegal dumping.
- 2) Mr. Twa presented a budget that showed a monthly cost of \$3,706.67. Upon examination, it was found that a cost of \$1,600 to \$2,000 was probably more realistic.
- 3) Some discussion ensued on alternative disposal sites on Saltspring Island, or disposal off-Island.
- 4) C.R.D. has available \$7,521.00 per year as the cost of disposal at Hartland Road, pro-rated to the Island population. The recycling depot has already been promised \$3,200.00 of this sum.
- 5) Mr. Twa owns the household collection service on the Island. This is a profitable operation and should obviously pay the major portion of the fixed costs.
- 6) It was suggested that the costs of the operation could be trimmed by confining the discharged refuse to a working face of 50 feet or less. This should give an area to be covered of about 1,000 square feet per week, which should require about 20 cubic yards of cover material. Reduction of the hours that the dump is open should also reduce costs.

...2.

- 7) It was suggested to Mr. Twa that if he operated according to the terms of the permit, particularly with respect to application of cover material and burning of refuse, the C.R.D. would then be able to pay a subsidy for the operation. The amount of any subsidy would be at the discretion of the elected Board.
- 8) It was agreed that Mr. Twa would get the dump into compliance, and try to operate within the terms of the permit. C.R.D. would then authorize a subsidy as applicable.



K.H. Austin,
Vancouver Island Region
Victoria Office

KHA/ew

SALT SPRING GARBAGE SERVICE

COST: PUSHING DUMP WEEKLY

| | | |
|-------------------------------|---|----------|
| - CASE 850 - 4 HRS. @ \$50.00 | - | \$200.00 |
| - CAT MOVE TO SITE | - | 50.00 |

COST: COVER DUMP WEEKLY

| | | |
|-----------------------------------|---|--------|
| - FILL 120 YDS. @ \$4.00 PER YARD | - | 480.00 |
| - CASE 850 TO PUSH FILL | - | 100.00 |
| 2 HRS. @ \$50.00 | - | |

TOTAL WEEKLY COST

| | |
|---|-----------------|
| - | <u>\$830.00</u> |
|---|-----------------|

COST: MONTHLY

| | | |
|--|---|-----------------|
| - GRADING INCOMING ROAD AND DUMP SITE. 2 HRS. @ \$55.00 | - | <u>\$110.00</u> |
|--|---|-----------------|

TOTAL WEEKLY COST:

| | | |
|----------------------------------|---|---------------|
| \$830.00 x 52 = \$43,160.00 ÷ 12 | - | \$3,596.67 |
| MONTHLY COST | - | <u>110.00</u> |

TOTAL MONTHLY COST

| | |
|---|-------------------|
| - | <u>\$3,706.67</u> |
|---|-------------------|

for
file

Waste Management Branch

1815 Blanshard Street
Victoria, B.C. V8V 1X5

Telephone: 387-1724

March 15, 1983

Our File: PR 1839

Capital Regional District,
524 Yates Street,
PO Drawer 1000,
Victoria, B.C. V8W 2S6



Attention: R. Warman, P. Eng.

Dear Bob:

Inspections of the Twa Landfill for the past year have shown the following:-

| <u>Date</u> | <u>Observations</u> |
|-------------|---|
| 02-02-82 | Garbage compacted, but not covered. |
| 03-03-82 | Garbage covered, except for working face. |
| 20-07-82 | Garbage covered, except for working face. |
| 15-11-82 | Garbage covered, except for working face. |
| 24-11-82 | Garbage burning. |
| 11-01-83 | No burning; garbage not properly covered. |

Please find enclosed data from a survey of groundwater contamination in the watershed. The faecal coliform level in the pond may be caused by birds or animals attracted to the landfill, or by discharge of disposable diapers or other faecal-contaminated matter. The landfill was not affecting water quality adversely, at the time of the survey.

Yours truly,

A handwritten signature in dark ink, appearing to be "KHA".

K.H. Austin,
Vancouver Island Region,
Waste Management Branch.

KHA/ew

Enclosure



2569 Kenworth Road, Nanaimo, British Columbia V9T 4P7 / Telephone: (604) 758-3951



GEO → file
cc K. Austin
16/3/83

To: John Finnie
Head
Municipal Section
Waste Management Branch

Date: March 14, 1983

File: 0566/03
PR-1839

Re: Capital Regional District Garbage Dump on Saltspring Island

Further to the memo of December 1982, we wish to reiterate our desire to meet with you and the Capital Regional District to discuss problems at this dump. The residents on Saltspring Island are losing young sheep to ravens and feel that the dump has resulted in an increase in the raven population. We request the opportunity to discuss alternative dump management procedures which would lessen the food supply available to these birds from this source.

Maureen Caskey

P. M. Caskey
Habitat Protection Technician

PMC/sm

cc: D. C. Morrison, Regional Habitat Protection Biologist
D. W. Janz, Regional Wildlife Biologist
C. G. Prouse, Regional Fish and Wildlife Manager
D. V. Turner, Regional Conservation Officer

*Ken: we should request F&W
attendance at our next
meeting with CRD to discuss
situation with Twa dump.*

John



Province of
British Columbia

Ministry of Environment
2569 Kenworth Road
Nanaimo, B.C. V9T 4P7
Phone: (604) 758-3951

MEMORANDUM

file

To: J. O. Finnie,
Head of Municipal Section
Waste Management Branch

Date: December 13, 1982

File: 0566/03
PR - 1839

Re: Capital Regional District Refuse sites at Hartland Road
and Saltspring Island.

TWA DUMP

Gordon Prouse referred your memo of December 1, 1982 to Habitat Protection Section. Please contact Doug Morrison or the undersigned to arrange a compatible date for the proposed meeting, when you are ready to meet with the Capital Regional District.

Thank you.

P. Marlene Caskey

P. M. Caskey
Habitat Protection Technician

PMC/dec

cc: G. Prouse
D. Janz
G. Reid
D. Morrison
K. Austin



~~CEO~~ → file

C. Gordon Prouse
Regional Manager
Fish & Wildlife Branch

Dec. 1/82

File: PR-1839

Re: Capital Regional District/N. Twa Refuse Site
- Saltspring Island -

Reference is made to your memo dated November 10, 1982 regarding the Saltspring Island refuse site. Please be advised that we recognize the problems associated with the operation of this site and intend to take up the matter with the Capital Regional District. We have been awaiting resolution of an outstanding amendment to the Hartland Road (Victoria) landfill Permit, at which time we will schedule a meeting with representatives of Capital Regional District to address the operation of both sites. A Fish and Wildlife representative would be welcome to attend this meeting should you wish your interests to be addressed.



J. O. Finnie, P. Eng.
Head,
Municipal Section

JOF/mrb

cc: K.H. Austin



Province of
British Columbia

Ministry of Environment
2569 Kenworth Road
Nanaimo, B.C. V9T 4P7
Phone: (604) 758-3951

MEMORANDUM

Fish And Wildlife Branch

*JOF - discuss with me.
Ted*

18-1 0187; 0773

TO: G. E. Oldham, Regional Manager
Waste Management Branch

10 November, 1982

RE: Blackburn Road Dump - Saltspring Island



Discussions with Ministry of Agriculture & Food pertaining to problems with raven predation on new-borne lambs indicate that the above garbage dump, and lack of adequate waste disposal procedures, is maintaining an unnaturally high local raven population.

Apparently a Mr. Norman Kwa is hired by the Capital Regional District to operate the dump, but he has not been paid for three years (?) and is therefore reluctant to expend much effort at maintenance. Further, it appears that alternate methods of garbage disposal (incineration ?) for the above dump are being studied by the Capital Regional District.

Could you clarify this situation? In addition to raven problems, local residents view the present dump as a health hazard.

C. G. Prouse
Regional Manager

DWJ:bms
bcgeu

Waste Management Branch

File: PE-4361

PR-1839

December 1, 1982

Saltspring Island Planning Association,
P.O. Box 12,
Ganges, B. C.
VOS 1E0

Attn: David E. Skinner

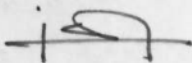
Gentlemen:

Thank you for your letter of November 5, 1982 regarding the Acheson Road septic lagoon facility and the Twa refuse site. In reference to the concerns raised in your letter, we advise as follows:

1. The ground water monitoring wells at the Acheson Road site have recently been deepened such that they intercept the ground water table. There was water present in the north and east wells on a recent inspection, and samples of this water will be taken for coliform analyses at the next convenient opportunity.
2. A program for monitoring selected surface and ground water sites will be established to determine whether these waters are being affected by the Twa refuse site. Blackburn Lake, the Twa well, a stream south of the landfill, and water from the on-site excavations will be sampled. Blackburn Creek and/or an upland well will serve as control sites. Parameters for initial analysis will include organochlorines, heavy metals, pH and conductivity. If no evidence of contamination is found, the program will be reduced accordingly.

We will advise you of our findings in due course.

Yours truly,



J. O. Finnie, P. Egg.
Head,
Municipal Section

cc: K.H. Austin

X

JOF/mrb

Permit No: PR 1839Inspected by: KHAName: TWA & CRDDate: 24/11/82Location: SALTSPRING ISWeather: SUNNYContacted: —Works: SANITARY LANDFILL

Items: Flow

| General | Effluent | Air | Refuse |
|--------------------------|---------------------------------|----------------------|----------------------|
| Housekeeping <u>FAIR</u> | Colour <u>—</u> | Ring. <u>—</u> | Cover <u>PARTIAL</u> |
| Flow Measur. <u>—</u> | Turbid. <u>—</u> | Temp. <u>—</u> | Odour <u>NONE</u> |
| Sampling Pac. <u>—</u> | pH <u>—</u> | Colour <u>—</u> | Leach. <u>—</u> |
| Records <u>—</u> | Resid. Cl ₂ <u>—</u> | Particulate <u>—</u> | L. Colour <u>—</u> |
| Monitoring <u>—</u> | Floatables <u>—</u> | <u>—</u> | L. Odour <u>—</u> |
| | Odour <u>—</u> | <u>—</u> | <u>—</u> |
| | D.O. <u>—</u> | <u>—</u> | <u>—</u> |

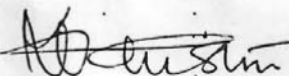
Comments: REFUSE BEING BURNED, SOME ATTEMPT HAS BEEN MADE TO DIRECT DISCHARGE TO A SELECTED AREA HOWEVER REFUSE IS SCATTERED ALONG 100-150 FT OF BANK. GROUND WATER PRESENT IN EXCAVATIONS ADJACENT, BUT NO VISUAL EVIDENCE OF POLLUTION - WATER GREENISH & CLEAR. A PROGRAMME OF MONITORING SELECTED SURFACE & GROUNDWATER SITES WILL BE ESTABLISHED TO DETERMINE WHETHER LOCAL WATERS ARE BEING AFFECTED BY THE LANDFILL → PTD.

Plans submitted: —

Monitoring submitted: —Instructions left with Permittee: NONEStatus of Permit: % BURNING

Action recommended: ALL PAST ACTIONS HAVE NOT BROUGHT THIS PERMIT INTO COMPLIANCE. THE ONLY ACTION THAT WILL BE EFFECTIVE IS FOR CRD TO PURCHASE THE SITE OR ANOTHER ONE AND RUN IT PROPERLY.

Signed



COMMENTS CONT'D

BLACKBURN LAKE (WHICH IS A WATER SUPPLY),
THE TWA WELL, AND A SMALL STREAM SOUTH
OF THE LANDFILL WILL BE USED TOGETHER WITH
SAMPLES FROM THE EXCAVATIONS WHEN THEY
HAVE WATER PRESENT. AN UPSTREAM SITE ON
BLACKBURN CREEK AND/OR AN UPLAND WELL
CAN SERVE AS CONTROLS. INITIAL PARAMETERS:-
ORGANOCHLORINE SCAN, HEAVY METALS SCAN, pH,
AND CONDUCTIVITY. THIS CAN BE REDUCED IF
NO EVIDENCE OF LEACHATE IS FOUND TO pH,
CONDUCTIVITY & IRON.

Permit No: PR 1839
 Name: TWA - CRD
 Location: SALTSPRING ISLAND
 Contacted: no one
 Works: community refuse site

Inspected by: DMCLAREN
 Date: NOV. 15/82
 Weather: cloudy



Items: Flow

| General | Effluent | Air | Refuse |
|--------------------------|------------------------|-------------|--------------------|
| Housekeeping <u>fair</u> | Colour | Ring. | Cover <u>YES</u> |
| Flow Measur. | Turbid. | Temp. | Odour <u>NO</u> |
| Sampling Fac. | pH | Colour | Leach. <u>NONE</u> |
| Records | Resid. Cl ₂ | Particulate | L. Colour |
| Monitoring | Floatables | | L. Odour |
| | Odour | | |
| | D.O. | | |

Comments: - a layer of cover has been recently applied over the entire surface. The edges of the garbage layer have not yet been covered although it appeared that the face height has been lessened

Plans submitted: ☒

Monitoring submitted: ☒

Instructions left with Permittee:

Status of Permit: o/c - edges of garbage lift have not been covered

Action recommended: none at this time

Signed DMclaren

SALT SPRING ISLAND
PLANNING ASSOCIATION

s.22



PE-4361
PR-1839

05 NOVEMBER 1982

MINISTRY OF THE ENVIRONMENT
WASTE MANAGEMENT BRANCH
2569 KENWORTH
NANAIMO, B.C.

GENTLEMEN:

ON BEHALF OF THE PLANNING ASSOCIATION,
I WISH TO THANK YOU FOR SENDING MR. JOHN
FINNEY TO SPEAK AT OUR OCTOBER MEETING. WE
THOROUGHLY ENJOYED HIS INFORMATIVE PRESENT-
ATION.

SOME OF OUR DIRECTORS, AFTER HEARING MR.
FINNEY'S PRESENTATION, AND UPON PERSONAL INVER-
TIGATION OF THE CURRENT SITUATION, HAVE
EXPRESSED CONCERN OVER THE ADEQUACY OF
THE BRANCH'S MONITORING OF DUMP SITES.

WE ARE PARTICULARLY CONCERNED WITH
THE LACK OF DEPTH OF THE MONITORING WELLS
AT THE ACHESON ROAD SITE. WE ARE ALSO QUITE
DISTURBED BY THE LACK OF TESTING FOR HEAVY
METALS AND PESTICIDES THROUGHOUT THAT PART.

MINISTRY OF ENVIRONMENT
WASTE MANAGEMENT - 2 -

05 NOVEMBER 1982

OF THE BLACKBURN LAKE WATERSHED, WHICH IS
DOWNSTREAM FROM THE TWA DUMP. WE WOULD
ENCOURAGE YOU TO INVESTIGATE THESE TWO AREAS
OF CONCERN. WE LOOK FORWARD TO HEARING FROM
YOU IN THIS REGARD.

THANKING YOU IN ADVANCE FOR YOUR
CO-OPERATION, WE REMAIN,

SINCERELY YOURS,

s.22

FOR THE
SALT SPRING ISLAND
PLANNING ASSOCIATION

s.22

Waste Management Branch
Vancouver Island Region Sub-office
1815 Blenheim Street
Victoria, B.C. V8V 1X5

Telephone: 387-1724

NANAIMO

Our File: PR 1839

file

August 4, 1982

Capital Regional District,
524 Yates Street,
PO Drawer 1000,
Victoria, B.C. V8W 2S6

Gentlemen:

Re: Pollution Control Permit PR 1839
- Saltspring Island Refuse Site -

A recent inspection of the refuse site by this office, revealed that no cover material is being applied to the edge of the garbage layer, leaving a large area of exposed garbage.

We would request that the garbage edge be sealed with a minimum 6-inch layer of soil cover. In the future, intermediate soil cover applications should include covering the edge of the garbage lift.

If you have any questions in this regard, please contact the undersigned.

Yours truly,

D McLaren

D. McLaren,
Vancouver Island Region,
Waste Management Branch.

DMCL/ew

cc: Mr. N. Twa, PO Box 255, Ganges, B.C. V0S 1E0



MEMORANDUM

TO: D. McLaren
WASTE MANAGEMENT VICTORIA

FROM: JOHN FINNIE
NANAIMO

SUBJECT: SITE INSPECTION RECOMMENDATIONS

DATE: JULY 26 '82

☐ For Your Information
☐ Please Process

☐ Please O.K. and Return
☐ Return With More Details

☐ Please Discuss With Me
☐ Investigate and Report

☐ Per Your Request
☐ Please Answer

☐ For Your Signature
☐ For Your File

- ① PR 1839 TWA - CRD : SEND LETTER AS RECOMMENDED
- ② PE - 4361 GULF ISLAND SEPTIC : DISCUSS WITH KHA. SEND LETTER RE GROUNDWATER WELLS, FENCING AND POSTING OF SIGNS.
- ③ PR - 1284 HARTLAND : ARRANGE FOR SAMPLING OF WELL ② #10 HARTLAND RD (WICKS). FURTHER ACTION MAY BE REQUIRED UPON MINISTER'S RESPONSE TO LETTER (WHICH I AM DRAFTING). SUGGEST YOU DISCUSS DEBRIS CARRY-OUT WITH OPERATOR. IT SHOULD BE ELIMINATED IF POSSIBLE. I PRESUME PROBLEMS ARE RELATED TO LACK OF COVER MAT'L (HOG FUEL) ?

John

WRITE YOUR REPLY AND RETURN THIS SHEET

Permit No: PR1839
 Name: TWA - CRD
 Location: SALTSRING ISLAND
 Contacted: no-one
 Works: refuse site

Inspected by: D. MCLAREN
JULY 20/82
OVERCAST



Items: Flow

| General | Effluent | Air | Refuse |
|--------------------------|------------------------|-------------|--------------------|
| Housekeeping <u>O.K.</u> | Colour | Ring. | Cover <u>YES</u> |
| Flow Measur. | Turbid. | Temp. | Odour <u>YES</u> |
| Sampling Fac. | pH | Colour | Leach. <u>NONE</u> |
| Records | Resid. Cl ₂ | Particulate | L. Colour |
| Monitoring | Floatables | | L. Odour |
| | Odour | | |
| | D.O. | | |

Comments: - cover material has been applied to the entire site although the edges are not being covered, leaving a 18ft. height of exposed garbage along the entire face.
 - combustible debris has been segregated & a sign is posted re: no dumping of refuse in the segregated area.

Plans submitted: -
 Monitoring submitted: -

D. Instructions left with Permittee: -

E. Status of Permit: O/C - no cover material on the edges of the refuse.

F. Action recommended: - suggest a letter be sent instructing the permittee to extend cover material over the edge of the lift to seal the exposed face.

Signed D. McLaren

PERMIT INSPECTION

SAMPLING INSPECTION

A. Permit No: PR 1839
 Name: TWA - CRD
 Location: SALTSPRING
 Contacted: -
 Works: domestic refuse site



Inspected by: D. McLAREN
 Date: MAR 3/82
 Weather: overcast

B. Items: Flow

| General | Effluent | Air | Refuse |
|---------------------------|------------------------|-------------|---------------------|
| Housekeeping <u>good.</u> | Colour | Ring. | Cover <u>yes</u> |
| Flow Measur. | Turbid. | Temp. | Odour <u>slight</u> |
| Sampling Fac. | pH | Colour | Leach. <u>no</u> |
| Records | Resid. Cl ₂ | Particulate | L. Colour <u>-</u> |
| Monitoring | Floatables | | L. Odour <u>-</u> |
| | Odour | | |
| | D.O. | | |

C. Comments: - improvements have been made to the operation of the dumpsite. Fresh cover has been applied to the site and traffic is now directed to one dumping area. The rest having been cordoned off, with signs erected directing to one dumping area. About 2 ft. of soil cover has been applied - the dump face is still exposed along the entire fill area. Combustible material for burning has been segregated.

Plans submitted: -
 Monitoring submitted: -

D. Instructions left with Permittee: -

E. Status of Permit: I/C

F. Action recommended: none

Signed

D. McLaren

A. Permit No: PR 1839
 Name: CRD-TWA
 Location: SALTSPRING ISLAND
 Contacted: -
 Works: municipal refuse site

Inspected by: D. McLaren
 Date: Feb 2/82
 Weather: overcast



B. Items: Flow

| General | Effluent | Air | Refuse |
|-------------------------------|------------------------|-------------|---------------------|
| Housekeeping <u>very poor</u> | Colour | Ring. | Cover <u>no</u> |
| Flow Measur. | Turbid. | Temp. | Odour <u>slight</u> |
| Sampling Fac. | pH | Colour | Leach. <u>no</u> |
| Records | Resid. Cl ₂ | Particulate | L. Colour |
| Monitoring | Floatables | | L. Odour |
| | Odour | | |
| | D.O. | | |

C. Comments: - compaction of refuse has been carried out but no cover applied. The entire fill area is exposed.
Samples were taken of surface water at the pond below the fill and at the ditch below Blackburn Rd.

Plans submitted: -

Monitoring submitted: -

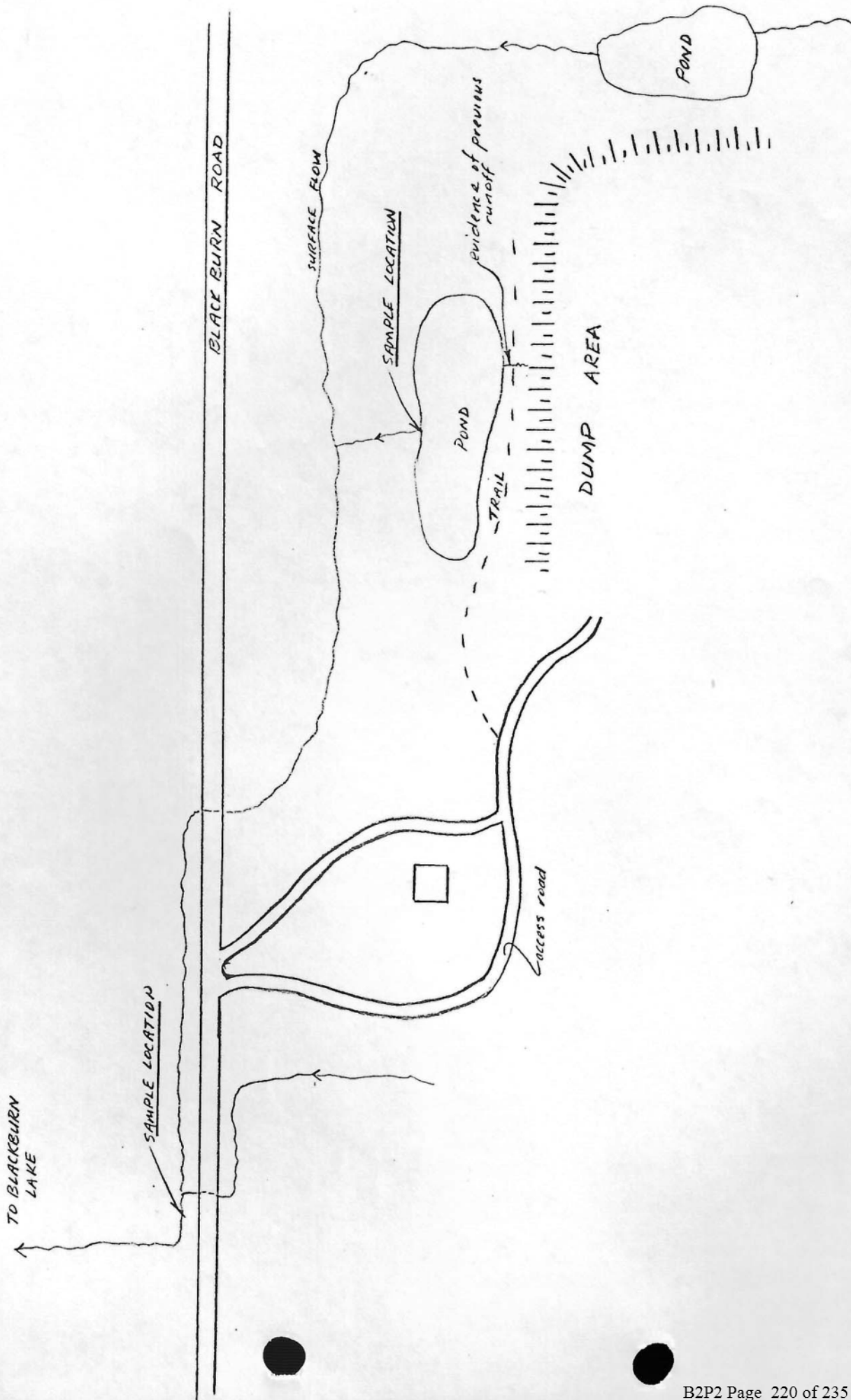
D. Instructions left with Permittee: -

E. Status of Permit: O/c - no cover applied

F. Action recommended: -

Signed

D. McLaren



CRD - TWA DUMP
PR 1839
FEB. 2/82

INSPECTION ☒SAMPLING INSPECTION ☐ *file*

Permit No: PR 1839
 Name: TWA - CRD
 Location: SALTSPRING ISLAND
 Contacted: -
 Works: refuse dump site

Inspected by: D. McLAREN
 Date: NOV. 18/81
 Weather: overcast

B. Items: Flow

| General | Effluent | Air | Refuse |
|--------------------------|---------------------------------|----------------------|--------------------|
| Housekeeping <u>poor</u> | Colour <u>-</u> | Ring. <u>-</u> | Cover <u>NO</u> |
| Flow Measur. <u>-</u> | Turbid. <u>-</u> | Temp. <u>-</u> | Odour <u>Some</u> |
| Sampling Fac. <u>-</u> | pH <u>-</u> | Colour <u>-</u> | Leach. <u>NO</u> |
| Records <u>-</u> | Resid. Cl ₂ <u>-</u> | Particulate <u>-</u> | L. Colour <u>-</u> |
| Monitoring <u>-</u> | Floatables <u>-</u> | <u>-</u> | L. Odour <u>-</u> |
| <u>-</u> | Odour <u>-</u> | <u>-</u> | <u>-</u> |
| <u>-</u> | D.O. <u>-</u> | <u>-</u> | <u>-</u> |

C. Comments: - no cover material has been applied for some time leaving exposed garbage over the full length of the site and about 50' wide.

Plans submitted: -Monitoring submitted: -D. Instructions left with Permittee: -E. Status of Permit: O/C - no cover

F. Action recommended: - some action against the permit holders is required to get a quick resolution to this problem (see JWT letter of Nov 28/80).

Signed

D. McLaren

Waste Management Branch
Vancouver Island Region Sub-office
1815 Ashard Street
Victoria, B.C. V8V 1X5

Telephone: 387-1724

file



September 17, 1981

Our File: PR 1839

Capital Regional District,
524 Yates Street,
PO Drawer 1000,
Victoria, B.C. V8W 2S6

Attention: N. Howard, P. Eng.

Dear Mr. Howard:

The sanitary landfill operated by Mr. Twa on Saltspring Island was inspected on September 15, 1981. It was noted that the refuse was burning, and that refuse was being discharged along a working face of about 150-200 feet. The refuse has not been covered and compacted as required in the Permit.

We would request that you take action to bring the Permit into compliance.

Yours truly,

A handwritten signature in dark ink, appearing to be "KHA".

K.H. Austin,
Vancouver Island Region.

KHA/ew

IT INSPECTION ☒SAMPLING INSPECTION ☐

Permit No: PR 1839
 Name: CRD & TWA
 Location: SALTSPRING IS.
 Contacted: OPERATOR
 Works: SANITARY LANDFILL

Inspected by: KHA
 Date: SEP 15/81
SUNNY



B. Items: Flow

| General | Effluent | Air | Refuse |
|--------------------------|------------------------|-------------|---------------------|
| Housekeeping <u>POOR</u> | Colour | Ring. | Cover <u>NO</u> |
| Flow Measur. <u>-</u> | Turbid. | Temp. | Odour <u>SLIGHT</u> |
| Sampling Fac. <u>-</u> | pH | Colour | Leach. <u>NO</u> |
| Records <u>-</u> | Resid. Cl ₂ | Particulate | L. Colour <u>-</u> |
| Monitoring <u>-</u> | Floatables | | L. Odour <u>-</u> |
| | Odour | | |
| | D.O. | | |

C. Comments: REFUSE IS STILL BEING DISCHARGED ALONG ALL OF THE WORKING FACE. THE WESTERN END OF THE FACE IS STILL BURNING. NO ATTEMPT HAS BEEN MADE TO RESTRICT DUMPING TO ONE AREA.

Plans submitted: -Monitoring submitted: -D. Instructions left with Permittee: NONEE. Status of Permit: 9% BURNING, COVERING.F. Action recommended: INFORM CRD (LETTER SENT 17/9/81)

Signed

INSPECTION



INSPECTION



Permit No: PR 1839
 Name: CRD - TWA
 Location: SALTSPRING ISLAND
 Contacted: -
 Works: refuse dump site

Inspected by: DMCLAREN
 Date: SEPT. 9/81
 Weather: overcast,
rain

5. Items: Flow

General

Housekeeping

Flow Measur.

Sampling Fac.

Records

Monitoring

Effluent

Colour

Turbid.

pH

Resid. Cl₂

Floatables

Odour

D.O.

Air

Ring.

Temp.

Colour

Particulate

Refuse

Cover

Odour

Leach.

L. Colour

L. Odour

6. Comments: - cover had recently been applied over the
entire site consisting of a thin application of shale.
- the north side of the refuse area
was smouldering, giving rise to dense smoke.

Plans submitted: -Monitoring submitted: -

7. Instructions left with Permittee: -

8. Status of Permit: o/c - burning

9. Action recommended: - the CRD's Mrs. Valcourt is studying
options available for handling the island's
refuse. - await results on this.

Signed

DMclaren



COMPLAINT FORM

Date: AUG. 18/81.
Phone: _____

Complaint by s.22
Address s.22

Location of Complaint (address, area, etc.) - TWA DUMP ON SALTSPRING ISLAND

Material causing complaint (effluent, refuse, air emission) - smoke.

Length of time problem has existed - today

Other Agencies notified - fire dept on Saltspring

Additional details - the dumpsite is on fire creating heavy smoke.

Complaint received by Dmcharen.

Investigation Assigned to " Date AUG 18/81.

Results AUG. 18/81 - the dumpsite was visited and was found to be smouldering along the entire face. The site had been recently levelled with a thin application of cover material evident. Mrs. Fura was contacted. she says the fire broke out last night and the Fire Department were called in this morning to douse it out.
AUG. 26/81 - VLAD was contacted regarding the situation at the dumpsite today. He says there was no smoke from there this morning & thinks the rain over the last few days has extinguished the fire.

Sandy Calguohann (C.R.D.) phoned to inform us that they would be meeting today to discuss the Twa dumpsite

further information tomorrow.

AUG. 27 - Mr. Houston (CRD PUBLIC HEALTH INSPECTOR) was contacted. He had received several complaints re: the burning problem & wanted to know if the poor operation at this site would be resolved. I told him that the CRD waste committee had met yesterday & they were to discuss management of this site. He will contact ^{s.22} [redacted] to find out what transpired at this meeting

WASTE MANAGEMENT BRANCH

MEMO TO FILE: PR 1839

DATE: July 24, 1981

FROM: D. McLaren,
Region 1

RE: Burning at Twa Dump - Saltspring Island

Mr. B. Warman of the Capital Regional District phoned to inform us that the Twa garbage dump was on fire and that the health inspector was concerned about the health hazards. The C.R.D. have been withholding funds from Mr. Twa recently, but this does not seem to be effecting a better-run operation.

Mr. Twa could not be reached by phone, but his wife (?) was contacted July 23, regarding the problem. She said the dump had caught fire on the weekend and the fire department had extinguished it earlier this week.

I visited the garbage dump on July 23, and at that time, the garbage face along two-thirds of the site was smouldering, with no open flame evident. All visible garbage on the face was devoid of combustibles, so the fire must have been well established. The smoke from the smouldering face was only visible upon entering the site, and did not seem to carry any distance, discounting any need for further action.

The centre of the fill has been recently covered, and dumping of fresh refuse was being carried out at both ends. Fresh refuse is being dumped beside the stockpile of stumps and combustible inert debris, which appears to have been set aside for burning. This is contrary to our objectives, which require a 50 foot break between the burning area and the refuse fill area. This poses a fire hazard should the fill area catch fire again, as the stockpiled debris may catch fire at a time when forest fire hazards are high.

D. McLaren
D. McLaren,
Vancouver Island Region

DMcL/ew

cc: ✓ Regional Waste Manager, Nanaimo



650

INSPECTION ☐SAMPLING INSPECTION ☒Permit No: PR 1839Inspected by: D. McLARENName: TWA, CRDDate: JUNE 30/81Location: SALTSPRINGWeather: SUNNYContacted: -Works: Level C municipal refuse site

B. Items: Flow

| General | Effluent | Air | Refuse |
|--------------------------|------------------------|-------------|---------------------|
| Housekeeping <u>poor</u> | Colour | Ring. | Cover <u>NONE</u> |
| Flow Measur. | Turbid. | Temp. | Odour <u>slight</u> |
| Sampling Fac. | pH | Colour | Leach. <u>NONE</u> |
| Records | Resid. Cl ₂ | Particulate | L. Colour |
| Monitoring | Floatables | | L. Odour |
| | Odour | | |
| | D.O. | | |

C. Comments: - no cover material has been applied for some time resulting in a large area of exposed garbage (length of fill dump area by \approx 60 feet)
- No burning at the site

Plans submitted: -Monitoring submitted: -D. Instructions left with Permittee: -E. Status of Permit: O/C - no coveringF. Action recommended: -

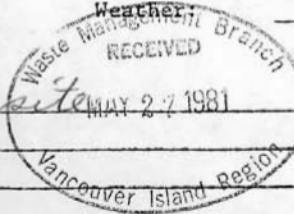
Signed

D. McLaren

INSPECTION ☒SAMPLING INSPECTION ☐

Permit No: PR1839.
 Name: TWA - CRD DUMP SITE
 Location: SALTSPRING ISLAND
 Contacted: landfill employee
 Works: level & refuse site

Inspected by: D. MCLAREN
 Date: MAY 25/81
 Weather: Sunny



B. Items: Flow

| General | Effluent | Air | Refuse |
|--------------------------|---------------|-------------|--------------------|
| Housekeeping <u>O.K.</u> | Colour | Ring. | Cover <u>YES.</u> |
| Flow Measur. | Turbid. | Temp. | Odour <u>NO</u> |
| Sampling Fac. | pH | Colour | Leach. <u>NONE</u> |
| Records | Resid. Cl_2 | Particulate | L. Colour |
| Monitoring | Floatables | | L. Odour |
| | Odour | | |
| | D.O. | | |

C. Comments: - a layer of cover material was applied within the week. No burning at the site apart from minor smouldering at one corner of the face.
- stumps, are being stockpiled on one side of the site, I assume for burning.

Plans submitted: -Monitoring submitted: -D. Instructions left with Permittee: noneE. Status of Permit: I/cF. Action recommended: none

Signed

Dmclaren

Permit No: PR1831
 Name: N. TWA & CRD
 Location: SALTSPRING IS
 Contacted: R. WARMAN & S. COLQUHOUN OF CRD.
 Works: _____

Inspected by: TJA *File.*
 Date: 11/6/81
 Weather: SUNNY

Items: Flow

| General | Effluent | Air | Refuse |
|--------------------------|------------------------------|-------------------|----------------------------|
| Housekeeping <u>POOR</u> | Colour _____ | Ring. _____ | Cover <u>NONE RECENTLY</u> |
| Flow Measur. _____ | Turbid. _____ | Temp. _____ | Odour <u>YES</u> |
| Sampling Fac. _____ | pH _____ | Colour _____ | Leach. <u>NO</u> |
| Records _____ | Resid. Cl ₂ _____ | Particulate _____ | L. Colour <u>NO</u> |
| Monitoring _____ | Floatables _____ | _____ | L. Odour <u>NO</u> |
| | Odour _____ | | |
| | D.O. _____ | | |

Comments: REFUSE WAS COVERING AN AREA ABOUT 700' X 40'
NO ATTEMPT AT COVERING AND COMPACTION. DISCUSSED
METHODS OF OBTAINING COMPLIANCE FROM MR TWA
WITH CRD STAFF. MR TWA HAS ASKED FOR SUBSIDY IF
OPERATION TO BE RAISED TO 2000⁰⁰ PER MONTH.
AT PRESENT THE REFUSE IS SMOLDERING AT ONE
END OF THE PILE

Plans submitted: _____
 Monitoring submitted: _____

Instructions left with Permittee: NONE

Status of Permit: 1/2 COMPACTION, COVER & BURNING.

Action recommended: SUPPORT CRD EFFORTS TO OBTAIN COMPLIANCE
WITH PERMIT FROM MR TWA

Signed

[Signature]

387-1712

March 19, 1981

File: PR 1839

Capital Regional District,
PO Drawer 1000,
524 Yates Street,
Victoria, B.C. V8W 2S6

Attention: Mr. F. Raimondo

Gentlemen:

Re: Pollution Control Permit PR 1839
On Behalf of Capital Regional District and Mr. W. Twa;
Dated January 16, 1979.

The refuse disposal site covered by the subject permit was inspected on March 11, 1981. The refuse was burning at the time, contrary to permit requirements.

We would, therefore, request that the grant normally provided, be withheld.

Yours truly,

Imcharen

D. McLaren,
Waste Management Branch,
Vancouver Island Region.

DMC/ew

PERMIT INSPECTION ☐

INSPECTION REPORT
SAMPLING INSPECTION ☒

Permit No: PR 1839
Name: TWA - CRD DUMP
Location: SALTSPRING ISLAND
Contacted: -
Works: Level C refuse dumpsite

Inspected by: D. MCLAREN
Date: MAR. 11/81
Weather: SUNNY

B. Items: Flow

| General | Effluent | Air | Refuse |
|--------------------------|------------------------|----------------------|--------------------|
| Housekeeping <u>poor</u> | Colour <u>-</u> | Ring. <u>-</u> | Cover <u>yes</u> |
| Flow Measur. <u>-</u> | Turbid. <u>-</u> | Temp. <u>-</u> | Odour <u>no</u> |
| Sampling Fac. <u>-</u> | pH <u>-</u> | Colour <u>-</u> | Leach. <u>no</u> |
| Records <u>-</u> | Resid. Cl_2 <u>-</u> | Particulate <u>-</u> | L. Colour <u>-</u> |
| Monitoring <u>-</u> | Floatables <u>-</u> | | L. Odour <u>-</u> |
| | Odour <u>-</u> | | |
| | D.O. <u>-</u> | | |

C. Comments: - a layer of cover has been applied "4"-6" deep and is well compacted from daily traffic. Burning is being carried out on the exposed refuse face - smouldering at the time and giving rise to a fair amount of smoke.

Plans submitted: -

Monitoring submitted: -

D. Instructions left with Permittee: -

E. Status of Permit: o/c burning putrescible wastes

F. Action recommended: letter to CRD re. o/c status with request that they withhold payment to TWA

- letter sent Mar. 18/81.

Signed D. McLaren

INSPECTION ☐SAMPLING INSPECTION ☒

Permit No: PR 1839
 Name: TWA - CRD DUMP
 Location: SALTSPRING ISLAND
 Contacted: _____
 Works: Level C refuse dumpsite

Inspected by: D. MCLAREN
 Date: MAR. 11/81
 Weather: SUNNY

B. Items: Flow

| General | Effluent | Air | Refuse |
|--------------------------|------------------------------|-------------------|------------------|
| Housekeeping <u>poor</u> | Colour _____ | Ring. _____ | Cover <u>YES</u> |
| Flow Measur. _____ | Turbid. _____ | Temp. _____ | Odour <u>NO</u> |
| Sampling Fac. _____ | pH _____ | Colour _____ | Leach. <u>NO</u> |
| Records _____ | Resid. Cl ₂ _____ | Particulate _____ | L. Colour _____ |
| Monitoring _____ | Floatables _____ | | L. Odour _____ |
| | Odour _____ | | |
| | D.O. _____ | | |

C. Comments: - a layer of cover has been applied a 4"-6" deep and is well compacted from daily traffic. Burning is being carried out on the exposed refuse face - smouldering at the time and giving rise to a fair amount of smoke.

Plans submitted: _____

Monitoring submitted: _____

D. Instructions left with Permittee: _____

E. Status of Permit: o/c burning putrescible wastes

F. Action recommended: letter to CRD re. o/c status with request that they withhold payment to TWA

Signed D. McLaren

SECTION ☒SAMPLING INSPECTION ☐

t No:

PR 1839

Inspected by:

KHA

:

CRD & TWA

Date:

3/2/81

cation:

Salt Spring Island

Weather:

Sunny

Contacted:

Mrs Twa Sr.

Works:

Landfill site

B. Items: Flow

| General | Effluent | Air | Refuse |
|--------------------------|------------------------|-------------|-------------------|
| Housekeeping <u>Good</u> | Colour | Ring. | Cover <u>Good</u> |
| Flow Measur. | Turbid. | Temp. | Odour |
| Sampling Fac. | pH | Colour | Leach. |
| Records | Resid. Cl ₂ | Particulate | L. Colour |
| Monitoring | Floatables | | L. Odour |
| | Odour | | |
| | D.O. | | |

C. Comments:

Discharged refuse has been compacted & covered. The fires have been extinguished.

Plans submitted: —Monitoring submitted: —

D. Instructions left with Permittee:

None

E. Status of Permit:

1/c

F. Action recommended:

Letter to CRD informing them that operation O.K. (written 4/2/81)

Signed

PR-1839

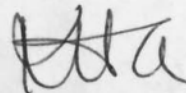
February 5, 1981

Mr. F. Raimondo
Capital Regional District
524 Yates Street
Victoria, B.C.
V8W 1K8

Dear Mr. Raimondo:

The refuse site on Saltspring Island was inspected on February 3, 1981. The refuse was covered except for the working face, and the fires have been extinguished. We would consider that the site is being operated according to the terms of the Permit.

Yours very truly,



K. H. Austin
Vancouver Island Region

KHA/bg