

PLEASE ADDRESS YOUR REPLY TO
THE DIRECTOR OF
WATER POWER AND RECLAMATION
DEPARTMENT OF THE INTERIOR
CANADA



165-0-15
DIRECTOR, J. T. JOHNSTON, C.E., M.E.I.C.
ASST. DIRECTOR, V. MEEK, B.S.C., M.E.I.C.

PW:MMS.

PLEASE REFER TO ONE SUBJECT IN A
LETTER, AND IN YOUR REPLY QUOTE
FILE NO. 14362-W.

DEPARTMENT OF THE INTERIOR
CANADA
DOMINION WATER POWER AND RECLAMATION SERVICE

OTTAWA, ONT., December 12th, 1929.



Johnston
Sir,

Enclosed is copy of an account received from our office at Kamloops, British Columbia, showing an unpaid balance of \$1.00 due from Mr. E. Gardner-Smith, your Inspector of Construction, to our Engineer at Kamloops, British Columbia in connection with transportation charges on a concrete mixer in use at Lytton Industrial School.

Although our Engineer, Mr. Tredcroft, has written Mr. Smith on two occasions in connection with this item, the account still remains unpaid, Mr. Tredcroft's letters, presumably, not having reached Mr. Smith.

Will you please communicate with Mr. Smith asking him to remit the outstanding amount of \$1.00 to Mr. Tredcroft at Kamloops, or if you agree, the amount may be paid from the funds in Mr. C.E. Webb's hands to cover General Surveys.

Will you please advise me what decision you reach in this matter so that I may advise Mr. Tredcroft.

Your obedient servant,

Encl.

J. T. Johnston
J. T. Johnston,
Director.

A. F. MacKenzie, Esq.,
Acting Assistant Deputy and Secretary,
Department of Indian Affairs,
Ottawa, Ontario.

Indian Affairs (RG 10 Volume 6464, file 888-5, part 3)

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CANADA

POOR COPY

165-0-15

*Asst. Secy
J. T. Johnston*

Ottawa, December 19, 1929.

14362-W

Sir,-

Referring to your letter of the 12th instant, with inclosure, the contents of which have been noted, I beg to say that the balance of \$1.00 due by Mr.E.Gardner-Smith, Inspector of Construction, to Mr.Tredcroft, at Kamloops, in connection with transportation charges on a concrete mixer in use at the Lytton Industrial School, may be paid from the funds held by Mr.C.E.Webb to cover General Surveys.

Your obedient servant,

A. F. MacKenzie
A.F.MacKenzie
Acting Asst. Deputy and Secretary.

J.T.Johnston, Esq., C.E., M.E.I.C.,
Director,
Dominion Water Power and Reclamation Service,
Department of The Interior,
Ottawa.

J. T. Johnston

Indian Affairs (RG 10 Volume 6464, file 888-5, part 3)

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DEPARTMENT OF INDIAN AFFAIRS
CANADA



OFFICE OF
INDIAN AGENT



6520-06

165-0-5
R
Lytton, B. C.,

Dec. 12, 1929.

Sir:-

Mrs. Lett, wife of the Rev. Principal of St. George's Indian Residential School, has just reported to me the very unsatisfactory state of affairs at the school in connection with both the heating and the lighting systems.

The Rev. Principal is at the present moment in the Kamloops Hospital, having undergone a serious operation, and thus the reason for my having to write you on the subject.

In regard to the heating plant, it is impossible to heat the chapel and utility building, which were added this summer, by Mr. Gardiner Smith, at all. Not one atom of steam will go through, it just condenses and freezes up, and they do not appear to have left any places to drain these pipes.

The engineer is working night and day, and half his time is taken up thawing out pipes and fixing others as they burst from being frozen. The radiators and piping throughout the building appear to be leaking more or less. There is little or no heat going through to the residence, which is practically unlivable, although the temperature is only 40° above zero outside.

The engineer reports that he very much doubts whether the electric light system will keep going until Christmas. This matter I reported to you sometime ago, and you replied on October 18, 1929, that you would take it up with the agents and that they were sending a man to put things right, but the system seems to be no better.

I would like to recommend that these firms be required to send men to put things right, now being the time for them to be on the ground to see that the plants are not working properly.

I have the honor to be,
Sir,
Your obedient servant,

H. Graham

(H. Graham)
Indian Agent.

Assist. Deputy & Secretary,
Department of Indian Affairs,
Ottawa.

HG/MD

Indian Affairs (RG 10 Volume 6464, file 888-5, part 3)

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S.M.
W. G. Smith

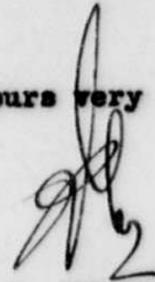
Jan. 11, 1939.

Dear Mr. Smith,-

I am enclosing herewith a copy of a letter which has been received from the Indian Agent at Lytton with reference to the St. George's School. Will you kindly look over this letter and advise me what you think of its contents.

I may say with reference to the lighting plant that I have asked the Lister Co. to send one of their experts to Lytton to check up the lighting plant.

Yours very truly,



R. GURNEY ORR.
Architect for the Department.

E. Gardner Smith, Esq.,
Gleichen, Alta.

RECEIVED
JAN 23 1939

Indian Affairs (RG 10 Volume 6464, file 888-5, part 3)

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165-0-5.

Ottawa, January 13th, 1930.

Sir:

I am returning herewith the account which you submitted for the current year's fees for inspecting the boilers at St. George's Indian Residential School, Lytton, B.C., and would request that you forward same in triplicate to Mr. H. Graham, Indian Agent, Lytton, B.C., as it is necessary that the account be certified by him before payment can be made.

Your obedient servant,

A. F. MacKenzie
A. F. MacKenzie,
Acting Asst. Deputy and Secretary.

J. S. [unclear]
ENC.
AGM

Chief Inspector of Boilers,
Vancouver,
B. C.

Indian Affairs (RG 10 Volume 6464, file 888-5, part 3)

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DEPARTMENT OF INDIAN AFFAIRS
CANADA

6729-06



Architect

R

OFFICE OF
INDIAN AGENT

Lytton, B. C.,
Jan. 17, 1930.



Dear Sir:-

On October 2nd, I forwarded to the Department a letter received from the Rev. Principal of St. George's Residential School, in connection with the unsatisfactory condition of the lighting plant.

The Department replied on October 18th, stating that they had written to the Lister Company, asking them to have an engineer examine the plant at the earliest possible moment.

On December 12th, I again wrote the Department on the same subject, as the Lister people had apparently not done anything in the matter of sending an engineer here.

I am this morning in receipt of a telephone message from Mr. Lett, the Rev. Principal, stating that the largest of the two engines is just about gone, and that batteries are in the same condition, so that he is now having to run the small engine continuously to get sufficient light, and this does not give power enough for the washing.

Something will have to be done very quickly, or they will be both without light and power. Trusting the Department will take this up again with the Lister Company,

Assist. Deputy & Secretary,
Department of Indian Affairs,
Ottawa.

HG/MD

I have the honor to be,
Sir,
Your obedient servant,

H. Graham

(H. Graham)
Indian Agent.

Indian Affairs (RG 10 Volume 6464, file 888-5, part 3)

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CANADA

POOR COPY

165-0-5

St. George's Indian Residential School

Originated by the New England Company
(The oldest English Missionary Society, founded 1649)
(SUPPORTED BY THE DOMINION GOVERNMENT)

C. P. R. STATION
C. N. R. STATION
TELEGRAPH OFFICE
POST OFFICE

LYTTON 2 1/2 MILES

Architect

VISITOR: THE BISHOP OF NEW WESTMINSTER.
PRINCIPAL: REV. A. R. LETT.
BANKERS: BANK OF MONTREAL, VANCOUVER, B. C.

Lytton, B. C., Jan 17 th / 30

Asst. Dep. & Sec.

Dept of Indian Affairs,
Ottawa.

R



Sir-

To date we have not had any action by the Lister people about the Lighting Plant. It is not in shape and needs immediate attention. I have already reported its condition of repair and stated that I did not think the School nor the Dept. should be at the expense of reconditioning as the big engine never functioned properly and the batteries were installed with a defect. Both of which defects were reported to the company.

I have again written to the Co. today trying to get action.

Yours very obediently

A. R. Lett
Principal.

Indian Affairs (RG 10 Volume 6464, file 888-5, part 3)

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POOR COPY

B

Construction Office.
Old Suns School, Gelichen, Alta.
Jan. 17th, 1930.

R. Guerney Orr Esq.
Architect.
Department of Indian Affairs.
OTTAWA.

Re- St. George's Indian School, Lytton, B.C.

Dear Mr. Orr:-

I am in receipt of your letter of the 11th instant with copy of a letter from the Indian Agent at Lytton, B.C.

It is noted from Mr. Graham's letter that trouble is being experienced in getting heat into the Chapel and Utility Building, and that the Residence is not being sufficiently heated. On receiving this information I at once wired the heating contractors in Vancouver, a copy of which message I enclose, and I delayed replying to your letter pending a reply to my wire. No reply has yet come, so I do not know if the conditions complained of still exist.

Regarding the heating of the Chapel, this was tested out before I left, and the radiators heated there simultaneously with those in the main school. The work was installed in conformity with the best practice in the trade, the lines being properly graded, vented, provided with air eliminators, and with a wet return line underground to join the wet return in the main building. Abundant radiation was placed in the Chapel.

The Utility Building was not provided with a great deal of radiation, as some parts of that building were not intended to be heated, and we did not want to put too much added load on the boilers, but radiators were put where asked for. The condensate from this building is returned to the boilers by an automatic force-pump system.

The Residence heating was found to be airbound, and by installing air eliminators in the Residence basement we overcame that trouble, and the radiators throughout the residence heated well, under the test we gave it, and Mr. Lett remarked that it was the first time those rads had ever heated properly since the school was built.

My own impression is that the boilers have not been steadily and sufficiently fired, and a proper head of steam obtained. It is a large institution, and during extreme cold the boilers should have day and night attention and a good head of steam maintained. This means burning lots of coal, but that cannot be avoided. The engineer (assuming he is still the same) is a diminutive man, both semi-deaf and crippled, and I can understand his being unable to keep up steam during rigorous weather, unless given adequate assistance.

Indian Affairs (RG 10 Volume 6464, file 888-5, part 3)

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POOR-COPY

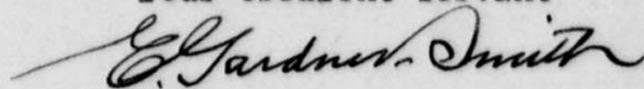
A little dribble of steam is not enough in cold weather, and just invites freezing troubles.

Before leaving Lytton I placed on the Principal's desk a 12 months' guarantee from the heating contractors, in which they agreed to return to the school in the event of anything going wrong with their work, and make any necessary adjustments or repairs, for a period of one year, without expense to the Department. This heating firm (Mortimer & Crombie, of Vancouver) have an excellent reputation, and would undoubtedly observe the terms of their guarantee, if notified of the need for same.

Not having any information later than Mr. Graham's letter of Dec. 12th, I have no way of knowing how conditions now are at the school at Lytton, but expect to hear from the heating contractors in answer to my wire at any time; and should further information come I will forward it to you. Should the Department wish me to do so, I will take a few days off from my work here, and go to Lytton and see for myself what the troubles are, and take the necessary steps to have them remedied under the twelve months' guarantee, -should mechanical troubles actually exist.

With regard to the lighting plant at St. George's School, it was giving trouble last summer, and the lights gave out several times. I think the plant suffered from too much tampering with by local help in the endeavor to fix things they did not understand.

Your obedient servant



Inspector of Construction.

Indian Affairs (RG 10 Volume 6464, file 888-5, part 3)

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165-0-5
CANADIAN PACIFIC R'Y. CO.'S TELEGRAPH
TELEGRAM

FORM T. D. 2

CABLE CONNECTIONS TO ALL PARTS OF THE WORLD

J. McMILLAN, General Manager of Telegraphs, Montreal.

Sent No.	Sent R.	Rec'd R.	Time Sent	Time Filed	Check

Send the following Message, subject to the terms printed on the back hereof which are hereby agreed to:

Gleichen, Alta. Jan. 15, 1930.

Mortimer & Crombie.

Heating Engineers. (1486 - 13th Ave.)
VANCOUVER, B.C.

DEPARTMENT OTTAWA INFORMS ME BITTER COMPLAINTS RECEIVED FROM LYTTON
SCHOOL OF FAILURE OF HEAT TO REACH CHAPEL UTILITY BUILDING AND RESIDENCE
STOP ALSO FROZEN AND BURST PIPES STOP PLEASE WIRE ME IF ANYTHING HAS
BEEN DONE BY YOU TO REMEDY THESE TROUBLES OR IF THESE CONDITIONS STILL
EXIST.

(Sgd) E. Gardner-Smith

Indian Affairs (RG 10 Volume 6464, file 888-5, part 3)

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St. George's Indian Residential School

Originated by the New England Company
(The oldest English Missionary Society, founded 1649)
(SUPPORTED BY THE DOMINION GOVERNMENT)

C. P. R. STATION
C. N. R. STATION
TELEGRAPH OFFICE
POST OFFICE

LYTTON 2½ MILES

VISITOR: THE BISHOP OF NEW WESTMINSTER.
PRINCIPAL: REV. A. R. LETT.
BANKERS: BANK OF MONTREAL, VANCOUVER, B. C.

Lytton, B. C., Jan 20th / 30

Mr. E. Gardner-Smith.
Gleichen P.C. Alta.

Dear Mr. Gardner-Smith-

Yours to hand. It is true the heating in the Chapel, Utility Building, and Residence has not been satisfactory during the cold snap. There was on the other hand an unnecessary cry made during my period in the Hospital. That is they made the situation somewhat exaggerated yet I do not think it will ever be what it ought to be until a separate unit is put in for the Chapel and Utility Building or a Vacuum system is installed, this latter is out of the question as we have not sufficient power to handle the pump. If a vacuum system were feasible it would no doubt solve the problem as it would increase the efficiency of the boilers and insure even distribution throughout, since this cannot be done it seems the plan would be to install a separate boiler in the utility building for heating both buildings.

There are two burst radiators in the Chapel and the heating in the Utility building has never functioned. We have been obliged to forget it entirely and installed a stove in the Manual Training room, the Gym has not been used for about one month and we cannot hope to use it until the weather relieves. We have also not had a service in the Chapel since Christmas Day, it would take approximately 2½ to 3 tons of coal a day to keep it heated sufficiently for use and the school building would be so overheated as to be very uncomfortable and involve a great waste of fuel which we cannot afford. I believe with a separate unit we would save considerable expense in heating.

The trouble seems to be in the fact that the condensate is so slow in returning during the cold weather and is also so great that the pipes cannot handle it so that it freezes in the traps and turns or elbows.

Mr Crombie was here and said nothing could be done other than install a vacuum pump for which as I have stated we have not sufficient power for operation.

The residence, during the snap which has been rather prolonged, has not been at all comfortable the same trouble existing, evidently the pipes being unable to handle the condensate. During the milder weather there seems to be a much better circulation and no trouble to keep heat in the radiators in this wing. The central portion of the building is always comfortable and would not take much fuel to keep so but when the boilers have to be forced to get heat in the residence the middle gets so warm that windows have to be thrown open and a waste follows.

I trust the above will give you a insight into the situation as I have already stated something will have to be done before we enter upon another winter.

Personally I am picking up slowly but not as brisk as I might be

Indian Affairs (RG 10 Volume 6464, file 888-5, part 3)

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PHONE BAYVIEW 3207



MORTIMORE & CROMBIE
PLUMBING AND HEATING ENGINEERS
OIL BURNERS AND SAWDUST BURNERS

1486-13TH AVENUE WEST
VANCOUVER, B.C.

PHONE KERRISDALE 1036 R
H. S. CROMBIE



Jan. 17/30

Copper Mountain. P.O.
Copper Mountain. B.C.

Mr. E. Gardiner-Smith
Gleichen. Alta.

Dear Sir.

Re your wire of even date
Mr. Lett informed me of the trouble they were having
with the heating at St. Georges School in December
I went to Lytton on the 19th and made a very
careful survey of the heating system, at that time
I made a report to the Indian Agent Mr. Graham
also to Mrs. Lett as Mr. Lett was in Hospital.

They have a most unusual condition
in regards to steam pressure, the boiler ratings
show ample capacity but they cannot get steam
we have done about all that we can do with
the system and I would again advise that the
Dept. Engineer make a report as same as regards
to more boiler capacity. Vacuum pump or what
ever is necessary.

Sincerely yours,
H. S. Crombie

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165-0-5

DEPARTMENT OF INDIAN AFFAIRS
CANADA



R

OFFICE OF
INDIAN AGENT



[Handwritten signature]

Construction Office, Old Suns School.
Gleichen, Alta. Jan. 24th, 1930.

R. Guerney Orr Esq.
Architect.
Department of Indian Affairs.
OTTAWA.

Re - St. George's School, Lytton, B.C.

Dear Mr. Orr: -

Since my letter to you of the 17th instant, regarding heating troubles at the above-mentioned school, I have heard both from the heating contractor, Mr. Crombie, who installed the additional heating in the Chapel and Utility Building, and from the Reverend Principal, Mr. Lett, both of which letters I enclose herewith.

Last August we tested out the heating, and everything then functioned perfectly, but it is apparent there is considerable difference in a mid-summer test as compared to one in mid-winter. For instance, the temperature was nearly 100 in the shade then, and has been 25 below zero recently at Lytton.

It is probable you have had further advice from Lytton since your letter to me of the 11th inst., so probably you will have received a copy of the Report which Mr. Crombie mentions. Apparently the boilers are incapable of taking care of any load additional to the heating of the school itself, unless assisted by some method of speeding up the circulation in the wet return line. However, before presuming to make any recommendation, I should like to go into the matter thoroughly with Dunham's representative in Calgary (Mr. Alex. Walker) in whose technical knowledge relating to heating services I have much confidence. I intend going to Calgary for the week-end, and while there shall discuss the whole question in detail with Mr. Walker, after which I will write you more fully and more definitely.

Needless to say, I am much concerned over the unsatisfactory heating service at Lytton, and shall do anything in my power to assist in giving them relief.

Your obedient servant

E. Gardner Smith

Indian Affairs (RG 10 Volume 6464, file 888-5, part 3)

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Vouch 500-00

Vote No.

GOVERNMENT OF THE DOMINION OF CANADA
Department of Indian Affairs, British Columbia

Lytton AGENCY

To Chief Inspector of Boilers, Office of the Chief Inspector of Boilers,
Vancouver, B. C.

DATE	DETAIL	AMOUNT
1930	St. George's School	\$22.20
Jan. 20.	To Inspection of Boilers at St. George's Residential School, during the year 1929,	\$22 20



<i>sent 8-2-30</i>		
<i>7361</i>		\$22 20

I hereby certify that this Voucher is correct, that the material has been supplied, the work performed and that the charges are fair and just; also that all expenditure has been incurred legitimately and that each item of the same is a fair and just charge against the Government of Canada.

Form No. 11

EXAMINED AND
found correct.
M. O. Lewis
7/2/30

H. Rahau
Indian Agent

Indian Affairs (RG 10 Volume 6464, file 888-5, part 3)

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Department of Indian Affairs, British Columbia

.....Lytton..... AGENCY

To Chief Inspector of Boilers, Office of the Chief Inspector of Boilers,
Vancouver, B. C.

DATE	DETAIL	AMOUNT
1930	St. George's School	\$22.20
Jan. 20.	To Inspection of Boilers at St. George's Residential School, during the year 1929,	\$22 20



BOILER INSPECTION ACT

NOTICE OF ANNUAL FEES

(Owner's name) Department of Indian Affairs, Dominion Government, Ottawa. (Address) re St. George Indian School, Lytton, B. C.	OFFICE OF THE CHIEF INSPECTOR OF BOILERS, VANCOUVER, B. C. December, 19 29
---	---

BOILER No.	Arrears.	Current Year's Fees.	Deductions.	Balance due.
44029-B.C.		8 60		
44008		5 00		
44028		8 60		22 20
Statutory Interest 6 per cent.				

Total due January 1st, 19 **30** (Last day for payment, January 31st, 19 **30**). **\$22.20**

NOTE.—At the commencement of each calendar year a tax by way of a fee is levied on the owner of each boiler, as required by the "Boiler Inspection Act." No Certificate of Inspection permitting further use of a boiler can be issued until all fees have been paid. Make money orders and cheques payable to "Chief Inspector of Boilers." Have all cheques marked and payable at par at this office.

5M-329-5413

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R

165-0-5.

DEPT. OF INDIAN AFFAIRS
JAN 27 1930

Letter No. 3-06

Office of the Lytton Indian Agency

January 20, 1930.

Sir,

Architect

Enclose herewith Vouchers Nos. 500-0,

amounting to \$ 22.20 in favour

of the Chief Inspector of Boilers

for inspection of three boilers at St. George's Residential School.

This expenditure was authorized by Departmental

Letter No. dated

Your obedient servant,

H. Raham

Indian Agent.

The Secretary,
Department of Indian Affairs,
Ottawa.

Form No. 101 HG/MD

DEPT. OF INDIAN AFFAIRS
FEB 7 1930

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Copy

C.A.DUNHAM CO., LIMITED.

Vancouver, B.C. Dec. 24th, 1930.

Branch Sales Office
207 W.Hastings St.

Mr.Graham.
Indian Agent.
Lytton, B.C.

Re - YOUR #6563-06.

Dear Sir:

We have delayed replying to yours of Dec. 17th for a couple of days in order to make some inquiries here to determine as far as possible just what might be the difficulty with your Heating Plant.

We understand that the original plant at your Institution was installed by Murray Bros, Vancouver, B.C. some two years ago, and since that time some additions have been added, which additions were tacked onto the original Heating System.

We believe that this System was originally designed for a Webster or Dunham Vapor job, that is all returns to the boiler being made by gravity. The choice of this Gravity System may possibly have been made owing to the fact that the initial cost of such System is slightly lower than a Vacuum System, the cost of which would, of course have to include a Vacuum Pump.

We have found that a Heating System running over a comparatively large horizontal area, such as yours possibly covers, is more satisfactory when handled by a Vacuum Pump which makes for the pulling of a speedy and positive circulation through the System. On heating systems in high buildings covering a comparatively small horizontal area the problem of getting free circulation back to the boiler is apt to be much less difficult.

Without seeing your plant it is of course impossible for our Engineers to express anything like an intelligent opinion as to what might be done to remedy the situation, and even if we were to make an inspection of the plant, it is just possible there may be certain limitations beyond which it would be impossible to go toward a remedy owing to your location. For example, if the condition could be corrected by the installation of a Vacuum Pump the question of motive power would have to be considered as it is just possible you have no electric current available there outside of your own local plant, and any electric driven Vacuum Pump would possibly require a 2 or 3 HP Motor, which your electric plant might or might not have capacity to drive. Any attempt to operate a Steam Driven Vacuum Pump from your low pressure boilers would not be practical.

Indian Affairs (RG 10 Volume 6464, file 888-5, part 3)

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2.

However, as stated above, it is nearly impossible to discuss your difficulty intelligently without seeing your plant, and for the purpose of doing this we would be willing to send our Engineer from Vancouver to go into the matter fully with you on condition that you pay the expense of his trip. We would, of course, make no charge for his time or services outside of his travelling expenses.

If you are satisfied in your own mind that a Vacuum Pump could be installed, that would solve your difficulty, and in the event of our Vacuum Pump being used on the job there would be no charge of any kind for our Engineer to make an inspection, that is this trip would be made at our own expense.

If a Vacuum Pump cannot be installed the only thing that we could suggest would be to have some practical Heating Contractor go into the plant and eliminate as far as possible any lifts in the pipe lines, thereby giving free circulation back to the boilers by gravity.

We shall be very glad to hear from you at any time and to give you any information regarding any point that can be covered by mail.

Yours very truly

C.A.DUNHAM CO. LTD.
B.S.C. #3 VANCOUVER, B.C.
(Sgd) D.G.Brisson.
BR. MGR.

Indian Affairs (RG 10 Volume 6464, file 888-5, part 3)

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MORTIMER & CROMBIE.
PLUMBING & HEATING ENGINEERS.

1486 - 13th Ave. West.
Vancouver, B.C.

Dec. 18th, 1929.

MR. H. Graham.
Indian Agent.
Lytton, B.C.

Re - Your letter of 18th inst. St. George's School
Heating System.

Dear Sir:

On Dec. 16-17 I visited the above school and made a careful inspection of the working conditions of the heating system. There seems very little wrong with the general installation according to plans and specifications.

However there is an unusual condition experienced in regard to maintaining steam; whenever the fires get low the pressure is not sufficient to heat the extreme ends of the system.

I would advise that you get in touch with the C.A. Dunham's Co's representative at Vancouver, and have their Engineer make a survey and report to the Department. They maintain an engineering staff for that purpose.

We might suggest that provided there was sufficient electric power a Return Vacuum Pump could be installed that would greatly increase the boiler efficiency. Also the question of Oil Burners could be taken up.

Trusting to be of further service, we are

Yours very truly

MORTIMER & CROMBIE.
Per (Sgd) H.S. Crombie.

Indian Affairs (RG 10 Volume 6464, file 888-5, part 3)

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POOR-COPY

copy

ST. GEORGE'S INDIAN RESIDENTIAL SCHOOL.

Lytton, B.C. Jan. 23rd, 1930.

E.Gardner-Smith Esq.
Gleichen, Alta.

Dear Mr. Gardner-Smith:-

I am herewith enclosing correspondence which Mr.Graham received from the Dunham people and also from Mr.Crombie, which I trust may be of some benefit to you.

The Chapel I am afraid is badly frozen up. I was in for inspection the other day after some more extreme cold, and found some more radiators gone. I hate to go back again. The boilers cannot keep sufficient heat in these wings and they both freeze up.

The Residence has had to be thawed out several times, and only the other day we did not have any heat until four o'clock PM, and then with both fireplaces and stove in basement burning from early morning.

The letters enclosed will speak for themselves.

We are unable to shut the Chapel off as there is no valve in the line and I hesitated to cut the steam pipe as I felt I did not want to do extra damage.

I have not had the Dunham people here as I felt the expense of bringing them would be of no avail while the weather is still so cold. I have never seen such continuous below zero temperatures here before.

Yours very sincerely

(Sgd) A.R.Lett
Principal.

Indian Affairs (RG 10 Volume 6464, file 888-5, part 3)

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165-15
DEPT. OF INDIAN AFFAIRS
FEB 3 1930
RECORDS P.O. Box 31.
Gleichen, Alta. Jan. 28, 1930.
R

R. Guerney Orr Esq.
Architect.
Department of Indian Affairs.
OTTAWA.

Re- St. Georges Indian School, Lytton, B.C.

Dear Mr. Orr:-

With further reference to the heating troubles at St. George's School, I enclose herewith copies of further correspondence on the subject from the Reverend Principal, Mr. Lett, which is self-explanatory; and Dunham's, & Mortimer & Crombie's suggestions.

When in Calgary to-day I had a conference with Mr. Alex Walker, Dunham Co's Engineer for Alberta and Eastern B.C., and the situation was reviewed carefully. I had with me the plans of the buildings, and the recent correspondence relating to the heating troubles, and the Reports of Mr. Crombie, and Dunham's Vancouver Engineer's recommendations.

Mr. Walker states he is unable to make any very definite recommendation without first checking up the entire job, including the capacity of the heating boilers themselves. He says heating boilers are usually over-rated regarding the amount of load they can carry in sub-zero weather. He further states it is probable in very cold weather there is more condensate than can be returned to the boilers with sufficient rapidity over the far-spread, sluggish horizontal lines without other help than exists at present. In other words, he thinks the circulation of steam is retarded owing to the system being overloaded with condensate.

To relieve the excess of condensate he makes the tentative suggestion that the wet return from the Chapel be diverted to the Utility Building, towards which there is an excellent fall in grade, and from the Utility Building the condensate could be delivered back to the heating boilers of the School by means of the force pump now installed in the basement of the Utility Building. This change would relieve the wet return of the school of any added load. In this connection the capacity of the automatic force pump in the Utility Building would be first tested.

Regarding the insufficiency of heat in the Residence, Mr. Walker suggests carrying an additional steam main into the Residence from the blind end of a steam main in the school basement almost adjoining the Residence, thus making a loop with the other main which is now furnishing heat to the Residence. The addition of air eliminators which we made last summer relieved the air-bound condition then existing, but apparently additional steam circulation is needed for extremely cold weather. I recall Mr. Crombie said this would give added heat, but he did not then think it necessary, as all the residence radiators heated splendidly at that time.

Indian Affairs (RG 10 Volume 6464, file 888-5, part 3)

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2.

It is only too apparent that an unfortunate condition exists in connection with the heating service at St. George's School, and to me, personally, it is a matter of deep concern. I shall be only too glad to assist in any way I can to give those good people relief, and to bring their heating service to a proper condition of efficiency.

Mr. Walker has kindly consented to accompany me to Lytton, if so desired by the Department, and to check up every feature of the existing system, and give us the benefit of his knowledge and technical experience in outlining what should be done to correct the troubles which may be found in the heating service as it now stands. I could get away from my work here for a few days without detriment, and would arrange with Mr. Gooderham to visit the job daily in my absence. I should also wire Mr. Crombie, the heating contractor who did the heating work, to meet us at Lytton, and we should then be in a position to make an intelligent recommendation to the Department as to the necessary procedure to follow, by checking up the job itself, under mid-winter conditions as they now exist.

I realize it is possible the Department may have made other arrangements already for dealing with the heating troubles referred to, but I am offering the foregoing suggestion regarding a visit to the St. George's School in case no action is being taken already, and subject, of course, to the Department's wish that I co-operate in solving this difficulty. Mr. Walker would make no charge other than his actual out-of-pocket expenses; and in giving attention to our problem he would be acting in unison with Dunham's Vancouver branch.

Should the Department decide to send Mr. Walker and me to Lytton (or Mr. Walker alone) it would be well to do so at once so that the conditions may be observed as they exist now rather than when warmer weather returns. By wiring a reply we could leave at a day's notice after receiving the wire.

The foregoing suggestions are respectfully submitted.

Your obedient servant,

E. Gardner Smith

Inspector of Construction.

Indian Affairs (RG 10 Volume 6464, file 888-5, part 3)

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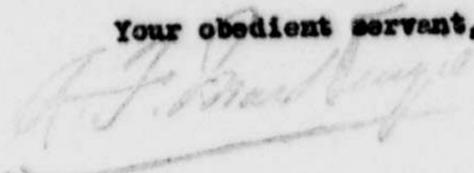
~~1. Walker~~
~~2. Mackenzie~~

Feb. 13, 1930.

Sir,-

Replying to your letter of the 28 th ultimo, with reference to the heating trouble at the St. George's School I would ask you to please have Mr. Walker proceed to Lytton at his convenience and submit through you a recommendation that will overcome the difficulties experienced in heating the different portions of the Lytton buildings.

Your obedient servant,



A. F. Mackenzie.
Acting, Asst. Deputy and Secretary.



E. Gardner Smith, Esq.,
P. O. Box 31,
Gleichen, Alta.

Indian Affairs (RG 10 Volume 6464, file 888-5, part 3)

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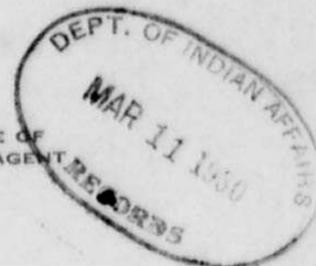
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DEPARTMENT OF INDIAN AFFAIRS
CANADA



165-0-5
R

OFFICE OF
INDIAN AGENT



P.O.Box 31.
Gleichen, Alta. March 2nd, 1930.

Feb

R. Guerney Orr Esq.
Architect.
Department of Indian Affairs.
OTTAWA.

Dear Mr. Orr:

With regard to the Heating Service at St. George's School, Lytton, B.C. Mr. Alex. Walker has returned after making a careful inspection and check-up, and has rendered me a full Report. I deemed it advisable to forward this Report to Mr. Crombie, of Mortimer & Crombie, Vancouver, the heating contractors who installed the extra heating for the Chapel and Utility Building, so as to have Mr. Crombie's comments before sending the Report and recommendations to you.

In a short time I expect to be in a position to present the whole matter to you in full detail. In the meantime the weather has turned mild, and the situation has eased in consequence.

Your obedient servant

E. Gardner Smith

Inspector of Construction.

Indian Affairs (RG 10 Volume 6464, file 888-5, part 3)

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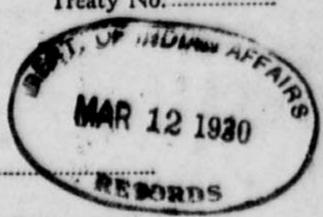
Vote No.

Treaty No.

Department of Indian Affairs

Handwritten signatures and initials

To Alex. Walker Esq.



R

1307 Fifth St. West.

Calgary, Alberta.

DATE	SERVICE.	AMOUNT.
1930. Feb.	<p><u>EXPENSES OF TRIP OF INSPECTION TO ST. GEORGE'S INDIAN SCHOOL, LYTTON, B.C. RE- HEATING SERVICE.</u></p> <p>To Out-of-pocket Expenses only, as per attached list,</p>	\$ 78. 85
<p>(Authorized in Department's letter of Feb. 13th, to E. Gardner-Smith)</p>		
<p><i>Handwritten notes and signatures</i></p> <p>Recommended for Payment, <i>[Signature]</i> Registered Architect,</p>		
<p>7996</p>		
TOTAL,		\$ 78. 85

I HEREBY CERTIFY that this Voucher is correct, that the material has been supplied, the work performed and that the charges are fair and just; also that the expenditure has been incurred legitimately and that each item of the same is a fair and just charge against the Government of Canada.

E. Gardner-Smith
Agent
Inspector of construction

Form 52.

Indian Affairs (RG 10 Volume 6464, file 888-5, part 3)

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St. George's Indian Residential School

Originated by the New England Company
(The oldest English Missionary Society, founded 1649)

VISITORS { THE BISHOP OF CARIBOO
 { THE BISHOP OF NEW WESTMINSTER
PRINCIPAL: REV. A. R. LETT
BANKERS: BANK OF MONTREAL, VANCOUVER, B. C.

Lytton, B.C., March 24 / 30

Dear Mr Graham-

In response to our conversation re the Lighting plant in the School I might say that it is in need of a thorough overhauling and a number of new parts needed among these parts are three new Engine Heads. Owing to the constant burning out of the valves the valve seats in the heads are gone. I have reported these defects to the Lister people and have been careful to keep them informed of the heating of the engines and the constant burning out of exhaust valves. I have also asked them to send their representative here to go over the plant and have it put into shape but while I received answers to my correspondence saying that their man would visit the School at certain dates they have not responded.

As you know the plant has given us continual trouble and has never given satisfaction even after the circulation was put in shape and it is time something was done to make this part of the institution a workable entity.

The batteries are completely done and I cannot afford a new set, but will be obliged to purchase a set at an early date if the Co. cannot be persuaded to make the plant good as it has not been to the neglect of the school that the plant has gone to such a state of condition. I have always maintained that a new pair of engines and batteries should be installed at no cost whatever to the School or the Department and am still of that opinion.

The Co. have not visited the School even after they were asked to do so from Ottawa. I therefore feel that something should be brought to bear which would make them give us some recognition.

In writing the Dept I enclosed an account of the repairs put on the plant since installation, which has since mounted somewhat, and I do not feel that it should be necessary that new engines, should have new engine heads, and the plant new batteries, if the installation was what it is supposed to be.

In conclusion I might say that we have done every thing to keep the plant going, but it has now approached the state where we can expect at any moment to be without lights.

Please take this matter up with the Dept. at once as it is urgent.

Yours very obediently

Mr. H. Graham
Indian Agent,
Lytton.


Principal

Indian Affairs (RG 10 Volume 6464, file 888-5, part 3)

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DEPT. OF INDIAN AFFAIRS
CANADA

7195-06

Respect
Sir:-



R

765-0-5

OFFICE OF
INDIAN AGENT

Lytton, B. C.,

March 25, 1930.



I herewith beg to enclose a letter from the Rev. Principal of St. George's Indian Residential School, which will speak for itself.

On visiting the school recently, the engineer drew my attention to the deplorable state of the lighting plant. I immediately discussed it with the Rev. Principal, and he assured me that everything possible had been done to get the Lister people who installed this plant to make it good, but up to the present they have never even sent an engineer to look it over.

Engines of this description should certainly not be burning out valves and one can quite easily see that with the constant burning of these it is going to injure the valve seats, and give no end of trouble. This plant to my knowledge has been most unsatisfactory practically from the very day it was installed, and I really think that they should be made to make this good.

The batteries are in such a state now that they cannot be relied on for any power, with the result that the engines have to be kept going when any power is needed, and then with the state that they are in at present it is hard to say when they may play out altogether, and then the school will be completely without either light or power.

Trusting that something will be done in the very near future to remedy these defects,

Assist. Deputy & Secretary,
Department of Indian Affairs,
Ottawa.

HG/MD

I have the honor to be,
Sir,
Your obedient servant,

H. Graham
(H. Graham) Indian Agent.

Indian Affairs (RG 10 Volume 6464, file 888-5, part 3)

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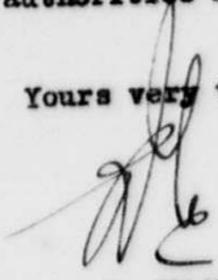
April 8, 1930.

Dear Sir,-

Replying to your letter of the 25th instant with further reference to the electric lighting plant at the St. George's School, I have today written to the Lister Co. and asked them to send their representative to Lytton immediately and report to the Department on the condition of the plant. If their representative does not arrive within a reasonable time please advise me.

I may say that the Department has installed a large number of these plants in the past years and the Lytton installation is the only one from which a complaint has been received. Are you sure that the school authorities are taking the proper care in operating the plant.

Yours very truly,


R. GURNEY ORR.
Architect for the Department.

H. Graham, Esq.,
Indian Agent,
Lytton, B.C.

Indian Affairs (RG 10 Volume 6464, file 888-5, part 3)

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April 8, 1930.

Dear Sir,-

I have again received complaints from the St. George's Indian Residential School at Lytton that the electric lighting plant is in a deorable condition and I would ask you to kindly arrange immediately to have your representative make a careful inspection of the Lytton plant and advise me what is required to put saem in a satisfactory condition. As you have already been advised there have been complaints about this plant from the time same was installed.

As you know I have been specifying in the past your plants, and with the exception of the Lytton School the service seems to have been satisfactory. Of course I cannot continue to specify this outfit if there is going to be trouble in operating the plant as is being at present experienced at Lytton.

Yours very truly,



R. GURNEY ORR.
Architect for the Department.

R. A. Lister Co. of Canada, Ltd.,
1216 Hamilton St.,
Vancouver, B. C.

Indian Affairs (RG 10 Volume 6464, file 888-5, part 3)

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COPY.

MORTIMER & CROMBIE.

PLUMBING & HEATING ENGINEERS.

6225 Yew St.
Vancouver, B.C. March 5th, 1930.

E. Gardner-Smith Esq.
% Indian School.
GLEICHEN, Alta.

Dear Sir:

Re- The Dunham Co's Report on St. George's School Heating.

We were very pleased to receive your letter of the 28th ulto., also Mr. Walker's Report. As contractors, we did not wish to make any recommendation ourselves, and we therefore appreciate the opportunity of looking over this Report before you forward same to the Department, as this makes our position clear.

I feel Mr. Walker has taken great care in checking over the heating system, and I am in agreement with him with regard to the steam pressure. The addition of another boiler, placed in the Utility Building, to supply this building and the Chapel, would doubtless be the solution, and would further augment the main building service. I might add that by placing valves in the existing supply to the Chapel this building could be heated during moderate weather by the present boilers to save having another fire except when required during extreme winter months.

The matter of the return from the Chapel, which we placed in 4" vitrified pipes approximately 24" below ground, this line seems to require a much heavier insulation to withstand the low temperatures of that district. This line cannot be placed any deeper in the ground, but we can and will give it a more adequate covering.

Regarding the return pump in the Utility Building, there seems to be some question as to the successful working of this unit. When we tested out on completing this job we opened the cleanout plugs in the boiler room, and pumped water through the line. Unfortunately when I was at the school in December the weather was too cold to chance turning steam into the line as there was then little enough pressure for the main building, hence I was unable to make a test at that time as regards the check valves they are lifting with the stream.

The Residence and Main Building are installed according to the original layout, except that we relieved the airbound condition in the Residence. If Mr. Walker's recommendation of a separate supply to the Residence were carried out it would greatly facilitate the heating of this section.

Thanking you for your courtesy and patience, and assuring you of every assistance and cooperation,

Yours very truly

(Sgd) H.S.Crombie.

Indian Affairs (RG 10 Volume 6464, file 888-5, part 3)

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