

ALL AGREEMENTS ARE CONTINGENT UPON STRIKES, AND OTHER DELAYS UNAVOIDABLE OR BEYOND OUR CONTROL.
ON ADMIRALTY AND LLOYD'S LISTS

TELEPHONE:
FAIRMONT 240
PRIVATE EXCHANGE

OFFICE AND WORKS:
519 TO 659 SIXTH AVENUE WEST
NEAR CAMBIE ST. SOUTH

ENGINEERS
STEEL FOUNDERS

VANCOUVER
ENGINEERING
WORKS LTD.
VANCOUVER, B. C.

BOILERMAKERS
IRON FOUNDERS

BOILERS VERTICAL, HORIZONTAL AND MARINE TANKS RIVETED STEEL PIPE PENSTOCKS WELDED STEEL PIPE CANADIAN KENWORTH MOTOR TRUCKS	STATIONARY ENGINES LOGGING ENGINES FORDSON HOISTS HOISTING ENGINES MINING MACHINERY ORE CARS AND BUCKETS HYDRAULIC GIANTS	SAWMILL MACHINERY SHAFTING, PULLEYS, ETC. LUMBER TRUCKS ELECTRIC STEEL CASTINGS MANGANESE CASTINGS BOLT AND RIVET MANUFACTURERS BAR IRON & STEEL	TANKS PATENT WATER-COOLED GRATE BARS LOGGING CARS AUTO HOISTS BOILER & TANK PLATE BOILER TUBES
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VANCOUVER, B. C.

August 11, 1938

Mr. D. M. MacKay,
Indian Commissioner for British Columbia,
P.O. Box 70,
Vancouver, B. C.

Dear Sir:

As intimated in our conversation with you a day or two ago, we consider that the installation of a vertical boiler at the Coqualeetza Indian School is not of the most economical type, as when the boiler is under working conditions for laundry and sterilizing purposes, it has to be forced so as to maintain the head of steam required; and from this view point we would suggest the consideration of the installation of a boiler of the horizontal type, which we consider would be better suited for the requirements. It would be much more economical to operate as it would not require to be forced as a steady head of steam can be maintained at a very low operating cost.

Furthermore, with this type of boiler the steam space is such that there always would be available a reserve amount of steam.

Furthermore, with the horizontal type of boiler much easier firing conditions are required, and with the travel of the gases being in a horizontal position you do not have the quick pull through that you have with the vertical type of boiler.

We would propose in this connection the supplying of a horizontal return tubular boiler complete in accordance with the requirements of the B. C. Inspection Act for a minimum working pressure of 135#, and with a heating surface of 155 square feet.

Altona



Indian Affairs. (RG 10, Volume 6442, file 880-5, part 2)

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Mr. D. M. MacKay

-2-

August 11, 1938

Instead of the ordinary brick setting we propose supplying steel casing made of 1/4" plate with connecting angles for bolting the panels of the casing together, and the interior of the casing would be lined with one inch of asbestos and 4 1/2" of brick, with the exception of the fire box portion which would be 9" thick.

This boiler complete with all steam mountings, and necessary castings for hand firing, completely connected up with suitable smoke pipe, etc., and including the removing of the old boiler would be at a price of One thousand three hundred and eighty-seven dollars (\$1,387.00). This also being inclusive of all cartage and sales tax and installation charges.

This price is somewhat higher than that quoted by us on the vertical installation, but in the long run it would be a cheaper installation owing to the saving effected in operation.

Trusting this proposal will have your consideration, and awaiting your further word, we remain,

Yours truly,

VANCOUVER ENGINEERING WORKS LIMITED

Cl. Davins
General Manager

AC*MAF

Indian Affairs. (RG 10, Volume 6442, file 880-5, part 2)

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Victoria, B. C.,

Date: June 29th, 1938.

Mr. C. F. Dawson,
District Resident Architect,
Dept. Public Works, Canada,
Victoria, B. C.



Dear Sir:

I beg to report that I inspected Boiler No.: 12369 B.C. No.2 Left Hand
on the 10th day of June, 1938, and have found it
in the following condition:

Owned by the Department of: Mines & Resources, Indian Affairs Branch,

Located at: Indian Residential School, Sardis, B.C.

Manufactured by: American Radiator Co.

Date 1922 H.P.: 73 Size: 96" x 81" x 69"

Type: Cast Iron Sectional Condition of Plates: Good

Condition of Stays: None Condition of Rivets: None

Condition of Tubes: None Working Pressure Allowed: -

Safety Valves Set at: 5 lbs. Condition: Good

Hydrostatic Test: 25 lbs. Hammer Test: Sound

Deflection Test: Normal Condition under Test: Good

Steam Gauge: 1 lb. heavy Water Gauge: Good

Test Cocks: Good Fusible Plug: New

Blow-off Cock: Good Blow-down Pipe: Good

Side Walls: }	Bridges: }	
Front Walls: }	Back Walls: }	Not bricked
Front Arches: }	Back Arches: }	Furnace good

Smoke Pipe & Breechings: Good Stoker
Firebrass: Good

Amount of Coal Used: 185 tons Kind: Nanaimo Wellington Stoker

Quality: Satisfactory B.Th.U. per lb.: 12,000 to 13,000

Steam Valves: Good Feed Valves & Checks: Good

REMARKS: Boiler & Stoker in first class condition.

T.J. Arnall,
Engineer, D.P.W.

Indian Affairs. (RG 10, Volume 6442, file 880-5, part 2)

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DEPARTMENT OF PUBLIC WORKS OF CANADA.

Certificate of Inspection of Steam Boilers.

This Certificate expires.....June 9th, 1938.....

I hereby certify that I have this day inspected the
steam boilers Number: **12369 B.C. No. 2 Left Hand**.....
of: **Indian Residential School, Sardis,**.....
In the Province of: **British Columbia**....., where
Mr. G. Fordred, Engineer,....., is in
charge, and having carefully examined the said steam
boilers have found the same in.....**Good**.....
condition, and, therefore, authorize a steam pressure
of.....**5**.....pounds per square inch and no
more.

Dated this.....**10th**.....day of.....**June, 1938,**.....

Type of Boilers.....**Cast Iron Sectional**.....

Horse-Power....**73**.....

Inspection No. **1938**.....

.....**T. J. Arnall**.....
T. J. Arnall,
S. R. P. Engineer, D.P.W.

Indian Affairs. (RG 10, Volume 6442, file 880-5, part 2)

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CANADA

POOR COPY

Victoria, B.C.

Date: June 29th, 1938.

C. Dawson, Esq.,
District Resident Architect,
Dept. Public Works, Canada,
Victoria, B.C.

Dear Sir:

I beg to report that I inspected Boiler No.: 43804 B.C.
on the 10th day of June, 1938, and have found it in
the following condition:

Owned by the Department of: Mines & Resources, Indian Affairs Branch
Located at: Indian Residential School, Sardis, B.C.
Manufactured by: Vulcan Iron works, Vancouver, B.C.
Date: 1925 H.P.: 8 Size: 30" x 6'7"
Type: Vertical Tubular Condition of Plates: fair
Condition of Stays: Good Condition of Rivets: fair
Condition of Tubes: Poor Working Pressure Allowed: 90 lbs.
Safety Valves set at: 90 lbs. Condition: Good
Hydrostatic Test: See remarks Hammer Test: Plates sound
Deflection Test: Not taken Condition under Test: Poor
Steam Gauge: Not fit for use Water Gauge: Good
Test Cocks: Good Fusible Plug: Good
Blow-off Cock: Good Blow-down Pipe: Good
Side Walls:)
Front Walls:) No brick
Front Arches:) Plates fair
Smoke Pipe & Breechings: Good Firebars: Good
Amount of Coal Used: No record Kind: Bituminous
Quality: Satisfactory B.Th.U. per lb.: 12,000 to 12,500
Steam Valves: Good Feed Valves & Checks: Good

REMARKS: This boiler has passed its usefulness and will require
retubing and new steam gauge. If this is done it is much too small
for the work it has to do. I reported this last year and since then
there is a further demand for steam, so must be changed for one of
15 to 20 H.P. before school starts. Steam pressure allowed for
present laundry requirements.

T. J. Arnall
T. J. Arnall,
S.P.R. Engineer, D.P.W.

Indian Affairs. (RG 10, Volume 6442, file 880-5, part 2)

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DEPARTMENT OF PUBLIC WORKS OF CANADA.

Certificate of Inspection of Steam Boilers.

This Certificate expires.....**June 9th, 1939.**.....

I hereby certify that I have this day inspected the
steam boilers Number:**43804 B.C.**.....
of: **Indian Residential School, Sardis.**.....
In the Province of: **British Columbia**....., where
.....**Mr. G. Fordred, Engineer,**....., is in
charge, and having carefully examined the said steam
boilers have found the same in.....**Poor**.....
condition, and, therefore, authorize a steam pressure
of.....**90**.....pounds per square inch and no
more.

Dated this.....**10th**.....day of.....**June, 1938**.....

Type of Boilers.....**Vertical Tubular**.....

Horse-Power.....**8**.....

Inspection No.....**1938**.....

.....**T. J. Arnall**.....
.....**T. J. Arnall**.....
.....**S. P. R. Engineer, D.P.S.**.....

Indian Affairs. (RG 10, Volume 6442, file 880-5, part 2)

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Public Building,
Victoria, B.C.

Date: June 30th, 1938.

C. F. Dawson, Esq.,
Dist. Res. Architect,
Dept. Public Works, Canada,
Victoria, B. C.

Dear Sir:

I beg to report that I have inspected the Machinery owned by
the DEPARTMENT of Mines & Resources, Indian Affairs Branch,
and located at Indian Residential School, Sardis, B.C.
on the 10th day of June, 1938.

and have found it in the following condition:

Service Fire Pumps: Condition:	Fair
Condensate Pumps: Condition:	None
Boiler Feed Pumps: Condition:	None
Vacuum Pumps: Condition:	None
Electric Lighting Plants: Condition:	Power Purchased
Laundry Machinery: Condition:	Well kept. See remarks
Steam Engines: Condition:	None
Gasoline Engines. Condition:	Good
Diesel Engines. Condition:	Good

REMARKS: Guards on No. 1 Washing Machine to be moved back so that
there will be 6" more clearance from gear wheels.
Guards on Drier to be made more rigid.
Steam/Hose on Dish Sterilizer in Pantry to have two clamps
on each end and to be more securely clamped to steam pipes.

T. J. Arnall
T. J. Arnall,
S.P.A. Engineer, D.P.W.

Indian Affairs. (RG 10, Volume 6442, file 880-5, part 2)

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CANADA

POOR COPY

155-0-3

Ottawa,
August 31, 1938.

Dear Sir:

Reporting on his inspection of the machinery in the Coqualeetza Residential School on June 10 last Mr. T. J. Arnall writes as follows:

"Guards on No. 1 washing machine to be moved back so that there will be 6" more clearance from gear wheels.

"Guards on drier to be made more rigid.

"Steam hose on dish sterilizer in pantry to have two clamps on each end and to be more securely clamped to steam pipes."

The above matter should receive the attention of the school staff.

Yours truly,

R. A. Hoey
R. A. Hoey,
Supt. of Welfare & Training.

RA
A. O'N. Daunt, Esq.,
Indian Agent,
New Westminster, B. C.

Indian Affairs. (RG 10, Volume 6442, file 880-5, part 2)

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DEPARTMENT OF INDIAN AFFAIRS
CANADA



15/9/5462.

Commissioner's Office,
P.O. Box 888 70,
Vancouver, B.C.,
Vancouver, B.C. 19th Aug., 1938.

Sir:

I have the honor to transmit herewith a letter of request received from the Indian Agent, New Westminster Agency, B.C., that authority be obtained for expenditure of the sum of \$786.00 for the purpose indicated therein, the amount to be charged to the under-mentioned Vote:-

INDIAN EDUCATION:- (Allot.#76-10-691).
General Vote:- painting, main bldg., manual training bldg. and Principal's residence, Coqualeetza Indian Residential School, Sardis.
B.C. Special Vote:-

The said request is recommended for favourable consideration by the Department, if funds are available.

Your obedient servant,

HN

D.M. MacKay
D.M. MacKay.
Assistant-Indian Commissioner
for British Columbia.

The Secretary,
Department of Indian Affairs,
Ottawa, Ont.

708-364

Indian Affairs. (RG 10, Volume 6442, file 880-5, part 2)

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REQUISITION FOR SUPPLIES

July 23 1938.

PLEASE FURNISH THE FOLLOWING SUPPLIES FOR USE OF.

Coqualaetza Indian Residential School, Sardis, B.C.

VOTE..... Allotment.

SHIP TO.

Purpose for which required

NOTE:—Requisition for non-consumable equipment, state if New Issue or Replacement.
“ consumable equipment and supplies use columns 1 and 2.

Quantity		Quantity on hand (1)	Quantity used per month (2)	Unit Price	TOTAL
	To Painting main building, Manual training building and residence, Coqualeetza Indian Residential School....				786.00
	Tenders have been received from:				
	V. Tournier, Chilliwack, B.C. for \$1024.00				
	Menzies Hardware Co. Ltd.,				
	Chilliwack, B.C. for \$786.00.				
	I would recommend that the tender of				
	Menzies Hardware Co. Ltd. be accepted,				
	if funds are available.				
					786.00

I hereby certify that I have personal knowledge that all the above articles are required in the Department and for Departmental purposes only. The expenditure required by this requisition is strictly unavoidable and the public interest will suffer if it is not made.

SIGNED—

APPROVED—

D. M. MacKay.

for Indian Agent. (SEE OTHER SIDE)

Form 374-Req. 8033

Director

Indian Affairs. (RG 10, Volume 6442, file 880-5, part 2)

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CANADA

POOR-COPY

153-0-5

Ottawa,
September 2, 1938.

Memorandum:

MR. BAILEY

With reference to the vertical boiler required at the Coqualeetza Residential School I enclose a copy of the specifications for the boiler. These were prepared by the District Resident Architect's Office, Department of Public Works, Victoria. I also attach quotations received from Vancouver Engineering Works Limited, Vancouver Iron Works Limited, Patterson Boiler Works, Fred Welsh & Son, Chilliwack Plumbing & Sheet Metal Company and Farquharson & Eckel Limited.

R. A. Hoey
R. A. Hoey,
Supt. of Welfare & Training.

Indian Affairs. (RG 10, Volume 6442, file 880-5, part 2)

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POOR-COPY

153-0-5

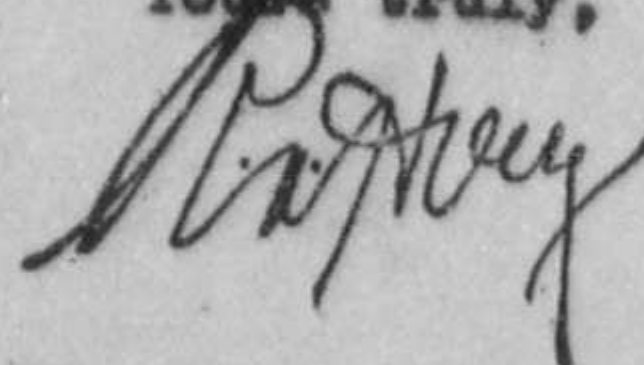
Ottawa,
September 2, 1938.

Dear Sir:

I am in receipt of your letter of the 19th ultimo submitting a quotation of \$786.00 for painting the main building, the manual training building and residence at the Coqualeetza Indian Residential School.

When the vertical boiler requested in your letter of the 19th ultimo is purchased the full amount provided in the current year's appropriation for repairs and improvements at the Coqualeetza School will have been expended. Under these circumstances it is not possible to favourably consider the expenditure required for painting. You should direct Indian Agent Daunt to include this item when preparing his estimates for the fiscal year 1939-40.

Yours truly,



R. A. Hoey,
Supt. of Welfare & Training.

Major D. M. MacKay,
Indian Commissioner,
P.O. Box 70,
Vancouver, B. C.

Indian Affairs. (RG 10, Volume 6442, file 880-5, part 2)

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REQUISITION FOR SUPPLIES File No. 155-0-5

September 2 1938

Requisition No.

Order No. 68097-2

PLEASE FURNISH THE FOLLOWING SUPPLIES FOR USE OF Cogswell Residential School

VOTE **76** Allotment **12-422**

SHIP TO Rev. R. C. Scott, Principal, Coqualeetza Indian Residential School,
Sardis, B. C.

Purpose for which required **Boiler for school**

NOTE:—Requisition for non-consumable equipment, state if New Issue or Replacement.
consumable equipment and supplies use columns 1 and 2.

Quantity		Quantity on hand (1)	Quantity used per month (2)	Unit Price	TOTAL
1	Vertical boiler having an approximate heating surface of 165 square feet, to be approximately 36" in diameter, 7'6" long and to carry a working pressure of 140 pounds per square inch.				
	<u>Note: See memorandum attached</u>				

I hereby certify that I have personal knowledge that all the above articles are required in the Department and for Departmental purposes only. The expenditure required by this requisition is strictly unavoidable and the public interest will suffer if it is not made.

SIGNED—

APPROVED—

Director

Form 374—Rev. 8-23-38

(SEE OTHER SIDE)

Indian Affairs. (RG 10, Volume 6442, file 880-5, part 2)

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EX'D.

Ottawa,
September 2, 1938.

Memorandum:

DEPUTY MINISTER

Indian Commissioner MacKay has brought to our attention the fact that a new boiler is required immediately at the Coqualoctsa Indian Residential School, Sardis, B.C., Electoral District of Fraser Valley, New Westminster Indian Agency.

As the cost of the boiler and its installation will involve an expenditure between \$800.00 and \$900.00 I would appreciate it if the Honourable the Minister would approve of the purchase. In that event the attached purchase order should be forwarded to the Purchasing Agent.

PP
WA

PP

TRK-M
Acting Director.

Sept 4/38

Indian Affairs. (RG 10, Volume 6442, file 880-5, part 2)

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CANADA

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DEPARTMENT OF PUBLIC WORKS OF CANADA.

Certificate of Inspection of Steam Boilers.

This Certificate expires.....June 9th, 1939.....

I hereby certify that I have this day inspected the
steam boilers Number:12358 B.C. No. 1 Right Hand.
of:Indian Residential School, Sardis,.....
In the Province of: ...British Columbia....., where
.....Mr. G. Fordred, Engineer,....., is in
charge, and having carefully examined the said steam
boilers have found the same in.....Good.....
condition, and, therefore, authorize a steam pressure
of.....5.....pounds per square inch and no
more.

Dated the.....10th.....day of...June, 1938.....

Type of Boilers.....Cast Iron Sectional.....

Horse-Power.....62.....

Inspection No....1238.....

.....T. J. Arnall.....
T. J. Arnall,
S. P. R. Engineer, D. P. W.

Indian Affairs. (RG 10, Volume 6442, file 880-5, part 2)

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Victoria, B. C.,

Date: June 30th, 1938.

Mr. C. F. Dawson,
District Resident Architect,
Dept. Public Works, Canada,
Victoria, B. C.

R



Dear Sir:

I beg to report that I inspected Boiler No.: 12358 No. 1 Right Hand
on the 10th day of June, 1938, and have found it
in the following condition:

Owned by the Department of: Mines & Resources, Indian Affairs Branch,

Located at: Indian Residential School, Sardis, B. C.

Manufactured by: American Radiator Co.

Date 1919 H.P.: 62 Size: 85" x 81" x 69"

Type: Cast Iron Sectional Condition of Plates: Good

Condition of Stays: None Condition of Rivets: None

Condition of Tubes: None Working Pressure Allowed: 5 lbs.

Safety Valves Set at: 5 lbs. Condition: Good

Hydrostatic Test: 25 lbs. Hammer Test: Sound

Deflection Test: Normal Condition under Test: Good

Steam Gauge: Correct Water Gauge: Good

Test Cocks: Good Fusible Plug: Good

Blow-off Cock: Good Blow-down Pipe: Good

Side Walls: }	Bridges: }
Front Walls: }	Back Walls: }
Front Arches: }	Back Arches: }
Not bricked	Not bricked
Plates good	Plates good

Smoke Pipe & Breechings: Good Firebars: Good

Amount of Coal Used: No record Kind: Nanaimo Wellington

Quality: Satisfactory B.Th.U. per lb.: 12,000 to 13,000

Steam Valves: Good Feed Valves & Checks: Good

REMARKS: Boiler in first Class condition.

T. J. Arnall
T. J. Arnall,
S.P.P. Engineer, D.P.W.

Indian Affairs. (RG 10, Volume 6442, file 880-5, part 2)

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OFFICE OF THE
INDIAN AGENT

CANADA
DEPARTMENT
OF
MINES AND RESOURCES
INDIAN AFFAIRS BRANCH

PLEASE QUOTE
FILE 1-8-B.

New Westminster, B.C.
September 9th, 1938.

SIR:-

EXD R



In reply to your letter of August 31st, File, 153-0-5, in connection with Mr. T.J. Arnall's report on the machinery at the Coqualeetza Indian Residential School, I beg to say that the points raised by him have all been attended to, and there should be no danger to children from the machinery in future.

Your obedient servant,

A.O.N. Daunt
A.O.N. Daunt,
Indian Agent.

The Secretary,
Indian Affairs Branch,
Department of Mines & Resources,
Ottawa, Ontario.

Indian Affairs. (RG 10, Volume 6442, file 880-5, part 2)

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153-0-5

VOL.6

CLOSED

FROM

4/5/36.

TO

9/9/38

Indian Affairs. (RG 10, Volume 6442, file 880-5, part 2)

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