



Canadian Softwood Inspection Agency, Inc.
TREATED WOOD PRODUCTS
Inspection and Progress Report

Item:	Hemlock Timbers	Purchase Order No.:	LAC 1065	Report No.:	7
Client:	WELCO LUMBER CORP.	Specification:		Project:	
		Treatment Specification:		Date:	June 7.2023
Manuf. And Location:	Stella Jones	Manuf. P / O No.:	CCA		
	Prince George, BC	Seasoning (MC%):	Min: _____		
Destination:			Max: _____		
Framed To Drawing:	YES	Incised:	YES	Charge No.:	_____

PENETRATION RESULTS								MATERIAL INSPECTED					
☒ Incised Zone				☒ mm				Process: ☐ LOWRY ☐ RUEPING					
☐ Non-incised Zone				☐ eighths				☒ FULL CELL ☐ REFUSAL					
	DEPTH SAPWOOD	DEPTH PEN	% SAP SAPWOOD		DEPTH SAPWOOD	DEPTH PEN	% SAP SAPWOOD	ITEM	NO. OF PIECES	SIZE / CLASS	LENGTH	☒ Lineal ☐ Fbm	
1				1				HEMLOCK Timbers					
2				2									
3				3									
4				4									
5				5									
6				6									
7				7									
8				8									
9				9									
0				0									
1				1									
2				2									
3				3									
4				4									
PLEASE NOTE THAT CSI DOES NOT TEST CARRIERS OF PRESERVATIVES. CSI MAKES NO REPRESENTATIONS REGARDING THE COMPOSITION OR SUFFICIENCY OF CARRIERS, AND THE TESTS REFLECTED ON THIS REPORT SHOULD NOT BE RELIED UPON TO MAKE DETERMINATIONS REGARDING THE SUFFICIENCY OF LONG-TERM PERFORMANCE OF THE CARRIERS USED IN THE TESTED MATERIALS.													
TREATABLE CUBIC FEET IN CHARGE:									13824				
PRESERVATIVE								TREATING CYCLE SUMMARY					
☐ Creosote				☒ CCA				Stage	TIME	MAX. TEMP.	MAX. PRESS.	VACUUM	CONDEN.
☐ Pentachlorophenol				☐ ACQ				Pre-condition					
☐ ACZA				☐ 50/50 mix				Initial Vacuum					
RETENTION BY ASSAY								Bath					
REQUIRED: ☐ 0.25 ☒ 0.40 ☐ 0.60 ☐ 10 lbs								Boil In Oil					
INCISED ZONE				NON-INCISED ZONE				Initial Air					
Outer		Inner						Pressure					
								Exp Bath					
								Final vacuum					
RETENTION BY GAUGE								Steam / Fix					
REQUIRED:				GALS. RETAINED				TOTAL TIME FOR TREATING					
				GALS.				hrs					
REQUIRED:				pcf RETAINED				MARKING ON ACCEPTED PIECES: CSI 5N ☒ Yes ☐ No					
				pcf				☐ Random					
RUNNING TALLY								REMARKS					
NO. OF PIECES REQUIRED:				3x12x16' 360 - 3x12 x20' 720 pcs				These 3x12 were #1 & BTR Hemlock					
PREVIOUSLY ACCEPTED:								Stamp the end of the pieces on one end					
ACCEPTED THIS REPORT:				16'- 48pcs , 20'- 192pcs									
TOTAL ACCEPTED TO DATE:								Inspector - Dan Spiers					

OXFORD LAB-X 2500

POLES ANALYSIS

1/6/2023 17:06

Calibration title: CCA Poles-pcf

WELCO

SAMPLE ID: 230528

DENSITY = 23.8 pcf

Bit diameter = 0.196 in

Boring length = 12.00 in

Mass = 2.26 g

%WT OXIDES	%BALANCE
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CR03 = 2.057 %	47.3
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CUO = 0.814 %	18.7
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AS205 = 1.483 %	34.1
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TOTAL = 4.354 %WT	100.0
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RETENTION

CR03 = 0.489 pcf

CUO = 0.193 pcf

AS205 = 0.353 pcf

TOTAL= 1.035 pcf

STELLA JONES

RECORD OF PRESSURE TREATMENT Charge No. : 230528

Plant : Prince G	Process : FULL CELL	Preserv. Type : CCA	Concentr. 3.79 %
Cylinder : 3	Operator : Mark	Volume : 1096 C.F.	Moisture : 23.0 %
Specified Net Retention			
Assay: 0.00 pcf	Gauge: 0.00 pcf	Date In (d/m/y): 31 / 05 / 2023	TIME IN : 15.48
		Date Out (d/m/y): 31 / 05 / 2023	TIME OUT : 20.42

Order #	Customer	Product	Species	Size/Class	Length	Pieces/FBM	Cubic Feet
	Atco	Transmission Poles	Cedar	1	70	9	778.5
	Atco	Poles	Cedar	3	45	2	66.8
	Atco	Poles	Cedar	2	60	1	59.6
	Welco	Timbers	Hem	3x12	16	48	192.0

ATCO
Done

Treating Cycle Summary					
Operation	Start	End	Press./Vac.	Temper.(°F)	Run Time
Initial Vacuum	15.48	15.98	20.5 "hg	64	0.50
Filling	15.98	16.17	20.3 "hg	66	0.19
Soaking	16.17	16.17	13.9 "hg	66	0.00
Vac Release	16.17	16.18	1 "hg	66	0.02
Pressure	16.18	19.20	136 PSI	67	3.01
Press. Release	19.20	19.23	111. PSI	67	0.03
Pump Out	19.23	19.68	0.0 PSI	67	0.46
Final Vacuum	19.68	20.18	-9.4 "hg	67	0.50
Vac Release	20.18	20.27	0 "hg	67	0.08
Final Strip	20.27	20.42	1 "hg	67	0.16
Down Time	0.01 Hrs		Pause Time		0.00 Hrs
Cycle Running Time					4.94 Hrs
Total Cycle (Cycle Running Time + Pause Time)					4.94 Hrs

Material

Preservative Retention Summary			
Charging Tank Reading	Gauge (FT)	Temper.(°F)	l.Gal. @ °F
Start A	13.36	67	14763
End Fill for Pressure B	4.77	68	5272
End Pressure Period C	4.06	67	4484
End Final Drain D	12.72	67	14054

Absorption & Retentions		Imp.Gals	Pounds	LBS/CU.FT
Gross Retention	(B-C)	787	320	0.29
Net Retention	(A-D)	708	288	0.26

Operator : _____ Foreman : _____



RECORD OF PRESSURE TREATMENT Charge No. : 230528					
Plant : Prince G	Process : FIXATION		Preserv.Type : CCA		Concentr. 3.79 %
Cylinder : 3			Volume : 1096 C.F.		Moisture : 23.0 %
Specified Net Retention					
Assay: 0.00 pcf		Gauge: 0.00 pcf		Date In (d/m/y): 31/05/2023	TIME IN : 21.97
				Date Out (d/m/y): 01/06/2023	TIME OUT : 4.72

Treating Cycle Summary					
Operation	Start	End	Temper.(°F)		Run Time
Heating	21.97	22.70	150		0.73
Fixation	22.70	4.72	170		6.02
Down Time	9.02 Hrs		Pause Time		0.00 Hrs
Cycle Running Time					6.75 Hrs
Total Cycle (Cycle Running Time + Pause Time)					6.75 Hrs

Time (Hrs)	Temper. (°F)
23.70	169
0.70	170
1.70	167
2.70	163
3.70	159

Operator : _____ Foreman : _____

Penetration Report

Customer/Order#: WELCO *LAC #1265*
Charge#: 23-0528
Product/Commodity: TIMBERS
Standard/Spec: CUST SPEC

Preservative: CCA

Ref#:

Species: HEM

Production Date: 31/05/2023

QTY	Class (pole) / Dimension (in.)	Length (ft.)
48	3X12	16

QTY	Class (pole) / Dimension (in.)	Length (ft.)

Core#	Penetration (mm)	Sapwood (mm)	Conformance
1	13	13	100%
2	12	12	100%
3	15	15	100%
4	19	19	100%
5	20	20	100%
6	35	35	100%
7	14	14	100%
8	19	19	100%
9	10	10	100%
10	37	37	100%
11	10	10	100%
12	24	24	100%
13	10	10	100%
14	15	15	100%
15	25	25	100%
16	10	10	100%
17	20	20	100%
18	28	28	100%
19	11	11	100%
20	14	14	100%

Core#	Penetration (mm)	Sapwood (mm)	Conformance
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			

Penetration (mm): 10 35
Min Max

Sapwood (mm): 10 35
Min Max

MC (%):
Low High

% Conformance: 100%

Comments:

DOA: JUNE.01/2023

QC: Norm Wood/Brayden Smith

INSP: Dan Spiers

Print

[Signature]
Signature

OXFORD LAB-X 2500

POLES ANALYSIS

9/6/2023 12:34

Calibration title: CCA Poles-pcf

SAMPLE ID: 230565

DENSITY = 19.0 pcf

Bit diameter = 0.196 in

Boring length = 12.00 in

Mass = 1.81 g

%WT OXIDES	%BALANCE
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CR03 = 2.286 %	47.8
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CU0 = 0.844 %	17.6
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AS205 = 1.654 %	34.6
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TOTAL = 4.783 %WT	100.0
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RETENTION

CR03 = 0.435 pcf

CU0 = 0.161 pcf

AS205 = 0.315 pcf

TOTAL= 0.911 pcf

RECORD OF PRESSURE TREATMENT Charge No. : 230565

Plant : Prince G	Process : FULL CELL	Preserv.Type : CCA	Concentr. 3.90 %
Cylinder : 3	Operator :KYLE	Volume : 923 C.F.	Moisture : 25.0 %
Specified Net Retention			
Assay: 0.00 pcf	Gauge: 0.00 pcf	Date In (d/m/y): 08/06/2023	TIME IN : 0.52
		Date Out (d/m/y): 08/06/2023	TIME OUT : 5.65

Order #	Customer	Product	Species	Size/Class	Length	Pieces/FBM	Cubic Feet
	ATCO WELCO	POLES TIMBERS	WRC DF	1 3X12	60 20	10 48	683.0 240.0

Treating Cycle Summary					
Operation	Start	End	Press./Vac.	Temper.(°F)	Run Time
Initial Vacuum	0.52	1.02	21.4 "hg	71	0.50
Filling	1.02	1.02	21.3 "hg	71	0.00
Soaking	1.02	1.02	21.2 "hg	71	0.00
Vac Release	1.02	1.12	0 "hg	71	0.10
Pressure	1.12	4.33	104 PSI	72	3.01
Press. Release	4.33	04.37	80.4 PSI	70	0.04
Pump Out	4.37	4.87	0.0 PSI	70	0.50
Final Vacuum	4.87	5.37	-10. "hg	70	0.50
Vac Release	5.37	05.47	0 "hg	70	0.09
Final Strip	5.47	05.65	1 "hg	71	0.18
Down Time	0.01 Hrs		Pause Time		0.21 Hrs
Cycle Running Time					4.92 Hrs
Total Cycle (Cycle Running Time + Pause Time)					5.12 Hrs

Material

Preservative Retention Summary				
Charging Tank Reading	Gauge (FT)	Temper.(°F)	I.Gal.@ °F	
Start A	13.36	70	14763	
End Fill for Pressure B	13.36	69	14763	
End Pressure Period C	3.14	70	3465	
End Final Drain D	12.67	70	14005	

Absorption & Retentions		Imp.Gals	Pounds	LBS/CU.FT
Gross Retention	(B-C)	11298	4728	5.12
Net Retention	(A-D)	758	317	0.34

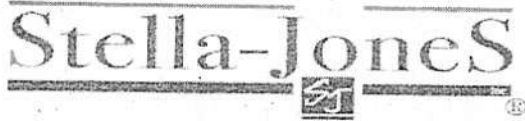
Operator : _____ Foreman : _____

RECORD OF PRESSURE TREATMENT						Charge No. :	230565
Plant : Prince G	*Process : FIXATION		Preserv.Type : CCA		Concentr.	3.90 %	
Cylinder : 3			Volume : 923 C.F.		Moisture :	25.0 %	
Specified Net Retention							
Assay:	0.00	pcf	Gauge:	0.00	pcf	Date In (d/m/y):	08/ 06/ 2023
						Date Out (d/m/y):	08/ 06/ 2023
						TIME IN :	7.22
						TIME OUT :	13.30

Treating Cycle Summary					
Operation	Start	End	Temper.(°F)		Run Time
Heating	7.22	7.77		150	0.56
Fixation	7.77	13.30		186	5.53
Down Time	0.84 Hrs		Pause Time		0.00 Hrs
Cycle Running Time					6.10 Hrs
Total Cycle (Cycle Running Time + Pause Time)					6.10 Hrs

Time (Hrs)	Temper. (°F)
8.77	174
9.77	176
10.77	180
11.77	183
12.77	184

Operator : _____ Foreman : _____



Prince George Operation
7177 Pacific St, Prince George, BC
250-561-1161

Penetration Report

Customer/Order#: WELCO **LAC 1065**
Charge#: 23-0565
Product/Commodity: TIMBERS
Standard/Spec: CUST SPEC

Preservative: CCA
Ref#:
Species: HEMLOCK
Production Date: 8/6/2023

QTY	Class (pole) / Dimension (in.)	Length (ft.)
48	3X12	20

GL

Core#	Penetration (mm)	Sapwood (mm)	Conformance
1	13	13	100%
2	35	35	100%
3	16	16	100%
4	50	50	100%
5	18	18	100%
6	36	36	100%
7	28	28	100%
8	33	33	100%
9	15	15	100%
10	18	18	100%
11	14	14	100%
12	11	11	100%
13	12	12	100%
14	16	16	100%
15	30	30	100%
16	8	8	100%
17	22	22	100%
18	33	33	100%
19	13	13	100%
20	37	37	100%

Penetration (mm): 8 50
Min Max

MC (%):
Low High

Comments:

QTY	Class (pole) / Dimension (in.)	Length (ft.)

MIDS

Core#	Penetration (mm)	Sapwood (mm)	Conformance
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			

Sapwood (mm): 8 50
Min Max

% Conformance: 100%

DOA: June.09/2023
QC: Norm Wood/Brayden Smith
INSP: Norm Wood/Brayden Smith

Print

Signature

OXFORD LAB-X 2500

POLES ANALYSIS

9/6/2023 12:09

Calibration title: CCA Poles-pcf

SAMPLE ID: 230566

DENSITY = 20.8 pcf

Bit diameter = 0.196 in

Boring length = 12.00 in

Mass = 1.98 g

%WT OXIDES	%BALANCE
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CR03 = 2.546 %	47.7
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CU0 = 0.970 %	18.2
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AS205 = 1.817 %	34.1
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TOTAL = 5.333 %WT	100.0
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RETENTION

CR03 = 0.530 pcf

CU0 = 0.202 pcf

AS205 = 0.378 pcf

TOTAL= 1.111 pcf



RECORD OF PRESSURE TREATMENT Charge No. : 230566

Plant : Prince G.	Process : FULL CELL	Preserv.Type : CCA	Concentr. 3.61 %
Cylinder : 3	Operator : Mark	Volume : 968 C.F.	Moisture : 23.0 %
Specified Net Retention		Date In (d/m/y): 08/06/2023	TIME IN : 8.22
Assay: 0.00 pcf	Gauge: 0.00 pcf	Date Out (d/m/y): 08/06/2023	TIME OUT : 13.22

Order #	Customer	Product	Species	Size/Class	Length	Pieces/FBM	Cubic Feet .
	Atco	Poles	WRC	1	60	5	341.5
	Atco	Poles	WRC	1	50	1	51.7
	Atco	Poles	WRC	3	50	5	196.0
	Atco	Poles	WRC	3	40	5	139.0
	Welco	Timbers	Hem	3x12	20	48	240.0

Treating Cycle Summary					
Operation	Start	End	Press./Vac.	Temper.(°F)	Run Time
Initial Vacuum	8.22	8.72	21.9 "hg	67	0.50
Filling	8.72	8.92	21.7 "hg	69	0.18
Soaking	8.92	8.92	14.8 "hg	69	0.00
Vac Release	8.92	8.93	1 "hg	69	0.02
Pressure	8.93	11.93	112 PSI	71	3.01
Press. Release	11.93	11.97	80.6 PSI	71	0.03
Pump Out	11.97	12.43	0.0 PSI	72	0.48
Final Vacuum	12.43	12.93	-10. "hg	74	0.50
Vac Release	12.93	13.03	0 "hg	74	0.09
Final Strip	13.03	13.22	1 "hg	75	0.18
Down Time	0.93 Hrs		Pause Time		0.00 Hrs
Cycle Running Time					4.99 Hrs
Total Cycle (Cycle Running Time + Pause Time)					4.99 Hrs

Material

Preservative Retention Summary			
Charging Tank Reading	Gauge (FT)	Temper.(°F)	I.Gal.@ °F
Start A	13.38	70	14783
End Fill for Pressure B	4.44	71	4908
End Pressure Period C	3.68	71	4066
End Final Drain D	12.70	71	14030

Absorption & Retentions		Imp.Gals	Pounds	LBS/CU.FT
Gross Retention	(B-C)	841	326	0.34
Net Retention	(A-D)	753	291	0.30

Operator : _____ Foreman : _____

m



RECORD OF PRESSURE TREATMENT Charge No. : 230566				
Plant : Prince G	Process : FIXATION	Preserv.Type : CCA	Concentr.	3.61 %
Cylinder : 3		Volume : 968 C.F.	Moisture :	23.0 %
Specified Net Retention				
Assay: 0.00 pcf	Gauge: 0.00 pcf	Date In (d/m/y): 08/06/2023	TIME IN :	14.20
		Date Out (d/m/y): 08/06/2023	TIME OUT :	19.72

Treating Cycle Summary					
Operation	Start	End	Temper.(°F)		Run Time
Heating	14.20	14.22		161	0.02
Fixation	14.22	19.72		180	5.50
Down Time	0.88 Hrs		Pause Time		0.00 Hrs
Cycle Running Time					5.52 Hrs
Total Cycle (Cycle Running Time + Pause Time)					5.52 Hrs

Time (Hrs)	Temper. (°F)
15.22	186
16.22	172
17.22	174
18.22	176
19.22	179

Operator : _____ Foreman : _____

Penetration Report

Customer/Order#: WELCO **LAL 1065**
Charge#: 23-0566
Product/Commodity: TIMBERS
Standard/Spec: CUST SPEC

Preservative: CCA

Ref#:

Species: HEMLOCK

Production Date: 8/6/2023

QTY	Class (pole) / Dimension (in.)	Length (ft.)
48	3X12	20

GL

Core#	Penetration (mm)	Sapwood (mm)	Conformance
1	25	25	100%
2	28	28	100%
3	11	11	100%
4	12	12	100%
5	23	23	100%
6	22	22	100%
7	30	30	100%
8	8	8	100%
9	10	10	100%
10	20	20	100%
11	21	21	100%
12	35	35	100%
13	32	32	100%
14	6	6	100%
15	14	14	100%
16	10	10	100%
17	16	16	100%
18	21	21	100%
19	8	8	100%
20	14	14	100%

Penetration (mm): 5 35
Min Max

MC (%):
Low High

Comments:

QTY	Class (pole) / Dimension (in.)	Length (ft.)

MIDS

Core#	Penetration (mm)	Sapwood (mm)	Conformance
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			

Sapwood (mm): 5 35
Min Max

% Conformance: 100%

DOA: June.09/2023

QC: Norm Wood/Brayden Smith

INSP: Norm Wood/Brayden Smith

Print

Norm Wood

Signature

Ryan Booth
Plant Manager

OXFORD LAB-X CCA

CCA Poles-pcf

Last restandardised 15/5/2023 15:24

OXFORD LAB-X 2500

POLES ANALYSIS

14/6/2023 16:49

Calibration title: CCA Poles-pcf

SAMPLE ID: 230580

DENSITY = 23.3 pcf

Bit diameter = 0.196 in

Boring length = 12.00 in

Mass = 2.21 g

	%WT OXIDES	%BALANCE
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CR03 =	1.737 %	46.5
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CU0 =	0.696 %	18.6
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AS205 =	1.303 %	34.9
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TOTAL =	3.736 %WT	100.0
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RETENTION

CR03 = 0.404 pcf

CU0 = 0.162 pcf

AS205 = 0.303 pcf

TOTAL= 0.869 pcf



RECORD OF PRESSURE TREATMENT Charge No. : 230580

Plant : Prince George	Process : FULL CELL	Preserv.Type : CCA	Concentr. 3.10 %
Cylinder : 3	Operator : EARL	Volume : 999 C.F.	Moisture : 23.0 %
Specified Net Retention			
Assay: 0.00 pcf	Gauge: 0.00 pcf	Date In (d/m/y): 10/ 06/ 2023	TIME IN : 16.00
		Date Out (d/m/y): 10/ 06/ 2023	TIME OUT : 21.03

WELCO

Order #	Customer	Product	Species	Size/Class	Length	Pieces/FBM	Cubic Feet
	WELCO	TIMBERS	FIR	3X12	20	48	240.0
	BCH	POLES	WRC	3	50	3	118.0
	BCH	POLES	WRC	1	55	5	299.0
	BCH	POLES	WRC	1	60	5	342.0

Treating Cycle Summary						
Operation	Start	End	Press./Vac.	Temper.(°F)	Run Time	
Initial Vacuum	16.00	16.70	2.5 "hg	71	0.50	
Filling	16.70	16.70	3.0 "hg	71	0.00	
Soaking	16.70	16.70	2.9 "hg	71	0.00	
Vac Release	16.70	16.72	2 "hg	71	0.02	
Pressure	16.72	19.73	114 PSI	72	3.01	
Press. Release	19.73	19.75	88.4 PSI	72	0.03	
Pump Out	19.75	20.23	0.0 PSI	72	0.48	
Final Vacuum	20.23	20.73	-10. "hg	71	0.50	
Vac Release	20.73	20.83	0 "hg	70	0.09	
Final Strip	20.83	21.03	1 "hg	70	0.20	
Down Time	0.64 Hrs		Pause Time		0.20 Hrs	
Cycle Running Time					4.83 Hrs	
Total Cycle (Cycle Running Time + Pause Time)					5.03 Hrs	

Material

Preservative Retention Summary			
Charging Tank Reading	Gauge (FT)	Temper.(°F)	l.Gal.@ °F
Start A	13.38	73	14783
End Fill for Pressure B	4.16	73	4598
End Pressure Period C	3.54	72	3908
End Final Drain D	12.76	71	14099

Absorption & Retentions		Imp.Gals	Pounds	LBS/CU.FT
Gross Retention	(B-C)	689	229	0.23
Net Retention	(A-D)	684	227	0.23

Operator : _____ Foreman : _____

Plant: Prince George	Process: FIXATION	Preserv. Type: CCA	Concentr. 3.10 %
Cylinder: 3		Volume: 999 C.F.	Moisture: 23.0 %
Specified Net Retention			
Assay: 0.00 pcf	Gauge: 0.00 pcf	Date In (d/m/y): 11/06/2023	TIME IN: 6.57
		Date Out (d/m/y): 11/06/2023	TIME OUT: 13.25

Treating Cycle Summary					
Operation	Start	End	Temper.(°F)	Run Time	
Heating	6.57	7.75			
Fixation	7.75	13.25	150	1.17	
			181	5.50	
Down Time	0.49 Hrs		Pause Time		0.00 Hrs
Cycle Running Time				6.67 Hrs	
Total Cycle (Cycle Running Time + Pause Time)				6.67 Hrs	

Time (Hrs)	Temper. (°F)
8.75	165
9.75	166
10.75	176
11.75	177
12.75	181

Operator: _____ Foreman: _____



Prince George Operation
7177 Pacific St, Prince George, BC
250-561-1161

Penetration Report

Customer/Order#: WELCO
Charge#: 23-0580
Product/Commodity: POLES
Standard/Spec: 423-2000

Preservative: CCA
Ref#:
Species: HEM
Production Date: 10/6/2023

QTY	Class (pole) / Dimension (in.)	Length (ft.)
48	3X12	20

QTY	Class (pole) / Dimension (in.)	Length (ft.)

Core#	Penetration (mm)	Sapwood (mm)	Conformance
1	35	35	100%
2	41	41	100%
3	40	40	100%
4	10	10	100%
5	18	18	100%
6	29	29	100%
7	65	65	100%
8	42	42	100%
9	44	44	100%
10	34	34	100%
11	15	15	100%
12	51	51	100%
13	11	11	100%
14	57	57	100%
15	16	16	100%
16	68	68	100%
17	34	34	100%
18	11	11	100%
19	15	15	100%
20	21	21	100%

Core#	Penetration (mm)	Sapwood (mm)	Conformance
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			

Penetration (mm): 10 68
Min Max

Sapwood (mm): 10 68
Min Max

MC (%):
Low High

% Conformance: 100%

Comments:

DOA: JUNE.14/2023

QC: Norm Wood/Brayden Smith

INSP: Dan Spiers

Print

Signature

Ryan Booth
Plant Manager

OXFORD I -X 2500

POLES ANALYSIS

14/6/2023 15:34

Calibration title: CCA Poles-pcf

SAMPLE ID: 230581

DENSITY = 21.3 pcf

Bit diameter = 0.196 in

Boring length = 12.00 in

Mass = 2.02 g

	%WT OXIDES	%BALANCE
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CR03 =	2.381 %	48.0
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CUO =	0.883 %	17.8
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AS205 =	1.693 %	34.2
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TOTAL =	4.957 %WT	100.0
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RETENTION

CR03 = 0.506 pcf

CUO = 0.188 pcf

AS205 = 0.360 pcf

TOTAL= 1.053 pcf



RECORD OF PRESSURE TREATMENT Charge No. : 230581					
Plant : Prince G.	Process : FULL CELL	Preserv.Type : CCA	Concentr. : 3.31 %		
Cylinder : 3	Operator :EARL	Volume : 878 C.F.	Moisture : 23.0 %		
Specified Net Retention		Date In (d/m/y): 11/ 06/ 2023	TIME IN : 6.70		
Assay: 0.00 pcf	Gauge: 0.00 pcf	Date Out (d/m/y): 11/ 06/ 2023	TIME OUT : 12.57		

Order #	Customer	Product	Species	Size/Class	Length	Pieces/FBM	Cubic Feet
	BCH	POLES	WRC	2	50	3	136.0
	BCH	POLES	WRC	3	55	11	502.0
	WELCO	TIMBERS	HEM	3X12	20	48	240.0

Treating Cycle Summary					
Operation	Start	End	Press./Vac.	Temper.(°F)	Run Time
Initial Vacuum	6.70	7.20	21.4 "hg	64	0.50
Filling	7.20	7.20	21.2 "hg	63	0.00
Soaking	7.20	7.20	21.2 "hg	63	0.00
Vac Release	7.20	7.30	0 "hg	63	0.10
Pressure	7.30	10.65	108 PSI	70	3.01
Press. Release	10.65	10.68	82.3 PSI	70	0.03
Pump Out	10.68	10.70	0.0 PSI	70	0.01
Final Vacuum	10.70	11.20	-10. "hg	70	0.50
Vac Release	11.20	11.22	2 "hg	70	0.02
Final Strip	11.22	12.57	2 "hg	71	0.28
Down Time	0.00 Hrs		Pause Time		1.43 Hrs
Cycle Running Time					4.44 Hrs
Total Cycle (Cycle Running Time + Pause Time)					5.87 Hrs

Material

Preservative Retention Summary			
Charging Tank Reading	Gauge (FT)	Temper.(°F)	I.Gal.@ °F
Start A	13.36	66	14763
End Fill for Pressure B	13.37	66	14768
End Pressure Period C	3.17	70	3500
End Final Drain D	12.65	70	13981

Absorption & Retentions		Imp.Gals	Pounds	LBS/CU.FT
Gross Retention	(B-C)	11268	4002	4.56
Net Retention	(A-D)	782	278	0.32

Operator : _____ Foreman : _____

RECORD OF PRESSURE TREATMENT Charge No. : 230581

Plant : Prince G.	Process : FIXATION	Preserv.Type : CCA	Concentr. : 3.31 %
Cylinder : 3		Volume : 878 C.F.	Moisture : 23.0 %
Specified Net Retention			
Assny: 0.00 pcf	Gauge: 0.00 pcf	Date In (d/m/y): 11/06/2023	TIME IN : 16.70
		Date Out (d/m/y): 11/06/2023	TIME OUT : 22.78

Heating Cycle Summary				
Operation	Start	End	Temper.(°F)	Run Time
Heating	16.70	17.28	150	0.58
Fixation	17.28	22.78	174	5.50
Down Time	0.12 Hrs	Pause Time		0.00 Hrs
Cycle Running Time				6.08 Hrs
Total Cycle (Cycle Running Time + Pause Time)				6.08 Hrs

Time (Hrs)	Temper. (°F)
18.28	181
19.28	173
20.28	174
21.28	174
22.28	173

Operator : _____ Foreman : _____



Prince George Operation
7177 Pacific St, Prince George, BC
250-561-1161

Penetration Report

Customer/Order#: WELCO
Charge#: 23-0581
Product/Commodity: POLES
Standard/Spec: 423-2000

Preservative: CCA
Ref#:
Species: HEM
Production Date: 11/6/2023

QTY	Class (pole) / Dimension (in.)	Length (ft.)
48	3X12	20

Core#	Penetration (mm)	Sapwood (mm)	Conformance
1	14	14	100%
2	25	25	100%
3	18	18	100%
4	18	18	100%
5	21	21	100%
6	10	10	100%
7	10	10	100%
8	10	10	100%
9	10	10	100%
10	14	14	100%
11	21	21	100%
12	11	11	100%
13	12	12	100%
14	10	10	100%
15	20	20	100%
16	11	11	100%
17	10	10	100%
18	30	30	100%
19	25	25	100%
20	18	18	100%

Penetration (mm): 10 25
Min Max
MC (%):
Low High

Comments:

QTY	Class (pole) / Dimension (in.)	Length (ft.)

Core#	Penetration (mm)	Sapwood (mm)	Conformance
21			
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26			
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30			
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33			
34			
35			
36			
37			
38			
39			
40			

Sapwood (mm): 10 25
Min Max
% Conformance: 100%

DOA: JUNE.14/2023
QC: Norm Wood/Brayden Smith
INSP: Dan Spiers

Print

Signature

