KENORA TIMBERSTRAND® 2011 TOXIC SUBSTANCE REDUCTION PLAN SUMMARY FOR

Cadmium

Statement of Intent: Cadmium is an element that is a naturally occurring component of the raw wood used to manufacture TimberStrand[®]. It is not used or created in any part of the manufacturing process but is present as a component of wood, biomass and ash. This plan will not address the use or creation of Cadmium.

Objective: Where possible the facility plans to minimize the amount of Cadmium that is disposed of offsite to landfill through efficient conversion of raw materials into TimberStrand[®].

Target: The facility has not set any targets for reduction in the use or creation of Cadmium.

Description of Toxic Substances Found at Kenora TimberStrand®

There are 4 Phase 1 toxic substances that require development of a Toxic Substance Reduction Plan based on the criteria set out in the Toxics Reduction Act, 2009 and O.Reg. 455/09.

The substances are:

Cadmium

• A component of raw wood and carried through to the end product.

Zinc*

- A component of raw wood and carried through to the end product
- As a component of an additive for a specific product produced

Formaldehyde*

 As a by-product of drying strands, heating mats to cure resin and burning of wood biomass

Methanol*

 As a by-product of drying strands, heating mats to cure resin and burning of wood biomass

Note*: Separate plans have been developed for Zinc, Formaldehyde and Methanol

Reduction Options to be Implemented

None. Cadmium is an element and is naturally occurring in all trees and it is neither used nor created at this facility. The amount of Cadmium present in any tree is dependent on the geology and climate of where the tree grows. Because Cadmium is an element it cannot be created or destroyed and in this facility it is carried through the processes unchanged. Products created and residuals from the heat-energy and manufacturing processes carry with them the residual amounts of Cadmium from the source. Every effort is made to reduce the amounts of waste produced that is transferred to landfill or discharged as particulate to the atmosphere, but there are no options available to reduce the use or creation of Cadmium

Toxic Substance Reduction Plan Summary - Cadmium

Facility Information:

Facility Name: Kenora TimberStrand®

NPRI Identification Number: 7658
O. Reg. 127 Number: 9016
Two Digit NAICS Code: 32
Four Digit NAICS Code: 3212
Six Digit NAICS Code: 321215
Number of Full-time Employees: 151

UTM Spatial Coordinates: Northing: 5515015N

Easting: 401989E

Zone: 15N

Owner of the Facility Information:

Name: Weyerhaeuser Company Limited

Address: 925 West Georgia St. Suite 500 Cathedral Place,

Vancouver, British Columbia

Postal Code: V6C 3L2

Phone Number: (604) 661-8037 Fax Number: (604) 687-2314

Highest Ranking Employee at the Facility Information

Name: Bill Candline

Title: Unit General Manager

Address: 1000 Jones Road PO Box 1930 Kenora, Ontario

Postal Code: P9N 3X8

Phone Number: (807) 548-7153 Fax Number: (807) 548-7134

Email: bill.condline@weyerhaeuser.com

Parent Company Information

Legal Name of Parent Company: Weyerhaeuser NR Company

Address of Parent Company: PO Box 9777 Federal Way, Washington

USA 98063-9777

Percentage of Facility Owned by Company: 100%

CCRA Business Number: 103440624

Toxic Substances for Which Facility Must Prepare Plan:

Substance 1 (covered by this plan): Cadmium CAS Number: NA-03

Substance 2 (covered in a different plan): Zinc CAS Number: NA-14

Substance 3 (covered in a different plan): Formaldehyde

CAS Number: 50-00-0

Toxic Substance Reduction Plan Summary - Cadmium

Substance 4 (covered in a different plan): Methanol CAS Number: 67-56-1

Plan Contacts:

Person Coordinating the Preparation of the plan:

Name: R. Cecil Burns

Position: Environmental Coordinator

Address: 1000 Jones Road PO Box 1930 Kenora, Ontario

Postal Code: P9N 3X8
Phone Number: (807) 548-7210
Fax Number: (807) 548-7200

Email: cecil.burns@weyerhaeuser.com

Person Who Prepared the Plan:

Name: R. Cecil Burns

Position: Environmental Coordinator

Address: 1000 Jones Road PO Box 1930 Kenora, Ontario

Postal Code: P9N 3X8
Phone Number: (807) 548-7210
Fax Number: (807) 548-7200

Email: cecil.burns@weyerhaeuser.com

Public Contact:

Name: Wayne Roznowsky
Position: Manager Public Affairs

Address: Postal Bag 1020, Grande Prairie, Alberta

Postal Code: T8V 3A9

Phone Number: (780) 539-8832 Fax Number: (780) 5390-8004

Email: <u>wayne.roznowsky@weyerhaeuser.com</u>

Technical Contact:

Name: R. Cecil Burns

Position: Environmental Coordinator

Address: 1000 Jones Road PO Box 1930 Kenora, Ontario

Postal Code: P9N 3X8
Phone Number: (807) 548-7210
Fax Number: (807) 548-7200

Email: cecil.burns@weyerhaeuser.com

Planner Who Provided Recommendations:

Name: R. Cecil Burns Planner Licence #: TSRP0067

Plan Summary Statement

This plan summary accurately reflects the content of the Toxic Substance Reduction Plan for Cadmium, prepared by Weyerhaeuser Kenora TimberStrand, dated December, 2012.

Toxic Substance Reduction Plan Summary - Cadmium

Certification by Highest Ranking Employee

As of December 21, 2012, I, Bill Candline, certify that I have read the Toxic Substance Reduction Plan for the Toxic Substance referred to below and am familiar with its contents, and to my knowledge the plan is factually accurate and complies with the *Toxics Reduction Act, 2009* and *Ontario Regulation 455/09 (General)* made under that Act.

Cadmium

Bill Candline
Unit General Manager
Weyerhaeuser Kenora TimberStrand

Certification by Licensed Planner

As of December 21, 2012, I, R. Cecil Burns, certify that I am familiar with the processes at the Weyerhaeuser Kenora TimberStrand facility that use or create the toxic substance referred to below, that I agree with the estimates referred to in subparagraph 7 iii, iv and v of subsection 4(1) of the *Toxics Reduction Act, 2009* that are set out in the plan dated December, 2012 and that the plan complies with that Act and *Ontario Regulation 455/09 (General)* made under that Act.

Cadmium

KENORA TIMBERSTRAND® 2011 TOXIC SUBSTANCE REDUCTION PLAN SUMMARY FOR Formaldehyde

Statement of Intent: The facility does not use Formaldehyde in the manufacture of TimberStrand[®]. This plan will not address the use of Formaldehyde. Formaldehyde is created as a natural by-product of burning and drying wood. The plan does not intend to reduce the creation of Formaldehyde.

Objective: The objective of the plan is to minimize the creation of Formaldehyde by monitoring the operations which create Formaldehyde and determine the best operating practices that will minimize Formaldehyde creation.

Target: The facility has set not targets to reduce the creation of Formaldehyde.

Description of Toxic Substances Found at Kenora TimberStrand®

There are 4 Phase 1 toxic substances that require development of a Toxic Substance Reduction Plan based on the criteria set out in the Toxics Reduction Act, 2009 and O.Reg. 455/09.

The substances are:

Formaldehyde

 As a by-product of drying strands, heating mats to cure resin and burning of wood biomass

Zinc*

- A component of raw wood and carried through to the end product
- As a component of an additive for a specific product produced

Cadmium*

• A component of raw wood and carried through to the end product.

Methanol*

 As a by-product of drying strands, heating mats to cure resin and burning of wood biomass

Note*: Separate plans have been developed for Zinc, Cadmium and Methanol

Reduction Options to be Implemented

None. Technical and economic analysis of options concluded that no technically and economically feasible option exists for reducing the creation of Formaldehyde.

Toxic Substance Reduction Plan Summary - Formaldehyde

Facility Information:

Facility Name: Kenora TimberStrand®

NPRI Identification Number: 7658
O. Reg. 127 Number: 9016
Two Digit NAICS Code: 32
Four Digit NAICS Code: 3212
Six Digit NAICS Code: 321215
Number of Full-time Employees: 151

UTM Spatial Coordinates: Northing: 5515015N

Easting: 401989E

Zone: 15N

Owner of the Facility Information:

Name: Weyerhaeuser Company Limited

Address: 925 West Georgia St. Suite 500 Cathedral Place,

Vancouver, British Columbia

Postal Code: V6C 3L2

Phone Number: (604) 661-8037 Fax Number: (604) 687-2314

Highest Ranking Employee at the Facility Information

Name: Bill Candline

Title: Unit General Manager

Address: 1000 Jones Road PO Box 1930 Kenora, Ontario

Postal Code: P9N 3X8

Phone Number: (807) 548-7153 Fax Number: (807) 548-7134

Email: bill.condline@weyerhaeuser.com

Parent Company Information

Legal Name of Parent Company: Weyerhaeuser NR Company

Address of Parent Company: PO Box 9777 Federal Way, Washington

USA 98063-9777

Percentage of Facility Owned by Company: 100% CCRA Business Number: 103440624

Toxic Substances for Which Facility Must Prepare Plan:

Substance 3 (covered in a different plan): Formaldehyde

CAS Number: 50-00-0

Substance 2 (covered in a different plan): Zinc CAS Number: NA-14

Substance 1 (covered by this plan): Cadmium CAS Number: NA-03

Substance 4 (covered in a different plan): Methanol CAS Number: 67-56-1

Toxic Substance Reduction Plan Summary - Formaldehyde

Plan Contacts:

Person Coordinating the Preparation of the plan:

Name: R. Cecil Burns

Position: Environmental Coordinator

Address: 1000 Jones Road PO Box 1930 Kenora, Ontario

Postal Code: P9N 3X8
Phone Number: (807) 548-7210
Fax Number: (807) 548-7200

Email: cecil.burns@weyerhaeuser.com

Person Who Prepared the Plan:

Name: R. Cecil Burns

Position: Environmental Coordinator

Address: 1000 Jones Road PO Box 1930 Kenora, Ontario

Postal Code: P9N 3X8
Phone Number: (807) 548-7210
Fax Number: (807) 548-7200

Email: cecil.burns@weyerhaeuser.com

Public Contact:

Name: Wayne Roznowsky
Position: Manager Public Affairs

Address: Postal Bag 1020, Grande Prairie, Alberta

Postal Code: T8V 3A9
Phone Number: (780) 539-8832
Fax Number: (780) 5390-8004

Email: wayne.roznowsky@weyerhaeuser.com

Technical Contact:

Name: R. Cecil Burns

Position: Environmental Coordinator

Address: 1000 Jones Road PO Box 1930 Kenora, Ontario

Postal Code: P9N 3X8
Phone Number: (807) 548-7210
Fax Number: (807) 548-7200

Email: cecil.burns@weyerhaeuser.com

Planner Who Provided Recommendations:

Name: R. Cecil Burns Planner Licence #: TSRP0067

Plan Summary Statement

This plan summary accurately reflects the content of the Toxic Substance Reduction Plan for Zinc, prepared by Weyerhaeuser Kenora TimberStrand, dated December, 2012.

Toxic Substance Reduction Plan Summary - Formaldehyde

Certification by Highest Ranking Employee

As of December 21, 2012, I, Bill Candline, certify that I have read the Toxic Substance Reduction Plan for the Toxic Substance referred to below and am familiar with its contents, and to my knowledge the plan is factually accurate and complies with the *Toxics Reduction Act, 2009* and *Ontario Regulation 455/09 (General)* made under that Act.

Formaldehyde

Bill Candline Unit General Manager Weyerhaeuser Kenora TimberStrand

Certification by Licensed Planner

As of December 21, 2012, I, R. Cecil Burns, certify that I am familiar with the processes at the Weyerhaeuser Kenora TimberStrand facility that use or create the toxic substance referred to below, that I agree with the estimates referred to in subparagraph 7 iii, iv and v of subsection 4(1) of the *Toxics Reduction Act, 2009* that are set out in the plan dated December, 2012 and that the plan complies with that Act and *Ontario Regulation 455/09 (General)* made under that Act.

Formaldehyde

KENORA TIMBERSTRAND® 2011 TOXIC SUBSTANCE REDUCTION PLAN SUMMARY FOR

Methanol

Statement of Intent: The facility does not use Methanol in the manufacture of TimberStrand[®]. This plan will not address the use of Methanol. Methanol is created as a natural by-product of burning and drying wood. The plan does not intend to reduce the creation of Methanol.

Objective: The objective of the plan is to minimize the creation of Methanol by monitoring the operations which create Methanol and determine the best operating practices that will minimize Methanol creation.

Target: The facility has set not targets to reduce the creation of Methanol.

Description of Toxic Substances Found at Kenora TimberStrand®

There are 4 Phase 1 toxic substances that require development of a Toxic Substance Reduction Plan based on the criteria set out in the Toxics Reduction Act, 2009 and O.Reg. 455/09.

The substances are:

Methanol

 As a by-product of drying strands, heating mats to cure resin and burning of wood biomass

Formaldehyde*

 As a by-product of drying strands, heating mats to cure resin and burning of wood biomass

Zinc*

- A component of raw wood and carried through to the end product
- As a component of an additive for a specific product produced

Cadmium*

• A component of raw wood and carried through to the end product.

Note*: Separate plans have been developed for Zinc, Cadmium and Formaldehyde

Reduction Options to be Implemented

None. After reviewing the information and options that were available, no suitable technically of economically feasible options were identified.

Toxic Substance Reduction Plan Summary - Methanol

Facility Information:

Facility Name: Kenora TimberStrand®

NPRI Identification Number: 7658
O. Reg. 127 Number: 9016
Two Digit NAICS Code: 32
Four Digit NAICS Code: 3212
Six Digit NAICS Code: 321215
Number of Full-time Employees: 151

UTM Spatial Coordinates: Northing: 5515015N

Easting: 401989E

Zone: 15N

Owner of the Facility Information:

Name: Weyerhaeuser Company Limited

Address: 925 West Georgia St. Suite 500 Cathedral Place,

Vancouver, British Columbia

Postal Code: V6C 3L2

Phone Number: (604) 661-8037 Fax Number: (604) 687-2314

Highest Ranking Employee at the Facility Information

Name: Bill Candline

Title: Unit General Manager

Address: 1000 Jones Road PO Box 1930 Kenora, Ontario

Postal Code: P9N 3X8

Phone Number: (807) 548-7153 Fax Number: (807) 548-7134

Email: bill.condline@weyerhaeuser.com

Parent Company Information

Legal Name of Parent Company: Weyerhaeuser NR Company

Address of Parent Company: PO Box 9777 Federal Way, Washington

USA 98063-9777

Percentage of Facility Owned by Company: 100% CCRA Business Number: 103440624

Toxic Substances for Which Facility Must Prepare Plan:

Substance 3 (covered in a different plan): Formaldehyde

CAS Number: 50-00-0

Substance 2 (covered in a different plan): Zinc CAS Number: NA-14

Substance 1 (covered by this plan): Cadmium CAS Number: NA-03

Substance 4 (covered in a different plan): Methanol CAS Number: 67-56-1

Toxic Substance Reduction Plan Summary - Methanol

Plan Contacts:

Person Coordinating the Preparation of the plan:

Name: R. Cecil Burns

Position: Environmental Coordinator

Address: 1000 Jones Road PO Box 1930 Kenora, Ontario

Postal Code: P9N 3X8
Phone Number: (807) 548-7210
Fax Number: (807) 548-7200

Email: cecil.burns@weyerhaeuser.com

Person Who Prepared the Plan:

Name: R. Cecil Burns

Position: Environmental Coordinator

Address: 1000 Jones Road PO Box 1930 Kenora, Ontario

Postal Code: P9N 3X8
Phone Number: (807) 548-7210
Fax Number: (807) 548-7200

Email: cecil.burns@weyerhaeuser.com

Public Contact:

Name: Wayne Roznowsky
Position: Manager Public Affairs

Address: Postal Bag 1020, Grande Prairie, Alberta

Postal Code: T8V 3A9
Phone Number: (780) 539-8832
Fax Number: (780) 5390-8004

Email: wayne.roznowsky@weyerhaeuser.com

Technical Contact:

Name: R. Cecil Burns

Position: Environmental Coordinator

Address: 1000 Jones Road PO Box 1930 Kenora, Ontario

Postal Code: P9N 3X8
Phone Number: (807) 548-7210
Fax Number: (807) 548-7200

Email: cecil.burns@weyerhaeuser.com

Planner Who Provided Recommendations:

Name: R. Cecil Burns Planner Licence #: TSRP0067

Plan Summary Statement

This plan summary accurately reflects the content of the Toxic Substance Reduction Plan for Zinc, prepared by Weyerhaeuser Kenora TimberStrand, dated December, 2012.

Toxic Substance Reduction Plan Summary - Methanol

Certification by Highest Ranking Employee

As of December 21, 2012, I, Bill Candline, certify that I have read the Toxic Substance Reduction Plan for the Toxic Substance referred to below and am familiar with its contents, and to my knowledge the plan is factually accurate and complies with the *Toxics Reduction Act*, 2009 and *Ontario Regulation 455/09 (General)* made under that Act.

Methanol

Bill Candline
Unit General Manager

Certification by Licensed Planner

Weyerhaeuser Kenora TimberStrand

As of December 21, 2012, I, R. Cecil Burns, certify that I am familiar with the processes at the Weyerhaeuser Kenora TimberStrand facility that use or create the toxic substance referred to below, that I agree with the estimates referred to in subparagraph 7 iii, iv and v of subsection 4(1) of the *Toxics Reduction Act, 2009* that are set out in the plan dated December, 2012 and that the plan complies with that Act and *Ontario Regulation 455/09 (General)* made under that Act.

Methanol

KENORA TIMBERSTRAND® 2011 TOXIC SUBSTANCE REDUCTION PLAN SUMMARY FOR

Zinc

Statement of Intent: Zinc is an element that is a naturally occurring component of the raw wood used to manufacture TimberStrand[®]. It is present as component of wood, biomass and ash. Zinc, in the form of Zinc Borate, is added to a treated sill plate product to protect from insect damage. The facility intends to minimize the use of this additive in production of treated sill plate product. Zinc is not created and this plan will not address the creation of zinc.

Objective: The facility will ensure that bulk containers of Zinc Borate are stored in a secure area and are protected from damage and deterioration. Where possible the facility plans to minimize the amount of Zinc that is disposed of offsite to landfill through efficient conversion of raw materials into TimberStrand[®].

Target: The facility has not set any targets for reduction in the use or creation of Zinc.

Description of Toxic Substances Found at Kenora TimberStrand®

There are 4 Phase 1 toxic substances that require development of a Toxic Substance Reduction Plan based on the criteria set out in the Toxics Reduction Act, 2009 and O.Reg. 455/09.

The substances are:

Zinc

- A component of raw wood and carried through to the end product
- As a component of an additive for a specific product produced

Cadmium*

• A component of raw wood and carried through to the end product.

Formaldehvde*

 As a by-product of drying strands, heating mats to cure resin and burning of wood biomass

Methanol*

 As a by-product of drying strands, heating mats to cure resin and burning of wood biomass

Note*: Separate plans have been developed for Cadmium, Formaldehyde and Methanol

Reduction Options to be Implemented

Option 3 (protect ZnB storage from damage by equipment and weather) has already been implemented and it is estimated that it will prevent the disposal of 440 kg of Zinc on an annual basis with a cost avoidance of about \$4,750 per year.

Toxic Substance Reduction Plan Summary - Zinc

Facility Information:

Facility Name: Kenora TimberStrand®

NPRI Identification Number: 7658
O. Reg. 127 Number: 9016
Two Digit NAICS Code: 32
Four Digit NAICS Code: 3212
Six Digit NAICS Code: 321215
Number of Full-time Employees: 151

UTM Spatial Coordinates: Northing: 5515015N

Easting: 401989E

Zone: 15N

Owner of the Facility Information:

Name: Weyerhaeuser Company Limited

Address: 925 West Georgia St. Suite 500 Cathedral Place,

Vancouver, British Columbia

Postal Code: V6C 3L2

Phone Number: (604) 661-8037 Fax Number: (604) 687-2314

Highest Ranking Employee at the Facility Information

Name: Bill Candline

Title: Unit General Manager

Address: 1000 Jones Road PO Box 1930 Kenora, Ontario

Postal Code: P9N 3X8

Phone Number: (807) 548-7153 Fax Number: (807) 548-7134

Email: bill.condline@weyerhaeuser.com

Parent Company Information

Legal Name of Parent Company: Weyerhaeuser NR Company

Address of Parent Company: PO Box 9777 Federal Way, Washington

USA 98063-9777

Percentage of Facility Owned by Company: 100% CCRA Business Number: 103440624

Toxic Substances for Which Facility Must Prepare Plan:

Substance 2 (covered in a different plan): Zinc CAS Number: NA-14

Substance 1 (covered by this plan): Cadmium CAS Number: NA-03

Substance 3 (covered in a different plan): Formaldehyde

CAS Number: 50-00-0

Substance 4 (covered in a different plan): Methanol CAS Number: 67-56-1

Toxic Substance Reduction Plan Summary - Zinc

Plan Contacts:

Person Coordinating the Preparation of the plan:

Name: R. Cecil Burns

Position: Environmental Coordinator

Address: 1000 Jones Road PO Box 1930 Kenora, Ontario

Postal Code: P9N 3X8
Phone Number: (807) 548-7210
Fax Number: (807) 548-7200

Email: cecil.burns@weyerhaeuser.com

Person Who Prepared the Plan:

Name: R. Cecil Burns

Position: Environmental Coordinator

Address: 1000 Jones Road PO Box 1930 Kenora, Ontario

Postal Code: P9N 3X8
Phone Number: (807) 548-7210
Fax Number: (807) 548-7200

Email: cecil.burns@weyerhaeuser.com

Public Contact:

Name: Wayne Roznowsky
Position: Manager Public Affairs

Address: Postal Bag 1020, Grande Prairie, Alberta

Postal Code: T8V 3A9
Phone Number: (780) 539-8832
Fax Number: (780) 5390-8004

Email: wayne.roznowsky@weyerhaeuser.com

Technical Contact:

Name: R. Cecil Burns

Position: Environmental Coordinator

Address: 1000 Jones Road PO Box 1930 Kenora, Ontario

Postal Code: P9N 3X8
Phone Number: (807) 548-7210
Fax Number: (807) 548-7200

Email: cecil.burns@weyerhaeuser.com

Planner Who Provided Recommendations:

Name: R. Cecil Burns Planner Licence #: TSRP0067

Plan Summary Statement

This plan summary accurately reflects the content of the Toxic Substance Reduction Plan for Zinc, prepared by Weyerhaeuser Kenora TimberStrand, dated December, 2012.

Toxic Substance Reduction Plan Summary - Zinc

Certification by Highest Ranking Employee

As of December 21, 2012, I, Bill Candline, certify that I have read the Toxic Substance Reduction Plan for the Toxic Substance referred to below and am familiar with its contents, and to my knowledge the plan is factually accurate and complies with the *Toxics Reduction Act*, 2009 and *Ontario Regulation 455/09 (General)* made under that Act.

Zinc

Bill Candline Unit General Manager Weyerhaeuser Kenora TimberStrand

Certification by Licensed Planner

As of December 21, 2012, I, R. Cecil Burns, certify that I am familiar with the processes at the Weyerhaeuser Kenora TimberStrand facility that use or create the toxic substance referred to below, that I agree with the estimates referred to in subparagraph 7 iii, iv and v of subsection 4(1) of the *Toxics Reduction Act, 2009* that are set out in the plan dated December, 2012 and that the plan complies with that Act and *Ontario Regulation 455/09 (General)* made under that Act.

Zinc