

**REVISED**  
3:10 pm, Nov 01, 2014

POST  
CLOSURE

## Source Property Information

CLOSURE DATE: 09/22/2014

**BRRTS #:** 02-72-195036  
**ACTIVITY NAME:** Nekoosa Papers New Pulp Storage TNK Area  
**PROPERTY ADDRESS:** 301 Point Basse AVE  
**MUNICIPALITY:** Nekoosa  
**PARCEL ID #:** 3000150

**FID #:** 772052930

**DATCP #:**

**PECFA#:**

### \*WTM COORDINATES:

X: 528440 Y: 426799

*\* Coordinates are in  
WTM83, NAD83 (1991)*

### WTM COORDINATES REPRESENT:

Approximate Center Of Contaminant Source

Approximate Source Parcel Center

Please check as appropriate: (BRRTS Action Code)

## CONTINUING OBLIGATIONS

### Contaminated Media for Residual Contamination:

Groundwater Contamination > ES (236)

Contamination in ROW

Off-Source Contamination

*(note: for list of off-source properties  
see "Impacted Off-Source Property Information,  
Form 4400-246" )*

Soil Contamination > \*RCL or \*\*SSRCL (232)

Contamination in ROW

Off-Source Contamination

*(note: for list of off-source properties  
see "Impacted Off-Source Property Information,  
Form 4400-246" )*

### Site Specific Obligations:

Soil: maintain industrial zoning (220)

*(note: soil contamination concentrations  
between non-industrial and industrial levels)*

Structural Impediment (224)

Site Specific Condition (228)

Cover or Barrier (222)

Direct Contact

Soil to GW Pathway

Vapor Mitigation (226)

Maintain Liability Exemption (230)

*(note: local government unit or economic  
development corporation was directed to  
take a response action )*

### Monitoring Wells:

Are all monitoring wells properly abandoned per NR 141? (234)

Yes  No  N/A

\* Residual Contaminant Level

\*\*Site Specific Residual Contaminant Level



**State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES**

Scott Walker, Governor  
Cathy Stepp, Secretary  
Dan Baumann, Regional Director

Wisconsin Rapids Service Center  
473 Griffith Avenue  
Wisconsin Rapids, Wisconsin 54494  
Telephone 715-421-7800  
FAX 715-421-7830

October 31, 2014

BRRTS #02-72-195036

Mr. Mark Bessette  
Domtar A.W. LLC.  
301 Point Basse Avenue  
Nekoosa, WI 54457

**KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS**

**SUBJECT:** Addendum to the Final Case Closure Letter Dated September 22, 2014  
Nekoosa Papers New Pulp Storage Tank Area  
Domtar Papers, Nekoosa, Wisconsin

Dear Mr. Bessette:

In a letter dated September 22, 2014, the Department of Natural Resources (DNR) approved closure of the Nekoosa Papers New Pulp Storage Tank Area site, with continuing obligations. While placing the site on the DNR GIS database it was noticed that the September 22<sup>nd</sup> closure letter failed to include your obligations regarding the missing monitoring well, Monitoring Well B-15 (a.k.a. MW-15).

Please note that, you, future property owners, and occupants of the property must comply with the continuing obligations as explained in the conditions of closure in the September 22<sup>nd</sup> letter, as well as the continuing obligations included in this letter. Please read over this letter closely to ensure that you comply with all additional conditions and other on-going requirements included in this letter. Provide this letter and the September 22<sup>nd</sup> letter, and any attachments listed at the end of these letters, to anyone who purchases, rents or leases this property from you.

Continuing Obligations

The additional continuing obligations for this site are summarized below. Further details on actions required are found in the section Closure Conditions.

- One or more monitoring wells were not located and must be properly filled and sealed if found.

Closure Conditions

Compliance with the requirements of the September 22<sup>nd</sup> letter and this letter is a responsibility to which you and any subsequent property owners must adhere. DNR staff will conduct periodic prearranged inspections to ensure that the conditions included in these two letters are met. If these requirements are not followed, the DNR may take enforcement action under s. 292.11, Wis. Stats. to ensure compliance with the specified requirements, limitations or other conditions related to the property.

October 31, 2014  
Mr. Mark Bessette - Domtar A.W. LLC.  
Page 2

BRRTS #02-72-195036

Please send written notifications in accordance with the following requirements to:

Department of Natural Resources  
Attn: Remediation and Redevelopment Program Environmental Program Associate  
1300 West Clairemont Avenue  
Eau Claire, WI 54701

Monitoring Wells that could not be Properly Filled and Sealed (ch. NR 141, Wis. Adm. Code)

Monitoring well B-15, located on Domtar Paper's Nekoosa Mill property as shown on the attached map (Figure B.3.d, Monitoring Wells, New Pulp Storage Tank Areas, May 5, 2014), could not be properly filled and sealed because they were missing due to being paved over, covered or removed during site development activities. Your consultant made a reasonable effort to locate the well and to determine whether it was properly filled and sealed, but was unsuccessful. You may be held liable for any problems associated with the monitoring wells if they create a conduit for contaminants to enter groundwater. If the groundwater monitoring well is found, the then current owner of the property on which the well is located is required to notify the DNR, to properly fill and seal the well and to submit the required documentation to the DNR.

In Closing

Please be aware that the case may be reopened pursuant to s. NR 727.13, Wis. Adm. Code, for any of the following situations:

- if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment,
- if the property owner does not comply with the conditions of closure, with any deed restrictions applied to the property, or with a certificate of completion issued under s. 292.15, Wis. Stats, or
- a property owner fails to maintain or comply with a continuing obligation (imposed under the closure approval letter dated September 22, 2014 and this closure addendum letter).

The DNR appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision or anything outlined in this letter, please contact Tom Hvizdak at (715) 421-7850, or at [tom.hvizdak@wisconsin.gov](mailto:tom.hvizdak@wisconsin.gov).

Sincerely,

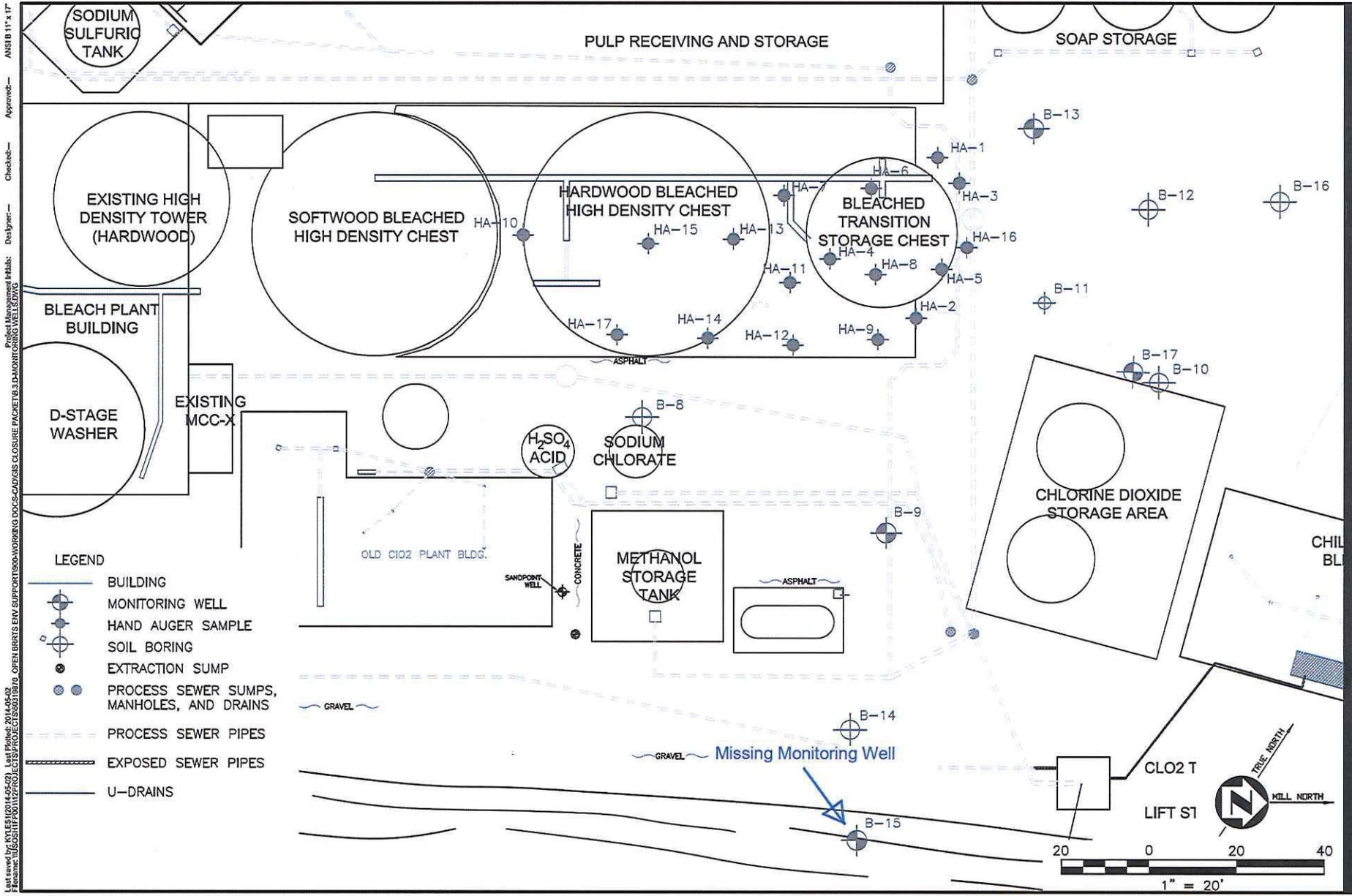


Dave Rozeboom, Team Supervisor  
West Central Region Remediation & Redevelopment Program

Attachment: Figure B.3.d, Monitoring Wells, New Pulp Storage Tank Areas, May 5, 2014

c: Andrew Mott, AECOM, 558 N. Main St., Oshkosh, WI 54901

POST CLOSURE



Last saved by: KYLES (2014-05-02) Last Plotted: 2014-05-02  
 Filename: U:\GIS\11\PROJECTS\PROJECTS\PROJECTS\B3.D\MONITORING WELLS.DWG  
 Project Management Labels: B3.D\MONITORING WELLS.DWG  
 Designer: —  
 Checked: —  
 Approved: —  
 ANSIB 11" x 17"

MONITORING WELLS



## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Scott Walker, Governor  
Cathy Stepp, Secretary  
Dan Baumann, Regional Director

Wisconsin Rapids Service Center  
473 Griffith Avenue  
Wisconsin Rapids, Wisconsin 54494  
Telephone 715-421-7800  
FAX 715-421-7830

September 22, 2014

BRRTS #02-72-195036

Mr. Mark Bessette  
Domtar A.W. LLC.  
301 Point Basse Avenue  
Nekoosa, WI 54457

### KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS

Subject: Final Case Closure with Continuing Obligations  
Nekoosa Papers New Pulp Storage Tank Area  
Domtar Papers, Nekoosa, Wisconsin

Dear Mr. Bessette:

The Department of Natural Resources (DNR) considers The Nekoosa Papers New Pulp Storage Tank Area site closed, with continuing obligations. No further investigation or remediation is required at this time. However, you, future property owners, and occupants of the property must comply with the continuing obligations as explained in the conditions of closure in this letter. Please read over this letter closely to ensure that you comply with all conditions and other on-going requirements. Provide this letter and any attachments listed at the end of this letter to anyone who purchases, rents or leases this property from you.

This final closure decision is based on the correspondence and data provided, and is issued under chs. NR 726 and 727, Wis. Adm. Code. The DNR West Central Region Closure reviewed the request for closure on January 20, 2006. The Closure Committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. A conditional closure letter was issued by the DNR on January 23, 2006, and documentation that the conditions in that letter were met was received on September 8, 2014.

In 1995, p-isopropyltoluene was detected in the soil at Domtar's (formerly Georgia Pacific's) Nekoosa paper mill during site preparation work for new pulp storage tanks. During investigation of the p-isopropyltoluene contamination, it was discovered that the groundwater in this area was also impacted above the enforcement standard for dissolved sulfate and chloride. Soil and groundwater samples collected during the site investigation indicates that contamination remains and that maintenance of the existing cover over the impacted area is warranted. The conditions of closure and continuing obligations required were based on the property being used for industrial purposes.

### Continuing Obligations

The continuing obligations for this site are summarized below. Further details on actions required are found in the section Closure Conditions.

- Groundwater contamination is present above ch. NR 140, Wis. Adm. Code enforcement standards.
- Residual soil contamination exists that must be properly managed should it be excavated or removed.
- Pavement and tanks must be maintained over contaminated soil and the DNR must approve any changes to this barrier.

The DNR fact sheet, "Continuing Obligations for Environmental Protection", RR-819, helps to explain a property owner's responsibility for continuing obligations on their property. The fact sheet may be obtained at <http://dnr.wi.gov/files/PDF/pubs/rr/RR819.pdf>.

### GIS Registry

This site will be included on the Bureau for Remediation and Redevelopment Tracking System (BRRTS on the Web) at <http://dnr.wi.gov/topic/Brownfields/clean.html>, to provide public notice of residual contamination and of any continuing obligations. The site can also be viewed on the Remediation and Redevelopment Sites Map (RRSM), a map view, under the Geographic Information System (GIS) Registry layer, at the same web address.

DNR approval prior to well construction or reconstruction is required for all sites shown on the GIS Registry, in accordance with s. NR 812.09 (4) (w), Wis. Adm. Code. This requirement applies to private drinking water wells and high capacity wells. To obtain approval, complete and submit Form 3300-254 to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line at <http://dnr.wi.gov/topic/wells/documents/3300254.pdf>.

All site information is also on file at the Wisconsin Rapids DNR Service Center, at 473 Griffith Avenue, Wisconsin Rapids, Wisconsin. This letter and information that was submitted with your closure request application, including any maintenance plan and maps, can be found as a Portable Document Format (PDF) in BRRTS on the Web.

### Prohibited Activities

Certain activities are prohibited at closed sites because maintenance of a barrier is intended to prevent contact with any remaining contamination. When a barrier is required, the condition of closure requires notification of the DNR before making a change, in order to determine if further action is needed to maintain the protectiveness of the remedy employed. The following activities are prohibited on any portion of the property where pavement is required, as shown on the attached map, Cap Maintenance Area, Figure D.1, August 8, 2014, unless prior written approval has been obtained from the DNR:

- removal of the existing barrier or cover;
- replacement with another barrier or cover;
- excavating or grading of the land surface;
- filling on covered or paved areas;
- plowing for agricultural cultivation;

- construction or placement of a building or other structure;
- changing the use or occupancy of the property to a residential exposure setting, which may include certain uses, such as single or multiple family residences, a school, day care, senior center, hospital, or similar residential exposure settings.

#### Closure Conditions

Compliance with the requirements of this letter is a responsibility to which you, and any subsequent property owners must adhere. DNR staff will conduct periodic prearranged inspections to ensure that the conditions included in this letter and the attached maintenance plan are met. If these requirements are not followed, the DNR may take enforcement action under s. 292.11, Wis. Stats. to ensure compliance with the specified requirements, limitations or other conditions related to the property.

Please send written notifications in accordance with the following requirements to:

Department of Natural Resources  
Attn: Remediation and Redevelopment Program Environmental Program Associate  
1300 West Clairemont Avenue  
Eau Claire, WI 54701

#### Residual Groundwater Contamination (ch. NR 140, 812, Wis. Adm. Code)

Groundwater contamination greater than enforcement standards is present on this contaminated property, as shown on the attached map, Groundwater Isoconcentration, Figure B.3.b, September 26, 2001. If you intend to construct a new well, or reconstruct an existing well, you'll need prior DNR approval.

#### Residual Soil Contamination (ch. NR 718, chs. 500 to 536, Wis. Adm. Code or ch. 289, Wis. Stats.)

Soil contamination remains at soil sample locations HA-6, HA-8, HA-13, HA-14, HA-16, B-9, B-12, B-13 and B-14 as indicated on the attached map, Pre/Soil Contamination, Figure B.2.b, May 2, 2014. If soil in the specific locations described above is excavated in the future, the property owner or right-of-way holder at the time of excavation must sample and analyze the excavated soil to determine if contamination remains. If sampling confirms that contamination is present, the property owner or right-of-way holder at the time of excavation will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. Contaminated soil may be managed in accordance with ch. NR 718, Wis. Adm. Code, with prior DNR approval.

In addition, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken to prevent a direct contact health threat to humans.

Depending on site-specific conditions, construction over contaminated soils or groundwater may result in vapor migration of contaminants into enclosed structures or migration along newly placed underground utility lines. The potential for vapor inhalation and means of mitigation should be evaluated when planning any future redevelopment, and measures should be taken to ensure the continued protection of public health, safety, welfare and the environment at the site.

Cover or Barrier (s. 292.12 (2) (a), Wis. Stats., s. NR 726.15, s. NR 727.07 Wis. Adm. Code)

The pavement and tanks (chests) that exists in the location shown on the attached map, Pre/Soil Contamination, Figure D., May 2, 2014, shall be maintained in compliance with the attached maintenance plan in order to minimize the infiltration of water and prevent additional groundwater contamination that would violate the groundwater quality standards in ch. NR 140, Wis. Adm. Code, and to prevent direct contact with residual soil contamination that might otherwise pose a threat to human health.

A cover or barrier for industrial land uses, or certain types of commercial land uses may not be protective if the use of the property were to change such that a residential exposure would apply. This may include, but is not limited to single or multiple family residences, a school, day care, senior center, hospital or similar settings. In addition, a cover or barrier for multi-family residential housing use may not be appropriate for use at a single family residence.

A cover or barrier for industrial land uses, or certain types of commercial land uses may not be protective if the use of the property were to change such that a residential exposure would apply. This may include, but is not limited to single or multiple family residences, a school, day care, senior center, hospital or similar settings. In addition, a cover or barrier for multi-family residential housing use may not be appropriate for use at a single family residence

A request may be made to modify or replace a cover or barrier. The replacement or modified cover or barrier must be protective of the revised use of the property, and must be approved in writing by the DNR prior to implementation.

The attached maintenance plan and inspection log (DNR form 4400-305) are to be kept up-to-date and on-site. Inspections shall be conducted annually, in accordance with the attached maintenance plan. Submit the inspection log to the DNR only upon request.

General Wastewater Permits for Construction Related Dewatering Activities

The DNR's Water Quality Program regulates point source discharges of contaminated water, including discharges to surface waters, storm sewers, pits, or to the ground surface. This includes discharges from construction related dewatering activities, including utility and building construction.

If you or any other person plan to conduct such activities, you or that person must contact that program, and if necessary, apply for the necessary discharge permit. Additional information regarding discharge permits is available at <http://dnr.wi.gov/topic/wastewater/GeneralPermits.html>. If residual soil or groundwater contamination is likely to affect water collected in a pit/trench that requires dewatering, a general permit for Discharge of Contaminated Groundwater from Remedial Action Operations may be needed. If water collecting in a pit/trench that requires dewatering is expected to be free of pollutants other than suspended solids and oil and grease, a general permit for Pit/Trench Dewatering may be needed.

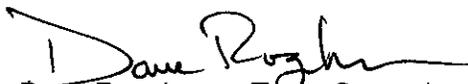
In Closing

Please be aware that the case may be reopened pursuant to s. NR 727.13, Wis. Adm. Code, for any of the following situations:

- if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment,
- if the property owner does not comply with the conditions of closure, with any deed restrictions applied to the property, or with a certificate of completion issued under s. 292.15, Wis. Stats, or
- a property owner fails to maintain or comply with a continuing obligation (imposed under this closure approval letter).

The DNR appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision or anything outlined in this letter, please contact Tom Hvizdak at (715) 421-7850, or at [tom.hvizdak@wisconsin.gov](mailto:tom.hvizdak@wisconsin.gov).

Sincerely,



Dave Rozeboom, Team Supervisor  
West Central Region Remediation & Redevelopment Program

Attachments:

- Groundwater Isoconcentration, Figure B.3.b, September 26, 2001
- Pre/Soil Contamination, Figure B.2.c, May 2, 2014
- Cap Maintenance Area, Figure D.1, August 8, 2014
- Inspection and Maintenance Plan, Pulp Storage Tank Area, Domtar Industries, Nekoosa, Wisconsin, WDNR BRRTS No. 02-72-195036
- Inspection Log, Form 4400-305

c: Andrew Mott, AECOM, 558 N. Main St., Oshkosh, WI 54901







## **D.2. Brief Description**

### **Domtar – New Pulp Storage Tank Area Nekoosa, Wisconsin**

The maintenance activities relate to the existing asphalt surfaces and building structures occupying the area over the contaminated groundwater plume and soil on site. The contaminated groundwater plume or soil is impacted by p-isopropyltoluene. Sulfate and chloride has been detected above the Enforcement Standard (ES) in groundwater. The location of the paved surfaces and existing building structures to be maintained in accordance with this Maintenance Plan, as well as the impacted groundwater plume and soil, are identified on the map in Section D.1.

### **D.3. Description of Maintenance Actions**

#### **Domtar – New Pulp Storage Tank Area**

#### **Nekoosa, Wisconsin**

The paved surfaces and existing building structures over the contaminated groundwater plume and soil serve as a barrier to prevent direct human contact with residual soil contamination that might otherwise pose a threat to human health. These paved surfaces and building structures also act as a partial infiltration barrier to minimize future soil-to-groundwater contamination migration that would violate the groundwater standards in Chapter NR 140, Wisconsin Administrative Code. Based on the current and future use of the property, the barrier should function as intended unless disturbed.

#### **Annual Inspection**

The paved surfaces and existing building structures overlying the contaminated groundwater plume and soil as depicted in D.1. will be inspected once a year, normally in the spring after all snow and ice are gone, for deterioration, cracks, and other potential problems that can cause additional infiltration into, or exposure to, underlying soils. The inspections will be performed to evaluate damage due to settling, exposure to the weather, wear from traffic, increasing age, and other factors. Any area where soils have become or are likely to become exposed will be documented. A log of the inspections and any repairs will be maintained by the property owner and is included D.4., Inspection Log. The log will include recommendations for necessary repair of any areas where underlying soils are exposed. Once repairs are completed, they will be documented in the inspection log. A copy of the inspection log will be sent to the Wisconsin Department of Natural Resources (WDNR) at least annually after every inspection, unless otherwise directed in the case closure letter.

#### **Maintenance Activities**

If problems are noted during the annual inspections or at any other time during the year, repairs will be scheduled as soon as practical. Repairs can include patching and filling operations or they can include larger resurfacing or construction operations. In the event that necessary maintenance activities expose the underlying soil, the owner must inform maintenance workers of the direct contact exposure hazard and provide them with appropriate Personal Protection Equipment (PPE). The owner must also sample any soil excavated from the site prior to disposal to ascertain if contamination remains. The soil must be treated, stored, and disposed of by the owner in accordance with applicable local, state, and federal law.

In the event the paved surfaces and/or building structure overlying the contaminated groundwater plume and/or soil are removed or replaced, the replacement barrier must be equally impervious. Any replacement barrier will be subject to the same maintenance and inspection guidelines as outlined in the Maintenance Plan unless indicated otherwise by the WDNR or its successor.

The property owner, in order to maintain the integrity of the paved surfaces, will maintain a copy of this Maintenance Plan on site and make it available to all interested parties (i.e. on-site employees, contractors, future property owners, etc.) for viewing.

#### **Prohibition of Activities and Notification of WDNR Prior to Actions Affecting a Cover or Cap**

The following activities are prohibited on any portion of the property where pavement, a building foundation, or other barrier is required as shown on the map in Section D.1, unless prior written approval has been obtained from the Wisconsin Department of Natural Resources: 1) removal of the existing barrier; 2) replacement with another barrier; 3) excavating or grading of the land surface; 4) filling on capped or paved areas; 5) plowing for agricultural cultivation; or 6) construction or placement of a building or other structure.

**Amendment or Withdrawal of Maintenance Plan**

This Maintenance Plan can be amended or withdrawn by the property owner and its successors with the written approval of the WDNR.

D.4.

**Directions:** In accordance with s. NR 727.05 (1) (b) 3., Wis. Adm. Code, use of this form for documenting the inspections and maintenance of certain continuing obligations is required. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.]. When using this form, identify the condition that is being inspected. See the closure approval letter for this site for requirements regarding the submittal of this form to the Department of Natural Resources. A copy of this inspection log is required to be maintained either on the property, or at a location specified in the closure approval letter. Do NOT delete previous inspection results. This form was developed to provide a continuous history of site inspection results. The Department of Natural Resources project manager is identified in the closure letter. The project manager may also be identified from the database, BRRTS on the Web, at <http://dnr.wi.gov/botw/SetUpBasicSearchForm.do>, by searching for the site using the BRRTS ID number, and then looking in the "Who" section.

Activity (Site) Name <b>Nekoosa Papers New Pulp Storage Tank Area</b>	BRRTS No. <b>02-72-195036</b>
--	----------------------------------

Inspections are required to be conducted (see closure approval letter):

annually  
 semi-annually  
 other – specify \_\_\_\_\_

When submittal of this form is required, submit the form electronically to the DNR project manager. An electronic version of this filled out form, or a scanned version may be sent to the following email address (see closure approval letter):

Inspection Date	Inspector Name	Item	Describe the condition of the item that is being inspected	Recommendations for repair or maintenance	Previous recommendations implemented?	Photographs taken and attached?
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N

{Click to Add/Edit Image}

Date added:

Title:

{Click to Add/Edit Image}

Date added:

Title:

**Facility Name:**  
Nekoosa Papers

**Site Location:**  
New Pulp Storage Tank Area  
WDNR BRRS No. 02-72-195036

**Project No.**  
60319870

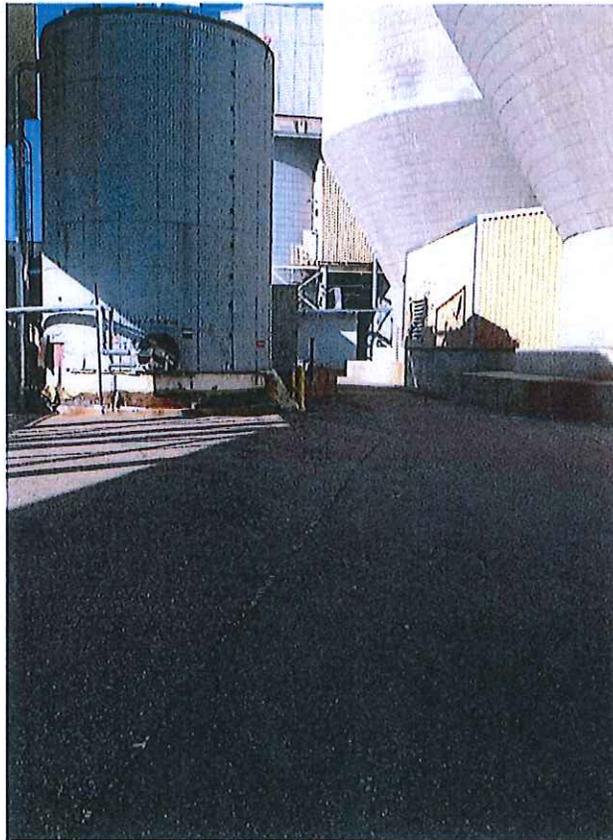
**Photo No.**  
1

**Direction Photo Taken:**

North

**Description:**

Pulp storage tank maintenance area and cap surface of asphalt and buildings.



#### **D.5. Contact Information**

##### **Domtar – New Pulp Storage Tank Area Nekoosa, Wisconsin**

Date: May 2014

Site Owner and Operator: Domtar Industries Inc.  
100 Wisconsin River Drive  
Port Edwards, Wisconsin 54469  
Phone: 715-887-5511

Consultant: AECOM  
558 North Main Street  
Oshkosh, Wisconsin 54901  
Phone: 920-235-0270

WDNR: Mr. Thomas Hvizdak  
Wisconsin Department of Natural Resources  
473 Griffith Avenue  
Wisconsin Rapids, Wisconsin 54494  
Phone: 715-421-7800



## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor  
Scott Hassett, Secretary  
Scott Humrickhouse, Regional Director

Wisconsin Rapids Service Center  
473 Griffith Avenue  
Wisconsin Rapids, Wisconsin 54494  
Telephone 715-421-7800  
FAX 715-421-7830

January 23, 2006

BRRTS #02-72-195036

Mr. Daniel Cummins  
Domtar A.W. Corporation  
100 Wisconsin River Drive  
Port Edwards, WI 54469

**FILE COPY**

RE: Conditional Closure Decision with Requirements to Achieve Final Closure,  
Domtar – New Pulp Storage Tank Area  
Domtar Facilities, Nekoosa, Wisconsin.

Dear Mr. Cummins:

On January 20, 2006, the Wisconsin Department of Natural Resources Westcentral Region Closure Committee reviewed your request for closure of the case described above. The Westcentral Region Closure Committee reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. After careful review of the closure request, the Westcentral Region Closure Committee has determined that the p-Isopropyltoluene contamination on the site near the New Pulp Storage Tank Area appears to have been investigated and remediated to the extent practicable under site conditions. Your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code and will be closed if the following conditions are satisfied:

- The monitoring wells at the site must be properly abandoned in compliance with ch. NR 141, Wis. Adm. Code. Documentation of well abandonment must be submitted to me on Form 3300-5B found at [www.dnr.state.wi.us/org/water/dwg/gw/](http://www.dnr.state.wi.us/org/water/dwg/gw/) or provided by the Department of Natural Resources.
- Any remaining purge water, waste and/or soil piles generated as part of site investigation or remediation activities must be removed from the site and disposed of or treated in accordance with Department of Natural Resources' rules. Please send a letter advising me that any remaining purge water, waste and/or soil piles have been removed once that work is completed.
- A deed restriction for the maintenance of the existing cap over the p-isopropyltoluene contaminated soil be recorded at the county Register of Deeds office, and that maintenance of the existing cap be conducted as described in the maintenance and inspection plan, dated January 2006. The maintenance plan and inspection log are to be kept up-to-date and on-site, and the inspection log need only be submitted to the Department upon request.

January 23, 2006

BRRTS #02-72-195036

Mr. Daniel Cummins - Domtar A.W. Corporation

Page 2

The draft copy of the deed restriction you submitted with your closure request for this site is currently being reviewed by the Department. After the Department has approved the draft document for completeness, you should sign it if you own the property, or have the appropriate property owner sign it, and have it recorded by the Wood County Register of Deeds. Then you must submit a copy of the recorded document, with the recording information stamped on it, to me. Please be aware that if a deed restriction is recorded for the wrong property because of an inaccurate legal description that you have provided, you will be responsible for recording corrected documents at the Register of Deeds Office to correct the problem.

When the above conditions have been satisfied, please submit a letter with the applicable forms and documents attached to it to let me know that applicable conditions have been met, and your case will be closed. Your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. Information that was submitted with your closure request application will be included on the GIS Registry. To review the site on the GIS Registry web page, visit <http://maps.dnr.state.wi.us/brrts>.

Please be aware that the case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment.

We appreciate your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at (715) 421-7850.

Sincerely,



Tom Hvizdak  
Hydrogeologist

c: James Kauer, STS, 1035 Kepler Dr., Green Bay, WI 54311

**SUBMIT AS UNBOUND PACKAGE IN THE ORDER SHOWN**

**Notice:** Pursuant to ch. 292, Wis. Stats., and chs. NR 726 and 746, Wis. Adm. Code, this form is required to be completed for case closure requests. The closure of a case means that the Department of Natural Resources (DNR) has determined that no further response is required at that time based on the information that has been submitted to the DNR. All sections of this form must be completed unless otherwise directed by the Department. Incomplete forms will be considered "administratively incomplete" and processing of the request will stop until required information is provided. Any section of the form not relevant to the case closure request must be fully filled out or explained on a separate page and attached to the relevant section of this form. DNR will consider your request administratively complete when the form and all sections are completed, all attachments are included, and the applicable fees required under ch. NR 749, Wis. Adm. Code, are included, and sent to the proper destinations. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31 - 19.39, Wis. Stats.).

**Site Information**

BRRTS No. 02-72-195036	Parcel ID No. 3000150		
BRRTS Activity (Site) Name Nekoosa Papers New Pulp Storage Tank Area	WTM Coordinates		
Street Address 301 Point Basse Ave	X 528440	Y 426799	
Responsible Party (RP) Name Mark Bessette	City Nekoosa	State WI	ZIP Code 54457
Company Name Domtar A.W. LLC			
Street Address 301 Point Basse Ave	City Nekoosa	State WI	ZIP Code 54457
Phone Number (715) 886-7358	Email mark.bessette@domtar.com		

Check here if the RP is the owner of the source property.

Environmental Consultant Name Andrew Mott	Consulting Firm AECOM Technology Services, Inc. (AECOM)		
Street Address 558 North Main Street	City Oshkosh	State WI	ZIP Code 54901
Phone Number (920) 236-6713	Email Andrew.Mott@aecom.com		
Acres Ready For Use 0.5	Voluntary Party Liability Exemption Site? <input type="radio"/> Yes <input checked="" type="radio"/> No		

**Fees and Mailing of Closure Request**

*If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.*

- Send a copy of page one** of this form and the applicable ch. NR 749, Wis. Adm. Code, fee(s) to the DNR regional Environmental Program Associate at <http://dnr.wi.gov/topic/Brownfields/Contact.html>. Check all fees that apply:

\$750 Closure Fee  \$200 GIS Registry Fee for Soil

\$250 GIS Registry Fee for Groundwater Lost Well(s) Total Amount of Payment \$ 1200.00
- Send one paper copy and one e-copy on compact disk of the entire closure package** to the Regional Project Manager assigned to your site. Submit as unbound, separate documents in the order and with the titles prescribed by this form. For electronic document submittal requirements, see <http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf>.

## Site Summary

*If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.*

### 1. General Site Information and Site History

- A. **Site Location:** Describe the physical location of the site, both generally and specific to its immediate surroundings.  
The mill property occupies approximately 25.9 acres and is located along the northwest side of the Wisconsin River in the City of Nekoosa, Wood County, Wisconsin. The property is located in an industrial/commercial area. The property is mainly comprised of Mill buildings, railroad tracks, and asphalt out lots. The site is generally bordered on the west by residential properties, to the north by manufacturing and commercial properties, and to the east and south by the Wisconsin River.
- B. **Prior and current site usage:** Specifically describe the current and historic occupancy and types of use.  
The site has and is currently being used as a paper mill.
- C. Describe how and when site contamination was discovered.
- D. Describe the type(s) and source(s) or suspected source(s) of contamination.
- E. Other relevant site description information (or enter Not Applicable).
- F. List BRRTS activity site name and number for all other BRRTS activities at this property, including closed cases.  
Nekoosa Papers Sulfuric Acid Spill - BRRTS No. 0272195035 (Open)  
Nekoosa Papers New Chemical Storage Area - BRRTS No. 0272195034 (Closed)  
Nekoosa Papers Evaporator Sewer Failure - BRRTS No. 0272195029 (Open)  
Nekoosa Papers Nekoosa Mill - BRRTS No. 0272000464 (Closed)  
Nekoosa Papers - BRRTS No. 0372000254 (Closed)  
Nekoosa Papers New Pulp Storage Tnk Area - BRRTS No. 0272195036 (Open)  
Nekoosa Papers Train Shed Reconstr Area - BRRTS No. 0272195027 (Open)  
Nekoosa Papers Collapsed Sewer Wood Rm - BRRTS No. 0272195031 (Open)  
Nekoosa Woodyard - BRRTS No. 0372001077 (Closed)  
Nekoosa Papers New Alkali Plt Weak Wash - BRRTS No. 772052930 (Open)
- G. List BRRTS activity/site name(s) and number(s) for all properties immediately adjacent to this site, and those impacted by contamination from this site.  
No adjacent properties have been impacted by this site. Properties immediately adjacent to this site with BRRTS activities are as follows:  
Resheske Inc - BRRTS No. 0372000048 (Adjacent to site)  
Nekoosa Phillips - BRRTS No. 0372099210 (Adjacent to site)  
Effluent Treatment Plt - BRRTS No. 0372000901 (Adjacent to site)
- H. **Current zoning** (e.g. industrial, commercial, residential) for the site and for neighboring properties, and how verified (Provide documentation in Attachment G).  
According to the Wood County Land Records Interactive Map, version 2.3.1, the site is zoned for manufacturing and the neighboring properties are zoned as manufacturing, mercantile, and residential.

### 2. General Site Conditions

- A. Soil/Geology
- i. Describe soil type(s) and relevant physical properties, thickness of soil column across the site, vertical and lateral variations in soil types.  
Underlying the Mill site is glacial outwash sand comprised of the Plainfield Series to a depth of at least 20 feet below ground surface (bgs). The glacial drift is underlain by Cambrian age sandstone and Precambrian age granite and gneiss.
  - ii. Describe the composition, location and lateral extent, and depth of fill or waste deposits on the site.  
Fill or waste deposits are not known on the site.
  - iii. Depth to bedrock, bedrock type, and whether or not it was encountered during the investigation.  
Depth to bedrock is unknown.

- iv. Describe the nature and locations of current surface cover(s) across the site (e.g. natural vegetation, landscaped areas, gravel, hard surfaces, and buildings).

The property is mainly comprised of impervious surfaces (Mill buildings, railroad tracks, and paved out lots). Where impacted soils have been left in place, a concrete slab and curb system has been constructed. Gravel and vegetated areas are present on site generally along the Wisconsin River.

#### B. Groundwater

- i. **Discuss depth to groundwater and piezometric elevations.** Describe and explain depth variations, and whether free product affects measurement or water table elevation. Describe the stratigraphic unit(s) where water table was found or which were measured for piezometric levels.

Based on previous work performed on the site, groundwater has been measured in monitoring wells and is generally six to eight feet below ground surface.

- ii. Discuss groundwater flow direction(s), shallow and deep. Describe and explain flow variations, including fracture flow if present.

Based on groundwater elevations measured in monitoring wells on September 26, 2001, groundwater generally flows to the north across the site.

- iii. Discuss groundwater flow characteristics: hydraulic conductivity, flow rate and permeability, or state why this information was not obtained.

Based on a 1991 RMT study performed on the overall mill property, hydraulic conductivity is between  $3.5 \times 10^{-4}$  to  $6 \times 10^{-3}$  cm per second with a gradient ranging from 0.002 to 0.04. According to the study, groundwater generally flows northwest away from the river in a radial pattern around the dam.

- iv. Identify and describe locations/distance of potable and/or municipal Wells within 1200 feet of the site.

There are no potable and/or municipal wells within 1200 feet of the site. The City of Nekoosa has five city wells, but all are greater than 1,200 feet from the site.

### 3. Site Investigation Summary

#### A. General

- i. Provide a brief summary of the site investigation history. Reference previous submittals by name and date. Describe site investigation activities undertaken since the last submittal for this project and attach the appropriate documentation in Attachment C, if not previously provided.
- ii. Identify whether contamination extends beyond the source property boundary, describe the off-site media (e.g., soil, groundwater, etc.) impacted, and the vertical and horizontal extent of off-site impacts.
- iii. Identify any structural impediments to the completion of site investigation and/or remediation and whether these impediments are on the source property or off the source property. Identify the type and location of any structural impediment (e.g., structure) that also serves as the performance standard barrier for protection of the direct contact or the groundwater pathway.

#### B. Soil

- i. Describe degree and extent of **soil contamination** at and from this site. Relate this to known or suspected sources and known or potential receptors/migration pathways.
- ii. Describe the level and types of **soil contaminants** found in the upper four feet of the soil column.
- iii. Identify the ch. NR 720, Wis. Adm. Code, method used to establish the soil cleanup standards for this site: for example, a Residual Contaminant Level (RCL), a Site-Specific Residual Contaminant Level (SSRCL), or a Performance Standard as determined under ss NR 720.09, 720.11 and 720.19, Wis. Adm. Code. Identify the land use classification that was used to establish cleanup standards. Provide a copy of the supporting calculations/information in Attachment C.

#### C. Groundwater

- i. Describe degree and extent of groundwater contamination at or from this site. Relate this to known or suspected sources and known or potential receptors/migration pathways. Specifically address any potential or existing impacts to water supply wells or interception with building foundation drain systems.
- ii. Describe the presence of free product at the site, including the thickness, depth, and locations.

D. Vapor

- i. Describe how the vapor migration pathway was assessed, including locations where vapor or indoor air samples were collected. If the vapor pathway was not assessed, explain reasons why.
- ii. Identify the applicable DNR action levels and the land use classification used to establish them. Describe where the DNR action levels were reached or exceeded (e.g., sub slab, indoor air or both).

E. Surface Water and Sediment

- i. Identify whether surface water and/or sediment was assessed and describe the impacts found. If this pathway was not assessed, explain why.
- ii. Identify any surface water and/or sediment action levels used to assess the impacts for this pathway and how these were derived. Describe where the DNR action levels were reached or exceeded.

**4. Remedial Actions Implemented and Residual Levels at Closure**

- A. General: Provide a brief summary of the remedial action history. List previous remedial action report submittals by name and date. Identify remedial actions undertaken since the last submittal for this project and provide the appropriate documentation in Attachment C.
- B. Describe any immediate or interim actions taken at the site under ch NR 708, Wis. Adm. Code.  
Not applicable
- C. Describe the *active* remedial actions taken at the site, including: type of remedial system(s) used for each media impacted; the size and location of any excavation or in-situ treatment; the effectiveness of the systems to address the contaminated media and substances; operational history of the systems; and summarize the performance of the active remedial actions. Provide any system performance documentation in Attachment A.7.
- D. Provide a discussion of the nature, degree and extent of residual contamination that will remain at the site or on off-site affected properties after case closure.
- E. Describe the remaining soil contamination within four feet of ground surface (direct contact zone) that attains or exceeds the ch. NR720, Wis. Adm. Code, standard(s) for direct contact.
- F. Describe the remaining soil contamination in the vadose zone that attains or exceeds the soil standard(s) for the groundwater pathway.
- G. Describe how the residual contamination will be addressed, including but not limited to details concerning: covers, engineering controls or other barrier features; use of natural attenuation of groundwater; and vapor mitigation systems or measures.

- H. If using natural attenuation as a groundwater remedy, describe how the data collected supports the conclusion that natural attenuation is effective in reducing contaminant mass and concentration, (e.g. stable or receding groundwater plume).
- I. Identify how all exposure pathways were removed and/or adequately addressed by immediate and/or remedial action(s) described above in paragraphs, B, C, D, E and F.
- J. Identify any system hardware anticipated to be left in place after site closure, and explain the reasons why it will remain.
- K. Identify the need for a ch. NR 140, Wis. Adm. Code, groundwater Preventive Action Limit (PAL) or Enforcement Standard (ES) exemption, and identify the affected monitoring points and applicable substances.
- L. If a DNR action level for vapor intrusion was exceeded (for indoor air, sub slab, or both) describe where it was exceeded and how the pathway was addressed.
- M. Describe the surface water and/or sediment contaminant concentrations and areas after remediation. If a DNR action level was exceeded, describe where it was exceeded and how the pathway was addressed.

**5. Continuing Obligations: Situations where a maintenance plan(s) and inclusion on DNR's GIS Registry are required.**

Directions: Check all that apply to this case closure request:

	This scenario Applies to this Case Closure		Case Closure Scenario: Maintenance Plans and GIS Registry	Maintenance Plan (s) Required in Attachment D	GIS Registry Listing
	A. On-Site	B. Off-Site			
i.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Engineering Control/Barrier for Direct Contact	✓	✓
ii.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Engineering Control/Barrier for Groundwater Infiltration	✓	✓
iii.	<input type="checkbox"/>	<input type="checkbox"/>	Vapor Mitigation - post closure passive system	✓	✓
iv.	<input type="checkbox"/>	<input type="checkbox"/>	Vapor Mitigation - post closure active system	✓	✓
v.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None of the above scenarios apply to this case closure	NA	NA

**6. Continuing Obligations: Situations where inclusion on DNR's GIS Registry is required.**

Directions: Check all that apply to this case closure request:

	This scenario Applies to this Case Closure		Case Closure Scenario: GIS Registry Only	GIS Registry Listing
	A. On-Site	B. Off-Site		
i.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Residual soil contamination exceeds ch. NR 720 generic or site-specific RCLs	✓
ii.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sites with groundwater contamination equal to or greater than the ch. NR 140, enforcement standards (ES)	✓
iii.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Monitoring wells: lost, transferred or remaining in use	✓
iv.	<input type="checkbox"/>	<input type="checkbox"/>	Structural Impediment (not as a performance standard)	✓
v.	<input type="checkbox"/>	<input type="checkbox"/>	Residual soil contamination remaining at ch. NR 720 Industrial Use levels	✓
vi.	<input type="checkbox"/>	<input type="checkbox"/>	Vapor intrusion may be future, post-closure issue if building use or land use changes	✓
vii.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None of the above scenarios apply to this case closure	NA

**7. Underground Storage Tanks**

- A. Were any tanks, piping or other associated tank system components removed as part of the investigation or remedial action?  Yes  No
- B. Do any upgraded tanks meeting the requirements of ch. SPS 310, Wis. Adm. Code, exist on the property?  Yes  No
- C. If the answer to question 7b is yes, is the leak detection system currently being monitored?  Yes  No

**Data Tables (Attachment A)**

*If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.*

**General directions for Data Tables:**

- Use bold and italics font on information of importance on tables and figures. Use **bold font** for ch. NR 140, Wis. Adm. Code, groundwater enforcement standard (ES) attainments or exceedances, and *italicized font* for ch. NR 140, Wis. Adm. Code, groundwater preventive action limit (PAL) standard attainments or exceedances.
- Do not use shading or highlighting on the analytical tables.
- Include on Data Tables the level of detection for results which are below the detection level (i.e. do not just list as no detect (ND)).
- Include the units on data tables.
- Summaries of all data must include information collected by previous consultants.
- Do not submit lab data sheets unless these have not been submitted in a previous report. Tabulate all data required in s. NR 716.15 (2)(g)3, Wis. Adm. Code, in the format required in s. NR 716.15(2)(h)3, Wis. Adm. Code.
- Include in Attachment A all of the following tables, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: A.1. Groundwater Analytical Table; A.2. Pre-remedial Soil Analytical Table, etc).
- For required documents, each table (e.g., A.1., A.2., etc.) should be a separate PDF.

**A. Data Tables**

- A.1. **Groundwater Analytical Table(s):** Table(s) showing the analytical results and collection dates, for all groundwater sampling points e.g. monitoring wells, temporary wells, sumps, extraction wells, any potable wells and any other wells, extraction wells and any potable wells for which samples have been collected.
- A.2. **Pre-remedial Soil Analytical Table(s):** Table(s) showing the soil analytical results and collection dates - prior to conducting the interim and/or remedial action. Indicate if sample was collected above or below the all-time low water table (unsaturated verses saturated).
- A.3. **Post-remedial Soil Analytical Table(s):** Table(s) showing the post-remedial action soil analytical results and collection dates. Indicate if sample was collected above or below the all-time low water table (unsaturated verses saturated).
- A.4. **Pre and Post Remaining Soil Contamination Soil Analytical Table(s):** Table(s) showing only the pre and post remedial action soil analytical results that exceed a Residual Contaminate Level (RCL) or a Site-Specific Residual Level (SSRCL).
- A.5. **Vapor Analytical Table:** Table(s) showing type(s) of samples, sample collection methods, analytical method, sample

results, date of sample collection, time period for sample collection, method and results of leak detection, and date, method and results of communication testing.

- A.6. **Other Media of Concern (e.g., sediment or surface water):** Table(s) showing type(s) of sample, sample collection method, analytical method, sample results, date of sample collection, time period for sample collection, method and results sampling.
- A.7. **Water Level Elevations:** Table(s) showing all water level elevation measurements and dates from all monitoring wells. If present, free product should be noted on the table.
- A.8. **Other:** This attachment should include: 1) any available tabulated natural attenuation data; 2) data tables pertaining to engineered remedial systems that document operational history, demonstrate system performance and effectiveness, and display emissions data; and (3) any other data tables relevant to case closure not otherwise noted above. If this section is not applicable, please explain the reasons why.

## Maps and Figures (Attachment B)

*If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.*

### General Directions for all Maps and Figures:

- If any map or figure is not relevant to the case closure request, you must fully explain the reason(s) why and attach that explanation (properly labeled with the map/ figure title) in Attachment B.
- Provide on paper no larger than 11 x 17 inches, unless otherwise directed by the Department. Maps and figures may be submitted in a larger electronic size than 11x17 inches, in a portable document format (pdf) readable by the Adobe Acrobat Reader. However, those larger-size documents must be legible when printed.
- Prepare visual aids, including maps, plans, drawings, fence diagrams, tables and photographs according to the applicable portions of ss. NR 716.15(2)(h)1 and 726.05(3)(a)4.d, Wis Adm. Code.
- Do not use shading or highlights on any of the analytical tables.
- Include all sample locations.
- Contour lines should be clearly labeled and defined.
- Include in Attachment B all of the following maps and figures, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: B.1. Location Map; B.2. Detailed Site Map, etc).
- For the electronic copies that are required, each map (e.g., B.1.a., B.2.a, etc.,) should be a separate PDF.

#### B.1. Location Maps

- B.1.a. **Location Map:** A map outlining all properties within the contaminated site boundaries on a U.S.G.S. topographic map or plat map in sufficient detail to permit easy location of all impacted and/or adjacent parcels. If groundwater standards are exceeded, include the location of all potable wells, including municipal wells, within 1200 feet of the area of contamination.
- B.1.b. **Detailed Site Map:** A map that shows all relevant features (buildings, roads, current ground surface cover, individual property boundaries for on-site and applicable off-site properties, contaminant sources, utility lines, monitoring wells and potable wells) within the contaminated area. This map is to show the location of all contaminated public streets, and highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding a ch. NR 140 Enforcement Standard (ES), and/or in relation to the boundaries of soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Levels (SSRCL) as determined under ss. NR 720.09, 720.11 and 720.19, Wis. Adm. Code.
- B.1.c. **RR Site Map:** From RR Sites Map (<http://dnrm.wisconsin.gov/imf/imf.jsp?site=brts2>) attach a map depicting the source property, and all open and closed BRRTS sites within a half-mile radius or less of the property.

#### B.2. Soil Figures

- B.2.a. **Pre-remedial Soil Contamination:** Figure(s) showing the sample location of all pre-remedial, unsaturated contaminated soil and a single contour showing the horizontal extent of each area of contiguous residual soil contamination that exceeded a Residual Contaminant Level (RCL) or a Site-Specific Residual Contaminant Level (SSRCL) as determined under ss. NR 720.09, 720.11 and 720.19, Wis. Adm. Code.
- B.2.b. **Post-remedial Soil Contamination :** Figure(s) showing the sample location of all post-remedial, unsaturated contaminated soil and a single contour showing the horizontal extent of each area of contiguous residual soil contamination that exceeds a Residual Contaminant Level (RCL) or a Site-Specific Residual Contaminant Level (SSRCL) as determined under ss. NR 720.09, 720.11 and 720.19, Wis. Adm. Code. A separate contour line should be used to indicate the extent of residual direct contact exceedances.
- B.2.c. **Pre/Post Remaining Soil Contamination:** Figure(s) showing the only location of all pre and post remedial residual soil sample location(s) where unsaturated contaminated soil remains after remediation and a single contour showing the horizontal extent of each area of contiguous residual soil contamination that exceeds a Residual Contaminant Level (RCL) or a Site-Specific Residual Level (SSRCL) as determined under ss. NR 720.09, 720.11 and 720.19, Wis. Admin. Code. A separate contour line should be used to indicate the extent of residual direct contact exceedances.

### B.3. Groundwater Figures

- B.3.a. **Geologic Cross-Section Figure(s):** One or more cross-section diagrams showing soil types and correlations across the site, water table and piezometric elevations, and locations and elevations of geologic rock units, if encountered. Display on one or more figures all of the following:
- Source location(s) and vertical extent of residual soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL).
  - Source location(s) and lateral and vertical extent if groundwater contamination exceeds a ch. NR 140 Enforcement Standard (ES)
  - Surface features, including buildings and basements, and show surface elevation changes.
  - Any areas of active remediation within the cross section path, such as excavations or treatment zones.
  - Include a map displaying the cross-section location(s), if they are not displayed on the Detailed Site Map (Map B.1b)
- B.3.b. **Groundwater Isoconcentration:** Figure(s) showing the horizontal extent of the post-remedial groundwater contamination exceeding a ch. NR 140, Wis. Adm. Code, Preventive Action Limit (PAL) and/or an Enforcement Standard (ES). Indicate the date and direction of groundwater flow based on the most recent sampling data.
- B.3.c. **Groundwater Flow Direction:** Figure(s) representing groundwater movement at the site. If the flow direction varies by more than 20° over the history of the site, submit two groundwater flow maps showing the maximum variation in flow direction.
- B.3.d. **Monitoring Wells:** Figure(s) showing all monitoring wells, with well identification number. Clearly designate any wells that: (1) are proposed to be abandoned; (2) cannot be located; (3) are being transferred; (4) will be retained for further sampling, or (5) have been previously abandoned.

### B.4. Vapor Maps and Other Media

- B.4.a. **Vapor Intrusion Map:** Map(s) showing all locations and results for samples taken to investigate the vapor intrusion pathway, in relation to remaining soil and groundwater contamination, including sub-slab, indoor air, soil vapor, ambient air, and communication testing. Show locations and footprints of affected structures and utility corridors, and/or where residual contamination poses a future risk of vapor intrusion.
- B.4.b. **Other media of concern (e.g., sediment or surface water):** Map(s) showing all sampling locations and results for other media investigation. Include the date of sample collection and identify where any standards are exceeded.
- B.4.c. **Other:** Include any other relevant maps and figures not otherwise noted above. (This section may remain blank)

### Documentation of Remedial Action (Attachment C)

*If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.*

#### General Directions:

- Include in Attachment C all of the following documentation, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: C.1. Site Investigation Documentation; C.2. Investigative Waste, etc).
  - If the documentation requested below is "not applicable" to the site-specific circumstances, include a brief explanation to support that conclusion.
  - If the documentation requested below has already been submitted to the Department, please note the title and date of the report for that particular document requested.
- C.1. **Site investigation documentation**, that has not otherwise been previously submitted.
  - C.2. **Investigative waste** disposal documentation.
  - C.3. **NR 720.19 analysis**, assumptions and calculations for site specific RCLs (SSRCLs) , with justification, including EPA Soil Screening Level Model Calculations and results.
  - C.4. **Construction documentation** or as-built report for any constructed remedial action or portion of, or interim action specified in s. NR 724.02(1), Wis. Adm. Code.
  - C.5. **Decommissioning of Remedial Systems.** Include plans to properly abandon any systems or equipment upon receiving conditional closure.
  - C.6. **Photos.** For sites or facilities with a cover or other performance standard, a structural impediment or a vapor mitigation system. Include one or more photographs documenting the condition and extent of the feature at the time of the closure request. Pertinent features should be visible and discernible. Photographs must be labeled with the site name, the features shown, location and the date on which the photograph was taken.
  - C.7. **Other.** Include any other relevant documentation not otherwise noted above. (This section may remain blank)

### Maintenance Plan(s) (Attachment D)

*If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.*

When one or more "maintenance plans" are required for a site closure, include in each maintenance plan all required information in sections D.1. through D.5. below, and attach the plan(s) in Attachment D. The following "model" maintenance plans can be located at: (1) Maintenance plan for a engineering control or cover: <http://dnr.wi.gov/topic/Brownfields/documents/maintenance-plan.pdf>; and (2) Maintenance plan for vapor intrusion: [http://dnr.wi.gov/topic/Brownfields/documents/appendix5\\_606.pdf](http://dnr.wi.gov/topic/Brownfields/documents/appendix5_606.pdf).

- D.1. **Location map(s)** which show(s): (1) the feature that requires maintenance; (2) the location of the feature(s) that require(s) maintenance - on and off the source property; (3) the extent of the structure or feature(s) to be maintained, in relation to other structures or features on the site; (4) the extent and type of residual contamination; and (5) and all property boundaries.
- D.2. **Brief descriptions** of the type, depth and location of residual contamination.
- D.3. **Description of maintenance action(s)** required for maximizing effectiveness of the engineered control, vapor mitigation system, feature or other action for which maintenance is required.
- D.4. **Inspection log**, to be maintained on site, or at a location specified in the maintenance plan or approval letter.
- D.5. **Contact information**, including the name, address and phone number of the individual or facility who will be conducting the maintenance.

### Monitoring Well Information (Attachment E)

*If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.*

#### General Directions:

Attach monitoring well construction and development forms (DNR FORM 4400-113 A and B: [http://dnr.wi.gov/topic/groundwater/documents/forms/4400\\_113\\_1\\_2.pdf](http://dnr.wi.gov/topic/groundwater/documents/forms/4400_113_1_2.pdf)) for all wells that will remain in-use, be transferred to another party or that could not be located. A figure of these wells should be included in Attachment B.3.d.

#### Select One:

- No monitoring wells were required as part of this response action.
- All monitoring wells have been located and will be properly abandoned upon the DNR granting conditional closure to the site
- Select One or More:**
- Not all monitoring wells can be located, despite good faith efforts. Attachment E must include description of efforts made to locate the "lost" wells.
- One or more wells will be transferred to another owner upon case closure being granted. Attachment E should include documentation identifying the name, address and email for the new owner(s).
- One or more wells will remain in use at the site after this closure. Attachment E must include documentation as to the reason(s) the well(s) will remain in use.

**Notifications to Owners of Impacted Properties (Attachment F)**

If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.

**General Directions:**

- State law requires that the responsible party provide a 30-day, written advance notice (i.e., a letter) to certain persons prior to applying for case closure. This requirement applies if: (1) the person conducting the response action does not own the source property; (2) the contamination has migrated onto another property; and/or (3) one or more monitoring wells will not be abandoned.
- A model "template letter" for these mandatory notifications can be downloaded at: <http://dnr.wi.gov/files/PDF/pubs/rr/RR919.pdf>.

**Check all that apply to the site-specific circumstances of this case closure:**

	A. Impacted Source Property and Owner is not Conducting Cleanup	B. Impacted Right of Way	C. Impacted Off-Site Property Owner	Impacted Property Notification Situations: Ch. NR 726 Appendix A Letter
1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Residual groundwater contamination exceeds Ch. NR 140 Wis. Administrative Code enforcement standards.
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Residual soil contamination that attains or exceeds standards is present after the remedial action is complete, and must be properly managed should it be excavated or removed.
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	An engineered cover or a soil barrier (e.g. pavement) must be maintained over contaminated soil for direct contact or groundwater infiltration concerns.
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Industrial land use soil standards were used for the clean-up standard.
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A vapor mitigation system (or other specific vapor protection) must be operated and maintained.
6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vapor assessment needed if use changes.
7.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Structural impediment.
8.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lost, transferred or open monitoring wells.
9.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Not Applicable.

If any of the previous boxes in rows 1 thru 8 were checked, include the following as part of Attachment F:

- FORM 4400-246;
- Copy of each letter sent, 30 days or more prior to requesting closure; and
- Proof of receipt for each letter.
- For this site closure, 0 (number) property (ies) has/have been impacted, the owners have been notified, and copies of the letters and receipts are included in Attachment F.

**Source Legal Documents (Attachment G)**

If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.

Include all of the following documents, in this order, in Attachment G:

- G.1. **Deeds - Source Property and Other Impacted Properties:** The most recent deed with legal descriptions clearly labeled for (1) the **Source Property** (where the contamination originated) and (2) all **off-source** (off-site) properties where letters were required to be sent per the ch. NR 700, Wis. Adm. Code, rule series (e.g., off-site cover maintenance required, lost monitoring well, off-site cover property impacts to groundwater exceeding the ch. NR 140, Wis. Adm. Code).  
*Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.*
- G.2. **Certified Survey Map:** A copy of the certified survey map or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map. (Lots on subdivided or platted property (e.g. lot 2 of xyz subdivision)).
- G.3. **Verification of Zoning:** Documentation (e.g., official zoning map or letter from municipality) of the property's or properties' current zoning status.
- G.4. **Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes that the attached legal description(s) accurately describe(s) the correct contaminated property or properties.

**Signatures and Findings for Closure Determination**

If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.

Check the correct signature block below for this case closure request, and have the proper environmental professional(s) sign this document, in accordance with the ch. NR 700 Wis. Adm. Code rule series. Both boxes may be checked if applicable to this case closure.

- A response action(s) for this site addresses groundwater contamination (including natural attenuation remedies). In this situation, the closure request must be prepared by, or under the supervision of, a professional engineer and a hydrogeologist, as defined in ch. NR 712, Wis. Adm. Code. Include both signatures provided below with the submittal.
- The response action(s) for this site addresses media other than groundwater. In this situation, the case closure request must be prepared by, or under the supervision of, a professional engineer, as defined in ch. NR 712, Wis. Adm. Code. The "engineering certification" language below, at a minimum, must be signed.

**Engineering Certification**

I \_\_\_\_\_ hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this case closure request has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this case closure request is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code. All phases of work necessary to obtain data, develop conclusions, recommendations and prepare submittals for this case closure request have been prepared by me, or their preparation has been supervised by me. Specifically, with respect to compliance with the rules, in my professional opinion a site investigation has been conducted in accordance with ch. NR 716, Wis. Adm. Code, and all necessary remedial actions have been completed in accordance with chs. NR 140, NR 718, NR 720, NR 722, NR 724 and NR 726, Wis. Adm. Codes."

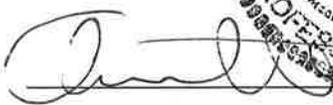
\_\_\_\_\_  
Printed Name Title

\_\_\_\_\_  
Signature Date P.E. Stamp and Number

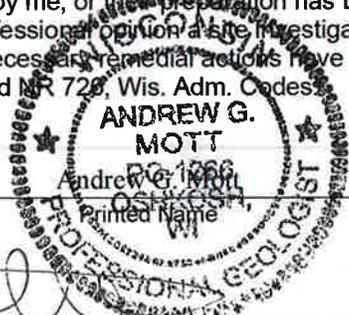
**Hydrogeologist Certification**

I Andrew Mott hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this case closure request is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code. All phases of work necessary to address groundwater contamination including obtaining data, developing conclusions, recommendations and preparing submittals for this case closure request have been prepared by me, or their preparation has been supervised by me. Specifically, with respect to compliance with the rules, in my professional opinion a site investigation has been conducted in accordance with ch. NR 716, Wis. Adm. Code, and all necessary remedial actions have been completed in accordance with chs. NR 140, NR 718, NR 720, NR 722, NR 724 and NR 726, Wis. Adm. Codes.

\_\_\_\_\_  
Andrew G. Mott  
Printed Name Hydrogeologist Title

  
\_\_\_\_\_  
Signature

7/13/17  
\_\_\_\_\_  
Date



**Table A.1 Groudwater Analytical Table**  
**New Pulp Storage Tank Area**  
**Domtar Industries**  
**Nekoosa, Wisconsin**

**B-9**

Sample Date		8/16/96	5/19/97	6/26/97	6/20/01	9/26/01	11/3/05	ES (ug/L)	PAL (ug/L)
Groundwater Elevation (MSL)		946.94	947.08	946.88	946.77	947.20	947.21		
Benzene	(µg/L)	<0.5	<12.5	<12.5	<0.16	<0.16	<0.15	5	0.5
Bromobenzene	(µg/L)	<1.1	<50	<50	<0.24	<0.24	<0.1	--	--
Bromochloromethane	(µg/L)	<3.7	--	--	<0.2	<0.14	<0.1	-	-
Bromodichloromethane	(µg/L)	<0.8	<25	<25	--	<0.2	0.202 (J)	0.6	0.06
Bromoform	(µg/L)	<1.5	--	--	--	<0.17	<0.2	4.4	0.44
Bromomethane	(µg/L)	<1.2	--	--	--	<0.15	<0.15	10	1
sec-Butylbenzene	(µg/L)	<1.5	<25	<25	0.649	1.210	<0.15	--	--
tert-Butylbenzene	(µg/L)	<2.0	<25	<25	<0.18	<0.18	<0.15	--	--
n-Butylbenzene	(µg/L)	<1.9	<25	<25	<0.24	0.512	<0.2	--	--
Carbon Tetrachloride	(µg/L)	<2.0	<25	<25	<0.3	<0.3	<0.2	5	0.5
Chloroform	(µg/L)	0.9	<25	<25	<0.24	<0.24	<b>7.14</b>	6	0.6
Chlorobenzene	(µg/L)	<1.1	<25	<25	<0.17	<0.17	<0.1	--	--
Chlorodibromomethane	(µg/L)	<0.8	<25	<25	<0.22	<0.22	<0.1	-	-
Chloroethane	(µg/L)	<1.2	<25	<25	<0.25	<0.25	<0.6	400	80
Chloromethane	(µg/L)	<1.1	<50	<50	<0.15	<0.15	<0.2	3	0.3
2-Chlorotoluene	(µg/L)	<0.8	<25	<25	<0.24	<0.24	<0.1	--	--
4-Chlorotoluene	(µg/L)	<0.7	<50	<50	<0.27	<0.27	<0.2	--	--
1,2-Dibromo-3-Chloropropane	(µg/L)	<3.4	<25	<25	--	--	--	0.2	0.02
1,2-Dibromoethane	(µg/L)	<1.1	<25	<25	<0.19	<0.19	<0.1	0.05	0.005
Dibromomethane	(µg/L)	<1.1	--	--	--	<0.15	<0.1	-	-
1,3-Dichlorobenzene	(µg/L)	<1.1	<25	<25	<0.28	<0.28	<0.15	1250	125
1,4-Dichlorobenzene	(µg/L)	<0.7	<25	<25	<0.27	<0.27	<0.75	75	15
1,2-Dichloroethane	(µg/L)	<1.1	<25	<25	<0.28	<0.28	<0.1	5	0.5
1,2-Dichlorobenzene	(µg/L)	<0.9	<25	<25	<0.36	<0.36	<0.75	600	60
1,1-Dichloroethene	(µg/L)	<1.6	<25	<25	<0.38	<0.38	<0.15	7	0.7
cis-1,2-Dichloroethene	(µg/L)	<2.1	<25	<25	<0.25	<0.25	<0.2	70	7
Dichlorodifluoromethane	(µg/L)	<1.3	<50	<50	<0.25	<0.25	<0.25	1000	200
trans-1,2-Dichloroethene	(µg/L)	<1.1	<25	<25	<0.25	<0.25	<0.1	100	20
1,2-Dichloropropane	(µg/L)	<0.7	<25	<25	<0.35	<0.35	<0.1	5	0.5
1,1-Dichloroethane	(µg/L)	<1.6	<25	<25	<0.38	<0.38	<0.15	850	85
1,3-Dichloropropane	(µg/L)	<0.7	<25	<25	<0.26	<0.26	<0.1	-	-
2,2-Dichloropropane	(µg/L)	<1.5	<50	<50	<0.29	<0.29	<0.1	--	--
1,1-Dichloropropene	(µg/L)	<1.6	--	--	--	<0.36	<0.2	-	-
cis-1,3-Dichloropropene	(µg/L)	<0.9	--	--	--	<0.3	<0.1	0.2	0.02
trans-1,3-Dichloropropene	(µg/L)	<1.1	--	--	--	<0.18	<0.1	0.2	0.02
Di-isopropyl ether	(µg/L)	--	--	--	--	<0.15	--	--	--
Ethylbenzene	(µg/L)	5.7	<25	<25	<0.5	<0.5	<0.1	700	140
Fluorotrichloromethane	(µg/L)	--	--	--	--	--	--	3490	698
Hexachlorobutadiene	(µg/L)	<1.0	<25	<25	<1.0	<1.0	<1.0	--	--
Isopropylbenzene	(µg/L)	5	<25	<25	<0.17	<0.17	<0.1	--	--
p-Isopropyltoluene	(µg/L)	<1.3	499	34.4	4.09	<0.19	1.11	--	--
Methylene Chloride	(µg/L)	2	<50	<50	<0.3	<0.3	<0.4	5	0.5
Methyl tert-butyl ether	(µg/L)	--	--	--	<0.3	<0.3	<0.1	60	12
Naphthalene	(µg/L)	3.4	<25	<25	<0.8	<0.8	<1.0	40	8
n-Propylbenzene	(µg/L)	8.2	<25	<25	0.457	<0.16	<0.1	--	--
Styrene	(µg/L)	<0.6	--	--	--	<0.18	<0.1	100	10
1,1,2,2-Tetrachloroethane	(µg/L)	<1.8	<25	<25	<0.28	<0.28	<0.1	0.2	0.02
1,1,1,2-Tetrachloroethane	(µg/L)	<0.7	--	--	--	<0.15	<0.1	70	7
Tetrachloroethene	(µg/L)	<0.9	<25	<25	<0.26	<0.26	<0.1	5	0.5
Toluene	(µg/L)	2.7	<25	<25	<0.4	<0.4	1.25 (J)	1000	200
1,2,3-Trichlorobenzene	(µg/L)	<1.1	<25	<25	<0.4	<0.4	<0.5	--	--
1,2,4-Trichlorobenzene	(µg/L)	<1.2	<25	<25	<0.38	<0.38	<0.5	70	14
1,1,1-Trichloroethane	(µg/L)	<2.8	<25	<25	<0.2	<0.2	<0.2	200	40
1,1,2-Trichloroethane	(µg/L)	<1.6	<25	<25	<0.2	<0.2	<0.1	5	0.5
Total Trimethylbenzene	(µg/L)	3.3	<50	<50	1.96	<0.57	<0.30	480	96
Trichloroethene	(µg/L)	<0.7	<12.5	<12.5	<0.26	<0.26	<0.2	5	0.5
1,2,3-Trichloropropane	(µg/L)	<2.3	--	--	--	<0.19	<0.55	--	--
Vinyl Chloride	(µg/L)	<1.3	<5	<5	<0.39	<0.3	<0.1	0.2	0.02
Xylenes	(µg/L)	3.1	<50	<50	<0.47	<0.57	<0.57	10,000	1000
pH	st. units	--	--	--	7.00	--	--	--	--
Dissolved Chloride	(mg/L)	--	--	--	--	<b>287</b>	--	250	125
Dissolved Sulfate	(mg/L)	--	--	--	--	<b>507</b>	--	250	125

Notes:

ES = NR 140 Enforcement Standard

PAL = NR 140 Preventive Action Limit

**NR 140 ES Exceedance**

*NR 140 PAL Exceedance*

µg/L = micrograms per liter

mg/L = milligrams per liter

(J) = Concentration reported between limit of detection and limit of quantitation.

**Table A.1 Groudwater Analytical Table**  
**New Pulp Storage Tank Area**  
**Domtar Industries**  
**Nekoosa, Wisconsin**

**B-13**

Sample Date		6/20/01	9/26/01	11/3/05	ES (ug/L)	PAL (ug/L)
Groundwater Elevation (MSL)		946.89	947.06	947.01		
Benzene	(µg/L)	<0.16	<0.16	<0.15	5	0.5
Bromobenzene	(µg/L)	<0.24	<0.24	<0.1	--	--
Bromochloromethane	(µg/L)	<0.2	<0.14	1.77	-	-
Bromodichloromethane	(µg/L)	--	<0.2	<0.1	0.6	0.06
Bromoform	(µg/L)	--	<0.17	<0.2	4.4	0.44
Bromomethane	(µg/L)	--	<0.15	<0.15	10	1
sec-Butylbenzene	(µg/L)	<0.19	<0.19	<0.15	--	--
tert-Butylbenzene	(µg/L)	<0.18	<0.18	<0.15	--	--
n-Butylbenzene	(µg/L)	<0.24	<0.24	<0.2	--	--
Carbon Tetrachloride	(µg/L)	<0.3	<0.3	<0.2	5	0.5
Chloroform	(µg/L)	<0.24	<0.24	12.7	6	0.6
Chlorobenzene	(µg/L)	<0.17	<0.17	<0.1	--	--
Chlorodibromomethane	(µg/L)	<0.22	<0.22	<0.1	-	-
Chloroethane	(µg/L)	<0.25	<0.25	<0.6	400	80
Chloromethane	(µg/L)	<0.15	<0.15	<0.2	3	0.3
2-Chlorotoluene	(µg/L)	<0.24	<0.24	<0.1	--	--
4-Chlorotoluene	(µg/L)	<0.27	<0.27	<0.2	--	--
1,2-Dibromo-3-Chloropropane	(µg/L)	--	--	--	0.2	0.02
1,2-Dibromoethane	(µg/L)	<0.19	<0.19	<0.1	0.05	0.005
Dibromomethane	(µg/L)	--	<0.15	<0.1	-	-
1,3-Dichlorobenzene	(µg/L)	<0.28	<0.28	<0.15	1250	125
1,4-Dichlorobenzene	(µg/L)	<0.27	<0.27	<0.75	75	15
1,2-Dichloroethane	(µg/L)	<0.28	<0.28	<0.1	5	0.5
1,2-Dichlorobenzene	(µg/L)	<0.36	<0.36	<0.75	600	60
1,1-Dichloroethene	(µg/L)	<0.38	<0.38	<0.15	7	0.7
cis 1,2-Dichloroethene	(µg/L)	<0.25	<0.25	<0.2	70	7
Dichlorodifluoromethane	(µg/L)	<0.25	<0.25	<0.25	1000	200
trans 1,2-Dichloroethene	(µg/L)	<0.25	<0.25	<0.1	100	20
1,2-Dichloropropane	(µg/L)	<0.35	<0.35	<0.1	5	0.5
1,1-Dichloroethane	(µg/L)	<0.38	<0.38	<0.15	850	85
1,3-Dichloropropane	(µg/L)	<0.26	<0.26	<0.1	-	-
2,2-Dichloropropane	(µg/L)	<0.29	<0.29	<0.1	--	--
1,1-Dichloropropene	(µg/L)	--	<0.36	<0.2	-	-
cis-1,3-Dichloropropene	(µg/L)	--	<0.3	<0.1	0.2	0.02
trans-1,3-Dichloropropene	(µg/L)	--	<0.18	<0.1	0.2	0.02
Di-isopropyl ether	(µg/L)	--	--	--	--	--
Ethylbenzene	(µg/L)	<0.5	<0.5	<0.1	700	140
Fluorotrichloromethane	(µg/L)	--	--	--	3490	698
Hexachlorobutadiene	(µg/L)	<1.0	<1.0	<1.0	--	--
Isopropylbenzene	(µg/L)	<0.17	<0.17	<0.1	--	--
p-Isopropyltoluene	(µg/L)	<0.19	<0.19	<0.2	--	--
Methylene Chloride	(µg/L)	<0.3	<0.3	<0.4	5	0.5
Methyl tert-butyl ether	(µg/L)	<0.3	<0.3	<0.1	60	12
Naphthalene	(µg/L)	<0.8	<0.8	<1.0	40	8
n-Propylbenzene	(µg/L)	<0.16	<0.16	<0.1	--	--
Styrene	(µg/L)	--	<0.18	<0.1	100	10
1,1,2,2-Tetrachloroethane	(µg/L)	<0.28	<0.28	<0.1	0.2	0.02
1,1,1,2-Tetrachloroethane	(µg/L)	--	<0.15	<0.1	70	7
Tetrachloroethene	(µg/L)	<0.26	<0.26	<0.1	5	0.5
Toluene	(µg/L)	<0.4	<0.4	<0.4	1000	200
1,2,3-Trichlorobenzene	(µg/L)	<0.4	<0.4	<0.5	--	--
1,2,4-Trichlorobenzene	(µg/L)	<0.38	<0.38	<0.5	70	14
1,1,1-Trichloroethane	(µg/L)	<0.2	<0.2	<0.2	200	40
1,1,2-Trichloroethane	(µg/L)	<0.2	<0.2	<0.1	5	0.5
Total Trimethylbenzene	(µg/L)	<0.57	<0.57	<0.30	480	96
Trichloroethene	(µg/L)	<0.26	<0.26	<0.2	5	0.5
1,2,3-Trichloropropane	(µg/L)	--	<0.19	<0.55	--	--
Vinyl Chloride	(µg/L)	<0.39	<0.3	<0.1	0.2	0.02
Xylenes	(µg/L)	<0.57	<0.57	<0.57	10,000	1000
pH	st. units	7.30	--	--	--	--
Dissolved Chloride	(mg/L)	--	<b>934</b>	--	250	125
Dissolved Sulfate	(mg/L)	--	<b>58.1</b>	--	250	125

Notes:

ES = NR 140 Enforcement Standard  
PAL = NR 140 Preventive Action Limit

**NR 140 ES Exceedance**  
**NR 140 PAL Exceedance**

µg/L = micrograms per liter  
mg/L = milligrams per liter

**Table A.1 Groudwater Analytical Table**  
**New Pulp Storage Tank Area**  
**Domtar Industries**  
**Nekoosa, Wisconsin**

**B-15**

Sample Date		6/20/01	9/26/01	11/3/05	ES (ug/L)	PAL (ug/L)
Groundwater Elevation (MSL)		947.16	947.37	947.19		
Benzene	(µg/L)	<0.16	<0.16	<0.15	5	0.5
Bromobenzene	(µg/L)	<0.24	<0.24	<0.1	--	--
Bromochloromethane	(µg/L)	<0.2	<0.14	<0.1	-	-
Bromodichloromethane	(µg/L)	--	<0.2	<0.1	0.6	0.06
Bromoform	(µg/L)	--	<0.17	<0.2	4.4	0.44
Bromomethane	(µg/L)	--	<0.15	<0.15	10	1
sec-Butylbenzene	(µg/L)	<0.19	<0.19	<0.15	--	--
tert-Butylbenzene	(µg/L)	<0.18	<0.18	<0.15	--	--
n-Butylbenzene	(µg/L)	<0.24	<0.24	<0.2	--	--
Carbon Tetrachloride	(µg/L)	<0.3	<0.3	<0.2	5	0.5
Chloroform	(µg/L)	<0.24	<0.24	<0.1	6	0.6
Chlorobenzene	(µg/L)	<0.17	<0.17	<0.1	--	--
Chlorodibromomethane	(µg/L)	<0.22	<0.22	<0.1	-	-
Chloroethane	(µg/L)	<0.25	<0.25	<0.6	400	80
Chloromethane	(µg/L)	<0.15	<0.15	<0.2	3	0.3
2-Chlorotoluene	(µg/L)	<0.24	<0.24	<0.1	--	--
4-Chlorotoluene	(µg/L)	<0.27	<0.27	<0.2	--	--
1,2-Dibromo-3-Chloropropane	(µg/L)	--	--	--	0.2	0.02
1,2-Dibromoethane	(µg/L)	<0.19	<0.19	<0.1	0.05	0.005
Dibromomethane	(µg/L)	--	<0.15	<0.1	-	-
1,3-Dichlorobenzene	(µg/L)	<0.28	<0.28	<0.15	1250	125
1,4-Dichlorobenzene	(µg/L)	<0.27	<0.27	<0.75	75	15
1,2-Dichloroethane	(µg/L)	<0.28	<0.28	<0.1	5	0.5
1,2-Dichlorobenzene	(µg/L)	<0.36	<0.36	<0.75	600	60
1,1-Dichloroethene	(µg/L)	<0.38	<0.38	<0.15	7	0.7
cis 1,2-Dichloroethene	(µg/L)	<0.25	<0.25	<0.2	70	7
Dichlorodifluoromethane	(µg/L)	<0.25	<0.25	<0.25	1000	200
trans 1,2-Dichloroethene	(µg/L)	<0.25	<0.25	<0.1	100	20
1,2-Dichloropropane	(µg/L)	<0.35	<0.35	<0.1	5	0.5
1,1-Dichloroethane	(µg/L)	<0.38	<0.38	<0.15	850	85
1,3-Dichloropropane	(µg/L)	<0.26	<0.26	<0.1	-	-
2,2-Dichloropropane	(µg/L)	<0.29	<0.29	<0.1	--	--
1,1-Dichloropropene	(µg/L)	--	<0.36	<0.2	-	-
cis-1,3-Dichloropropene	(µg/L)	--	<0.3	<0.1	0.2	0.02
trans-1,3-Dichloropropene	(µg/L)	--	<0.18	<0.1	0.2	0.02
Di-isopropyl ether	(µg/L)	--	--	--	--	--
Ethylbenzene	(µg/L)	<0.5	<0.5	<0.1	700	140
Fluorotrichloromethane	(µg/L)	--	--	--	3490	698
Hexachlorobutadiene	(µg/L)	<1.0	<1.0	<1.0	--	--
Isopropylbenzene	(µg/L)	<0.17	<0.17	<0.1	--	--
p-Isopropyltoluene	(µg/L)	<0.19	<0.19	<0.2	--	--
Methylene Chloride	(µg/L)	<0.3	<0.3	<0.4	5	0.5
Methyl tert-butyl ether	(µg/L)	<0.3	<0.3	<0.1	60	12
Naphthalene	(µg/L)	<0.8	<0.8	<1.0	40	8
n-Propylbenzene	(µg/L)	<0.16	<0.16	<0.1	--	--
Styrene	(µg/L)	--	<0.18	<0.1	100	10
1,1,2,2-Tetrachloroethane	(µg/L)	<0.28	<0.28	<0.1	0.2	0.02
1,1,1,2-Tetrachloroethane	(µg/L)	--	<0.15	<0.1	70	7
Tetrachloroethene	(µg/L)	<0.26	<0.26	<0.1	5	0.5
Toluene	(µg/L)	<0.4	<0.4	<0.4	1000	200
1,2,3-Trichlorobenzene	(µg/L)	<0.4	<0.4	<0.5	--	--
1,2,4-Trichlorobenzene	(µg/L)	<0.38	<0.38	<0.5	70	14
1,1,1-Trichloroethane	(µg/L)	<0.2	<0.2	<0.2	200	40
1,1,2-Trichloroethane	(µg/L)	<0.2	<0.2	<0.1	5	0.5
Total Trimethylbenzene	(µg/L)	0.26	<0.57	<0.30	480	96
Trichloroethene	(µg/L)	<0.26	<0.26	<0.2	5	0.5
1,2,3-Trichloropropane	(µg/L)	--	<0.19	<0.55	--	--
Vinyl Chloride	(µg/L)	<0.39	<0.3	<0.15	0.2	0.02
Xylenes	(µg/L)	<0.57	<0.57	<0.5	10,000	1000
pH	st. units	7.40	--	--	--	--
Dissolved Chloride	(mg/L)	--	<b>449</b>	--	250	125
Dissolved Sulfate	(mg/L)	--	232	--	250	125

Notes:

ES = NR 140 Enforcement Standard  
PAL = NR 140 Preventive Action Limit  
**NR 140 ES Exceedance**  
*NR 140 PAL Exceedance*  
µg/L = micrograms per liter  
mg/L = milligrams per liter

**Table A.1 Groudwater Analytical Table**  
**New Pulp Storage Tank Area**  
**Domtar Industries**  
**Nekoosa, Wisconsin**

**B-17**

Sample Date		6/20/01	9/26/01	11/3/05	ES (ug/L)	PAL (ug/L)
Groundwater Elevation (MSL)		946.12	946.26	946.09		
Benzene	(µg/L)	<0.16	<0.16	<0.15	5	0.5
Bromobenzene	(µg/L)	<0.24	<0.24	<0.1	--	--
Bromochloromethane	(µg/L)	<0.2	<0.14	<0.1	-	-
Bromodichloromethane	(µg/L)	--	<0.2	<0.1	0.6	0.06
Bromoform	(µg/L)	--	<0.17	<0.2	4.4	0.44
Bromomethane	(µg/L)	--	<0.15	<0.15	10	1
sec-Butylbenzene	(µg/L)	<0.19	<0.19	<0.15	--	--
tert-Butylbenzene	(µg/L)	<0.18	<0.18	<0.15	--	--
n-Butylbenzene	(µg/L)	<0.24	<0.24	<0.2	--	--
Carbon Tetrachloride	(µg/L)	<0.3	<0.3	<0.2	5	0.5
Chloroform	(µg/L)	<0.24	0.252	<0.1	6	0.6
Chlorobenzene	(µg/L)	<0.17	<0.17	<0.1	--	--
Chlorodibromomethane	(µg/L)	<0.22	<0.22	<0.1	-	-
Chloroethane	(µg/L)	<0.25	<0.25	<0.6	400	80
Chloromethane	(µg/L)	<0.15	<0.15	<0.2	3	0.3
2-Chlorotoluene	(µg/L)	<0.24	<0.24	<0.1	--	--
4-Chlorotoluene	(µg/L)	<0.27	<0.27	<0.2	--	--
1,2-Dibromo-3-Chloropropane	(µg/L)	--	--	--	0.2	0.02
1,2-Dibromoethane	(µg/L)	<0.19	<0.19	<0.1	0.05	0.005
Dibromomethane	(µg/L)	--	<0.15	<0.1	-	-
1,3-Dichlorobenzene	(µg/L)	<0.28	<0.28	<0.15	1250	125
1,4-Dichlorobenzene	(µg/L)	<0.27	<0.27	<0.75	75	15
1,2-Dichloroethane	(µg/L)	<0.28	<0.28	<0.1	5	0.5
1,2-Dichlorobenzene	(µg/L)	<0.36	<0.36	<0.75	600	60
1,1-Dichloroethene	(µg/L)	<0.38	<0.38	<0.15	7	0.7
cis 1,2-Dichloroethene	(µg/L)	<0.25	<0.25	<0.2	70	7
Dichlorodifluoromethane	(µg/L)	<0.25	<0.25	<0.25	1000	200
trans 1,2-Dichloroethene	(µg/L)	<0.25	<0.25	<0.1	100	20
1,2-Dichloropropane	(µg/L)	<0.35	<0.35	<0.1	5	0.5
1,1-Dichloroethane	(µg/L)	<0.38	<0.38	<0.15	850	85
1,3-Dichloropropane	(µg/L)	<0.26	<0.26	<0.1	-	-
2,2-Dichloropropane	(µg/L)	<0.29	<0.29	<0.1	--	--
1,1-Dichloropropene	(µg/L)	--	<0.36	<0.2	-	-
cis-1,3-Dichloropropene	(µg/L)	--	<0.3	<0.1	0.2	0.02
trans-1,3-Dichloropropene	(µg/L)	--	<0.18	<0.1	0.2	0.02
Di-isopropyl ether	(µg/L)	--	--	--	--	--
Ethylbenzene	(µg/L)	<0.5	<0.5	<0.1	700	140
Fluorotrichloromethane	(µg/L)	--	--	--	3490	698
Hexachlorobutadiene	(µg/L)	<1.0	<1.0	<1.0	--	--
Isopropylbenzene	(µg/L)	<0.17	<0.17	<0.1	--	--
p-Isopropyltoluene	(µg/L)	<0.19	<0.19	<0.2	--	--
Methylene Chloride	(µg/L)	<0.3	<0.3	<0.4	5	0.5
Methyl tert-butyl ether	(µg/L)	<0.3	<0.3	<0.1	60	12
Naphthalene	(µg/L)	<0.8	<0.8	<1.0	40	8
n-Propylbenzene	(µg/L)	<0.16	<0.16	<0.1	--	--
Styrene	(µg/L)	--	<0.18	<0.1	100	10
1,1,2,2-Tetrachloroethane	(µg/L)	<0.28	<0.28	<0.1	0.2	0.02
1,1,1,2-Tetrachloroethane	(µg/L)	--	<0.15	<0.1	70	7
Tetrachloroethene	(µg/L)	<0.26	<0.26	<0.1	5	0.5
Toluene	(µg/L)	<0.4	<0.4	<0.4	1000	200
1,2,3-Trichlorobenzene	(µg/L)	<0.4	<0.4	<0.5	--	--
1,2,4-Trichlorobenzene	(µg/L)	<0.38	<0.38	<0.5	70	14
1,1,1-Trichloroethane	(µg/L)	<0.2	<0.2	<0.2	200	40
1,1,2-Trichloroethane	(µg/L)	<0.2	<0.2	<0.1	5	0.5
Total Trimethylbenzene	(µg/L)	<0.57	<0.57	<0.30	480	96
Trichloroethene	(µg/L)	<0.26	<0.26	<0.2	5	0.5
1,2,3-Trichloropropane	(µg/L)	--	<0.19	<0.55	--	--
Vinyl Chloride	(µg/L)	<0.39	<0.3	<0.15	0.2	0.02
Xylenes	(µg/L)	<0.57	<0.57	<0.5	10,000	1000
pH	st. units	6.60	--	--	--	--
Dissolved Chloride	(mg/L)	--	<b>745</b>	--	250	125
Dissolved Sulfate	(mg/L)	--	<b>140</b>	--	250	125

Notes:

ES = NR 140 Enforcement Standard  
PAL = NR 140 Preventive Action Limit  
**NR 140 ES Exceedance**  
*NR 140 PAL Exceedance*  
µg/L = micrograms per liter  
mg/L = milligrams per liter

**Table A.2. - Pre-remedial Soil Analytical Table  
Domtar – New Pulp Storage Tank Area  
Nekoosa, Wisconsin**

There was no remedial action implemented for this case, therefore, no pre-remedial soil samples were collected. The scope of work for a site investigation was discussed with the WDNR at a meeting on July 27, 1995. It was agreed that construction of the new tanks could proceed after samples of the soil that was to remain in place beneath the tanks were collected. Additional exploration outside the footprint of the tanks was to be conducted after construction activities were complete. See Table A.4 for all soil sample analytical data.

**Table A.3. - Post-remedial Soil Analytical Table  
Domtar – New Pulp Storage Tank Area  
Nekoosa, Wisconsin**

There was no remedial action implemented for this case, therefore, no post-remedial soil samples were collected. The scope of work for a site investigation was discussed with the WDNR at a meeting on July 27, 1995. It was agreed that construction of the new tanks could proceed after samples of the soil that was to remain in place beneath the tanks were collected. Additional exploration outside the footprint of the tanks was to be conducted after construction activities were complete. See Table A.4 for all soil sample analytical data.

**Table A.4; Pre and Post Remaining Soil Contamination Soil Analytical Table (VOCs)**

**New Pulp Storage Tank Area**

**Domtar Industries**

**Nekoosa, Wisconsin**

	NR 720 RCL s			Sample No. Sample Depth (ft)	HA-1	HA-2	HA-2B	HA-3	HA-4	HA-5	HA-6	HA-7	HA-8	HA-9	HA-10	HA-11	HA-12	HA-13	HA-14	HA-15	HA-16
	Groundwater Pathway	Direct Contact Non-Industrial	Direct Contact Industrial		10.0	4.5 - 6.5	4.5	4.5 - 6.5	7.5 - 9.5	4.5 - 6.5	7.5 - 9.5	7.5	7.5 - 9.5	5.0 - 6.0	7.5 - 9.5	5.0 - 6.0	4.5 - 6.5	5.0 - 6.0	7.5 - 9.5	5.0 - 6.0	4.5 - 6.5
<b>VOCs</b>				(units)																	
n-Butylbenzene	--	108,000	108,000	(ug/kg)	ND	ND	ND	ND	ND	ND	7970	ND	143000	ND							
sec-Butylbenzene	--	145,000	145,000	(ug/kg)	ND	ND	ND	ND	ND	ND	8850	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	--	162,000	162,000	(ug/kg)	ND	ND	ND	ND	ND	ND	10900	ND	<b>700000</b>	ND	ND	ND	ND	53	62	ND	<b>6880000</b>
Methylene Chloride	--	--	--	(ug/kg)	18	7	23	14	16	13	517	35	691	25	11	17	5.9	9.2	34	12	ND
Naphthalene	329.4	5,150	26,000	(ug/kg)	ND	ND	ND	ND	ND	ND	<b>543</b>	ND	<b>1120</b>	ND							
n-Propylbenzene	--	264,000	264,000	(ug/kg)	ND	ND	ND	ND	ND	ND	1940	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	554	818,000	818,000	(ug/kg)	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	--	89,800	219,000	(ug/kg)	ND	ND	ND	ND	ND	ND	6790	ND	16700	ND	<b>446000</b>						
1,3,5-Trimethylbenzene	--	182,000	182,000	(ug/kg)	ND	ND	ND	ND	ND	ND	3220	ND	ND	ND	ND	ND	ND	ND	ND	ND	9110
Xylenes	1970	258,000	258,000	(ug/kg)	11.4	ND	ND	ND	ND	ND	189	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

RCL = Residual Contaminant Level

**400** = RCL Pathway Exceedance

Table A.4; Pre and Post Remaining Soil Contamination Soil Analytical Table (VOCs)

New Pulp Storage Tank Area

Domtar Industries

Nekoosa, Wisconsin

VOCs	NR 720 RCLs			Sample No. Sample Depth (ft)	B-6A 10.0	B-8/S-3 4.5 - 6.5	B-9/S-3A 4.5	B-10/S-3 4.5 - 6.5	B-10/S-4 7.5 - 9.5	B-11/S-3 4.5 - 6.5	B-11/S-4 7.5 - 9.5	B-12/S-4A 7.5	B-13/S-4 7.5 - 9.5	B-14/S-3A 5.0 - 6.0	B-14/S-4 7.5 - 9.5	B-15/S-3 5.0 - 6.0	B-16/S-3 4.5 - 6.5
	Groundwater Pathway	Direct Contact Non-Industrial	Direct Contact Industrial														
Benzene	2.6	1,490	7,410	(units)	<59	<25	<90	<25	<25	<25	<25	<90	<25	<25	<25	<25	<25
Bromobenzene	--	--	--	(ug/kg)	<131	<25	<203	<25	<25	<25	<25	<203	<25	<25	<25	<25	<25
Bromochloromethane	--	--	--	(ug/kg)	<439	<25	<65	<25	<25	<25	<25	<65	<25	<25	<25	<25	<25
Bromodichloromethane	--	--	--	(ug/kg)	<95	<25	<130	<25	<25	<25	<25	<130	<25	<25	<25	<25	<25
Bromoform	--	--	--	(ug/kg)	<178	<25	<192	<25	<25	<25	<25	<192	<25	<25	<25	<25	<25
Bromomethane	--	--	--	(ug/kg)	<142	<25	<130	<25	<25	<25	<25	<130	<25	<25	<25	<25	<25
n-Butylbenzene	--	108,000	108,000	(ug/kg)	<226	<25	<104	<25	<25	<25	<25	<104	<25	870	<25	<25	<25
sec-Butylbenzene	--	145,000	145,000	(ug/kg)	<178	<25	<62	<25	<25	<25	<25	<62	<25	708	<25	<25	<25
tert-Butylbenzene	--	183,000	183,000	(ug/kg)	<237	<25	<150	<25	<25	<25	<25	<150	<25	<25	<25	<25	<25
Carbon Tetrachloride	--	--	--	(ug/kg)	<237	<25	<147	<25	<25	<25	<25	<147	<25	<25	<25	<25	<25
Chlorobenzene	--	--	--	(ug/kg)	<131	<25	<104	<25	<25	<25	<25	<104	<25	<25	<25	<25	<25
Chloroethane	--	--	--	(ug/kg)	<142	<25	<141	<25	<25	<25	<25	<141	<25	<25	<25	<25	<25
Chloroform	--	--	--	(ug/kg)	<95	<25	<119	<25	<25	<25	<25	<119	<25	<25	<25	<25	<25
Chloromethane	--	--	--	(ug/kg)	<131	<25	<124	<25	<25	<25	<25	<124	<25	<25	<25	<25	<25
2-Chlorotoluene	--	--	--	(ug/kg)	<95	<25	<118	<25	<25	<25	<25	<118	<25	<25	<25	<25	<25
4-Chlorotoluene	--	--	--	(ug/kg)	<83	<25	<118	<25	<25	<25	<25	<118	<25	<25	<25	<25	<25
Dibromochloromethane	--	--	--	(ug/kg)	<95	<25	<206	<25	<25	<25	<25	<206	<25	<25	<25	<25	<25
1,2-Dibromo-3-Chloropropane	--	--	--	(ug/kg)	<404	<25	<90	<25	<25	<25	<25	<90	<25	<25	<25	<25	<25
1,2-Dibromoethane	--	--	--	(ug/kg)	<131	<25	<243	<25	<25	<25	<25	<243	<25	<25	<25	<25	<25
Dibromomethane	--	--	--	(ug/kg)	<131	<25	<93	<25	<25	<25	<25	<93	<25	<25	<25	<25	<25
1,2-Dichlorobenzene	--	1,410,000	92,000,000	(ug/kg)	<107	<25	<200	<25	<25	<25	<25	<200	<25	<25	<25	<25	<25
1,3-Dichlorobenzene	--	--	--	(ug/kg)	<131	<25	<87	<25	<25	<25	<25	<87	<25	<25	<25	<25	<25
1,4-Dichlorobenzene	72	3480	17500	(ug/kg)	<83	<25	<135	<25	<25	<25	<25	<135	<25	<25	<25	<25	<25
Dichlorodifluoromethane	--	--	--	(ug/kg)	<154	<25	<124	<25	<25	<25	<25	<124	<25	<25	<25	<25	<25
1,1-Dichloroethane	--	--	--	(ug/kg)	<190	<25	<104	<25	<25	<25	<25	<104	<25	<25	<25	<25	<25
1,2-Dichloroethane	4.9	--	--	(ug/kg)	<131	<25	<127	<25	<25	<25	<25	<127	<25	<25	<25	<25	<25
1,1-Dichloroethene	--	--	--	(ug/kg)	<178	<25	<155	<25	<25	<25	<25	<155	<25	<25	<25	<25	<25
cis 1,2-Dichloroethene	--	--	--	(ug/kg)	<249	<25	<99	<25	<25	<25	<25	<99	<25	<25	<25	<25	<25
trans 1,2-Dichloroethene	--	--	--	(ug/kg)	<131	<25	<101	<25	<25	<25	<25	<101	<25	<25	<25	<25	<25
1,2-Dichloropropane	--	--	--	(ug/kg)	<83	<25	<104	<25	<25	<25	<25	<104	<25	<25	<25	<25	<25
1,3-Dichloropropane	--	--	--	(ug/kg)	<83	<25	<161	<25	<25	<25	<25	<161	<25	<25	<25	<25	<25
2,2-Dichloropropane	--	--	--	(ug/kg)	<178	<25	<214	<25	<25	<25	<25	<214	<25	<25	<25	<25	<25
1,1-Dichloropropene	--	--	--	(ug/kg)	<190	<25	<214	<25	<25	<25	<25	<214	<25	<25	<25	<25	<25
cis-1,3-Dichloropropene	--	--	--	(ug/kg)	<107	<25	<110	<25	<25	<25	<25	<110	<25	<25	<25	<25	<25
trans-1,3-Dichloropropene	--	--	--	(ug/kg)	<131	<25	<102	<25	<25	<25	<25	<102	<25	<25	<25	<25	<25
Ethylbenzene	785	7,470	37,000	(ug/kg)	<71	<25	1550	<25	<25	<25	<25	1810	<25	<25	<25	<25	<25
Hexachlorobutadiene	--	--	--	(ug/kg)	<119	<25	<164	<25	<25	<25	<25	<164	<25	<25	<25	<25	<25
Isopropylbenzene	--	268,000	268,000	(ug/kg)	<71	<25	<45	<25	<25	<25	<25	<45	<25	<25	<25	<25	<25
p-Isopropyltoluene	--	162,000	162,000	(ug/kg)	179,000	<25	10,400,000	<25	<25	<25	<25	9,520,000	<25	184	<25	<25	<25
Methylene Chloride	--	--	--	(ug/kg)	<534	90	730	129	88	91	<67	<669	84	78	<67	<67	87
Naphthalene	329.4	5,150	26,000	(ug/kg)	<119	<25	<71	<25	<25	<25	<25	<71	<25	1700	<25	<25	<25
n-Propylbenzene	--	264,000	264,000	(ug/kg)	<95	<25	<99	<25	<25	<25	<25	<99	<25	176	<25	<25	<25
Styrene	--	--	--	(ug/kg)	<71	<25	<152	<25	<25	<25	<25	<152	<25	<25	<25	<25	<25
1,1,1,2-Tetrachloroethane	--	--	--	(ug/kg)	<83	<25	<96	<25	<25	<25	<25	<96	<25	<25	<25	<25	<25
1,1,1,2,2-Tetrachloroethane	--	--	--	(ug/kg)	<214	<25	<135	<25	<25	<25	<25	<135	<25	<25	<25	<25	<25
Tetrachloroethene	--	--	--	(ug/kg)	<107	<25	<240	<25	<25	<25	<25	<240	<25	<25	<25	<25	<25
Toluene	554	818,000	818,000	(ug/kg)	<71	<25	<42	<25	<25	<25	<25	755	<25	<25	<25	<25	<25
1,2,3-Trichlorobenzene	--	--	--	(ug/kg)	<131	<25	<150	<25	<25	<25	<25	<150	<25	<25	<25	<25	<25
1,2,4-Trichlorobenzene	--	--	--	(ug/kg)	<142	<25	<169	<25	<25	<25	<25	<169	<25	<25	<25	<25	<25
1,1,1-Trichloroethane	--	--	--	(ug/kg)	<332	<25	<76	<25	<25	<25	<25	<76	<25	<25	<25	<25	<25
1,1,2-Trichloroethane	--	--	--	(ug/kg)	<190	<25	<90	<25	<25	<25	<25	<90	<25	<25	<25	<25	<25
Trichloroethene	--	--	--	(ug/kg)	<83	<25	<127	<25	<25	<25	<25	<127	<25	<25	<25	<25	<25
Trichlorofluoromethane	--	--	--	(ug/kg)	<142	<25	<150	<25	<25	<25	<25	<150	<25	<25	<25	<25	<25
1,2,3-Trichloropropane	--	--	--	(ug/kg)	<273	<25	<99	<25	<25	<25	<25	<99	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	--	89,800	219,000	(ug/kg)	<202	<25	<99	<25	<25	<25	<25	<99	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	--	182,000	182,000	(ug/kg)	<107	<25	<104	<25	<25	<25	<25	<104	<25	<25	<25	<25	<25
Vinyl Chloride	--	--	--	(ug/kg)	<154	<25	<124	<25	<25	<25	<25	<124	<25	<25	<25	<25	<25
Xylenes	1970	258,000	258,000	(ug/kg)	<261	<25	<282	<50	<50	<50	<50	<282	<50	<50	<50	<50	<50

Notes:

RCL = Residual Contaminant Level

400 = RCL Groundwater Pathway Exceedance

**Table A.5. – Vapor Analytical Table  
Domtar – New Pulp Storage Tank Area  
Nekoosa, Wisconsin**

The location of the subsurface impact is not located under any inhabited structure, therefore no vapor collection was conducted and there is no vapor summary table

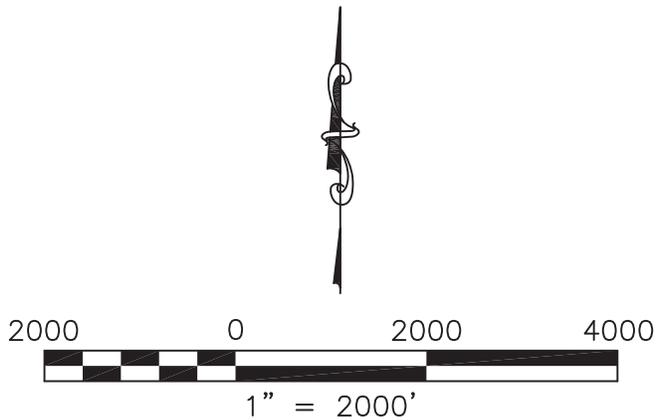
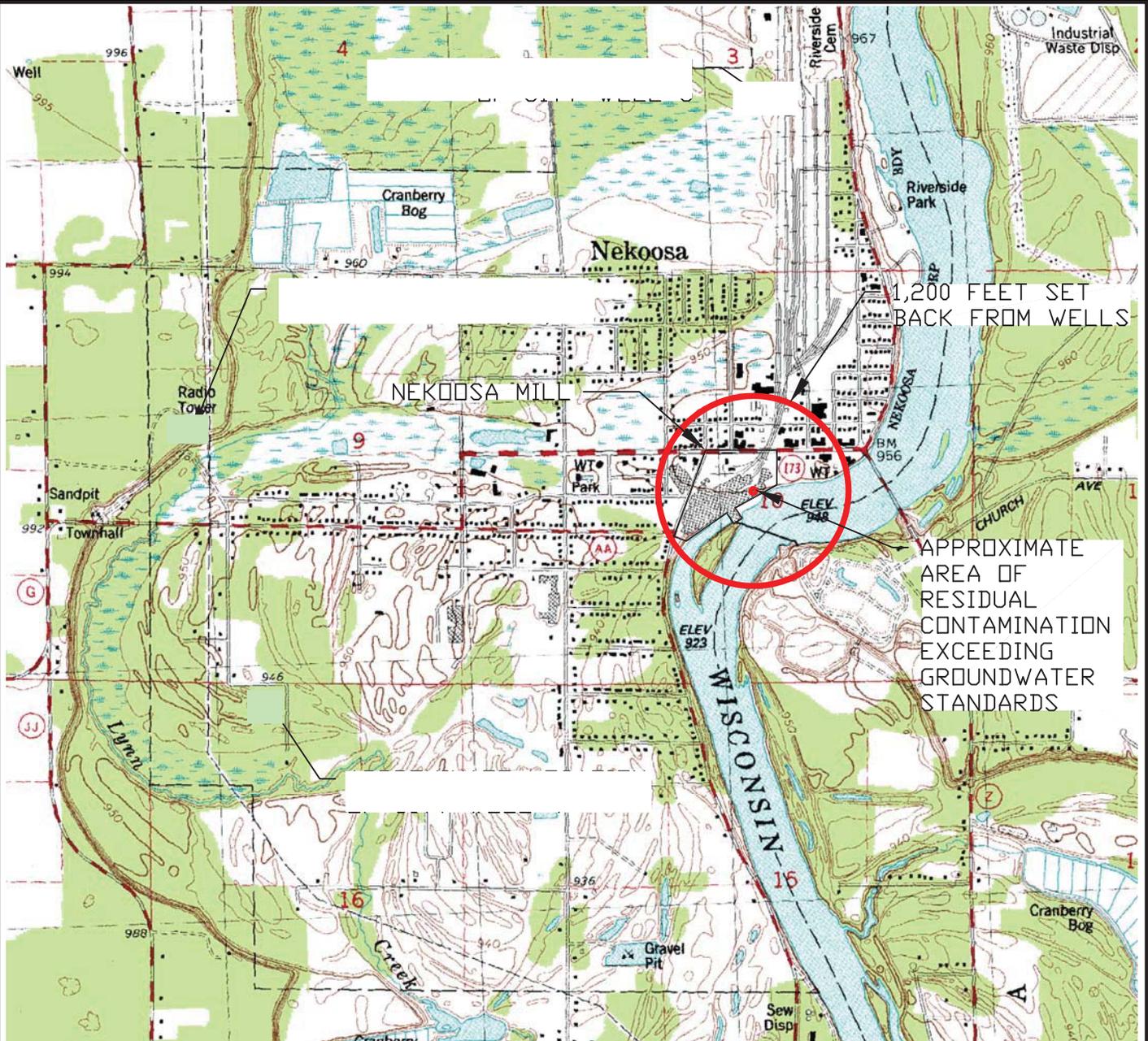
**Table A.6. – Other Media of Concern  
Domtar – New Pulp Tank Storage Area  
Nekoosa, Wisconsin**

The spill was isolated and there was no other media of concern. Therefore other media was not collected and analyzed. There are no other media of concern analytical tables.

**Table A.7. Water Level Elevations  
New Pulp Storage Tank Area  
Domtar Industries  
Nekoosa, Wisconsin**

Well Number	Top of Casing (TOC) Elevation (ft msl)	8/16/96		5/19/97		12/11/97		6/21/01		9/26/01		11/3/05	
		Depth to Water (ft)	Water Elevation (ft msl)	Depth to Water (ft)	Water Elevation (ft msl)	Depth to Water (ft)	Water Elevation (ft msl)	Depth to Water (ft)	Water Elevation (ft msl)	Depth to Water (ft)	Water Elevation (ft msl)	Depth to Water (ft)	Water Elevation (ft msl)
B-9	954.48	7.54	946.94	7.4	947.08	7.8	946.68	7.71	946.77	7.28	947.2	7.27	947.21
B-13	955.18	8.25	946.93	8.3	946.88	10.6	944.58	8.29	946.89	8.12	947.06	8.17	947.01
B-15	954.23	7.42	946.81	7.1	947.13	7.2	947.03	7.07	947.16	6.86	947.37	7.04	947.19
B-17	954.35	--	--	--	--	--	--	8.23	946.12	8.09	946.26	8.26	946.09

ANSI A 8.5" x 11" Approved: --- Checked: --- Designer: --- Project Management Initials: ---  
Last saved by: KYLES1(2014-05-02) Last Plotted: 2014-05-02  
Filename: \\USOSH\1\FP001\12PROJECTS\PROJECTS\60319870\_OPEN BRRTS ENV SUPPORT\900-WORKING DOCS-CAD\GIS CLOSURE PACKET\B.1A-LOCATION MAP.DWG



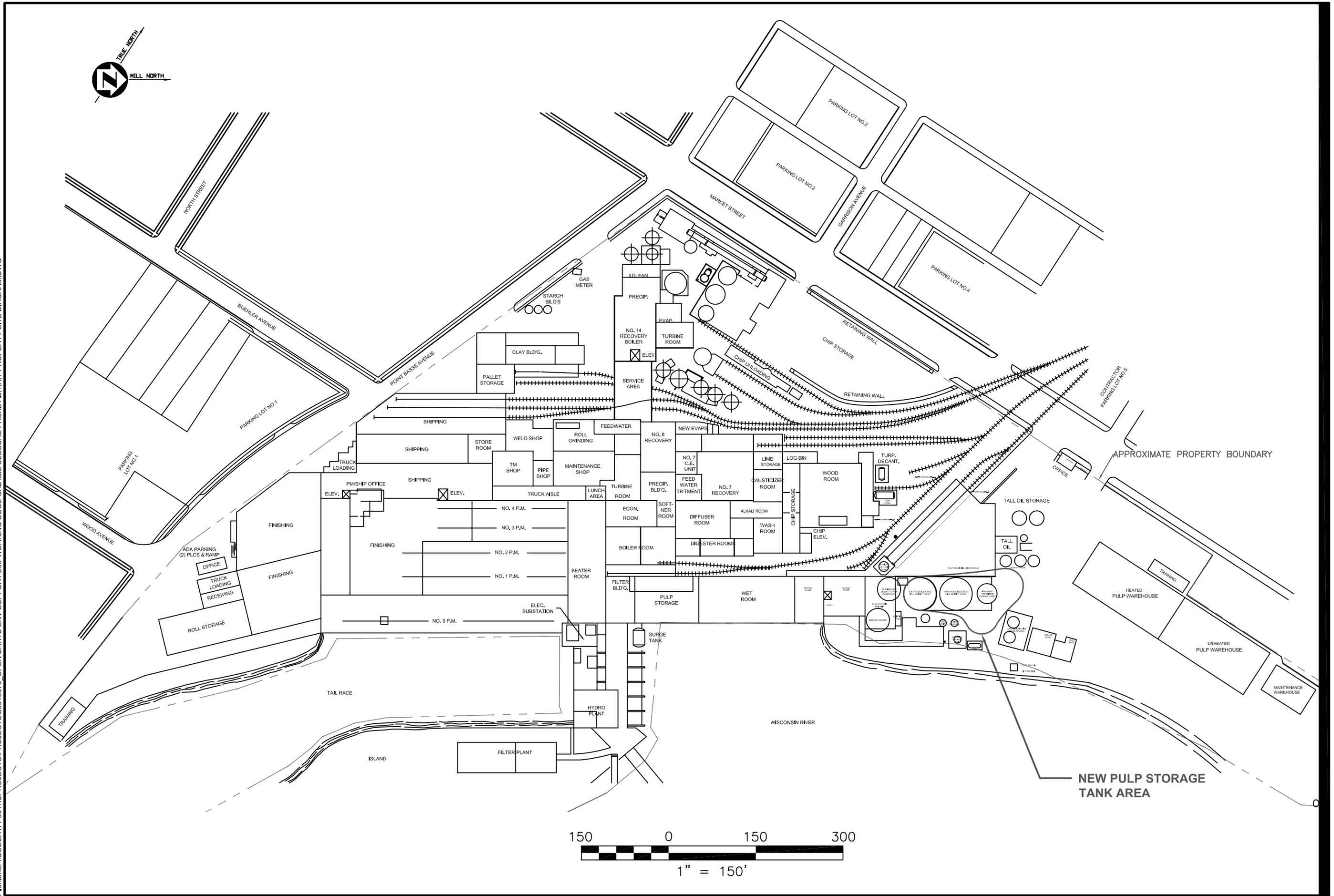
MAP SOURCE: MODIFIED FROM NEKOOSA, WIS, U.S.G.S. QUADRANGLE, DATED 1984

**New Pulp Storage Tank Area**  
**BRRTS No. 02-72-195036**  
Domtar, Nekoosa, Wisconsin  
Project No.: 60319870 2014-05-02

**LOCATION MAP**



**FIGURE B.1.a.**



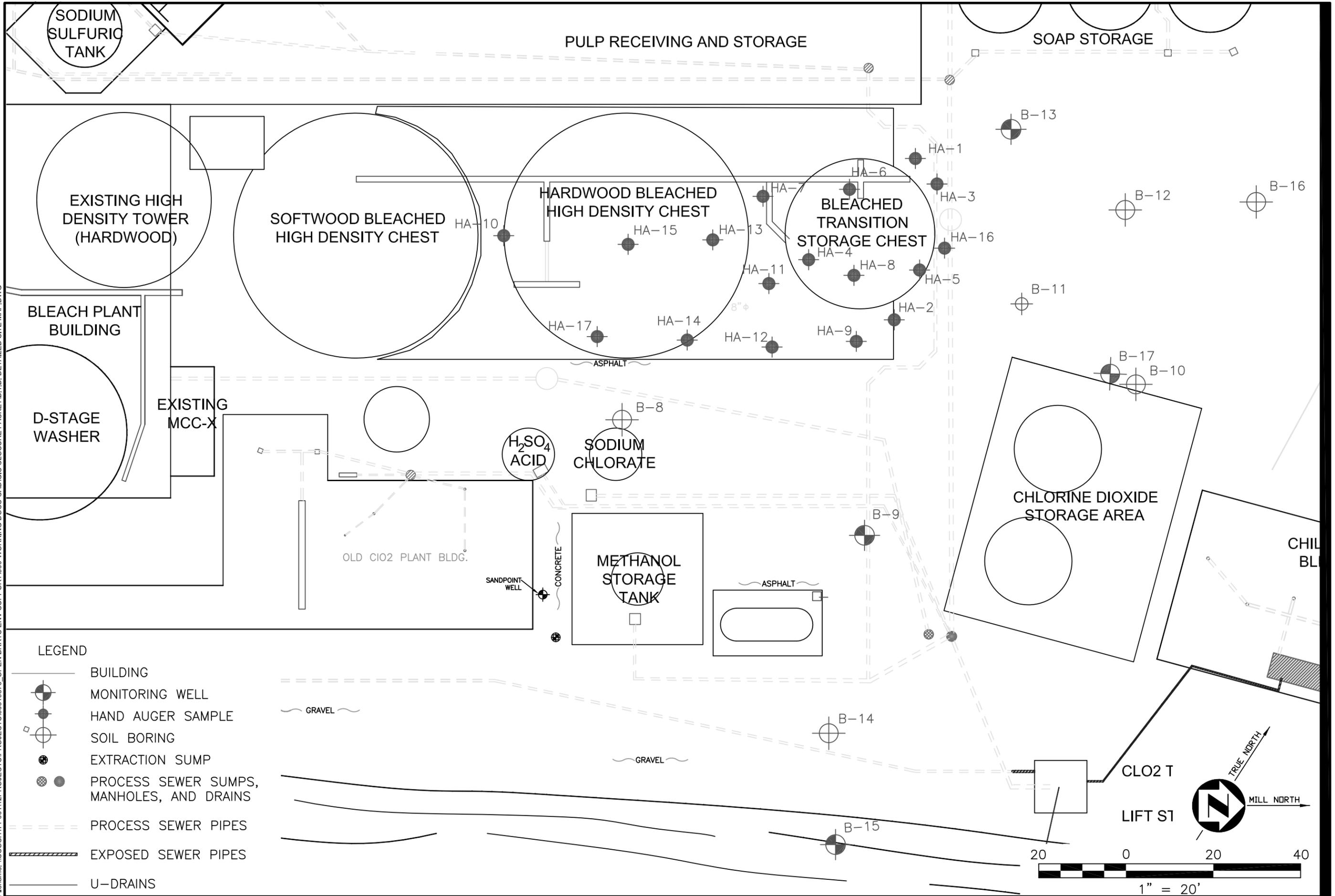
PROPERTY SITE DIAGRAM

New Pulpe Storage Tank Area  
BRRTS No. 02-72-195036  
Domtar, Nekoosa, Wisconsin  
Project No.: 60319870 2014-05-02



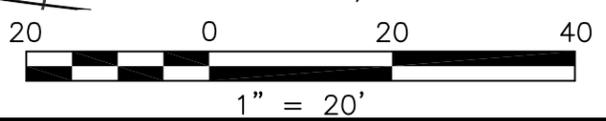
FIGURE B.1.a.1

Last saved by: KYLES(2014-05-02) Last Plotted: 2014-05-02  
 Filename: \USOSH\PROJECTS\PROJECTS\60319870\_OPEN BRRTS ENV SUPPORT\900-WORKING DOCS-CAD\GIS CLOSURE PACKET\B.1.B.-DETAILED SITE MAP.DWG  
 Project Management Initials: Designer: -- Checked: -- Approved: --  
 ANSIB 11" x 17"



**LEGEND**

-  BUILDING
-  MONITORING WELL
-  HAND AUGER SAMPLE
-  SOIL BORING
-  EXTRACTION SUMP
-  PROCESS SEWER SUMPS, MANHOLES, AND DRAINS
-  PROCESS SEWER PIPES
-  EXPOSED SEWER PIPES
-  U-DRAINS



Last saved by: KYLES1(2014-05-02) Last Plotted: 2014-05-02  
 Filename: \\USOSH1\FP00112\PROJECTS\PROJECTS\60319870\_OPEN BRRTS ENVY SUPPORT\9000-WORKING DOCS-CADIGIS CLOSURE PACKET\B.1.C-RR SITE MAP.DWG  
 Project Management Initials: Designer: Checked: Approved: ANSI A 8.5" x 11"



Map created on Sep 12, 2013  
 Note: Not all RR Sites have been geo-located yet.



**BRRTS SITES ON THE SUBJECT PROPERTY**

#	BRRTS NO.	NAME
1	0272195035	NEKOOSA PAPERS SULFURIC ACID SPILL
2	0272195034	NEKOOSA PAPERS NEW CHEMICAL STORAGE AREA
3	0272195029	NEKOOSA PAPERS EVAPORATOR SEWER FAILURE
4	0272000464	NEKOOSA PAPERS NEKOOSA MILL
5	0372000254	NEKOOSA PAPERS
6	0272195036	NEKOOSA PAPERS NEW PULP STORAGE TNK AREA
7	0272195027	NEKOOSA PAPERS TRAIN SHED RECONSTR AREA
8	0272195031	NEKOOSA PAPERS COLLAPSED SEWER WOOD RM
9	0372001077	NEKOOSA WOODYARD
10	772052930	NEKOOSA PAPERS NEW ALKALI PLT WEAK WASH

**BRRTS SITES NEAR THE SUBJECT PROPERTY**

#	BRRTS NO.	NAME
11	0372000048	RESHESKE INC
12	0372099210	NEKOOSA PHILLIPS
13	0372000901	EFFLUENT TREATMENT PLT

**Legend**

- Open Sites (ongoing cleanups)
- Open Sites (ongoing cleanups) - site boundaries shown
- Closed Sites (completed cleanups)
- Closed Sites (completed cleanups) - site boundaries shown
- County Boundary
- Railroads
- County Roads (WDOT)
- County Trunk Highway
- State and U.S. Highways (WDOT)
- State Trunk Highway
- US Highway
- Interstate Highways (WDOT)
- Interstate Highway
- Local Roads (WDOT)
- Civil Towns
- Civil Town
- 24K Open Water
- 24K Rivers and Shorelines
- Municipalities

**New Pulp Storage Tank Areas**  
**BRRTS No. 02-72-195036**  
 Domtar, Nekoosa, Wisconsin  
 Project No.: 60319870 2014-05-02

**RR SITE MAP**

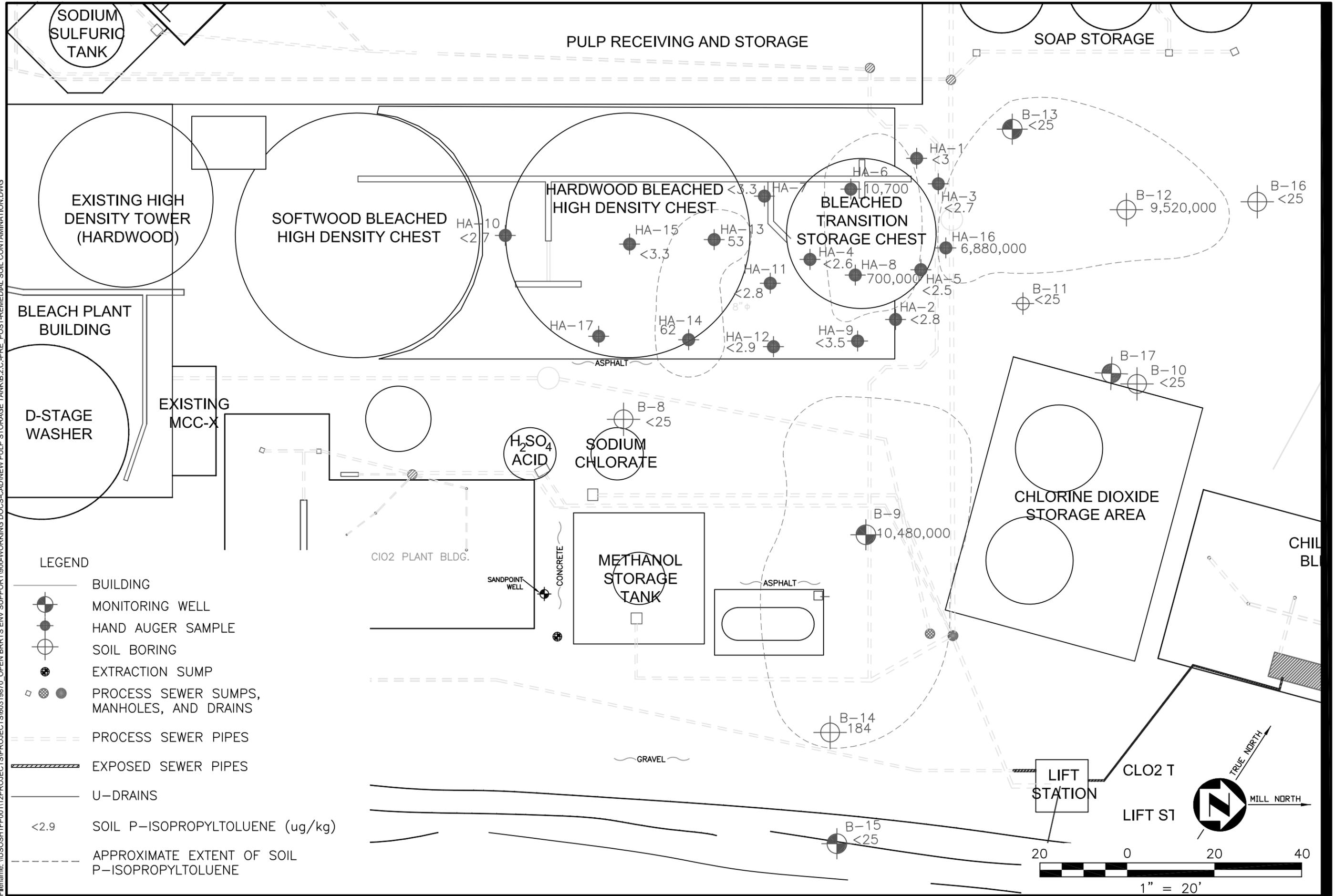


**FIGURE B.1.c**

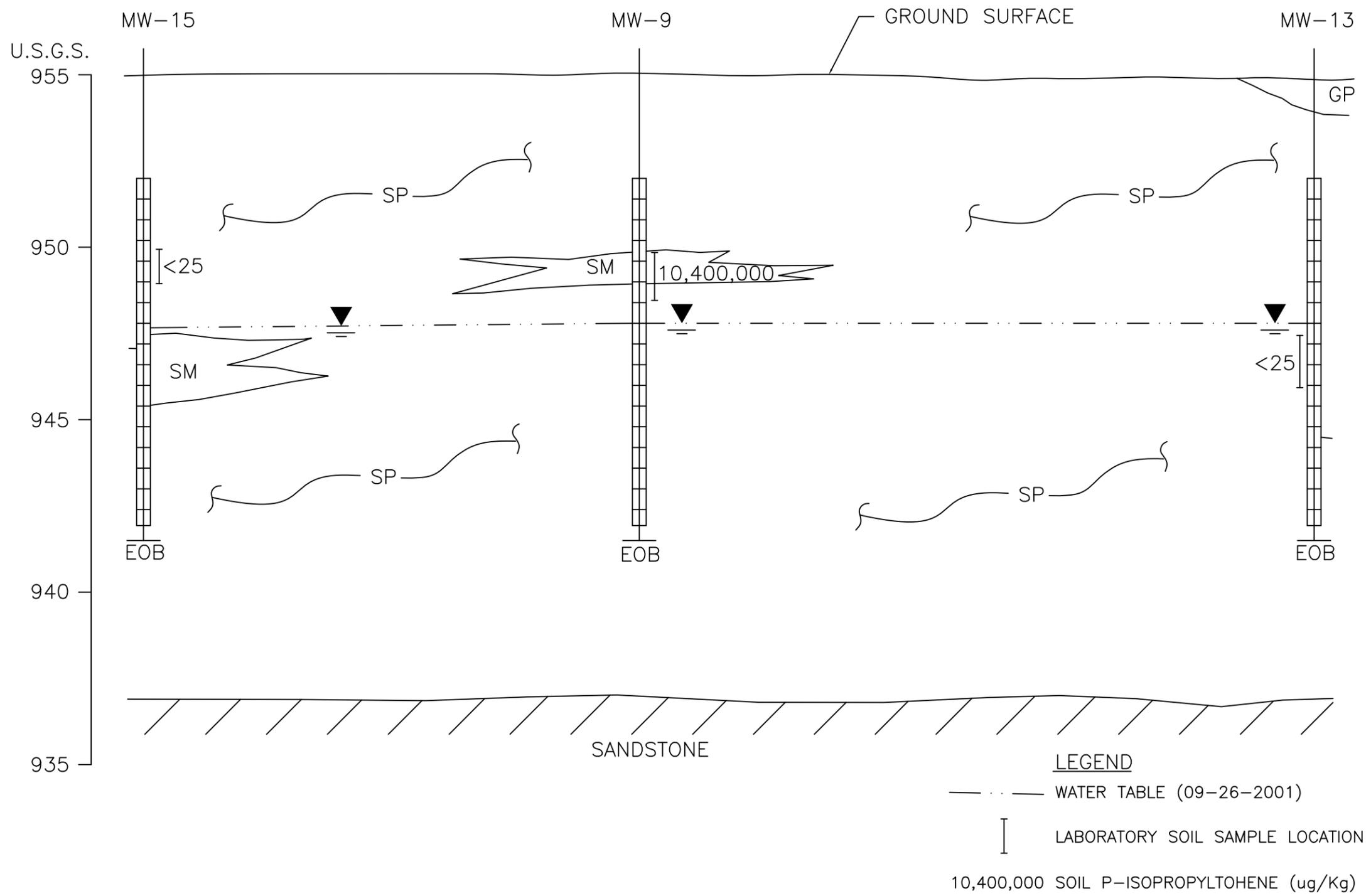
NO REMEDIAL ACTION WAS IMPLEMENTED ON SITE, THEREFORE PRE-REMEDIAL SOIL ANALYTICAL DATA WAS NOT OBTAINED. SEE FIGURE B.2.c WHICH DEPICTS ALL SAMPLING PERFORMED.

NO REMEDIAL ACTION WAS IMPLEMENTED ON SITE, THEREFORE, NO POST-REMEDIAL SAMPLING WAS PERFORMED, SEE FIGURE B.2.c FOR PRE AND POST-REMEDIAL SAMPLING, WHICH SHOWS ALL SAMPLING PERFORMED.

Last saved by: KYLES (2014-05-09) Last Plotted: 2014-05-16  
 Filename: \\USOSH\H\F\00112\PROJECTS\PROJECTS\60319870\_OPEN BRRTS ENV SUPPORT\900-WORKING DOCS-CAD\NEW PULP STORAGE TANK\B.2.C-PRE-POST-REMEDIAL SOIL CONTAMINATION.DWG  
 Project Management Initials: Designer: Checked: Approved: ANSIB 11" x 17"

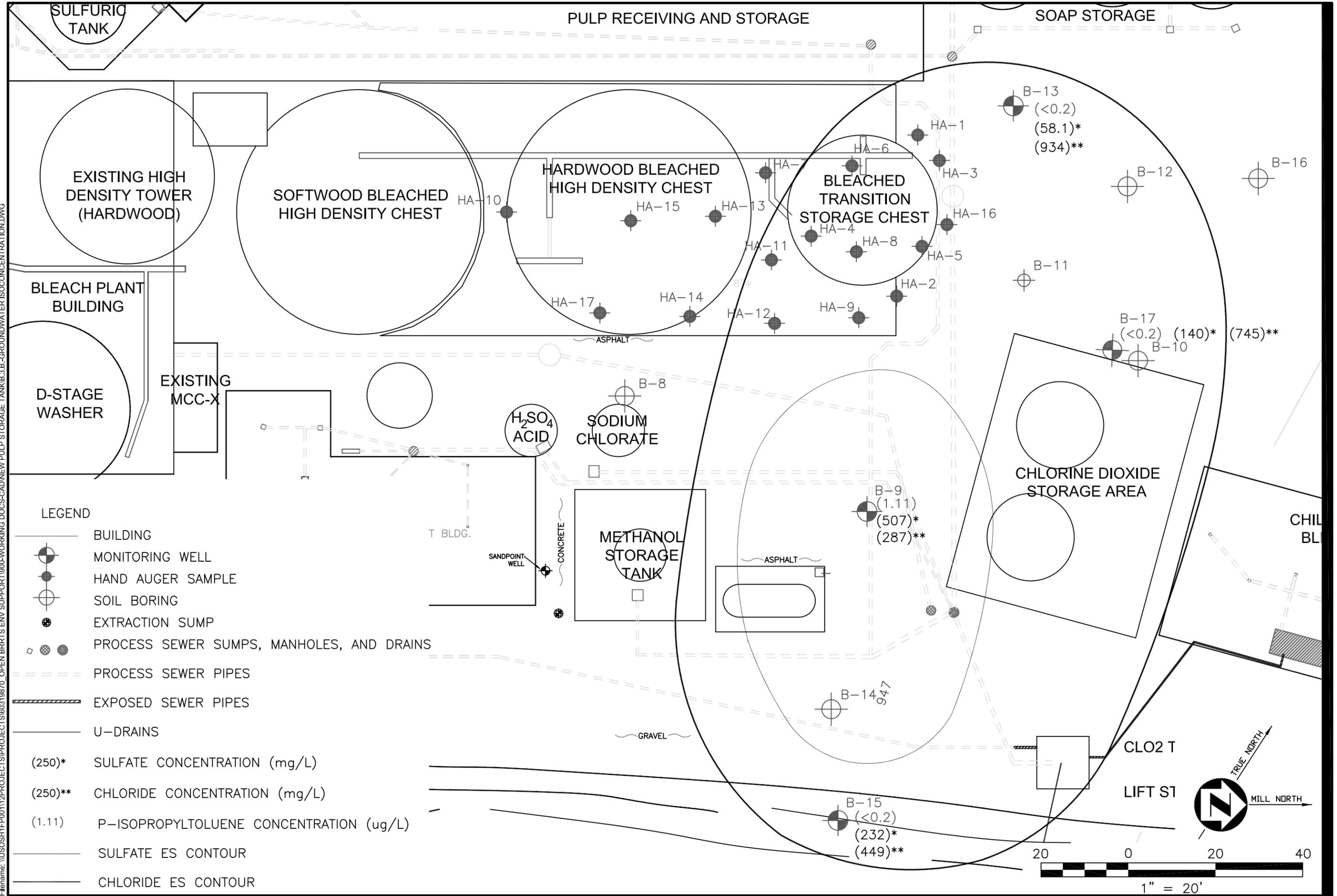


PRE/POST-REMEDIAL SOIL CONTAMINATION

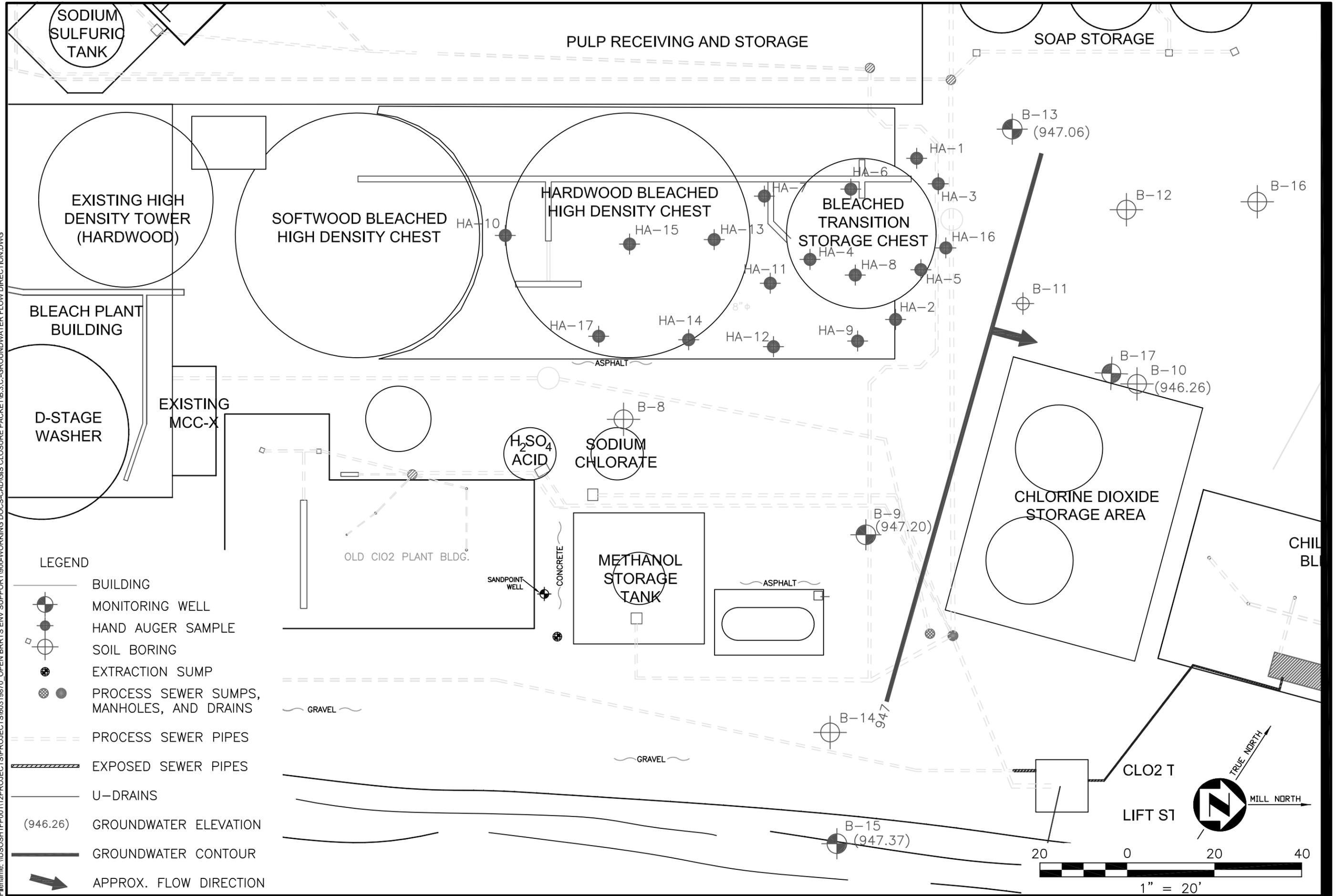


GEOLOGIC CROSS SECTION

Last saved by: KYLES(2014-08-26) Last Plotted: 2014-08-26  
 Filename: \\USOSH\H\FP00112\PROJECTS\PROJECTS\60319870\_OPEN BRRTS ENV SUPPORT\900-WORKING DOCS-CAD\NEW PULP STORAGE TANK\3.B.-GROUNDWATER ISOCONCENTRATION.DWG  
 Project Management Initials: Designer: --- Checked: --- Approved: ---  
 ANSI B 11" x 17"



Last saved by: KYLES1(2014-05-02) Last Plotted: 2014-05-09  
 Filename: \\USOSH\H\FP00112\PROJECTS\PROJECTS\60319870\_OPEN BRRTS ENV SUPPORT\900-WORKING DOCS-CAD\GIS CLOSURE PACKET\B.3.C-GROUNDWATER FLOW DIRECTION.DWG  
 Project Management Initials: Designer: --- Checked: --- Approved: ---  
 ANSIB 11" x 17"

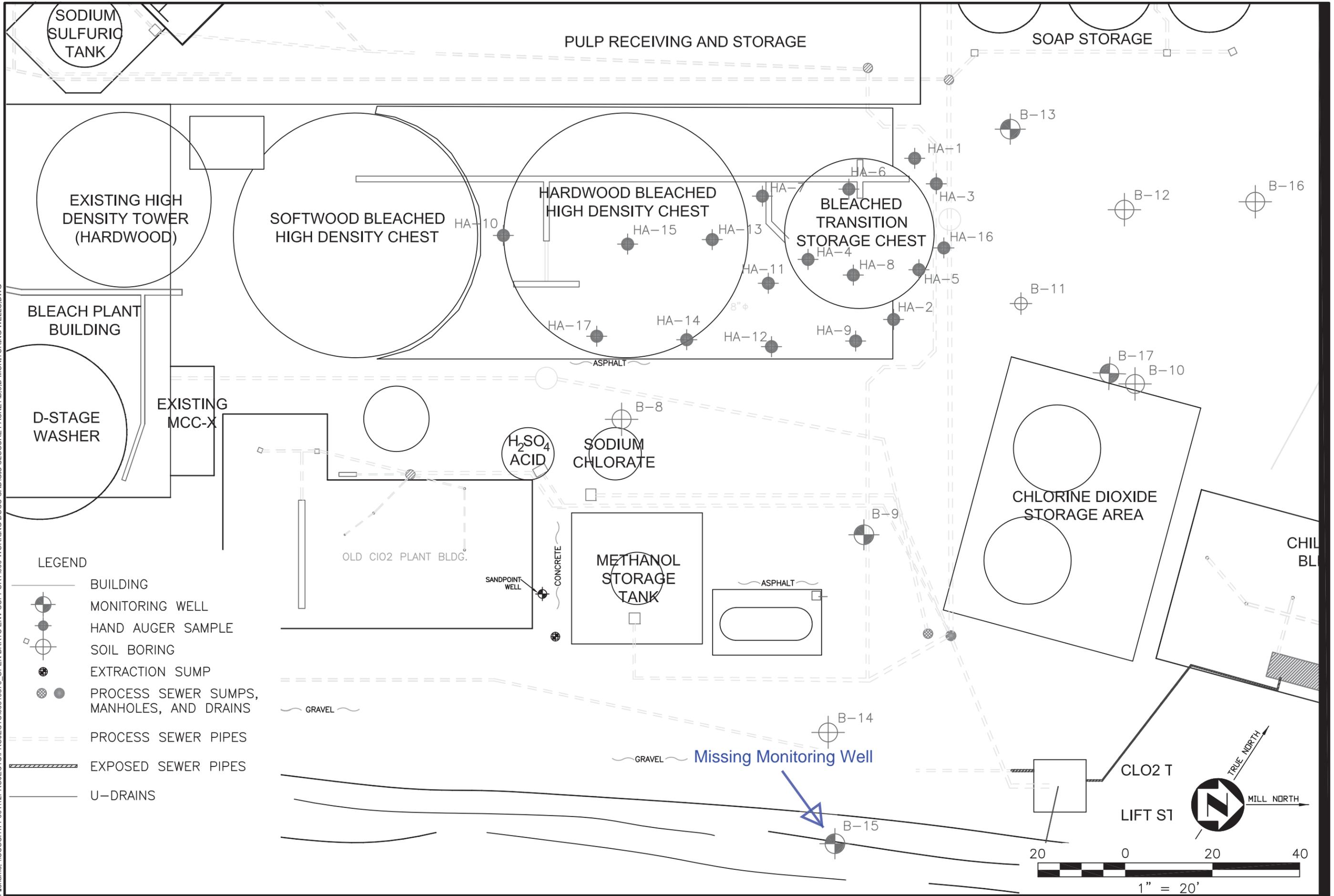


GROUNDWATER FLOW DIRECTION  
 SEPTEMBER 26, 2001

New Pulp Storage Tank Areas  
 BRRTS No. 02-72-195036  
 Domtar, Nekeosa, Wisconsin  
 Project No.: 60319870 2014-05-02

**AECOM**  
**FIGURE B.3.C**

Last saved by: KYLES1(2014-05-02) Last Plotted: 2014-05-02  
 Filename: \USOSH\FP00112\PROJECTS\PROJECTS\60319870\_OPEN BRRTS ENV SUPPORT\900-WORKING DOCS-CAD\GIS CLOSURE PACKET\B.3-D-MONITORING WELLS.DWG  
 Project Management Initials: Designer: --- Checked: --- Approved: ---  
 ANSI B 11" x 17"



THE LOCATION OF THE SUBSURFACE IMPACT IS NOT LOCATED UNDER ANY INHABITED STRUCTURE, THEREFORE, NO VAPOR COLLECTION WAS CONDUCTED AND THERE IS NO INFORMATION TO SHOW ON THIS MAP.

ANALYTICAL DATA INDICATED THAT P-ISOPROPYLTOLUENE, SULFATE, AND CHLORIDE WAS THE COMPOUND OF CONCERN. THEREFORE OTHER MEDIA WAS NOT COLLECTED AND ANALYZED. THERE IS NO INFORMATION TO SHOW ON THE OTHER MEDIA OF CONCERN MAP.

## Documentation of Remedial Action (Attachment C)

# DISCLAIMER

Documents contained in Attachment C of the Case Closure – GIS Registry (Form 4400-202) are not included in the electronic version (GIS Registry Packet) available on RR Sites Map to limit file size.

For information on how to obtain a copy or to review the file, please contact the Remediation & Redevelopment (RR) Environmental Program Associate (EPA) at <http://dnr.wi.gov/topic/Brownfields/Contact.html>



## **D.1. Location Map**

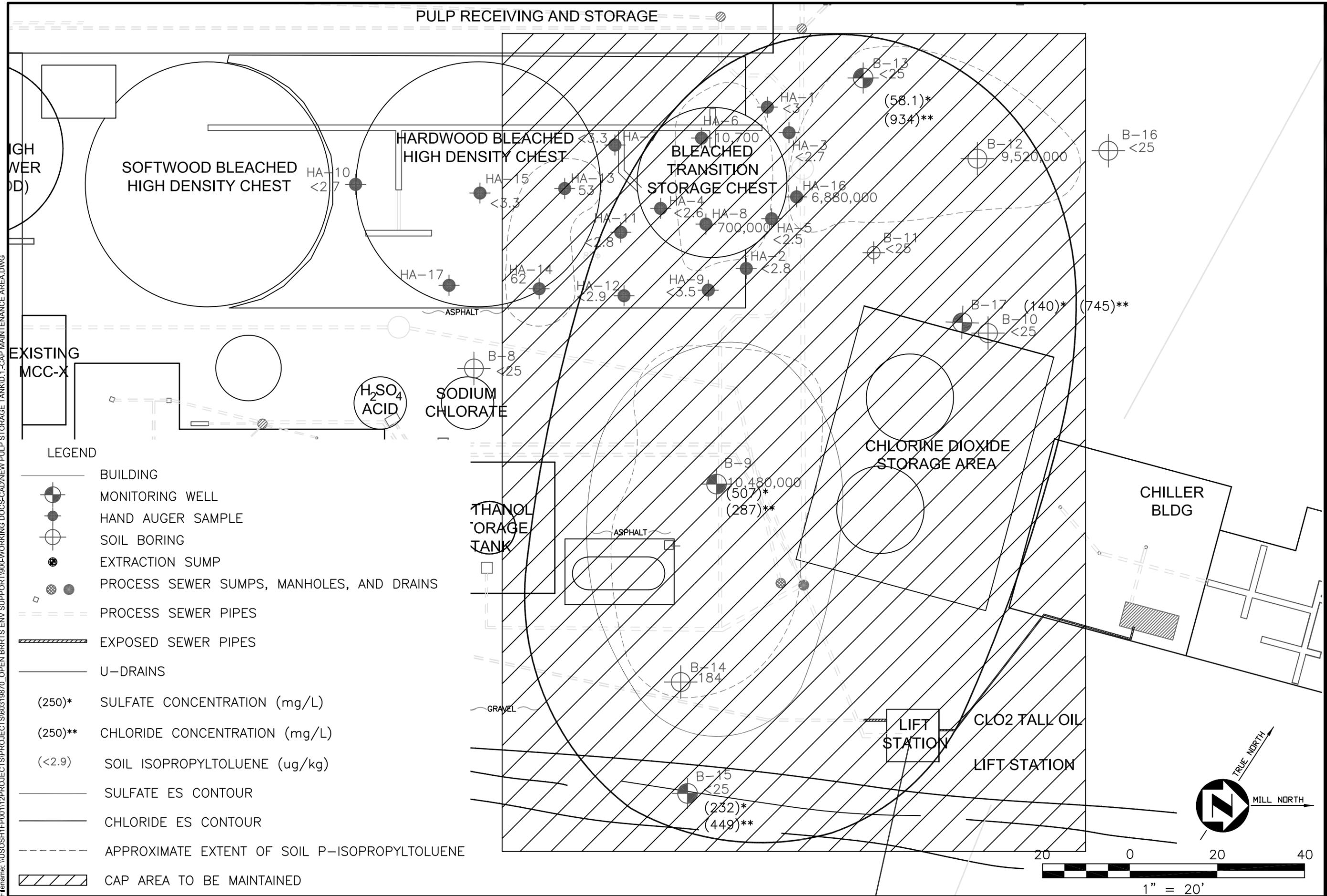
### **Domtar – New Pulp Storage Tank Area Nekoosa, Wisconsin**

Property Located at: Domtar Industries Inc.  
Market Street  
Nekoosa, Wisconsin 54457

WDNR BRRTS No. 02-72-195036

Parcel ID No. 3000150

Last saved by: KYLES(2014-08-26) Last Plotted: 2014-08-26  
 Filename: \USOSH\FP00112\PROJECTS\PROJECTS\60319870\_OPEN BRRTS ENV SUPPORT\900-WORKING DOCS-CAD\NEW PULP STORAGE TANK.DWG  
 Project Management Initials: ---  
 Designer: ---  
 Checked: ---  
 Approved: ---  
 ANSI B 11" x 17"



## **D.2. Brief Description**

### **Domtar – New Pulp Storage Tank Area Nekoosa, Wisconsin**

The maintenance activities relate to the existing asphalt surfaces and building structures occupying the area over the contaminated groundwater plume and soil on site. The contaminated groundwater plume or soil is impacted by p-isopropyltoluene. Sulfate and chloride has been detected above the Enforcement Standard (ES) in groundwater. The location of the paved surfaces and existing building structures to be maintained in accordance with this Maintenance Plan, as well as the impacted groundwater plume and soil, are identified on the map in Section D.1.

### **D.3. Description of Maintenance Actions**

#### **Domtar – New Pulp Storage Tank Area**

#### **Nekoosa, Wisconsin**

The paved surfaces and existing building structures over the contaminated groundwater plume and soil serve as a barrier to prevent direct human contact with residual soil contamination that might otherwise pose a threat to human health. These paved surfaces and building structures also act as a partial infiltration barrier to minimize future soil-to-groundwater contamination migration that would violate the groundwater standards in Chapter NR 140, Wisconsin Administrative Code. Based on the current and future use of the property, the barrier should function as intended unless disturbed.

#### **Annual Inspection**

The paved surfaces and existing building structures overlying the contaminated groundwater plume and soil as depicted in D.1. will be inspected once a year, normally in the spring after all snow and ice are gone, for deterioration, cracks, and other potential problems that can cause additional infiltration into, or exposure to, underlying soils. The inspections will be performed to evaluate damage due to settling, exposure to the weather, wear from traffic, increasing age, and other factors. Any area where soils have become or are likely to become exposed will be documented. A log of the inspections and any repairs will be maintained by the property owner and is included D.4., Inspection Log. The log will include recommendations for necessary repair of any areas where underlying soils are exposed. Once repairs are completed, they will be documented in the inspection log. A copy of the inspection log will be sent to the Wisconsin Department of Natural Resources (WDNR) at least annually after every inspection, unless otherwise directed in the case closure letter.

#### **Maintenance Activities**

If problems are noted during the annual inspections or at any other time during the year, repairs will be scheduled as soon as practical. Repairs can include patching and filling operations or they can include larger resurfacing or construction operations. In the event that necessary maintenance activities expose the underlying soil, the owner must inform maintenance workers of the direct contact exposure hazard and provide them with appropriate Personal Protection Equipment (PPE). The owner must also sample any soil excavated from the site prior to disposal to ascertain if contamination remains. The soil must be treated, stored, and disposed of by the owner in accordance with applicable local, state, and federal law.

In the event the paved surfaces and/or building structure overlying the contaminated groundwater plume and/or soil are removed or replaced, the replacement barrier must be equally impervious. Any replacement barrier will be subject to the same maintenance and inspection guidelines as outlined in the Maintenance Plan unless indicated otherwise by the WDNR or its successor.

The property owner, in order to maintain the integrity of the paved surfaces, will maintain a copy of this Maintenance Plan on site and make it available to all interested parties (i.e. on-site employees, contractors, future property owners, etc.) for viewing.

#### **Prohibition of Activities and Notification of WDNR Prior to Actions Affecting a Cover or Cap**

The following activities are prohibited on any portion of the property where pavement, a building foundation, or other barrier is required as shown on the map in Section D.1, unless prior written approval has been obtained from the Wisconsin Department of Natural Resources: 1) removal of the existing barrier; 2) replacement with another barrier; 3) excavating or grading of the land surface; 4) filling on capped or paved areas; 5) plowing for agricultural cultivation; or 6) construction or placement of a building or other structure.

**Amendment or Withdrawal of Maintenance Plan**

This Maintenance Plan can be amended or withdrawn by the property owner and its successors with the written approval of the WDNR.

D.4.

**Directions:** In accordance with s. NR 727.05 (1) (b) 3., Wis. Adm. Code, use of this form for documenting the inspections and maintenance of certain continuing obligations is required. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.]. When using this form, identify the condition that is being inspected. See the closure approval letter for this site for requirements regarding the submittal of this form to the Department of Natural Resources. A copy of this inspection log is required to be maintained either on the property, or at a location specified in the closure approval letter. Do NOT delete previous inspection results. This form was developed to provide a continuous history of site inspection results. The Department of Natural Resources project manager is identified in the closure letter. The project manager may also be identified from the database, BRRTS on the Web, at <http://dnr.wi.gov/botw/SetUpBasicSearchForm.do>, by searching for the site using the BRRTS ID number, and then looking in the "Who" section.

Activity (Site) Name <b>Nekoosa Papers New Pulp Storage Tank Area</b>	BRRTS No. <b>02-72-195036</b>
--	----------------------------------

Inspections are required to be conducted (see closure approval letter):

annually  
 semi-annually  
 other – specify \_\_\_\_\_

When submittal of this form is required, submit the form electronically to the DNR project manager. An electronic version of this filled out form, or a scanned version may be sent to the following email address (see closure approval letter):

Inspection Date	Inspector Name	Item	Describe the condition of the item that is being inspected	Recommendations for repair or maintenance	Previous recommendations implemented?	Photographs taken and attached?
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
		<input type="checkbox"/> monitoring well <input type="checkbox"/> cover/barrier <input type="checkbox"/> vapor mitigation system <input type="checkbox"/> other:			<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N

{Click to Add/Edit Image}

Date added:

Title:

{Click to Add/Edit Image}

Date added:

Title:

**Facility Name:**  
Nekoosa Papers**Site Location:**  
New Pulp Storage Tank Area  
WDNR BRRS No. 02-72-195036**Project No.**  
60319870**Photo No.**

1

**Direction Photo Taken:**

North

**Description:**

Pulp storage tank maintenance area and cap surface of asphalt and buildings.



## **D.5. Contact Information**

### **Domtar – New Pulp Storage Tank Area Nekoosa, Wisconsin**

Date: May 2014

Site Owner and Operator: Domtar Industries Inc.  
100 Wisconsin River Drive  
Port Edwards, Wisconsin 54469  
Phone: 715-887-5511

Consultant: AECOM  
558 North Main Street  
Oshkosh, Wisconsin 54901  
Phone: 920-235-0270

WDNR: Mr. Thomas Hvizdak  
Wisconsin Department of Natural Resources  
473 Griffith Avenue  
Wisconsin Rapids, Wisconsin 54494  
Phone: 715-421-7800

**Attachment E – Monitoring Well Information**  
**Domtar – New Pulp Storage Tank Area**  
**Nekoosa, Wisconsin**

Monitoring wells B-9, B-13 and B-17 required as part of this response action were properly abandoned in accordance with state regulations. After an extensive search with metal detectors, Monitoring Well B-15 could not be located and is assumed to be destroyed during new curb and gutter installation. A Well Construction Form for Monitoring Well MW-15 is included.

**IMPROPERLY ABANDONED MONITORING WELL**

State of Wisconsin  
Department of Natural Resources

Route to: Solid Waste  Haz. Waste  Wastewater   
Env. Response & Repair  Underground Tanks  Other

**MONITORING WELL CONSTRUCTION**  
Form 4400-113A Rev. 4-90

Facility/Project Name <b>Georgia-Pacific Pulp Storage Site Assessment</b>	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name <b>MW-15</b>
Facility License, Permit or Monitoring Number	Grid Origin Location Lat. _____ " Long. _____ " or St. Plane _____ ft. N. _____ ft. E.	Original Well Number: _____ DNR Well Number: _____
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	Section Location of Waste/Source <b>NW 1/4 of SE 1/4 of Sec. 10, T. 21 N, R. 5</b> <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.	Date Well Installed <b>06/25/96</b>
Distance Well Is From Waste/Source Boundary _____ ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input checked="" type="checkbox"/> Not Known	Well Installed By: (Person's Name and Firm) <b>John Denneau</b> <b>STS Consultants, Ltd.</b>
Is Well A Point of Enforcement Std. Application? <input type="checkbox"/> Yes <input type="checkbox"/> No		

- A. Protective pipe, top elevation \_\_\_\_\_ ft. MSL
- B. Well casing, top elevation \_\_\_\_\_ ft. MSL
- C. Land surface elevation \_\_\_\_\_ ft. MSL
- D. Surface seal, bottom 1.0 ft. MSL or \_\_\_\_\_ ft.

12. USCS classification of soil near screen:  
 GP  GM  GC  GW  SW  SP   
 SM  SC  ML  MH  CL  CH   
 Bedrock

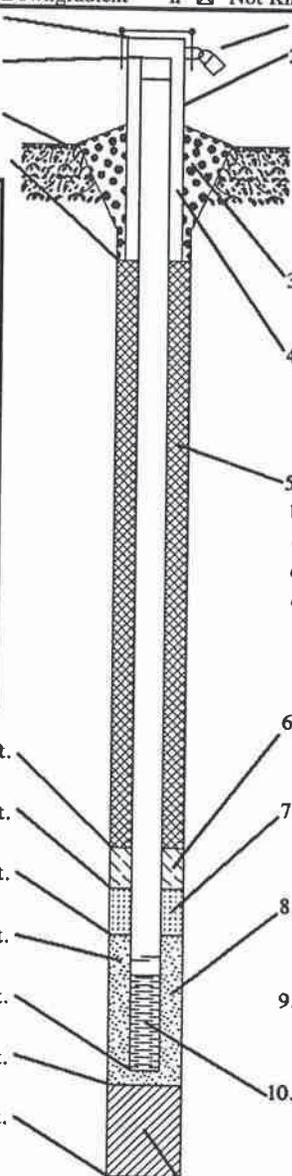
13. Sieve analysis attached?  Yes  No

14. Drilling method used: Rotary  5 0  
 Hollow Stem Auger  4 1  
 \_\_\_\_\_ Other

15. Drilling fluid used: Water  0 2 Air  0 1  
 Drilling Mud  0 3 None  9 9

16. Drilling additives used?  Yes  No  
 Describe \_\_\_\_\_

17. Source of water (attach analysis):  
 \_\_\_\_\_



- 1. Cap and lock?  Yes  No
- 2. Protective cover pipe:
  - a. Inside diameter: 8.0 in.
  - b. Length: 1.0 ft.
  - c. Material: Steel  0 4  
Other
  - d. Additional protection?  Yes  No  
If yes, describe: \_\_\_\_\_
- 3. Surface seal: Bentonite  3 0  
Concrete  0 1  
Other
- 4. Material between well casing and protective pipe:
  - Bentonite  3 0
  - Annular space seal
  - Other
- 5. Annular space seal:
  - a. Granular Bentonite  3 3
  - b. \_\_\_\_\_ Lbs/gal mud weight . . . Bentonite-sand slurry  3 5
  - c. \_\_\_\_\_ Lbs/gal mud weight . . . Bentonite slurry  3 1
  - d. \_\_\_\_\_ % Bentonite . . . Bentonite-cement grout  5 0
  - e. \_\_\_\_\_ Ft<sup>3</sup> volume added for any of the above
  - f. How installed: Tremie  0 1  
Tremie pumped  0 2  
Gravity  0 8
- 6. Bentonite seal:
  - a. Bentonite granules  3 3
  - b.  1/4 in.  3/8 in.  1/2 in. Bentonite pellets  3 2
  - c. \_\_\_\_\_ Other
- 7. Fine sand material: Manufacturer, product name and mesh size
  - a. 45/60
  - b. Volume added \_\_\_\_\_ ft<sup>3</sup>
- 8. Filter pack material: Manufacturer, product name and mesh size
  - a. 23/40
  - b. Volume added \_\_\_\_\_ ft<sup>3</sup>
- 9. Well casing: Flush threaded PVC schedule 40  2 3  
 Flush threaded PVC schedule 80  2 4  
 \_\_\_\_\_ Other
- 10. Screen material: PVC
  - a. Screen Type: Factory cut  1 1  
Continuous slot  0 1  
Other
  - b. Manufacturer Timco
  - c. Slot size: 0.010 in.
  - d. Slotted length: 10.0 ft.
- 11. Backfill material (below filter pack): None  1 4  
Other

- E. Bentonite seal, top \_\_\_\_\_ ft. MSL or 1.0 ft.
- F. Fine sand, top \_\_\_\_\_ ft. MSL or 2.5 ft.
- G. Filter pack, top \_\_\_\_\_ ft. MSL or 3.0 ft.
- H. Screen joint, top \_\_\_\_\_ ft. MSL or 3.0 ft.
- I. Well bottom \_\_\_\_\_ ft. MSL or 13.0 ft.
- J. Filter pack, bottom \_\_\_\_\_ ft. MSL or 13.5 ft.
- K. Borehole, bottom \_\_\_\_\_ ft. MSL or 13.5 ft.
- L. Borehole, diameter 8.0 in.
- M. O.D. well casing 2.00 in.
- N. I.D. well casing 2.00 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature James W. Kauer DJP21667

Firm **STS Consultants, Ltd.**  
1035 Kepler Drive Green Bay, Wisconsin

Tel: (414) 468-1978  
Fax: (414) 468-3312

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

**Attachment F – Notifications to Owners of Impacted Properties**  
**Domtar – New Pulp Storage Tank Area**  
**Nekoosa, Wisconsin**

Not Applicable. Domtar owns the impacted subject property.

**G.1. – Deeds – Source Property and Other Impacted Properties**  
**Domtar – New Pulp Storage Tank Area**  
**Nekoosa, Wisconsin**

Attached is information for the source property. No other properties have been impacted.

SPECIAL WARRANTY DEED

883553

REGISTER OF DEEDS  
WOOD COUNTY  
RECORDED ON

08-07-2001 4:29 PM

RENE' L KRAUSE  
REGISTER OF DEEDSRene' L. Krause SpREC. FEE 96.00  
TRAN. FEE: 2588.10  
PAGES: 44Addl \$ 110,909.70 WI DOR  
TRANSFER FEE  
7-25-02\$ 2,588.10 BWA  
TRANSFER FEEThis instrument to be returned to:Boles-Wallner Abstract & Title, Inc.  
P.O. Box 575  
Wisconsin Rapids, WI 54495  
Parcel ID Nos. 960 P

THIS INDENTURE, made this 7<sup>th</sup> day of AUGUST, 2001 by and between NEKOOSA PAPERS INC., a Wisconsin corporation ("Grantor"), and DOMTAR A.W. CORP., a Delaware corporation, having an address at 395 de Maisonneuve Blvd. West, Montreal, Quebec, Canada H3A 1L6, ("Grantee") ("Grantor" and "Grantee" to include their respective successors, legal representatives, heirs and assigns where the context requires or permits);

WITNESSETH, That:

Grantor, for and in consideration of the sum of TEN AND NO/100 DOLLARS (\$10.00), and other good and valuable consideration in hand paid at and before the sealing and delivery of these presents, the receipt and sufficiency whereof are hereby acknowledged, has granted, bargained, sold, aliened, conveyed, and confirmed, and by these presents does grant, bargain, sell, alien, convey and confirm unto Grantee, all that tract or parcel of land described in Exhibit A, attached hereto and by this reference made a part hereof (hereinafter the "Land").

TOGETHER WITH all rights, members, easements, and appurtenances appertaining to the Land, together with all right, title, and interest of Grantor in and to any and all alleys, streets, and rights-of-way adjacent to or abutting the Land (the Land, together with such rights and appurtenances and all buildings and improvements thereon, hereinafter the "Property").

That part of Government Lot 5 lying Westerly of railroad right of way and Northerly of 9<sup>th</sup> Street in Section 3, Township 21 North, Range 5 East, City of Nekoosa, Wood County, Wisconsin.  
(Tax Key No. 30-00020)

Parcel 146:

That part of Government Lot 5 lying Westerly of railroad right of way and Southerly of 9<sup>th</sup> Street in Section 3, Township 21 North, Range 5 East, City of Nekoosa, Wood County, Wisconsin.  
(Tax Key No. 30-00021)

Parcel 147:

That part of Government Lot 5 lying East of railroad right of way, West of Patton Avenue and South of the South line of the alley in Blocks 32 and 33 of Nekoosa Paper Co.'s Addition, in Section 3, Township 21 North, Range 5 East, City of Nekoosa, Wood County, Wisconsin.  
(Tax Key No. 30-00022)

Parcel 148:

Outlots 1-A, 2-A and 3-A of Wood County Certified Survey Map No. 2965, as recorded in Volume 10 of Survey Maps, page 265, being part of the NE  $\frac{1}{4}$  of the SE  $\frac{1}{4}$  of Section 9, Township 21 North, Range 5 East, City of Nekoosa, Wood County, Wisconsin.  
(Tax Key No. 30-00103A)

Parcel 150: - MILL LOT

That part of Government Lots 6 and 7 lying Easterly of Chicago & Northwestern Railroad right of way, Northerly of the map of Nekoosa and Westerly of Nekoosa Paper Co.'s Addition to the Village (now City) of Nekoosa in Section 10, Township 21 North, Range 5 East, City of Nekoosa, Wood County, Wisconsin, EXCEPT Wood County Certified Survey Map No. 2145, AND FURTHER EXCEPTING that part of the railroad right of way 100 feet in width between the North line of Market Street and the North line of 1<sup>st</sup> Street and Parcel B of Wood County Certified Survey Map No. 2145.  
(Tax Key No. 30-00148)

Parcel 151: - MILL LOT

That part of Government Lots 5 and 6 and SE  $\frac{1}{4}$  of the NW  $\frac{1}{4}$  lying Easterly of Point Basse Avenue and South of the South line of Alley of Blocks 3, 4, 5 and 6 of Nekoosa and Southwest of highway as vacated in Volume 359 of Mis. Records, page 611, located in Section 10, Township 21 North, Range 5 East, City of Nekoosa, Wood County, Wisconsin;  
AND INCLUDING the East 6 feet of Point Basse Avenue;  
AND Lots 1 thru 8, Block 3;  
Lots 1 thru 8, Block 4;  
Lots 1 thru 8, Block 5;  
Lots 4 thru 8, Block 6;  
AND vacated streets between Blocks 3 and 4, Blocks 4 and 5, and Blocks 5 and 6, and vacated alley on the South side;  
ALL of Nekoosa, City of Nekoosa Wood County, Wisconsin (Tax Key No. 30-00150);

EXCEPTING THEREFROM the following described property:

**AREA SOUTH AND EAST OF FERC LINE IN VICINITY OF NEKOOSA MILL**

All that part of Government Lot 5, Section 10, T21N, R5E, City of Nekoosa, Wood County, Wisconsin, lying South and East of the following described line, said line being defined as the FERC line lying within said Government Lot 5, and being more particularly described as follows:

COMMENCING at the West Quarter corner of said Section 10, T21N, R5E;

THENCE S 00°24'27" E, along the west line said Section 10, 1321.36 feet to the southwest corner of Government Lot 5 of said Section 10;

THENCE N 89°17' 16" E, along the south line of said Government Lot 5, 1322.87 feet to a point on the FERC line and the POINT OF BEGINNING;

THENCE with said FERC line the following 18 courses:

1. N 02°52' 41" E, 82.55 feet;
2. N 11°13' 00" E, 157.37 feet;
3. N 31°13' 10" E, 349.17 feet to a building wall;
4. N 55°30' 56" E, 232.05 feet to a building corner;
5. N 58°36' 07" E, along a building wall, 424.35 feet to a building corner;
6. S 30°35' 14" E, along a building wall, 22.28 feet to a building corner;
7. N 57°11' 34" E, along a building wall, 14.71 feet to a building corner;
8. S 31°44' 09" E, along a building wall, 142.91 feet to a building corner;
9. N 57°25' 30" E, 97.67 feet;
10. N 32° 34' 30" W, 139.64 feet;
11. N 57°25' 30" E, 13.92 feet;
12. N 31°23' 29" W, 39.78 feet to a building wall;
13. N 58°36' 31" E, along a building wall, 323.64 feet to a building corner;
14. S 86°27' 18" E, 70.02 feet to a building corner;
15. N 61°57' 37" E, 166.47 feet;
16. N 76°14' 42" E, 150.41 feet;
17. N 82°00' 39" E, 597.51 feet;
18. N 55°28' 47" E to the north line of said Government Lot 5.

Parcel 153:

Lot 2 of Wood County Certified Survey Map No. 5307, as recorded in Volume 18 of Survey Maps, page 207, being part of the SW ¼ of the NW ¼ of Section 10, Township 21 North, Range 5 East, City of Nekoosa, Wood County, Wisconsin.

(Tax Key No. 30-00163B)

Parcel 155:

Lot A and Lot 14 in Block 1 of Nekoosa, City of Nekoosa, Wood County, Wisconsin.

(Tax Key No. 30-00194)

Parcel 156:

Lot 9 in Block 2 of Nekoosa, City of Nekoosa, Wood County, Wisconsin.

(Tax Key No. 30-00217)

Parcel 157:

Lot 11 in Block 12 of Nekoosa, City of Nekoosa, Wood County, Wisconsin.

(Tax Key No. 30-00303)



NORTHWEST 1/4 OF THE SOUTHWEST 1/4  
30-00007

NORTHEAST 1/4 OF THE SOUTHWEST 1/4  
30-00006

SOUTHWEST 1/4 OF THE SOUTHWEST 1/4  
30-00015

SOUTHEAST 1/4 OF THE SOUTHWEST 1/4  
30-00014

OF THE SOUTHWEST 1/4

CRANMOOR ROAD

WOOD

WEST 6TH ST.

FIFTH ST.

WEST 5TH ST.

WEST 5TH ST.

WEST 4TH ST.

WEST 4TH ST.

WEST 3RD ST.

WEST 3RD ST.

WEST 2ND ST.

WEST 2ND ST.

WEST 1ST ST.

WEST 1ST ST.

MARKET

MARKET

BUHLER AVE.

BUHLER AVE.

WOOD AVE.

WOOD AVE.

CRESTVIEW LA.

CRESTVIEW LA.

DELLWOOD LA.

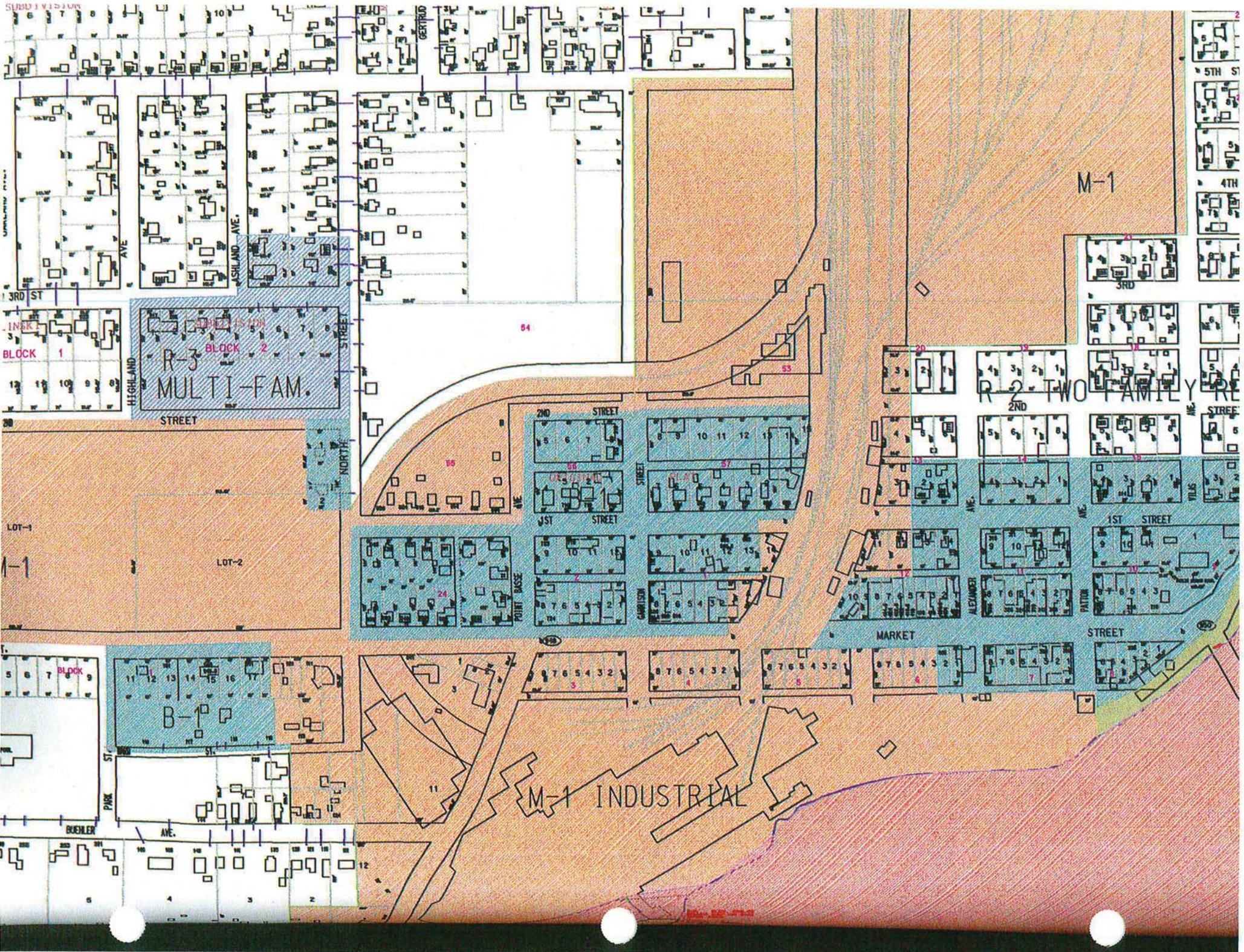
C.M. & ST. PAUL  
S.O.O. LINE  
C. & N.W.

R.R. R/W

CITY PARK

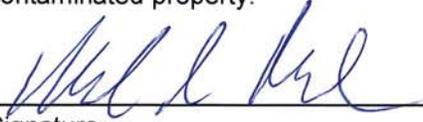
Point started  
30-00167

0.26 AC  
CITY



**G.4. – Signed Statement**

I, Mark Bessette, believe that the attached legal descriptions accurately describe the correct contaminated property.

  
\_\_\_\_\_  
Signature

7/9/14  
\_\_\_\_\_  
Date