



Rec 5/23/16
Penta Wood BRPTS
5/24/16
Transmittal (99)

Date: May 19, 2016 Reference No.: 086165

To: Mr. Phil Richard
Wisconsin Department of Natural Resources
875 S. 4th Avenue
Park Falls, Wisconsin 54552

Subject: Penta Wood – Well Survey Data

No. of Copies	Description/Title	Drawing No./ Document Ref.	Issue
2	Copies Penta Wood - Well Survey Data		

Issued for: For your use As requested Construction Quotation
 Your approval/comments Returned to you For re-submission

Sent by: Overnight courier Same day courier Mailed under separate cover Mail enclosed

Remarks:

Copy to: _____

Completed by: Tim Ree
[Please Print]

Signed: 
Tim Ree

Filing: Correspondence File

PENTA WOOD PRODUCTS SITE

TOWN OF DANIELS, WISCONSIN

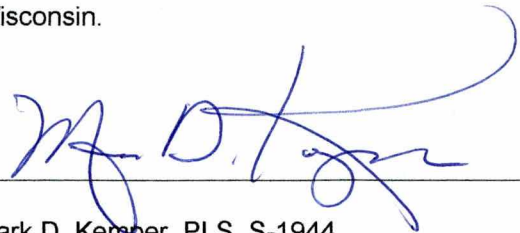
Well Data (April 2016)



Prepared By:
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kemper @pro-ns.net

I hereby certify that this survey, plan or report was prepared by me or under my direct supervision and that I am a duly licensed professional land surveyor under the laws of the State of Wisconsin.



 5/16/2016

Mark D. Kemper, PLS S-1944

EXTRACTION WELL NEST	BURNETT COUNTY COORDINATES (NAD 83, 1996)		TOP OF OUTER COVER OF WELL NEST ELEV. (NAVD 88)	TOP OF DEEP INSIDE RISER PIPE ELEV. (NAVD 88)	TOP OF SHALLOW INSIDE RISER PIPE ELEV. (NAVD 88)	ADJACENT GROUND ELEV. (NAVD 88)
	X (Easting)	Y (Northing)				
EW-02	217156.72	154025.62	1083.36	1083.00	1082.25	1080.98
EW-03	217057.05	153893.45	1089.87	1089.48	1088.66	1087.83
EW-04	216942.26	153752.50	1101.17	1101.09	1101.01	1098.70
EW-05	217276.40	153877.33	1077.28	1076.99	1077.04	1075.20
EW-06	217194.49	153730.17	1083.73	1083.39	1083.61	1081.28
EW-07	217109.90	153554.76	1087.65	1087.52	1087.49	1086.61
EW-10	217140.10	153805.85	1088.78	1088.55	1088.72	1087.54
EW-11	217446.43	154282.38	1048.33	1048.19	1047.23	1046.73
EW-12	217195.49	153904.14	1086.81	1086.41	1086.31	1085.09
EW-13	217104.54	153718.35	1093.17	1092.88	1092.88	1091.63
EW-14	217027.64	153786.01	1098.66	1098.28	1098.32	1096.58

MONITORING WELL	BURNETT COUNTY COORDINATES (NAD 83, 1996)		TOP OF OUTER WELL COVER ELEVATION (NAVD 88)	TOP OF INSIDE RISER PIPE ELEV. (NAVD 88)	ADJACENT GROUND ELEVATION (NAVD 88)
	X (Easting)	Y (Northing)			
MW-1	217719.30	153643.97	1072.58	1072.27	1070.89
MW-2	217426.27	154035.87	1065.23	1065.03	1062.48
MW-3	216505.19	153372.18	1130.03	1129.44	1127.99
MW-4	217183.38	153578.15	1087.98	1087.74	1085.12
MW-5	217357.27	154013.33	1071.79	1071.39	1069.66
MW-6	216874.65	153672.58	1109.31	1109.11	1106.21
MW-6S	216910.29	153671.07	1108.65	1108.35	1105.38
MW-7	215915.26	153916.77	1096.68	1096.25	1094.32
MW-8	216197.15	154439.91	1091.57	1091.13	1089.06
MW-9	217515.09	154379.25	1019.87	1019.58	1016.91
MW-10	217065.78	153920.21	1089.46	1089.01	1086.80
MW-10S	217059.18	153905.81	1090.54	1090.12	1087.65
MW-11	215915.08	154404.35	1085.81	1085.48	1081.94
MW-12	216968.68	154160.05	1081.25	1080.91	1078.61
MW-13	217628.75	154557.90	1006.11	1005.81	1003.51

MONITORING WELL	BURNETT COUNTY COORDINATES (NAD 83, 1996)		TOP OF OUTER WELL COVER ELEVATION (NAVD 88)	TOP OF INSIDE RISER PIPE ELEV. (NAVD 88)	ADJACENT GROUND ELEVATION (NAVD 88)
	X (Easting)	Y (Northing)			
MW-14	217363.33	153745.03	1078.71	1078.37	1075.42
MW-15	216882.17	153084.60	1127.56	1127.09	1125.86
MW-16	216958.66	154164.70	1082.14	1081.95	1079.37
MW-17	216593.88	154389.59	1084.80	1084.43	1082.65
MW-18	217342.19	153951.62	1072.30	1071.96	1069.95
MW-19	217146.12	153665.46	1088.24	1087.96	1085.92
MW-20	217041.91	153776.01	1098.82	1098.16	1095.78
MW-21	217215.81	153375.46	1096.53	1095.82	1093.59
MW-22	217456.52	153524.97	1084.86	1084.65	1081.79
MW-23	217530.88	154390.39	1017.60	1017.45	1015.22
MW-24	215963.47	154189.04	1084.72	1084.04	1082.43
MW-25	216557.44	153955.59	1095.68	1095.25	1093.32
MW-26	216423.99	154415.20	1087.45	1086.87	1084.12
MW-27	216883.35	153624.34	1111.18	1110.96	1108.22
MW-28	217257.99	153642.52	1083.94	1083.52	1080.96

MONITORING WELL	BURNETT COUNTY COORDINATES (NAD 83, 1996)		TOP OF OUTER WELL COVER ELEVATION (NAVD 88)	TOP OF INSIDE RISER PIPE ELEV. (NAVD 88)	ADJACENT GROUND ELEVATION (NAVD 88)
	X (Easting)	Y (Northing)			
MW-29	217410.64	153913.27	1070.49	1070.24	1067.92
MW-30	217499.37	154035.49	1049.19	1048.98	1046.78
MW-31	217135.14	154289.06	1076.65	1076.34	1074.08

BIOVENTING WELL	BURNETT COUNTY COORDINATES (NAD 83, 1996)		TOP OF OUTER WELL COVER ELEVATION (NAVD 88)	TOP OF INSIDE RISER PIPE ELEV. (NAVD 88)	ADJACENT GROUND ELEVATION (NAVD 88)
	X (Easting)	Y (Northing)			
BV-8	216837.52	153566.90	1111.06	1111.03	1107.90
BV-9	216622.91	153499.27	1123.33	1123.25	1121.53

Water Supply Well	BURNETT COUNTY COORDINATES (NAD 83, 1996)		ADJACENT GROUND ELEVATION (NAVD 88)
	X (Easting)	Y (Northing)	
	216081.25	153485.72	1108.81
SB-1	217342.82	154143.51	1073.19

SOIL GAS WELL NEST	BURNETT COUNTY COORDINATES (NAD 83, 1996)		ADJACENT GROUND ELEVATION (NAVD 88)
	X (Easting)	Y (Northing)	
SG-04	217218.72	153978.68	1083.41
SG-05	217262.43	15379320%	1076.27
SG-06	217232.96	153610.35	1082.59
SG-07	216970.84	153647.38	1101.02
SG-22	216743.41	153534.68	1119.18
SG-23	216753.77	153812.26	1093.23
SG-24	216383.75	153346.38	1127.18
SG-25	217566.92	153340.77	1085.76
SG-26	216477.52	153336.37	1128.40

Site Benchmark:

Wisconsin Department of Transportation

Station "Siren"

X=216664.33

Y=153201.30

Elev.=1032.50 (NAVD 88)

Located south of subject Penta Wood Site next to

Wisconsin DNR fire lookout tower

BURNETT COUNTY

COORDINATES

(NAD 83, 1996)

ELEVATION

(NAVD 88)

<u>SURVEY CONTROL POINT</u>	<u>X (Easting)</u>	<u>Y (Northing)</u>	<u>ELEVATION (NAVD 88)</u>
1	216663.96	153497.12	1122.90
2	216131.63	154136.15	1101.52
3	217339.35	154167.83	1071.22
4	216777.12	153048.16	1127.89
5	216265.98	153613.41	1115.50
6	215898.48	153819.90	1096.04
7	217086.74	153817.65	1092.07
8	217097.85	153234.94	1111.95

KEMPER & ASSOCIATES INC.
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PENTA WOOD PRODUCTS SITE

TOWN OF DANIELS, WISCONSIN

EXTRACTION & MONITORING WELLS (APRIL 2016)

1 INCH EQUALS 100 FEET

BASED FOR RECORDING
SHERBURN COUNTY
COURT RECORDS SYSTEM
JULY 22, 1995

FOR RECORD THE GPS
MEASUREMENTS OBTAINED
BY THE SURVEYOR
OF THE WISCONSIN
DEPARTMENT
OF TRANSPORTATION
ARE NOTED.

BASED FOR ELEVATION
OF CORNER STATION
STATION "SIREN"
ELEVATION 510.00 (D&W 80)



SECTION 11, T38N, R17W



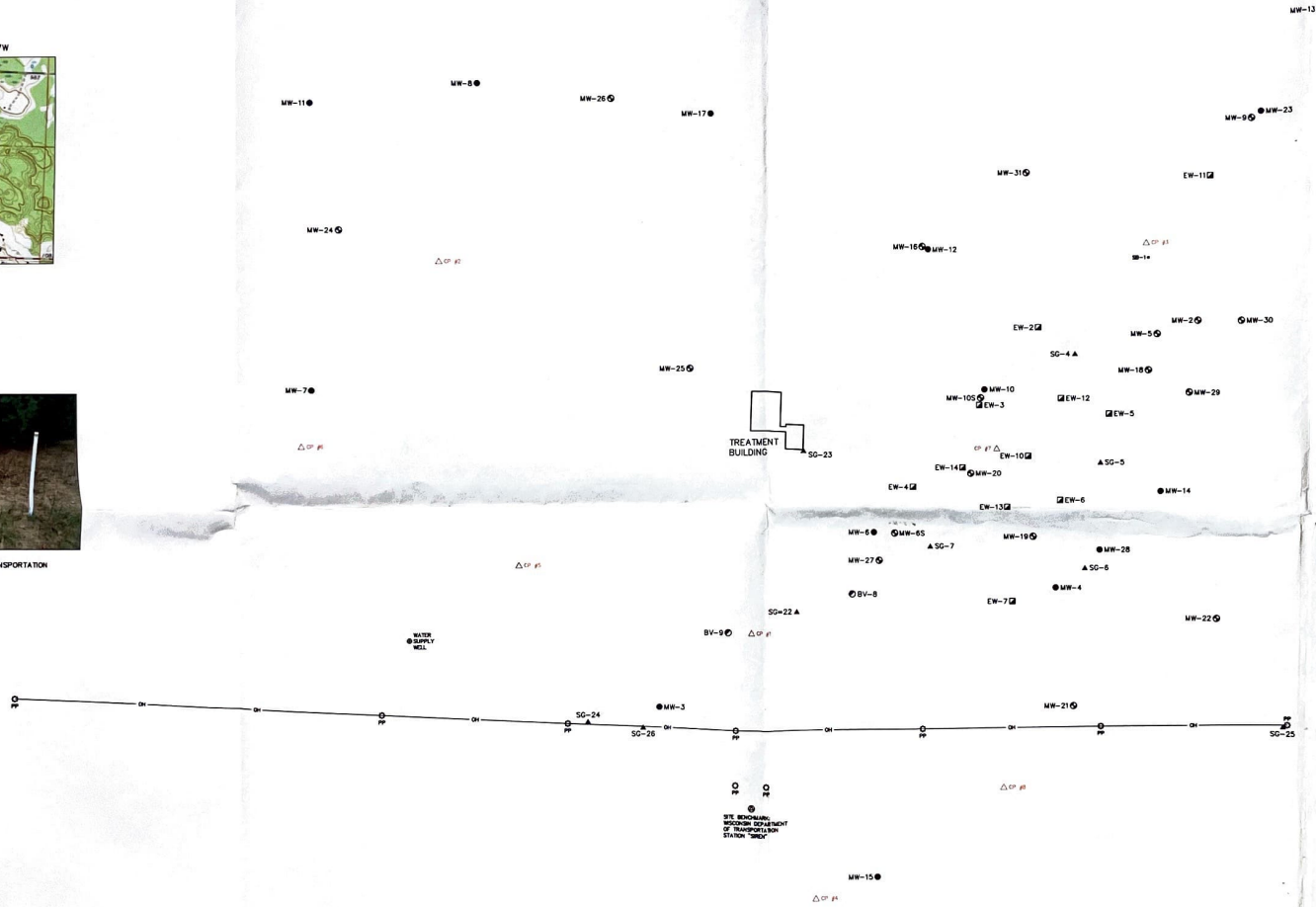
VICINITY MAP
(NO SCALE)



SITE BENCHMARK
WISCONSIN DEPARTMENT OF TRANSPORTATION
STATION "SIREN"



TREATMENT BUILDING AT PENTA WOOD PRODUCTS SITE



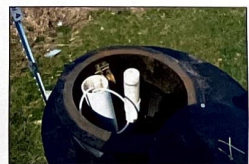
LEGEND

- EW □ EXTRACTION WELL NEST
- MW ○ UNCONFINED MONITORING WELL
- MW ⊖ SEAM-CONFINED MONITORING WELL
- BV ⊙ BIOVENTING WELL
- SG △ SOIL GAS WELL NEST
- PP ⊙ POWER POLE
- UT — UNCONFINED UTILITY LINES
- SC ⊙ SURVEY CONTROL POINT

NOTE: NOT ALL PHYSICAL FEATURES SUCH AS
STAKE MARKERS, STAKES, TRAILS, ETC.
ARE SHOWN ON THIS SURVEY.

SURVEY MEASUREMENTS TAKEN APRIL 21-22, 2016

SITE BENCHMARK
WISCONSIN DEPARTMENT
OF TRANSPORTATION
STATION "SIREN"



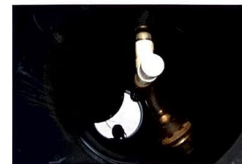
EXTRACTION WELL NEST



UNCONFINED MONITORING WELL



SEAM-CONFINED MONITORING WELL



BIOVENTING WELL



SOIL GAS WELL NESTS



PREPARED FOR:
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CERTIFICATION
I HEREBY CERTIFY THAT THIS SURVEY, PLAN
OR REPORT WAS PREPARED BY ME OR
UNDER MY DIRECT SUPERVISION AND THAT
I AM A FULLY LICENSED PROFESSIONAL LAND
SURVEYOR UNDER THE LAWS OF THE STATE
OF MINNESOTA.

MARK D. KEMPER, P.L.S. & L.S.
DATE: APR 22, 2016