May 9, 2018 File #34265.003

John Sager Wisconsin Department of Natural Resources 1701 North 4th Street Superior, WI 54880

Re: Historical Contamination Response Action Report for the Tank 25 Basin

Superior Refining Company LLC, Superior, WI Facility-Wide WDNR BRRTS# 02-16-559511

Facility ID: 816009590

Dear John:

On behalf of Superior Refining Company LLC (SRC), Gannett Fleming, Inc. (GF) is submitting this historical contamination response action report for the Tank 25 basin at the SRC refinery in Superior. In May 2014, the Wisconsin Department of Natural Resources (WDNR) approved SRC's April 2014 *Site Investigation and Remedial Action Plan* (SI/RAP) for the refinery. Section 3.1.3 on Page 13 of the April 2014 SI/RAP outlines the process to follow when historical contamination is identified. This report includes background information as to when the historical contamination in the Tank 25 basin was discovered and a section on the Geoprobe soil sampling that was conducted in response, as required by the SI/RAP. A completed certification page for the report is also attached.

Pertinent Background Information

Figure 1 is a location map showing the refinery, its approximate property boundary, and the area around the refinery and was prepared using the most recent USGS topographic map. The refinery occupies portions of Sections 25, 26, 35, and 36; Township 49 North; Range 14 West and Section 30; Township 49 North; Range 13 West; in Superior Township of Douglas County.

Figure 2 shows the facility-wide groundwater monitoring network with the locations of the Tank 25 basin, the 23 monitoring wells (MW-1, MW-1/T67, MW-2, MW-2/T66, MW-3/T50, MW-3D, MW-5/T40, MW-5/T70, MW-7, MW-8R, MW-9B, and MW-11 through MW-22), and 8 piezometers (PZ-

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2/T66, PZ-3D, PZ-8R, PZ-11, PZ-13, PZ-16, PZ17, and PZ-21) established in conjunction with the SI/RAP.

Figure 3 is a Tank 25 basin site plan showing the estimated horizontal extent of residual hydrocarbon-impacted soil, some or all of which may be from a release of crude oil before the May 1978 Wisconsin spill laws, although the specifics are unknown. Currently, Tank 25 is being used to store crude oil.

During a routine inspection on May 15, 2017, Calumet Superior (Calumet) staff identified an area of black-stained, hydrocarbon-impacted soil in the western portion of the Tank 25 basin. The source of the initial area of visibly impacted soil was traced to a release that occurred when the seal on a mixing pump attached to the tank failed, causing an estimated 144 gallons of crude oil to enter the tank basin (BRRTS# 02-16-580801). Calumet directed soil excavation to remove soil impacted by this release. During excavation, additional hydrocarbon-impacted soil was discovered at a depth that suggested it was associated with a historic release.

Because of very wet conditions at the time the historic release was identified, Calumet suspended excavation activities and decided to wait for cold weather and frozen conditions to minimize the spread of contamination and for improved access to:

Define the extent of residual soil impacts using a Geoprobe.

Effective November 8, 2017, Husky Superior Refining Holding Corp (Husky Superior) purchased Calumet and changed its legal name to Superior Refining Company LLC (SRC).

All activities were conducted according to the WDNR-approved April 2014 SI/RAP, as described below.

Geoprobe Soil Sampling

On March 19 and 20, 2018, SRC returned to the Tank 25 basin with Insight Environmental and GF field staff to define the horizontal and vertical extent of impacted soil based on visual observation and the use of a photo-ionization detector (PID) equipped with an 11.7 electron volt (eV) lamp. A 10-parts per million volume (ppmv) PID reading was used as a threshold to identify impacted soil, per Section 3.1.1 of the April 2014 SI/RAP.

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As shown on Figure 3, starting in front of the service doors to Tank 25, a sample grid was established (approximately 25-foot on center), and a Geoprobe rig operated by Twin Ports Testing of Superior was used to collect 5-foot-long soil cores at 30 locations (GP-1 through GP-30). The 2inch-diameter cores were split horizontally, and plugs from the center of the cores were placed in plastic Zip-Loc bags, sealed, and kneaded to break up soil clods. The bags were placed in the heated cab of a truck until the samples reached 40° F, while the remaining soil was kept unexposed outdoors (skies were overcast, and the maximum ambient air temperature was <30° F). The heated samples were then field screened for volatile organic vapors (VOCs) with the PID. If a sample from 0-2 feet or 2-4 feet (below final grade) exceeded the 10-ppmv threshold, then a separate plug was collected from the corresponding segment, placed in a laboratory-supplied vial, preserved with methanol, and stored in a cooler with ice in preparation for lab analysis. Additionally, if the sample collected from the 4- to 5-feet below ground surface exceeded the 10-ppmv threshold, cores were collected below 5 feet and until the samples screened below 10 ppmv. Once the vertical extent was defined, the boring was plugged with bentonite chips, and sampling began at the next location. The horizontal extent was delineated by locations where the soil boring core screened below 10 ppmv. Structural impediments were encountered during the investigation as identified on Figure 3.

Location data were collected with a Trimble Yuma tablet and Trimble Pathfinder ProXH GPS receiver while confirming bentonite seal of the borings at the end of each day. Attachment A includes copies of the soil boring logs (with all the PID data) and filling and sealing reports for GP-1 through GP-30.

Compounds of concern are the petroleum volatile organic compounds (PVOCs) and naphthalene. A total of 11 shallow soil samples within 4 feet of final grade were submitted to Pace Analytical (Wisconsin Certification #405132750) of Green Bay for analysis. Table 1 includes a summary of the analytical results from soil samples collected during the Geoprobe investigation. Attachment B includes a copy of the laboratory report used to generate Table 1 and the chain of custody record. Results document that only one location had soil with a concentration at or above an NR 720 industrial direct contact residual contaminant level (RCL). In GP-15 0-1, the naphthalene concentration was 25.7 mg/kg, slightly above its NR 720 industrial direct contact RCL of 24.1 mg/kg. Consequently, SRC plans to:

Excavate the area of impacted soil with the naphthalene industrial direct contact RCL exceedance, collect confirmation soil samples to document final conditions, and place clean backfill in all excavated areas to restore final grade after a turnaround currently in progress at the refinery is complete, but by November 30, 2018.

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• Submit a technical memorandum report requesting transfer of the residual historical contamination and BRRTS #02-16-580801 to the facility-wide BRRTS # 02-16-559511 within 30 days of receiving the confirmation soil sample results.

When multiple detected contaminants are not of concern, soil data are directly compared to individual NR 720 RCLs for evaluation alone. However, WDNR June 2014 guidance document RR-890 (Soil Residual Contaminant Determinations Using the USEPA Regional Screening Level Web Calculator) states that cumulative cancer risk (CCR) and hazard index (HI) values should also be evaluated for samples with detected concentrations "when there is potential for direct contact of soil with multiple contaminants" (Page 6). During this investigation of historical contamination, 11 shallow sample locations within 4 feet of final grade were collected for PVOCs/naphthalene analysis, and 10 of the 11 shallow samples had multiple detected analytes. As shown in Table 1, their respective CCR and HI values were all below the 1E-5 CCR and 1 HI thresholds in NR 720.12(b), Wis. Adm. Code. GP-15 is the only location with a contaminant (naphthalene) above its NR 720 industrial contact RCL.

The Wisconsin Transverse Mercator x,y coordinates of GP-15 (treating it as the spill/release location) are 361826.3, 692295.3 meters.

Feel free to call me and/or Matt Turner at Husky Superior if you have any questions or need additional information.

Sincerely,

GANNETT FLEMING, INC.

Marcus C. Mussey

Staff Geologist

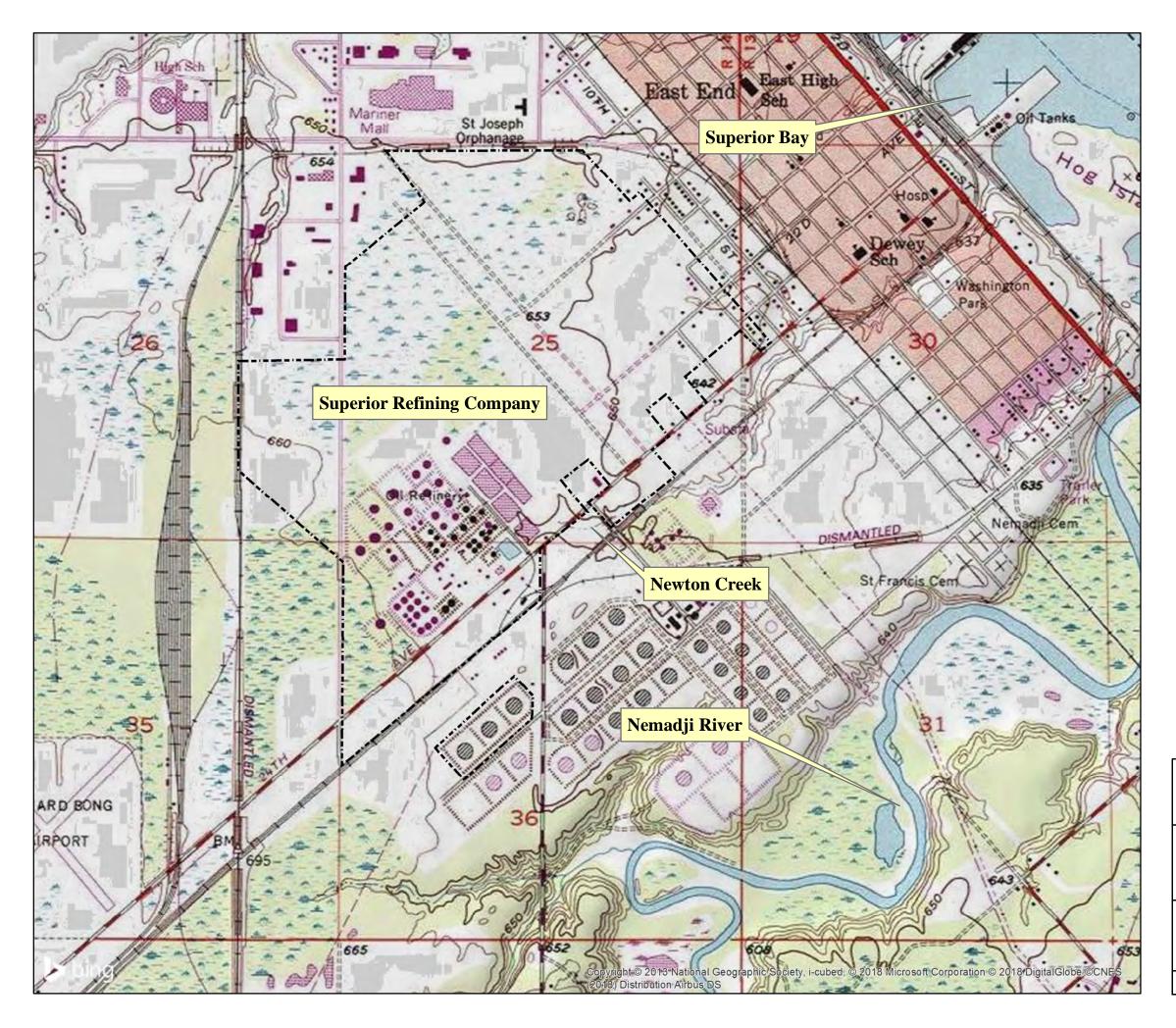
Clifford C. Wright

Project Engineer

MCM/jec

Enc.

ecc: Matt Turner (Husky Superior)





Legend

---- Approximate Superior Refining Company Property Boundary

Notes:

- 1. Contour interval = 10ft.
- 2. Site datum = mean sea level (MSL).
- 3. Topographic map obtained from ArcGIS USA Topo Map Service. Service includes seamless, scanned image of USGS topographic maps.



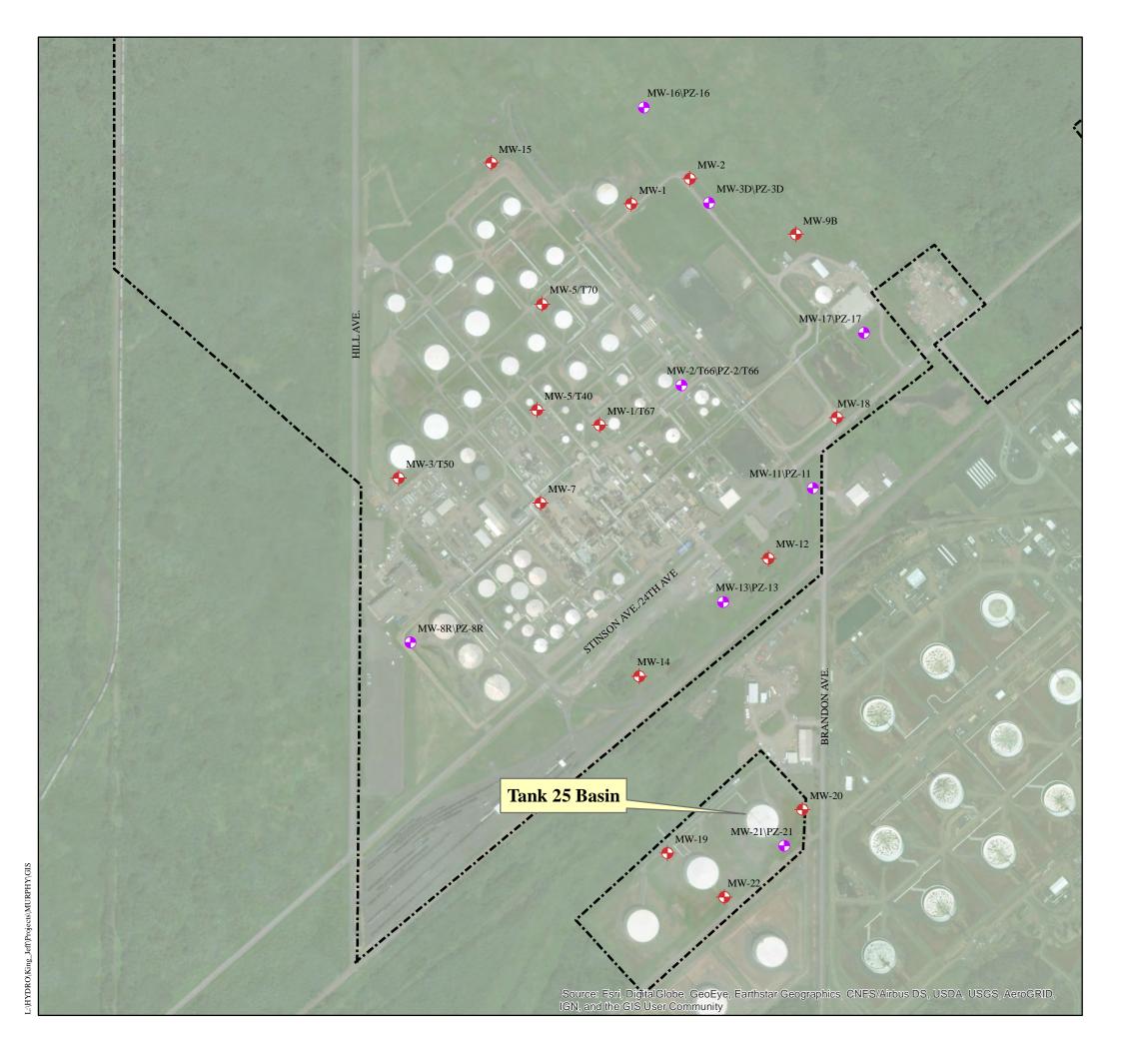
Site Location Map

SUPERIOR REFINING COMPANY LLC SUPERIOR REFINERY SUPERIOR, WISCONSIN



Gannett Fleming, Inc. 8025 Excelsior Drive Madison WI 53717-1900 (608) 836-1500 www.gannettfleming.com

Project No. 34265.003 Date 04/04/18 Figure



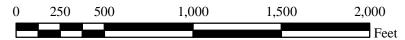


Legend

- Monitoring Well
- → Monitoring Well\Piezometer Pair
- --- Approximate Calumet Property Boundary

Note:

Well\Piezometer locations based on 02/06/15 survey by TKDA using a Trimble GNSS RTK GPS R8 Model 3



Facility-Wide Groundwater Monitoring Network

SUPERIOR REFINING COMPANY LLC SUPERIOR REFINERY SUPERIOR, WISCONSIN



Gannett Fleming, Inc. 8025 Excelsior Drive Madison WI 53717-1900 (608) 836-1500 www.gannettfleming.com

Project No. 34265.003 Date 02/16/16 Figure 2





Legend

- Soil Boring Location That Screened Above 10ppmv and Had Detected Concentrations Above Applicable Direct Contact Limits
- O Soil Boring Location That Screened Above 10ppmv and Had Detected Concentrations Below Applicable Direct Contact Limits
- O Soil Boring Location That Screened Below 10ppmv

Estimated Horizontal Extent Of Hydrocarbon-Impaced Soil

Structural Impediments In Investigation Area

Notes:

- 1) Tank 25 is currently being used to store crude oil.
- 2) Not all boring locations that screened above 10ppmv were analyzed for PVOCs/Naphthalene.

0 510 20 30 40

Approximate Scale in Feet

Tank 25 Basin Hydrocarbon-Impacted Soil Investigation (March 2018)

CALUMET SUPERIOR, LLC SUPERIOR REFINERY SUPERIOR, WISCONSIN



Gannett Fleming, Inc. 8025 Excelsior Drive Madison WI 53717-1900 (608) 836-1500 www.gannettfleming.com

Project No. 34265.003 Date 4/17/18 Figure 3

SUPERIOR REFINING COMPANY LLC SUPERIOR, WISCONSIN

TANK 25 BASIN HISTORICAL CONTAMINATION INVESTIGATION SOIL ANALYTICAL RESULTS

TABLE 1

	San	nple	Final			Ethyl-					1,2,4-	1,3,5-	TMBs	Naph-	Shallo	w Soil
Boring	Interval ⁽¹⁾		Grade ⁽¹⁾	PID	Benzene	benzene	Toluene	Xylenes		MTBE	TMB	TMB	combined	thalene	Multiple C	ontaminant
ID	(ft bgs)	Date	(ft bgs)	(ppmv)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	Cumul	lative ⁽²⁾
	NR 720 R	CL soil to g	roundwate	r pathway	0.0051	1.57	1.1072	3.96		0.027	NS	NS	1.3787	0.6582	Hazard	Cancer
	NR 720 F	RCL for ind	ustrial dire	ect contact	7.07	35.4	818	260		282	219	182	NS	24.1	Index	Risk
GP-1	0-2	03/19/18	0-2	69	< 0.025	0.0756	< 0.025	0.176	U	< 0.025	0.302	0.200	0.502	0.570	0.001	2.6E-08
GP-11	0-1	03/20/18	1-2	36.2	< 0.025	< 0.025	< 0.025	0.075	U	< 0.025	0.025 U	0.025 U	0.050 U	< 0.025		
GP-12 ⁽³⁾	1-3	"	2-4	26.2	< 0.100	0.363	< 0.100	0.830	J	< 0.100	1.580	1.060	2.640	3.500	0.0056	1.6E-07
GP-13 ⁽³⁾	0-1	"	1-2	50.3	< 0.100	0.230 J	< 0.100	0.673	J	< 0.100	2.250	1.290	3.540	4.420	0.0071	1.9E-07
GP-14 ⁽³⁾	1-3	"	2-4	33.9	< 0.0625	0.373	< 0.0625	0.768	J	< 0.0625	2.130	1.140	3.270	2.490	0.0047	1.1E-07
GP-15	0-1	"	1-2	241	4.590	22.000	< 0.500	26.060		< 0.500	70.800	19.500	90.300	25.700	0.086	2.3E-06
GP-16 ⁽³⁾	1-3	"	2-4	151	0.211	1.330	< 0.0500	2.037		< 0.0500	5.870	2.240	8.110	2.710	0.0077	1.8E-07
GP-19 ⁽³⁾	1-3	"	2-4	40	< 0.0500	0.692	< 0.0500	1.382		< 0.0500	2.940	1.530	4.470	2.230	0.0051	1.1E-07
GP-20 ⁽³⁾	0-1	"	1-2	48	1.940	3.510	< 0.100	3.003	J	< 0.100	4.240	2.400	6.640	5.470	0.0138	6.0E-07
GP-23 ⁽³⁾	1-3	"	2-4	52	< 0.100	0.679	< 0.100	1.305		< 0.100	3.130	1.640	4.770	3.930	0.0072	1.8E-07
$GP-27^{(3)}$	1-3	"	2-4	38	< 0.100	0.196 J	< 0.100	0.417	JU	< 0.100	0.100 U	0.671	0.771 U	3.580	0.0048	1.5E-07

TABLE 1

TANK 25 BASIN HISTORICAL CONTAMINATION INVESTIGATION SOIL ANALYTICAL RESULTS

NOTES:

Concentrations are in units of milligrams per kilogram (mg/kg) on a dry weight basis.

Detected concentrations at or above an applicable NR 720 industrial direct contact RCL are in red font and bold.

Detected concentrations at or above an applicable NR 720 soil to groundwater pathway RCL are in red font and italicized.

NR 720 residual contaminant level (RCL) standards from WDNR's RR Program Soil RCL Excel workbook updated December 2017.

Samples analyzed for the petroleum volatile organic compounds and naphthalene.

J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MTBE = Methyl tert butyl ether

NS = No standard

PID = Photo-ionization detector reading (with an 11.7-eV lamp) in parts per million, volume (ppmv)

TMBs (combined) = Trimethylbenzenes (1,2,4- and 1,3,5- combined)

U = Compound not detected at or above the detection limit, which is the value shown for all substances expect xylenes and TMBs (combined).

-- = Not applicable because only one substance was detected.

FOOTNOTES:

- (1) Clean backfill will be placed to restore original grade. Sample Interval data & their corresponding Final Grade depths (approx.) are in feet below ground surface (ft bgs).
- (2) Industrial multiple contaminant cumulative cancer risk (CCR) and hazard index (HI) levels, if applicable (based on detected concentrations only). Thresholds are 1E-5 for CCR and 1 for HI per NR 720.12(1)(b), Wis. Adm. Code.
- (3) Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

ATTACHMENT A

SOIL BORING LOGS AND FILLING AND SEALING REPORTS FOR GP-1 THROUH GP-30

sources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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State of Wisconsin	
Department of Natural	Resources

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98 Watershed/Wastewater Waste Management Route To: Remediation/Revelopment X Other License/Permit/Monitoring Number Facility/Project Name GP Superior Refining Company Tank 25 Boring Drilled By: Name of crew chief (first, last) and Firm Date Drilling Started Date Drilling Completed Drilling Method First Name: Last Name: **Direct Push** Twin Ports Testing WI Unique Well No. Final Static Water Level DNR Well ID No. Well Name Surface Elevation Borehole Diameter 658 Feet MSL Feet MSL inches Local Grid Origin ☐ (estimated: ☐) or Boring Location Local Grid Location Lat 460 68 5386 \Box E \square N Long 97.0068420 1/4 of NW 1/4 of Section 36, T49 Feet □ S Feet□ W Facility ID County Code Civil Town/City/ or Village County 816009590 6 Superior Douglas Sample Soil Properties Depth in Feet (Below ground surface) Recovered (in) Soil/Rock Description Blow Counts Compressive Strength Length Att. And Geologic Origin For Moisture Content USCS PID/FID Plasticity Index Well Diagram Graphic Log Each Major Unit Liquid Limit P 200 0.0 Br. Clay pense -7` 0.0 0.0 -5 FOD FOD I hereby certify that the information on this form is true and correct to the best of my knowledge.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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State of Wisconsin	
Department of Natural	Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98 Watershed/Wastewater Waste Management Route To: Remediation/Revelopment X Other Boring Number License/Permit/Monitoring Number Facility/Project Name Superior Refining Company Tank 25 6P-Boring Drilled By: Name of crew chief (first, last) and Firm Date Drilling Started Date Drilling Completed Drilling Method Last Name: $\frac{0}{m}\frac{3}{m}/\frac{1}{d}\frac{9}{d}/\frac{2}{y}\frac{0}{y}\frac{1}{y}$ Direct Push Twin Ports Testing WI Unique Well No. DNR Well ID No. Final Static Water Level Surface Elevation Well Name Borehole Diameter 658 Feet MSL Feet MSL inches Local Grid Origin (estimated:) or Boring Location Local Grid Location Lat 46.0 685345 \Box E \square N Long 97, 068501 SE 1/4 of <u>NW</u> 1/4 of Section <u>3C</u> Feet I S Feet□ W Facility ID County Code Civil Town/City/ or Village County 816009590 Superior Douglas 6 Sample Soil Properties Depth in Feet (Below ground surface) જ Soil/Rock Description Blow Counts Length Att. RQD/ Comments Recovered And Geologic Origin For Compressiv Strength uscs PID/FID Moisture Content Plasticity Index Well Diagram Graphic Each Major Unit Liquid Limit P 200 3 Brn. Clay. Dense frost top Z' i).0 5 0.0 -10 10 EOB

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

State of Wisconsin	
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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98 Watershed/Wastewater Waste Management Route To: Remediation/Revelopment X Other Facility/Project Name License/Permit/Monitoring Number Boring Number Superior Refining Company Tank 25 Boring Drilled By: Name of crew chief (first, last) and Firm Date Drilling Started Date Drilling Completed | Drilling Method **Direct Push** Twin Ports Testing WI Unique Well No. DNR Well ID No. Well Name Final Static Water Level Surface Elevation Borehole Diameter 658 Feet MSL Feet MSL inches Local Grid Origin (estimated:) or Boring Location Local Grid Location Lat 46.0685 215 State Plane o E SE 1/4 of NW 1/4 of Section 36, T 49 N, R 14W Feet D S Feet□ W Facility ID Civil Town/City/ or Village County Code County 816009590 Douglas 6 Superior 1 Soil Properties Sample Depth in Feet (Below ground surface) ન્ધ્ર Soil/Rock Description Blow Counts Compressive Strength Length Att. Recovered And Geologic Origin For USCS PID/FID Plasticity Well Diagram Moisture Content Graphic Each Major Unit Liquid Limit P 200 0.0 Brn. Clay pense 7 5 5 I hereby certify that the information on this form is true and correct to the best of my knowledge.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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SOIL BORING LOG INFORMATION Department of Natural Resources Form 4400-122 Rev. 7-98 Watershed/Wastewater Waste Management Route To: Remediation/Revelopment X Other Facility/Project Name License/Permit/Monitoring Number Boring Number Superior Refining Company Tank 25 Boring Drilled By: Name of crew chief (first, last) and Firm Date Drilling Started Date Drilling Completed Drilling Method $\frac{03}{m}, \frac{19}{d}, \frac{20}{y}$ 03,19,<u>2018</u> **Direct Push** Firm: Twin Ports Testing m m WI Unique Well No. DNR Well ID No. Final Static Water Level Borehole Diameter Well Name Surface Elevation 658 Feet MSL Feet MSL inches Local Grid Origin (estimated:) or Boring Location Local Grid Location Lat 46°685352 State Plane ΠE ΠN Feet□ W Feet
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I hereby certify that the information on this form is true and correct to the best of my knowledge. Firm Signature Gannett Fleming

SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

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SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

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SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98
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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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SOIL BORING LOG INFORMATION

Department of Natural Resources Form 4400-122 Rev. 7-98 Watershed/Wastewater Waste Management Route To: Remediation/Revelopment X Other Facility/Project Name License/Permit/Monitoring Number Superior Refining Company Tank 25 Boring Drilled By: Name of crew chief (first, last) and Firm Date Drilling Started Date Drilling Completed | Drilling Method $\frac{0}{m}\frac{3}{m}/\frac{1}{d}\frac{0}{d}/\frac{2}{y}\frac{D}{y}\frac{1}{y}\frac{8}{y}$ $\frac{03}{m} \frac{7}{0} \frac{7}{0} \frac{0}{0} \frac{7}{0} \frac{0}{y} \frac{1}{y} \frac{8}{y}$ **Direct Push** Firm: Twin Ports Testing WI Unique Well No. DNR Well ID No. Final Static Water Level Surface Elevation Borehole Diameter 658 Feet MSL Feet MSL inches Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ Local Grid Location Lat 46.085463 \Box E ΠN Long 97.06856 N, R14 W SE 1/4 of NW 1/4 of Section 36, T 49 Feet□ W Feet
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I hereby certify that the information on this form is true and correct to the best of my knowledge. Gannett Fleming Signature Firm

State of Wisconsin

SOIL BORING LOG INFORMATION

Department of Natural Resources Form 4400-122 Rev. 7-98 Watershed/Wastewater Waste Management Route To: Remediation/Revelopment X Other Facility/Project Name License/Permit/Monitoring Number Superior Refining Company Tank 25 P-1 Boring Drilled By: Name of crew chief (first, last) and Firm Date Drilling Started Date Drilling Completed | Drilling Method Last Name: $\frac{3}{m} \frac{3}{m} / \frac{70}{d} \frac{7}{d} \frac{9}{y} \frac{9}{y}$ $\frac{03}{m}, \frac{70}{d}, \frac{20}{y}, \frac{1}{y}$ Direct Push Twin Ports Testing $\overline{\mathbf{m}}$ $\overline{\mathbf{m}}$ Well Name Final Static Water Level WI Unique Well No. DNR Well ID No. Surface Elevation Borehole Diameter 658 Feet MSL Feet MSL inches Local Grid Origin (estimated:) or Boring Location Local Grid Location Lat 46, 685412 State Plane \square N \Box E <u>SE 1/4 of NW 1/4 of Section 36</u>, T 49 N. R 14 W Feet□ W Feet
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I hereby certify that the information on this form is true and correct to the best of my knowledge. annett Fleming Signature

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SOIL RODING LOG INFORMATION

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

this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin	
Department of Natural	Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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State of Wisconsin	
Department of Natural	Resources

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State of Wisconsin	
Department of Natural	Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98
Watershed/Wastewater Waste Management

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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	Page 1 of \ acility/Project Name License/Permit/Monitoring Number Boring Number																			
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State of Wisconsin SOIL BORING LOG INFORMATION Department of Natural Resources Form 4400-122 Rev. 7-98 Watershed/Wastewater Waste Management Route To: Remediation/Revelopment X Other Facility/Project Name License/Permit/Monitoring Number Boring Number Superior Refining Company Tank 25 19 P Boring Drilled By: Name of crew chief (first, last) and Firm Date Drilling Started Date Drilling Completed Drilling Method $\frac{0}{m}\frac{3}{m},\frac{7}{d}\frac{0}{d},\frac{7}{y}\frac{0}{y}\frac{1}{y}$ $\frac{O}{m} \frac{3}{m} / \frac{2}{d} \frac{O}{d} / \frac{2}{y} \frac{O}{y}$ Direct Push Twin Ports Testing WI Unique Well No. DNR Well ID No. Well Name Final Static Water Level Surface Elevation Borehole Diameter Feet MSL 658 Feet MSL inches Local Grid Origin (estimated:) or Boring Location Local Grid Location Lat 46.685809 N, \square N \Box E Long 97.068 402 SE 1/4 of NW 1/4 of Section 36 Feet□ W Feet D S Facility ID County Code Civil Town/City/ or Village County 816009590 Superior Douglas 6 Sample Soil Properties Depth in Feet (Below ground surface) ઝ Recovered (in) Soil/Rock Description Blow Counts Length Att. RQD/ Comments And Geologic Origin For Compressiv Strength Log Well Diagram uscs PID/FID Moisture Content Plasticity Index Each Major Unit Graphic Liquid Limit P 200 Brn. Dense Clay collected trough ice CP-23 5 1320 3 23.7 ۰2, 5 9 00 io -10 EOB

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

Signature

Firm Cannett Fleming

State of Wisconsin	
Department of Natural	Resources

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State of Wisconsin	
Department of Natural	Resources

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State of Wisconsin	
Department of Natural	Resources

	Route To: Watershed/Wastewater Waste Management Remediation/Revelopment Other D																			
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State of Wisconsin Department of Natural Resources

SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin Department of Natural Resources

SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

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		tify th	at the	inforr	nation on this	form is true and c			he bes	st of n	ıy kno	~~						
Signati	ure	-						Firm	60	unn	et.	1 1	Flen	NIM	4			

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin Department of Natural Resources

Signature

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98 Watershed/Wastewater Waste Management Route To: Remediation/Revelopment X Other Facility/Project Name License/Permit/Monitoring Number 6P Superior Refining Company Tank 25 Boring Drilled By: Name of crew chief (first, last) and Firm Date Drilling Started Date Drilling Completed | Drilling Method $\frac{03}{m}, \frac{20}{d}, \frac{20}{y}, \frac{18}{y}$ Last Name: First Name: $\frac{03}{m}, \frac{70}{d}, \frac{70}{y}, \frac{18}{y}$ Direct Push Twin Ports Testing Surface Elevation
658 Feet MSL WI Unique Well No. DNR Well ID No. Final Static Water Level Borehole Diameter Well Name Feet MSL inches Local Grid Origin □ (estimated: □) or Boring Location □ Local Grid Location ΠE \square N SE 1/4 of <u>NW</u> 1/4 of Section 36 N. R 14 W Feet
S Feet□ W Facility ID Civil Town/City/ or Village County Code County Superior 816009590 Douglas 6 Sample Soil Properties Depth in Feet (Below ground surface) Length Att. & Recovered (in) Soil/Rock Description Blow Counts RQD/ Comments And Geologic Origin For USCS PID/FID Moisture Content Plasticity Index Well Diagram Graphic Each Major Unit Liquid Limit P 200 Š 0.0 Brn. Dense Clay 0.0 3` 5 5 EOB I hereby certify that the information on this form is true and correct to the best of my knowledge.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Firm

Gunnett

Fleming

State	of	Wisconsi	n	
Dena	rtm	ent of Na	tural	Resources

SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

			Rout	e To:		Vastewater 🔲 Wa /Revelopment 🛚												
						, tto relepinent	-								Page	1	of	ι
Facilit	y/Proje	ct Nar	ne		- T 10			Licens	se/Pern	nit/Mo	nitorin	g Num	ber	Boring	Numl	1et	P - 3	
	•				pany Tank 25 w chief (first,			Date I	Drilling	Starte	-d	Date D	rilling	Comr	leted			
First N	lame:	_		Last l	Name:				$\frac{20}{\mathbf{d}}$			<u>03</u>						
Firm:	Twin	וסץ ח	ts le	Sting	Well ID No.	Well Name			d d Static V			m m				Boreho	ect P	
										Feet N	121	6	58	Foot 1	121	7		nches
Local State F	Grid O	rigin	□ (es	timated	l:□) or Bo N,	ring Location		L	at 46.	068°	5597	Local	Grid L	ocatio	n N			— — — — — — — — — — — — — — — — — — —
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Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)		And Geo	ck Description logic Origin For Major Unit			uscs	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
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I here	by cer	tify th	at the	inforr	nation on this	form is true and c	orre	ct to t	he bes	t of m	ıy kno	wledg	e.		.1	1	I	1
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Well / Drillhole / Borehole Filling & Sealing Report

3							Form 3300-0	05 (R 4/2015))			Pa	ige 1 of 2
Notice: Completion of this													
accordance with chs. 281, for up to one year, depend													
purpose. Return form to th			ffice ar	nd bure	au. See	instructi							
						Bureau:							
	of Fill a	nd Seal		=	rinking V			Watershed/W	/astewater	X Reme	ediation	/Redeve	elopment
				w	/aste Ma	anageme		Other:					
1. Well Location Infor			Ι.					/ Owner Inf	ormation				
County	Removed	ie Well # of d Well		licap #			Facility Nam		r Compony I				
Douglas								ID or PWS)	g Company L	LC			
Latitude / Longitude (see in	nstructions	s) Fo	ormat C	Code	Method	Code	816009						
46.685480°		N	√ D	D		PS008 CR002		mit/Monitoring	#				
92.068267°		w		DM		TH001	Elochioch on	mumormormg	, ,				
1/4 / 1/4 SE,SE 1/4 NW	,	Section	Towr	ship	Range	ПЕ	Original Wel	II Owner					
or Gov't Lot #		36	49	N	14	\ \ \ \ \ \ \			Company L	LC			
Well Street Address			1.0	- 11	' '	<u> </u>	Present Wel	_	, , ,				
2407 Stinson Ave	<u> </u>						Superio	r Refining	g Company L	LC			
Well City, Village or Town	-			Well	ZIP Cod	e	_	ress of Presen					
Superior				548	880		_	inson Ave	9.				
Subdivision Name				Lot #			City of Prese			State		Code	
							Superio			WI		1880	
Reason for Removal from		WI Uniqu	e Well	# of Re	placeme	nt Well		Liner, Scree d piping remov	en, Casing & Sea	aling Ma	Yes	No	✓ N/A
Temporary Boring	•	_				_	Liner(s) re		reu :	-	Yes	HNo	_
3. Filled & Sealed Wel		ole / Bore riginal Cons				0004		erforated?		┝	Yes	HNo	-
Monitoring Well					(IIIII/du/	уууу)	Screen re			⊢	Yes	HNo	V N/A
Water Well		03/19/					Casing le	ft in place?		Ė	Yes	Ħ№	
Borehole / Drillhole		a Well Con l ease attach		on Repo	ort is ava	ıilable,	Was casii	ng cut off be l o	w surface?	<u> </u>	Yes	□ _{No}	
Construction Type:	IP	icase attaci	1.				1	ng material rise		<u> </u>	7 Yes	HNo	₩ _{N/A}
	Oriven (Sa	indnoint)	Г	Dug	,			rial settle after		ľ	Yes	√ No	\vdash
= -			L		9		If yes	, was ho l e reto	opped?	<u> </u>	Yes	∏ _{No}	=
Other (specify):									used, were they hyd	drated _	_ / Yes		□ □N/A
Formation Type:	- C		Dl	-1.					n safe source?	L			
Unconsolidated Form			Bedro		(1)		1 <u> </u>		ng Sealing Material vity	Dina Du	mnad		
Total Well Depth From Gro	ound Surfa	ice (ft.) Ca	asıng D	iamete	r (ın.)			ned & Poured	· =	-	прец		
5'							(Bento	nite Chips)	Other (Exp	olain):			
Lower Drillhole Diameter (i	n.)	Ca	asing D	epth (ft	.)		Sealing Mate		_	7			
2"							1=	Cement Grout	<u> </u>	Concre			
Was well annular space gro	outed?		es [□No	Пп	Inknown	_	Cement (Cond	_	Benton		S	
					П	——	1 —	-	Monitoring Well Bor		•		
If yes, to what depth (feet)?	•	Depth to	vvate	r (reet)				nite Chips	=	onite - Ce			
							Granu	lar Bentonite		onite - Sa			
5. Material Used to Fil	ll Well / [Drillhole					From (ft.)	To (ft.)	No. Yards, Sacks Volume (cird		or	Mix Rat Mud W	
Bentonite Chips							Surface	5'	0.1 cubic fee	,			,
•													
6. Comments													
7. Supervision of Wor										DNR Us	se Onl	у	
Name of Person or Firm Do		g & Sealing	Lice	nse #			-	g or Verificatio	n Date Received		Note		
Gannett Fleming					(1		/yy) 03/20/						
Street or Route	_						elephone Nun		Comments				
8025 Excelsior Dr	•	10.	01-1	lare	0 - 1	(608) 836		NA/- al-	1.	2-4- 0:		
City		Į;	State	ĮΖΙΡ	Code		Signature of	Person Doing	j vvork	ĮĽ	Date Sig	ınea	

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04/16/2018

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

04/16/2018

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information. Route to DNR Bureau: Drinking Water Watershed/Wastewater X Remediation/Redevelopment Verification Only of Fill and Seal Waste Management Other: 1. Well Location Information 2. Facility / Owner Information WI Unique Well # of Hicap # Facility Name County Removed Well Superior Refining Company LLC Douglas Facility ID (FID or PWS) Latitude / Longitude (see instructions) Format Code Method Code 816009590 ✓ GPS008 46.685436° **√** DD License/Permit/Monitoring# SCR002 92.068344° DDM W OTH001 Section Township Range Original Well Owner ¹/₄ SE.SE ¹/₄ NW Superior Refining Company LLC 36 49 or Gov't Lot # 14 W Ν Present Well Owner Well Street Address Superior Refining Company LLC 2407 Stinson Ave. Mailing Address of Present Owner Well City, Village or Town Well ZIP Code 2407 Stinson Ave. Superior 54880 City of Present Owner ZIP Code State Subdivision Name Lot# Superior WI 54880 4. Pump, Liner, Screen, Casing & Sealing Material Reason for Removal from Service WI Unique Well # of Replacement Well Pump and piping removed? Temporary Boring Liner(s) removed? Yes No 3. Filled & Sealed Well / Drillhole / Borehole Information Liner(s) perforated? Yes Nο Original Construction Date (mm/dd/yyyy) Monitoring Well Screen removed? Yes No 03/19/2018 Water Well Casing left in place? No Yes If a Well Construction Report is available, Borehole / Drillhole Was casing cut off below surface? Yes please attach. Construction Type: Did sealing material rise to surface? Yes No Did material settle after 24 hours? **|√**|No N/A Yes Drilled ✓ Driven (Sandpoint) Dug If ves, was hole retopped? Yes Nο N/A Other (specify): If bentonite chips were used, were they hydrated Formation Type: **√** Yes with water from a known safe source? ✓ Unconsolidated Formation Bedrock Required Method of Placing Sealing Material Total Well Depth From Ground Surface (ft.) Casing Diameter (in.) Conductor Pipe-Gravity Conductor Pipe-Pumped Screened & Poured Other (Explain): (Bentonite Chips) Lower Drillhole Diameter (in.) Casing Depth (ft.) Sealing Materials Neat Cement Grout Concrete Sand-Cement (Concrete) Grout Bentonite Chips Was well annular space grouted? No Unknown Yes For Monitoring Wells and Monitoring Well Boreholes Only: If yes, to what depth (feet)? Depth to Water (feet) ✓ Bentonite Chips Bentonite - Cement Grout Granular Bentonite Bentonite - Sand Slurry No. Yards, Sacks Sealant or Mix Ratio or 5. Material Used to Fill Well / Drillhole From (ft.) To (ft.) Volume (circle one) 15' Surface Bentonite Chips 0.3 cubic feet 6. Comments **DNR Use Only** 7. Supervision of Work Name of Person or Firm Doing Filling & Sealing License # Date of Filling & Sealing or Verification Date Received Noted By (mm/dd/yyyy) 03/20/2018 Gannett Fleming Street or Route Telephone Number Comments 8025 Excelsior Dr. (608) 836-1500 City Signature of Person Doing Work ZIP Code Date Signed State

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Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

04/16/2018

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information. Route to DNR Bureau: Drinking Water Watershed/Wastewater X Remediation/Redevelopment Verification Only of Fill and Seal Waste Management Other: 1. Well Location Information 2. Facility / Owner Information WI Unique Well # of Hicap # Facility Name County Removed Well Superior Refining Company LLC Douglas Facility ID (FID or PWS) Latitude / Longitude (see instructions) Format Code Method Code 816009590 ✓ GPS008 46.685386° **√** DD License/Permit/Monitoring# SCR002 92.068420° DDM W OTH001 Section Township Range Original Well Owner ¹/₄ SE.SE ¹/₄ NW Superior Refining Company LLC 36 49 or Gov't Lot # 14 W Ν Present Well Owner Well Street Address Superior Refining Company LLC 2407 Stinson Ave. Mailing Address of Present Owner Well City, Village or Town Well ZIP Code 2407 Stinson Ave. Superior 54880 City of Present Owner ZIP Code State Subdivision Name Lot# Superior WI 54880 4. Pump, Liner, Screen, Casing & Sealing Material Reason for Removal from Service WI Unique Well # of Replacement Well Pump and piping removed? Temporary Boring Liner(s) removed? Yes No 3. Filled & Sealed Well / Drillhole / Borehole Information Liner(s) perforated? Yes Nο Original Construction Date (mm/dd/yyyy) Monitoring Well Screen removed? Yes No 03/19/2018 Water Well Casing left in place? No Yes If a Well Construction Report is available, Borehole / Drillhole Was casing cut off below surface? Yes please attach. Construction Type: Did sealing material rise to surface? Yes No Did material settle after 24 hours? No N/A Yes |√| Drilled ✓ Driven (Sandpoint) Dug If ves, was hole retopped? Yes Nο N/A Other (specify): If bentonite chips were used, were they hydrated Formation Type: **√** Yes with water from a known safe source? ✓ Unconsolidated Formation Bedrock Required Method of Placing Sealing Material Total Well Depth From Ground Surface (ft.) Casing Diameter (in.) Conductor Pipe-Gravity Conductor Pipe-Pumped Screened & Poured 5' Other (Explain): (Bentonite Chips) Lower Drillhole Diameter (in.) Casing Depth (ft.) Sealing Materials Neat Cement Grout Concrete Sand-Cement (Concrete) Grout Bentonite Chips Was well annular space grouted? No Unknown Yes For Monitoring Wells and Monitoring Well Boreholes Only: If yes, to what depth (feet)? Depth to Water (feet) ✓ Bentonite Chips Bentonite - Cement Grout Granular Bentonite Bentonite - Sand Slurry No. Yards, Sacks Sealant or Mix Ratio or 5. Material Used to Fill Well / Drillhole From (ft.) To (ft.) Volume (circle one) Surface 5 Bentonite Chips 0.1 cubic feet 6. Comments **DNR Use Only** 7. Supervision of Work Name of Person or Firm Doing Filling & Sealing License # Date of Filling & Sealing or Verification Date Received Noted By (mm/dd/yyyy) 03/20/2018 Gannett Fleming Street or Route Telephone Number Comments 8025 Excelsior Dr. (608) 836-1500 City Signature of Person Doing Work ZIP Code Date Signed State

WI

53717

Well / Drillhole / Borehole Filling & Sealing Report

3						Form 3300-	005 (I	R 4/2015)			Pag	je 1 of 2
Notice: Completion of this													
accordance with chs. 281,													
for up to one year, depending purpose. Return form to the										not intended	to be use	a ior ar	iy otner
					Bureau:								
Verification Only	of Fill and So	al		rinking	Water		Wat	ershed/W	/astewater	X Ren	nediation/	Redevel	opment
verification only	or r ill ariu Se	aı	l⊟v	vaste M	anageme	nt 🗀	Othe	er:					
1. Well Location Inform	mation				anagomo				formation				
	WI Unique Well#	ŧ of	Hicap #			Facility Na		wiler iii	Officiation				
•	Removed Well		i noap "			1		efining	g Compan	vIIC			
Douglas						Facility ID			g Compan	,			
Latitude / Longitude (see in	structions)	Forma	t Code	Metho	d Code	816009	•						
46.685345°	N		DD		SPS008 SCR002	License/Pe			1 #				
92.068501°	W		DDM		TH001	Liconocii	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, "				
			wnship	Range		Original We	ell Ow	ner					
or Gov't Lot #	36	4	_ '	1	шч				g Compan	/IIC			
	30	4	9 _N	14	√ W	Present We			g Compan	y LLO			
Well Street Address									g Compan	, I I C			
2407 Stinson Ave	•					Mailing Add				y LLO			
Well City, Village or Town				ZIP Cod	de	2407 S							
Superior				880		City of Pres			<u>. </u>	State	IZID (Code	
Subdivision Name			Lot #	:		Superi		WITE		WI		880	
								r Sero	en, Casing &				
Reason for Removal from S		nique We	ell # of Re	placem	ent Well			ing remov		Sealing IV	Yes	No	√ N/A
Temporary Boring					_	Liner(s)		-	vou:		Yes	No	N/A
3. Filled & Sealed Well					, ,	Liner(s)					Yes	H _{No}	N/A
Monitoring Well	Original C			(mm/dd/	/уууу)	Screen r					Yes	H _{No}	N/A
Water Well	03/1	9/201	8			Casing I				ľ	Yes	H _{No}	N/A
	If a Well (Construc	tion Rep	ort is av	ailable,					<u> </u>		 	=
✓ Borehole / Drillhole	please at	tach.					•		w surface?		Yes	No	V N/A
Construction Type:							•		e to surface?	ļ	✓ Yes	∐_No	∐N/A
☐ Drilled ✓ □	Oriven (Sandpoint))	Du	9		Did mate	erial se	ett l e after	24 hours?	ļ	Yes	✓No	∐N/A
Other (specify):								s hole ret			Yes	No	√ N/A
Formation Type:									used, were the n safe source?	y hydrated	√ Yes	No	□N/A
✓ Unconsolidated Forma	ation [Bedr	ock.						ng Sealing Mate				
				r (in)		1 —			vity Cond		ımned		
Total Well Depth From Gro	und Sunace (II.)	Casing	Diamete	r (III.)				Reported Report Pour Pour Pour Pour Pour Pour Pour Pour	· =	-	umpeu		
10'						(Bent	tonite	Chips)	U Other	(Exp l ain):			
Lower Drillhole Diameter (in	า.)	Casing	Depth (f)		Sealing Ma				_			
2"						Neat	Ceme	ent Grout		Concr	ete		
		1		$\overline{}$		Sand	-Ceme	ent (Cond	crete) Grout	Bento	nite Chips	;	
Was well annular space gro	uted?	Yes	No	Шι	Jnknown	For Monito	ring W	Vells and	Monitoring Wel	Boreholes (Only:		
If yes, to what depth (feet)?	Dept	th to Wa	ter (feet)			 ✓ Bento	onite C	Chips		Bentonite - C	ement Gr	out	
						Gran	ular Bo	entonite	一一一	Bentonite - S	and Slurry	,	
5 Matarial Handto Fil	I Marilla / Dustilla a	-							No. Yards, Sa			Mix Rati	o or
5. Material Used to Fill	i weli / Drilinoi	ie				From (ft.)		Γο (ft.)	Volume (circle one)		Mud We	
Bentonite Chips						Surface	10	<u>)' </u>	0.2 cubic	feet			
6. Comments													
7. Supervision of Wor	k									DNR I	lse Only	I	
Name of Person or Firm Do		ing Lie	cense #		Date of F	Iling & Sea l ir	ng or \	√erificatio	n Date Recei		Noted		
Gannett Fleming				((mm/dd/y	ууу) 03/2 0)/201	18					
Street or Route		L			Т	e l ephone Nu	ımber		Comments				
8025 Excelsior Dr	-				(608)83	6-15	500					
City		State	ZIP	Code	1	Signature of	of Pers	son Doing	g Work		Date Sigi	ned	
Madison		WI	53	3717				-	25		04/16	/2018	}

Well / Drillhole / Borehole Filling & Sealing Report

04/16/2018

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information. Route to DNR Bureau: Drinking Water Watershed/Wastewater X Remediation/Redevelopment Verification Only of Fill and Seal Waste Management Other: 1. Well Location Information 2. Facility / Owner Information WI Unique Well # of Hicap # Facility Name County Removed Well Superior Refining Company LLC Douglas Facility ID (FID or PWS) Latitude / Longitude (see instructions) Format Code Method Code 816009590 ✓ GPS008 46.685335° **√** DD License/Permit/Monitoring# SCR002 92.068261° DDM W OTH001 Section Township Range Original Well Owner ¹/₄ SE.SE ¹/₄ NW Superior Refining Company LLC 36 49 or Gov't Lot # 14 W Ν Present Well Owner Well Street Address Superior Refining Company LLC 2407 Stinson Ave. Mailing Address of Present Owner Well City, Village or Town Well ZIP Code 2407 Stinson Ave. Superior 54880 City of Present Owner ZIP Code State Subdivision Name Lot# Superior WI 54880 4. Pump, Liner, Screen, Casing & Sealing Material Reason for Removal from Service WI Unique Well # of Replacement Well Pump and piping removed? Temporary Boring Liner(s) removed? Yes No 3. Filled & Sealed Well / Drillhole / Borehole Information Liner(s) perforated? Yes Nο Original Construction Date (mm/dd/yyyy) Monitoring Well Screen removed? Yes No 03/19/2018 Water Well Casing left in place? No Yes If a Well Construction Report is available, Borehole / Drillhole Was casing cut off below surface? Yes please attach. Construction Type: Did sealing material rise to surface? Yes No Did material settle after 24 hours? No N/A Yes |√| Drilled ✓ Driven (Sandpoint) Dug If ves, was hole retopped? Yes Nο N/A Other (specify): If bentonite chips were used, were they hydrated Formation Type: **√** Yes with water from a known safe source? ✓ Unconsolidated Formation Bedrock Required Method of Placing Sealing Material Total Well Depth From Ground Surface (ft.) Casing Diameter (in.) Conductor Pipe-Gravity Conductor Pipe-Pumped Screened & Poured Other (Explain): (Bentonite Chips) Lower Drillhole Diameter (in.) Casing Depth (ft.) Sealing Materials Neat Cement Grout Concrete Sand-Cement (Concrete) Grout Bentonite Chips Was well annular space grouted? No Unknown Yes For Monitoring Wells and Monitoring Well Boreholes Only: If yes, to what depth (feet)? Depth to Water (feet) ✓ Bentonite Chips Bentonite - Cement Grout Granular Bentonite Bentonite - Sand Slurry No. Yards, Sacks Sealant or Mix Ratio or 5. Material Used to Fill Well / Drillhole From (ft.) To (ft.) Volume (circle one) 15' Surface Bentonite Chips 0.3 cubic feet 6. Comments **DNR Use Only** 7. Supervision of Work Name of Person or Firm Doing Filling & Sealing License # Date of Filling & Sealing or Verification Date Received Noted By (mm/dd/yyyy) 03/20/2018 Gannett Fleming Street or Route Telephone Number Comments 8025 Excelsior Dr. (608) 836-1500 City Signature of Person Doing Work ZIP Code Date Signed State

WI

53717

Well / Drillhole / Borehole Filling & Sealing Report

3							Fo	orm 3300-00	05 (R 4/201	15)			Pag	ge 1 of 2
Notice: Completion of this	report is req	uired by	chs. 16	50, 281	, 283,	289, 29	1-29	93, 295, and	d 299, Wis.	Stats., and chs. N	IR 141 and	812, Wis	. Adm. (Code. In
accordance with chs. 281,														
for up to one year, depend purpose. Return form to th											ot intended	to be use	ed for a	ny other
parposo. Notam form to th	о арргорпак	S BINIT OF	_			Burea		10 011 10 1010	101 111010	inionnation.				
	- f [:]]			Пр	rinking	Water			Watershed	/Wastewater	X Ren	nediation/	Redeve	lopment
Verification Only	of Fill and	ı Sear		=	·	anager	nont		Other:					
				v	asie ivi	anagei								
1. Well Location Infor			l.,							nformation				
County	WI Unique V Removed W		H	icap #				aci l ity Nam		•				
Douglas	Tremoved W	CII								ng Company	LLC			
Latitude / Longitude (see ir	nstructions)		— I rmat C	ode	Metho	d Code		acility ID (F						
46.685312°	ioti dotiono,				V	SPS008	: L	816009	590					
-		_ N	=			CR002		.icense/Perr	mit/Monitori	ng #				
92.068553°		_ W		DM		TH001								
1/4 / 1/4 SE,SE 1/4 NW	Sed	ction	Towns	ship	Range	· 🔲 i	<u> </u>	Origina l Well	Owner					
or Gov't Lot #	36	6	49	Ν	14			Superio	r Refinir	ng Company	LLC			
Well Street Address				IN		<u> </u>		Present Well						
							- 1;	Superio	r Refinir	ng Company	LLC			
2407 Stinson Ave				1.47 11 -	710.0			//ailing Addr						
Well City, Village or Town						ae		2407 St						
Superior				548	380			City of Prese		vc.	State	IZID	Code	
Subdivision Name				Lot #				Superio			WI		880	
										.			000	
Reason for Removal from		VI Unique	Well #	f of Rep	olacem	ent We	II 4			een, Casing & S	Sealing W		N	[] N/A
Temporary Boring	3	_				_		· ·	l piping rem	iovea?		Yes	∐ No	V N/A
3. Filled & Sealed Wel								Liner(s) re				Yes	∐No	V N/A
Monitoring Well	Origiı	nal Const	ruction	Date (mm/dd	/yyyy)		Liner(s) pe			ļ	Yes	∐No	√ N/A
		3/19/2	2018					Screen re			ļ	Yes	∐ No	✓ N/A
Water Well	If a \	Noll Cond	tructio	n Dono	rt io ov	oilabla		Casing lef	t in place?			Yes	No	√ N/A
✓ Borehole / Drillhole		Well Cons se attach		пкеро	it is av	aliable,		Was casir	ng cut off be	low surface?		Yes	ΠNo	V N/A
Construction Type:			-						•	ise to surface?	ľ	Yes	Ħ№	Ħ _{N/A}
	Duit (O lu	!41	г	٦,					•	er 24 hours?	Ī	Yes	√ No	M/A
= -	Driven (Sandr	point)	L	Dug					was hole r		l I	Yes	No	N/A
Other (specify):							-	•		e used, were they	hydrated -		الا	V
Formation Type:										wn safe source?	Tiyurateu	√ Yes	No	N/A
✓ Unconsolidated Form	ation		Bedroc	k			F	Required Me	thod of Pla	cing Sealing Mater	ial			
Total Well Depth From Gro		(ft.) Ca	eina Di	ameter	(in)		-	Condu	ctor Pipe-G	ravity Conduc	ctor Pipe-Pu	umped		
	dia Canace	(11.)	onig Di	amoto	(,				ed & Poure		-			
5'								(Bento	nite Chips)	U Other (Exp l ain):			
Lower Drillhole Diameter (i	n.)	Ca	sing De	epth (ft.	.)		S	Sealing Mate			_			
2"								Neat C	ement Gro	ut	Concr	ete		
				_	_			Sand-0	Cement (Co	ncrete) Grout	Bento	nite Chips	3	
Was well annular space gro	outed?	Ye	es L	No	Lυ	Jnknov	'n _F	 For Monitorii	na Wells an	d Monitoring Well I	 Boreholes (Only:		
If yes, to what depth (feet)	?	Depth to	Water	(feet)			- I	_	ite Chips		entonite - C	-	out	
, , , , ,		'		, ,				Ħ	-	=				
								Granui	ar Bentonite		entonite - S			
5. Material Used to Fil	ll Well / Dri	llhole						From (ft.)	To (ft.)	No. Yards, Sac Volume (c			Mix Rati Mud We	
Bentonite Chips								Surface	5'	0.1 cubic f			, maa rre	, ig. ii
Bornorino Ornpo							-	5011400		0.1 000101	CCL			
6. Comments														
o. Comments														
7. Supervision of Wor	·k										DNR U	lse Only	/	
Name of Person or Firm De		Sealing	Licer	nse#		Date of	Fillin	ng & Sea l ing	or Verifica	tion Date Receive		Noted		
Gannett Fleming						(mm/dc	/yyyy	03/20/	2018					
Street or Route							Tele	phone Num	nber	Comments				
8025 Excelsior Dr								08) 836						
City		Is	State	ZIP (Code			Signature of		ng Work		Date Sig	ned	
Madison			WI		717			<u>.</u>		-		04/16		3

Well / Drillhole / Borehole Filling & Sealing Report

04/16/2018

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3						Form 3300-0	05 (R 4/2015))			Pa	ige 1 of 2
Notice: Completion of this re												
accordance with chs. 281, 28 for up to one year, depending	g on the program	and cor	nduct in	volved.	Persona	ally identifiable	e information o	on this form is not in				
purpose. Return form to the	appropriate DNR				instruct		se for more in	formation.				
				rinking \		·	Watershed/W	/astewater [X Reme	diation/	Radave	elopment
Verification Only of	f Fill and Seal		=	J	anageme	.mt □	Other:	rasiewaiei [A INGING	-uiation/	Neueve	лоринени
4 Wall Lagation Inform	otion		v	rasie ivia	mageme			io umo oti o m				
1. Well Location Information	อนเอก /I Unique Well # o	f I+	licap#			Facility Nam	/ Owner Inf	ormation				
	emoved Well					,		g Company Ll	_C			
			- d-	NA - 4h - a			ID or PWS)					
Latitude / Longitude (see inst 46.685215°	ŕ	ormat 0		Method ✓ G	PS008	816009	590					
92.068432°	N	=			CR002	License/Per	mit/Monitoring	#				
	W	_=_	DM		TH001	Onimin al Mal						
14 / 14 SE,SE 14 NW	Section	Towr		Range	ш	Original Wel		g Company Ll	C			
or Gov't Lot #	36	49	N	14	√ W	Present Wel		Oompany Li				
Well Street Address 2407 Stinson Ave.								Gompany Ll	_C			
Well City, Village or Town			Well	ZIP Cod	е		ress of Presen					
Superior				380	•	2407 St	inson Ave	Э.				
Subdivision Name			Lot #			City of Prese			State		Code	
						Superio			WI		880	
Reason for Removal from Se	rvice WI Uniq	ue Well	# of Re	placeme	nt Well		Liner, Scree d piping remov	en, Casing & Sea	iling Ma	iterial Tyes	No	✓ N/A
Temporary Boring						Liner(s) re		reu :	-	Yes	H _{No}	
3. Filled & Sealed Well /	Original Con				VVVV)		erforated?		–	Yes	No	-
Monitoring Well	03/19			(mm/aa/	<i>yyyy)</i>	Screen re				Yes	No	√N/A
Water Well						Casing le	ft in place?		Ē	Yes	No	√ N/A
✓ Borehole / Drillhole	If a Well Co		оп керс	ort is ava	illable,	Was casii	ng cut off belo	w surface?		Yes	No	√ N/A
Construction Type:	! ·					Did sealin	ng material rise	e to surface?	√	Yes	No	□ N/A
□ Drilled	ven (Sandpoint)	[Dug)		Did mater	rial settle after	24 hours?		Yes	✓No	_
Other (specify):		•					, was ho l e reto		. , . L	Yes	No	√ N/A
Formation Type:								used, were they hyd n safe source?	rated 🔽	Yes	No	□ N/A
✓ Unconsolidated Formati	on _	Bedro	ck			Required Me	ethod of P l acir	ng Sealing Material				
Total Well Depth From Groun	nd Surface (ft.)	asing D	iamete	r (in.)			· ·	vity Conductor	Pipe-Pur	nped		
5'						Screen (Rento	ned & Poured onite Chips)	Other (Exp	l ain):			
Lower Drillhole Diameter (in.)) C	asing D	epth (ft	.)		Sealing Mat						
2"						Neat C	Cement Grout		Concre	te		
		. [<u> </u>		Sand-	Cement (Cond	crete) Grout	Bentoni	te Chips	;	
Was well annular space grout		res [No	Шυ	Inknown	For Monitori	ing Wells and I	Monitoring Well Bore	eholes Oi	nly:		
If yes, to what depth (feet)?	Depth	to Wate	r (feet)			✓ Bentor	nite Chips	Bento	nite - Ce	ment Gr	out	
						Granu	lar Bentonite		nite - Saı			
5. Material Used to Fill \	Well / Drillhole					From (ft.)	To (ft.)	No. Yards, Sacks Volume (circle			Mix Rat Mud We	
Bentonite Chips						Surface	5'	0.1 cubic fee	,			y g
6. Comments												
7. Supervision of Work				T					DNR Us			
Name of Person or Firm Doir	ng Filling & Sea l ing	j Lice	nse #			illing & Sealing	_	n Date Received		Noted	Ву	
Gannett Fleming Street or Route				(1		yyy) 03/20/ Telephone Nun		Comments				
8025 Excelsior Dr.						608) 836		Comments				
City		State	ZIP	Code		•	Person Doing	y Work	Ic	ate Sigi	ned	

WI

Madison

53717

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

04/16/2018

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Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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Well / Drillhole / Borehole Filling & Sealing Report

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04/16/2018

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information. Route to DNR Bureau: Drinking Water Watershed/Wastewater X Remediation/Redevelopment Verification Only of Fill and Seal Waste Management Other: 1. Well Location Information 2. Facility / Owner Information WI Unique Well # of Hicap # Facility Name County Removed Well Superior Refining Company LLC Douglas Facility ID (FID or PWS) Latitude / Longitude (see instructions) Format Code Method Code 816009590 ✓ GPS008 46.685631° **√** DD License/Permit/Monitoring# SCR002 92.068277° DDM W OTH001 Section Township Range Original Well Owner ¹/₄ SE.SE ¹/₄ NW Superior Refining Company LLC 36 49 or Gov't Lot # 14 W Ν Present Well Owner Well Street Address Superior Refining Company LLC 2407 Stinson Ave. Mailing Address of Present Owner Well City, Village or Town Well ZIP Code 2407 Stinson Ave. Superior 54880 City of Present Owner ZIP Code State Subdivision Name Lot# Superior WI 54880 4. Pump, Liner, Screen, Casing & Sealing Material Reason for Removal from Service WI Unique Well # of Replacement Well Pump and piping removed? Temporary Boring Liner(s) removed? Yes No 3. Filled & Sealed Well / Drillhole / Borehole Information Liner(s) perforated? Yes Nο Original Construction Date (mm/dd/yyyy) Monitoring Well Screen removed? Yes No 03/20/2018 Water Well Casing left in place? No Yes If a Well Construction Report is available, Borehole / Drillhole Was casing cut off below surface? Yes please attach. Construction Type: Did sealing material rise to surface? Yes No Did material settle after 24 hours? No N/A Yes |√| Drilled ✓ Driven (Sandpoint) Dug If ves, was hole retopped? Yes Nο N/A Other (specify): If bentonite chips were used, were they hydrated Formation Type: **√** Yes with water from a known safe source? ✓ Unconsolidated Formation Bedrock Required Method of Placing Sealing Material Total Well Depth From Ground Surface (ft.) Casing Diameter (in.) Conductor Pipe-Gravity Conductor Pipe-Pumped Screened & Poured 10' Other (Explain): (Bentonite Chips) Lower Drillhole Diameter (in.) Casing Depth (ft.) Sealing Materials Neat Cement Grout Concrete Sand-Cement (Concrete) Grout Bentonite Chips Was well annular space grouted? No Unknown Yes For Monitoring Wells and Monitoring Well Boreholes Only: If yes, to what depth (feet)? Depth to Water (feet) ✓ Bentonite Chips Bentonite - Cement Grout Granular Bentonite Bentonite - Sand Slurry No. Yards, Sacks Sealant or Mix Ratio or 5. Material Used to Fill Well / Drillhole From (ft.) To (ft.) Volume (circle one) **Bentonite Chips** Surface 10' 0.2 cubic feet 6. Comments **DNR Use Only** 7. Supervision of Work Name of Person or Firm Doing Filling & Sealing License # Date of Filling & Sealing or Verification Date Received Noted By (mm/dd/yyyy) 03/20/2018 Gannett Fleming Street or Route Telephone Number Comments 8025 Excelsior Dr. (608) 836-1500 City Signature of Person Doing Work ZIP Code Date Signed State

WI

53717

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

04/16/2018

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Well / Drillhole / Borehole Filling & Sealing Report Form 3300-005 (R 4/2015) Page 1 of 2

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Notice: Completion of this reaccordance with chs. 281, 28														
for up to one year, dependin	g on the program	and con	duct in	volved.	. Persor	ally identifia	able	information	on this for					
purpose. Return form to the	appropriate DNR				e instrud B urea i		vers	e for more in	iformation.					
				rinking		i. 		Watershed/V	Vactowator	x	Pomodi	iation/Re	dovok	nment
U Verification Only o	f Fill and Seal		=	_			Н		vasiewaiei	Δ	Kemeui	allonine	ueveic	phileir
			v	aste ivi	anagem	_		Other:						
1. Well Location Inform County	ation VI Unique Well # o	: 111	i			2. Facil		/ Owner In	formatio	n				
IR	Removed Well		icap #					e r Refining	a Comr	any II C				
Douglas								ID or PWS)	y Comp	ally LLC	•			
Latitude / Longitude (see inst	tructions) F	ormat C	ode		d Code	8160	•							
46.685682°	N	√ DE)	_	PS008			nit/Monitoring	n #					
92.068385°	w		M		CR002 TH001	Licerise/	CII	minionino	<i>,</i>					
1/4 / 1/4 SE,SE 1/4 NW	Section	Town		Range		Original '	Well	l Owner						
or Gov't Lot #	36	49		14	ш,	C		r Refining	a Comr	any II C				
	30	49	N	14	√ ∨	Present			9 001116	dily LLO		-		
Well Street Address								r Refining	a Comr	anv II C	•			
2407 Stinson Ave.			1	710.0		Mailing A	Addr	ess of Preser	nt Owner	only LLO				
Well City, Village or Town				Z I P Cod 380	de	_		inson Av						
Superior Subdivision Name				000				ent Owner	<u> </u>	Is	State	ZIP Co	de	
Subdivision Name			Lot #			Supe					WI	5488		
Danasa fan Danasa I frans Ca		\\/ - 4	t of Do		+ \^/-1	4 D		₋iner, Scree	en. Casir					
Reason for Removal from Se Temporary Boring	ervice WI Uniqu	ie vveii #	or Re	piacem	ent vvei			piping remo		.g		Yes	No	√ N/A
3. Filled & Sealed Well	/ Drillholo / Bor	abala li	n for wood	otion	_	Liner(:	s) re	moved?				Yes -	No	V N/A
	Original Con				/vvvv)	Liner(:	s) pe	erforated?				Yes 🗀	No	√ N/A
Monitoring Well	03/20		Dato (,iiiiii/aa	,,,,,,,	Scree	n re	moved?			— □	Yes 🗀	No I	√ N/A
Water Well						Casin	g lef	t in place?				Yes 🗀	No i	√ N/A
Borehole / Drillhole	If a Well Co		n Repo	ort is av	ai l able,	Was c	asir	ng cut off belo	w surface	······································	一百	Yes [] _{No} [✓ N/A
Construction Type:	please attac	11.						g material ris			=	Yes	No I	N/A
	iven (Candonint)	г	٦					ial settle after				Yes 7	l No	H _{N/A}
_	iven (Sandpoint)	L	Dug)				was hole ret			_	Yes T	No I	✓ N/A
Other (specify):								e chips were		e thev hydrat	ᆈ		_	<u> </u>
Formation Type:		_						from a know			V	Yes	No [N/A
✓ Unconsolidated Format	ion	Bedroc	k			Required	d Me	thod of P l aci	ng Sea l ing	Material		•		
Total Well Depth From Groun	nd Surface (ft.)	asing Di	ameter	r (in.)				ctor Pipe - Gra	• —	Conductor Pip	oe-Pump	ed		
5'						V Sci	reen	ed & Poured nite Chips)		Other (Explain	า):			
Lower Drillhole Diameter (in.) C	asing De	epth (ft.	.)		Sealing I								
2"	,	Ü		,		1 —		ement Grout		Пс	oncrete			
								Cement (Cond			entonite	Chins		
Was well annular space grout	ted?	res [No	Пι	Jnknow	, I —		ng Wells and	•			•		
If yes, to what depth (feet)?	Depth	to Water	(feet)					ite Chips	<i>Mornioring</i>	Bentonite	•		+	
ii yee, te iiiiat aepiii (ieet).	J Span		(.001)					•		=			ı	
						Gra	anul	ar Bentonite	No Vos	Bentonite			v Datid	
5. Material Used to Fill V	Well / Drillhole					From (f	ft.)	To (ft.)		ls, Sacks Sea ıme (circ l e or			x Ratic ud Wei	
Bentonite Chips						Surfac	ce	5'	0.1 cu	bic feet	,			
•														
6. Comments														
7. Supervision of Work										אם	IR Use	Only		
Name of Person or Firm Doir		Licer	nse#		Date of	Filling & Sea	alino	or Verification	on Date R	Received		Noted B	У	
Gannett Fleming						уууу) 03/2	_							
Street or Route						Te l ephone I			Comm	ents				
8025 Excelsior Dr.						(608)8								
City		State	ZIP	Code		,		Person Doing			Dat	te Signe	d	
Madison		WI	53	717				_		5	04	4/16/2	2018	

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

04/16/2018

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Well / Drillhole / Borehole Filling & Sealing Report

3						Form 3300-0	005 (R 4/201	15)			Page 1 of 2
Notice: Completion of this											
accordance with chs. 281,											
for up to one year, depend purpose. Return form to th									not intended	to be used to	r any other
	'''				Bureau:						
Verification Only	of Fill and Se	al		rinking	Water		Watershed	/Wastewater	X Rem	ediation/Rede	velopment
verification only	or r ill alla se	aı	$I \sqcap_{v}$	Vaste M	anageme	nt 🗀	Other:		_		
1. Well Location Infor	mation			racio in	anagomo			nformation			
County	WI Unique Well #	ŧ of	Hicap #			Facility Nar		illormation			
•	Removed Well		i noap "					ng Compan	vIIC		
Douglas							FID or PWS)		,		
Latitude / Longitude (see in	nstructions)	Format	Code	Metho	d Code	816009		,			
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1/4 / 1/4 SE,SE 1/4 NW	36		, '	1,,	ш-			ng Compan	vIIC		
or Gov't Lot#	30	49	9 N	14	√ W	Present We		ig Compan	y LLO		
Well Street Address								ng Compan	VIIC		
2407 Stinson Ave							ress of Pres		y LLO		
Well City, Village or Town				ZIP Cod	de	_	tinson A				
Superior				880		City of Pres		ve.	State	ZIP Code	
Subdivision Name			Lot #	!		Superior			WI	54880	
								aan Caaina 9			,
Reason for Removal from S		nique Wel	II # of Re	eplacem	ent Well		d piping rem	een, Casing &	Sealing M		lo ✓ N/A
Temporary Boring					_	•	emoved?	oveu:	ŀ		lo V N/A
3. Filled & Sealed Wel							perforated?		}	⊣ ⊢	NO V N/A
Monitoring Well	Original C			(mm/dd	/уууу)		emoved?		<u> </u>	⊣ ⊢	
Water Well	03/2	20/201	8						Ļ	= =	
	If a Well (Construct	tion Rep	ort is av	ailable,		eft in place?			Yes N	lo ✓ N/A
✓ Borehole / Drillhole	p l ease at		•			Was cas	ing cut off be	low surface?	<u> </u>	YesN	10 √ N/A
Construction Type:						Did seali	ng material r	ise to surface?	<u> </u>	✓ Yes L	√ N/A
□ Drilled	Oriven (Sandpoint))	Dug	g		Did mate	rial settle aft	er 24 hours?	Ĺ	Yes _✓N	√0 \N/A
Other (specify):			_			-	s, was ho l e r		L	Yes N	N/A ✓
Formation Type:								e used, were the	y hydrated [✓ Yes N	lo N/A
	atian I	Bedr	ماد					wn safe source? cing Sealing Mat	-	<u> </u>	
Unconsolidated Form						1 <u> </u>		~ <u> </u>			
Total Well Depth From Gro	ound Surface (ft.)	Casing	Diamete	r (in.)			ned & Poure	ravity Cond	•	треа	
10'						(Bent	onite Chips)	tu Other	·(Exp l ain):		
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						- I □ Sand-	-Cement (Co	ncrete) Grout	Bentor	nite Chips	
Was well annular space gro	outed?	Yes	No	∐ı	Jnknown	ı —	•	d Monitoring We	— Il Boreholes (nlv:	
If yes, to what depth (feet)?	P Dep	th to Wat	er (feet)			1 —	nite Chips		Bentonite - Co	-	
			. ,				ular Bentonite	=	Bentonite - Sa		
						Grand	nar bentonite	No. Yards, S			Ratio or
5. Material Used to Fil	I Well / Drillhol	e				From (ft.)	To (ft.)		(circle one)		Weight
Bentonite Chips						Surface	10'	0.2 cubic	feet		
6. Comments											
7. Supervision of Wor									DND	oo Orly	
Name of Person or Firm Do		ina II id	ense#	lı	Date of Fi	lling & Sea l ir	g or Verifica	tion Date Recei		se Only Noted By	
Gannett Fleming	gg & codi	9	. 5.1.50 11			ууу) 03/20	-	23.0 1.0001	4		
Street or Route						elephone Nu		Comments			
8025 Excelsior Dr						608) 83		Somments			
City	-	State	7IP	Code	1,	· · · · · · · · · · · · · · · · · · ·	f Person Doi	ng Work		Date Signed	
Madison		WI		3717		J.g.iataro C		ing Work		04/16/20	18
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Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

04/16/2018

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information. Route to DNR Bureau: Drinking Water Watershed/Wastewater X Remediation/Redevelopment Verification Only of Fill and Seal Waste Management Other: 1. Well Location Information 2. Facility / Owner Information WI Unique Well # of Hicap # Facility Name County Removed Well Superior Refining Company LLC Douglas Facility ID (FID or PWS) Latitude / Longitude (see instructions) Format Code Method Code 816009590 ✓ GPS008 46.685517° **√** DD License/Permit/Monitoring# SCR002 92.068613° DDM W OTH001 Section Township Range Original Well Owner ¹/₄ SE.SE ¹/₄ NW Superior Refining Company LLC 36 49 or Gov't Lot # 14 W Ν Present Well Owner Well Street Address Superior Refining Company LLC 2407 Stinson Ave. Mailing Address of Present Owner Well City, Village or Town Well ZIP Code 2407 Stinson Ave. Superior 54880 City of Present Owner ZIP Code State Subdivision Name Lot# Superior WI 54880 4. Pump, Liner, Screen, Casing & Sealing Material Reason for Removal from Service WI Unique Well # of Replacement Well Pump and piping removed? Temporary Boring Liner(s) removed? Yes No 3. Filled & Sealed Well / Drillhole / Borehole Information Liner(s) perforated? Yes Nο Original Construction Date (mm/dd/yyyy) Monitoring Well Screen removed? Yes No 03/20/2018 Water Well Casing left in place? No Yes If a Well Construction Report is available, Borehole / Drillhole Was casing cut off below surface? Yes please attach. Construction Type: Did sealing material rise to surface? Yes No Did material settle after 24 hours? No N/A Yes |√| Drilled ✓ Driven (Sandpoint) Dug If ves, was hole retopped? Yes Nο N/A Other (specify): If bentonite chips were used, were they hydrated Formation Type: **√** Yes with water from a known safe source? ✓ Unconsolidated Formation Bedrock Required Method of Placing Sealing Material Total Well Depth From Ground Surface (ft.) Casing Diameter (in.) Conductor Pipe-Gravity Conductor Pipe-Pumped Screened & Poured 5' Other (Explain): (Bentonite Chips) Lower Drillhole Diameter (in.) Casing Depth (ft.) Sealing Materials Neat Cement Grout Concrete Sand-Cement (Concrete) Grout Bentonite Chips Was well annular space grouted? No Unknown Yes For Monitoring Wells and Monitoring Well Boreholes Only: If yes, to what depth (feet)? Depth to Water (feet) ✓ Bentonite Chips Bentonite - Cement Grout Granular Bentonite Bentonite - Sand Slurry No. Yards, Sacks Sealant or Mix Ratio or 5. Material Used to Fill Well / Drillhole From (ft.) To (ft.) Volume (circle one) Surface 5' Bentonite Chips 0.1 cubic feet 6. Comments **DNR Use Only** 7. Supervision of Work Name of Person or Firm Doing Filling & Sealing License # Date of Filling & Sealing or Verification Date Received Noted By (mm/dd/yyyy) 03/20/2018 Gannett Fleming Street or Route Telephone Number Comments 8025 Excelsior Dr. (608) 836-1500 City Signature of Person Doing Work ZIP Code Date Signed State

WI

53717

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Well / Drillhole / Borehole Filling & Sealing Report

3 "						Form 3300-	005 (R 4/20	015)		P	age 1 of 2
Notice: Completion of this											
accordance with chs. 281,											
for up to one year, depend purpose. Return form to th									not intended	to be used for	any other
					Bureau:						
Verification Only	of Fill and Sea			rinking	Water		Watershed	d/Wastewater	X Rem	ediation/Redev	e l opment
	oi i ili aliu Sea	L	٦×	/aste M	anageme	nt 🗀	Other:		_		
1. Well Location Infor	mation			acto III	anagomo			Information			
County	WI Unique Well #	of I	Hicap #			Facility Nar		IIIIOIIIIatioii			
•	Removed Well	·	поар п			,		ing Compan	vIIC		
Douglas							FID or PWS		, LLO		
Latitude / Longitude (see in	nstructions)	Format (Code	Method		816009		-,			
46.685575°	N	√ □	D		PS008 CR002		rmit/Monitor	rina #			
92.068521°	W	l⊓⊳	DM		TH001	Licenson		g <i>n</i>			
1//1/ OF OF 1/ NIVA		Towr		Range		Original We	ell Owner				
1/4 / 1/4 SE,SE 1/4 NW	36			ľ	ш-			ng Compan	vIIC		
or Gov't Lot #	30	49	N	14	√ W	Present We		ng Compan	y LLO		
Well Street Address								ing Compan	VIIC		
2407 Stinson Ave							dress of Pres		y LLO		
Well City, Village or Town				ZIP Cod	de	_	tinson A				
Superior				880		_	sent Owner	1VC.	State	ZIP Code	
Subdivision Name			Lot #			Superior			WI	54880	
								room Cooling 9			
Reason for Removal from		que Well	# of Re	placem	ent Well		nd piping rer	reen, Casing &		Yes No	√ N/A
Temporary Boring					_	· ·	removed?	noveu:	-	Yes No	_
3. Filled & Sealed Wel							perforated?		-	Yes No	
Monitoring Well	Original Co			(mm/dd/	/уууу)		emoved?		<u> </u>	= =	
Water Well	03/20	0/2018	3					•	Ļ	Yes No	
	If a Well C	onstruction	on Repo	ort is av	ailable,	- Casing i	eft in place?		L	Yes No	_
✓ Borehole / Drillhole	please atta					Was cas	ing cut off b	elow surface?	<u> </u>	Yes No	<u> </u>
Construction Type:						Did seal	ing material	rise to surface?	_	Yes No	N/A
□ Drilled	Oriven (Sandpoint)		Dug)		Did mate	erial settle at	fter 24 hours?	Ţ	Yes _√No	
Other (specify):		•					s, was ho l e		L	YesNo	N/A
Formation Type:								ere used, were the		✓ Yes No	N/A
	otion [Bedro	al.					own safe source? acing Sealing Mat		<u>, , , , , , , , , , , , , , , , , , , </u>	
✓ Unconsolidated Form						1 <u>-</u>		· _ ·			
Total Well Depth From Gro	ound Surface (ft.)	Casing D	Diamete	r (in.)			ened & Pour	Gravity Cond	-	ımpea	
10'						(Bent	onite Chips)	Othe	r (Exp l ain):		
Lower Drillhole Diameter (i	n.)	Casing D	epth (ft	.)		Sealing Ma	iteria l s				
2"						Neat	Cement Gro	out	Concre	ete	
						- I ☐ Sand	-Cement (Co	oncrete) Grout	Bentor	nite Chips	
Was well annular space gro	outed?	Yes	No	Шı	Jnknown	ı —	•	nd Monitoring We	Ш II Boreholes C	nlv:	
If yes, to what depth (feet)	? Depth	to Wate	r (feet)			1 —	onite Chips		Bentonite - Ce		
							ular Bentoni	=	Bentonite - Sa		
						Glain	ulai bentoni		acks Sealant		atio or
5. Material Used to Fil	l Well / Drillhole)				From (ft.)	To (ft.)		(circle one)	Mud W	
Bentonite Chips						Surface	10'	0.2 cubic	feet		
6. Comments											
7. Supervision of Wor	·k								DND II	se Only	
Name of Person or Firm De		ng Lice	ense #	Īr	Date of Fi	lling & Sea l ir	ng or Verifica	ation Date Rece		Noted By	
Gannett Fleming	3 · 3 · · · - 2 · · · ·	J				ууу) 03/2 0	-				
Street or Route						elephone Nu		Comments			
8025 Excelsior Dr	, •					608)83					
City		State	ZIP	Code			of Person Do	oing Work		Date Signed	
Madison		WI		717				2		04/16/201	8
		1	1			1					

Well / Drillhole / Borehole Filling & Sealing Report

3						Form 3300-0	005 (R 4/2	2015)		Р	age 1 of 2
Notice: Completion of this											
accordance with chs. 281,											
for up to one year, depend purpose. Return form to the									s not intended	to be used for	any other
					Bureau:						
Verification Only	of Fill and Sea	\T		rinking	Water		Watersh	ed/Wastewater	X Rem	nediation/Redev	/elopment
verification only	or r ili ariu Sea	LB	٦×	/aste M	anageme	nt 🗀	Other:				
1. Well Location Infor	mation			acto III	anagomo			r Information			
	WI Unique Well #	of H	Hicap #			Facility Nar		r imormation			
•	Removed Well							ning Compai	nv I I C		
Douglas						Facility ID (.,		
Latitude / Longitude (see in	structions)	Format (Code	Method	d Code	816009		,			
46.685849°	N	✓D	D		PS008 CR002	License/Pe		oring #			
92.068300°	W	Пр	DM		TH001	Licondon	TITLE IVIOITIE	.ormig //			
1//1/ OF OF 1/ NIM			nship	Range		Original We	II Owner				
1/4 / 1/4 SE,SE 1/4 NW	36			ľ	ш-			ning Compar	ov LLC		
or Gov't Lot#	30	49	N	14	√ W	Present We		iiig Compai	IY LLO		
Well Street Address								ning Compar	ov I I C		
2407 Stinson Ave	•							resent Owner	IY LLC		
Well City, Village or Town				ZIP Cod	de	2407 S					
Superior				880		City of Pres			State	ZIP Code	
Subdivision Name			Lot #			Superior		; 1	WI	54880	
								araan Caaina			
Reason for Removal from S		que Well	# of Re	placem	ent Well		d piping r	creen, Casing	& Sealing W	Yes N	o VN/A
Temporary Boring					_	•	emoved?		}	Yes No	_
3. Filled & Sealed Wel							perforated		}	Yes No	
Monitoring Well	Original Co			(mm/dd/	/уууу)		emoved?	ıf	ļ	⊣ ⊢	
Water Well	03/20	0/2018	3					20	ŀ	Yes No	
	If a Well C	onstruction	on Repo	ort is av	ailable,		eft in place	ə r	L	Yes No	_ <u> </u>
✓ Borehole / Drillhole	please atta		•			Was cas	ing cut off	be l ow surface?	<u> </u>	Yes N	<u> </u>
Construction Type:						Did seali	ng materia	al rise to surface?	<u> </u>	✓ Yes	□ N/A
☐ Drilled	Oriven (Sandpoint)		Dug)		Did mate	rial settle	after 24 hours?	Ĺ	Yes [√]No	
Other (specify):		•	_			-		e retopped?		Yes No	o ✓ N/A
Formation Type:								were used, were th		✓ Yes No	o N/A
	ation [Bedro	ماد					known safe source Placing Sealing Ma	· •	<u> </u>	- Ш
Unconsolidated Form						1 <u> </u>		· _ ·			
Total Well Depth From Gro	und Surface (ft.)	Casing D	Diamete	r (in.)		<u> </u>	ned & Po	e-Gravity Con	•	ımpea	
10'						(Bent	onite Chip	os) Othe	er (Exp l ain):		
Lower Drillhole Diameter (in	n.)	Casing D	epth (ft	.)		Sealing Ma	teria l s				
2"						Neat	Cement G	Grout	Concre	ete	
						- I □ Sand-	Cement (Concrete) Grout	Bento	nite Chips	
Was well annular space gro	uted?	Yes	No	Шı	Jnknown	ı —	•	and Monitoring W	ட்ப ell Boreholes (Onlv:	
If yes, to what depth (feet)?	Depth	to Wate	r (feet)			1 —	nite Chips		Bentonite - C	-	
			, ,				ılar Bento	=	Bentonite - Sa		
						Grand	nai bento		Sacks Sealant		atio or
5. Material Used to Fil	l Well / Drillhole)				From (ft.)	To (ft		e (circle one)	Mud V	
Bentonite Chips						Surface	10'	0.2 cubic	c feet		
6. Comments											
7 Supervision of Man	k								ייםיום	aa Ordus	
7. Supervision of Wor Name of Person or Firm Do		na lice	ense #	I	Date of Fi	lling & Sea l ir	a or Verifi	ication Date Rece		Se Only Noted By	
Gannett Fleming	sing i ming a coam	.g				ууу) 03/20	-	Date Need	J., Ju	Troited by	
Street or Route						elephone Nu		Comment	'S		
8025 Excelsior Dr						608) 83			.0		
City	•	State	7IP	Code		· · · · · · · · · · · · · · · · · · ·		Doing Work		Date Signed	
Madison		WI		717		J.g.iataro C		Dollig Work		04/16/20 ²	18
		1	1 -			Í				J ., . J/LU	

Well / Drillhole / Borehole Filling & Sealing Report

an miget						Form 3300-0	05 (R 4/201	5)		Page	1 of 2				
Notice: Completion of this report is															
accordance with chs. 281, 289, 291 for up to one year, depending on the															
purpose. Return form to the approp	riate DNR of	fice a <u>n</u>	d bure	au. See	instruc	tions on revers	se for more i	information.							
Verification Only of Fill and Seal Route to DNR Burd □ Drinking Wate □ Waste Manag					: 	\\/atavabad/	Mastawatan	V Dome	distina/Dodovolos						
							Wastewater	A Reme	diation/Redeve l op	ment					
			vv	aste Ma	anagem		Other:								
1. Well Location Information County WI Uniq	ue Well # of	Ш	can#			2. Facility Facility Nam		nformation							
Douglas Removed Well						Superior Refining Company LLC									
						Facility ID (FID or PWS)									
Latitude / Longitude (see instructions) Format				Method	l Code PS008	816009590									
46.685921° N			SCR002			License/Permit/Monitoring #									
92.068286°	W		M	o	TH001										
^{1/4 1/4} SE,SE ^{1/4} NW	Section		ownship Range E		Original Wel										
or Gov't Lot # 36 49			Ν	14	√ W	Superior Refining Company LLC									
Well Street Address						Present Well Owner Superior Refining Company LLC									
2407 Stinson Ave.			1					<u> </u>							
Well City, Village or Town				ZIP Cod	е	Mailing Address of Present Owner 2407 Stinson Ave.									
•			D40	380		City of Prese			State	State ZIP Code					
Subdivision Name Lot						Superio			WI						
Reason for Removal from Service	WI Unique	. Well #	of Re	placeme	ent Well			een, Casing & Sea	aling Ma	terial					
Temporary Boring						Pump and	d piping rem	oved?]Yes ☐ No 🗸	N/A N/A				
3. Filled & Sealed Well / Drillh	nform	ation	Liner(s) removed?												
Monitoring Well		erforated?		⊢	JYes III No I✓	N/A									
03/20/2018 03/20/2018							Screen removed?								
If a Well Construction Report is available.						Casing left in place? Yes No ✓ N/A									
	olease attach	•					•	low surface?	F	JYes	N/A				
Construction Type: ☐ Drilled					Did sealing material rise to surface?										
					Did material settle after 24 hours? If yes, was hole retopped? Yes ✓ No ✓ N/A Yes ✓ No ✓ N/A										
Other (specify):						1		e used, were they hyd	∟ drated ⊢		_				
Formation Type:	_					with wate	r from a kno	wn safe source?		Yes No	N/A				
✓ Unconsolidated Formation		Bedrocl				I		cing Sealing Material							
Total Well Depth From Ground Surface (ft.) Casing Diameter (in.)					Conductor Pipe-Gravity Conductor Pipe-Pumped										
5'						Screened & Poured (Bentonite Chips) Other (Explain):									
Lower Drillhole Diameter (in.)	Ca	sing De	epth (ft.	.)		Sealing Mat									
2"						Neat C	Cement Grou	ıt	Concret	e					
Was well annular space grouted?		" Г	No		Inknown		Cement (Cor	ncrete) Grout	Bentoni	te Chips					
				ш	TIKITOWIT	For Monitori	9	d Monitoring Well Bor		,					
If yes, to what depth (feet)?	Depth to	vvater	(feet)				nite Chips	=		ment Grout					
						Granu	ar Bentonite		onite - Sar						
5. Material Used to Fill Well /	Drillhole					From (ft.)	To (ft.)	No. Yards, Sacks Volume (circl		r Mix Ratio o Mud Weigh					
Bentonite Chips						Surface	5'	0.1 cubic fee							
6. Comments															
7. Supervision of Work		1.		,					DNR Us						
Name of Person or Firm Doing Fillin	g & Sea l ing	Licen	ise#			illing & Sealing		ion Date Received		Noted By					
Gannett Fleming Street or Route				(1		yyy) 03/20/		Commonto							
						Telephone Number Comments (608) 836-1500									
						Signature of Person Doing Work Date Signed									
Madison		WI					-		04/16/2018						

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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Form 3300-005 (R 4/2015)

04/16/2018

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information. Route to DNR Bureau: Drinking Water Watershed/Wastewater X Remediation/Redevelopment Verification Only of Fill and Seal Waste Management Other: 1. Well Location Information 2. Facility / Owner Information WI Unique Well # of Hicap # Facility Name County Removed Well Superior Refining Company LLC Douglas Facility ID (FID or PWS) Latitude / Longitude (see instructions) Format Code Method Code 816009590 ✓ GPS008 46.685785° **√** DD License/Permit/Monitoring# SCR002 92.068581° DDM W OTH001 Section Township Range Original Well Owner ¹/₄ SE.SE ¹/₄ NW Superior Refining Company LLC 36 49 or Gov't Lot # 14 W Ν Present Well Owner Well Street Address Superior Refining Company LLC 2407 Stinson Ave. Mailing Address of Present Owner Well City, Village or Town Well ZIP Code 2407 Stinson Ave. Superior 54880 City of Present Owner ZIP Code State Subdivision Name Lot# Superior WI 54880 4. Pump, Liner, Screen, Casing & Sealing Material Reason for Removal from Service WI Unique Well # of Replacement Well Pump and piping removed? Temporary Boring Liner(s) removed? Yes No 3. Filled & Sealed Well / Drillhole / Borehole Information Liner(s) perforated? Yes Nο Original Construction Date (mm/dd/yyyy) Monitoring Well Screen removed? Yes Nο 03/20/2018 Water Well Casing left in place? No Yes If a Well Construction Report is available, Borehole / Drillhole Was casing cut off below surface? please attach. Yes Construction Type: Did sealing material rise to surface? Yes No Did material settle after 24 hours? No N/A Yes |√| Drilled ✓ Driven (Sandpoint) Dug If ves, was hole retopped? Yes Nο N/A Other (specify): If bentonite chips were used, were they hydrated Formation Type: **√** Yes with water from a known safe source? ✓ Unconsolidated Formation Bedrock Required Method of Placing Sealing Material Total Well Depth From Ground Surface (ft.) Casing Diameter (in.) Conductor Pipe-Gravity Conductor Pipe-Pumped Screened & Poured 5' Other (Explain): (Bentonite Chips) Lower Drillhole Diameter (in.) Casing Depth (ft.) Sealing Materials Neat Cement Grout Concrete Sand-Cement (Concrete) Grout Bentonite Chips Was well annular space grouted? No Unknown Yes For Monitoring Wells and Monitoring Well Boreholes Only: If yes, to what depth (feet)? Depth to Water (feet) ✓ Bentonite Chips Bentonite - Cement Grout Bentonite - Sand Slurry Granular Bentonite No. Yards, Sacks Sealant or Mix Ratio or 5. Material Used to Fill Well / Drillhole From (ft.) To (ft.) Volume (circle one) **Bentonite Chips** Surface 5 0.1 cubic feet 6. Comments **DNR Use Only** 7. Supervision of Work Name of Person or Firm Doing Filling & Sealing License # Date of Filling & Sealing or Verification Date Received Noted By (mm/dd/yyyy) 03/20/2018 Gannett Fleming Street or Route Telephone Number Comments 8025 Excelsior Dr. (608) 836-1500 City Signature of Person Doing Work ZIP Code Date Signed State

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Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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Well / Drillhole / Borehole Filling & Sealing Report

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Well / Drillhole / Borehole Filling & Sealing Report Form 3300-005 (R 4/2015) Page 1 of 2

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Notice: Completion of this repaccordance with chs. 281, 289																
for up to one year, depending	on the program a	and con-	duct in	volved.	. Persor	ally identifia	able	information	on this fo	rm is not ir						
purpose. Return form to the ap	propriate DNR c						vers	e for more in	nformation	า.						
Verification Only of Fill and Seal Route to DNR Bureau: Drinking Water Waste Manageme							Watershad MAt									
						Watershed/Wastewater X Remediation/Redevelopment										
			<u></u> М	/aste M	anagem		Ш	Other:								
1. Well Location Informat								/ Owner In	formation	on						
Rei	Unique Well # of noved Well	l ^H	icap #			Facility N			a Com	nany I I	<u></u>					
Douglas							Superior Refining Company LLC Facility ID (FID or PWS)									
Latitude / Longitude (see instru	ictions) F	ormat C	ode		d Code		,	,								
46.685762° N ✓ GPS							816009590 License/Permit/Monitoring #									
02.069736°			DDM SCR002			License	License/i* entill/ivioring #									
	W					Original	10/01	I Ouron								
14 / 14 SE,SE 14 NW						Companies Defining Company II C										
or Gov't Lot # 36 49			N	14	√ ∨		Superior Refining Company LLC									
Well Street Address							Present Well Owner									
2407 Stinson Ave.						Superior Refining Company LLC										
Well City, Village or Town				ZIP Cod	de	Mailing Address of Present Owner										
Superior				380		2407 Stinson Ave. City of Present Owner State ZIP Code										
Subdivision Name			Lot #								WI					
						Superior WI 54880 4. Pump, Liner, Screen, Casing & Sealing Material										
Reason for Removal from Serv	rice WI Uniqu	e Well #	f of Re	placem	ent Well			Injeir, Scree	•	iliy & Sea	IIIIY Ma	Yes	No	✓ N/A		
Temporary Boring	_				_				vcu:		-	Yes	H _{No}	V N/A		
3. Filled & Sealed Well / D									V N/A							
Monitoring Well Original Construction Date (mm/dd/yyyy)							Screen removed?									
03/20/2018							Casing left in place?									
If a Well Construction Report is available,																
Borehole / Drillhole	p l ease attacl	h.						•			Ļ	∐Yes Ziv⊶	H _N o	N/A		
Construction Type:		_	_					g material ris				Yes	∐No III	∐N/A		
□ Drilled						Did material settle after 24 hours? If yes, was hole retopped? Yes ✓ No ✓ N/A Yes ✓ No ✓ N/A										
Other (specify):										ro thou bud	rotod L	Yes	∐No	✓ N/A		
Formation Type:								e chips were from a know			rated v	/ Yes	No	N/A		
✓ Unconsolidated Formation	n 🔲	Bedroc	k			Required Method of Placing Sealing Material										
Total Well Depth From Ground Surface (ft.) Casing Diameter (in.)					Conductor Pipe-Gravity Conductor Pipe-Pumped											
5'		3		()		Screened & Poured										
						(Bentonite Chips)										
Lower Drillhole Diameter (in.) Casing Depth (ft.)						Sealing Materials										
2"						Neat Cement Grout Concrete										
Was well annular space grouted	12	es [No	П	Jnknowi	, —		Cement (Cond	•		_	ite Chips	3			
					JIIKIIOWI	For Mon		ng Wells and	Monitorin	<u>`</u>		•				
If yes, to what depth (feet)?	Depth to	o water	(feet)			I ✓ Be	nton	ite Chips		Bento	nite - Ce	ment Gr	out			
						Gra	anul	ar Bentonite		Bento	nite - Sa	nd Slurr	У			
5. Material Used to Fill W	ell / Drillhole					From (f	ft.)	To (ft.)		rds, Sacks : lume (circ l e			Mix Rat			
Bentonite Chips						Surfac	re	5'	·	ubic fee			Mud We	eigrit		
Deritorite Onipa						Surrac		J	0.1 0	JDIC ICC						
6. Comments																
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7. Supervision of Work	Filling 9 O - 1	1 !	205 11		Dot: :	illin - 0 O	. !!	. o . \/::f' /'	n D::		DNR Us					
			-illing & Sea yyyy) 03/2	_	or Verificatio	Date	Received		Noted	БУ						
Gannett Fleming									0.5	monto						
						Telephone Number Comments (608) 836-1500										
City	ı	State	- חוק	Codo		<u> </u>			a Work		l-	Dato Sic	ned			
Madison					Signature of Person Doing Work Date Signed 04/16/2018							3				
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Well / Drillhole / Borehole Filling & Sealing Report

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Gannett Fleming
ATTACHMENT B
LABORATORY REPORT AND CHAIN-OF-CUSTODY RECORD FOR SOIL SAMPLES





March 27, 2018

Project #34265.003 T25 Soil Results Reviewed by CCW 3/27/18

Clifford Wright Gannett Fleming 8025 Excelsior Drive Madison, WI 53717

RE: Project: 34265.003 SRC/T25

Pace Project No.: 40166298

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on March 22, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

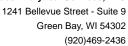
Dan Milewsky dan.milewsky@pacelabs.com (920)469-2436

Project Manager

Lan Miland

Enclosures







CERTIFICATIONS

Project: 34265.003 SRC/T25

Pace Project No.: 40166298

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064 North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001 Texas Certification #: T104704529-14-1 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-16-00157 Federal Fish & Wildlife Permit #: LE51774A-0



SAMPLE SUMMARY

Project: 34265.003 SRC/T25

Pace Project No.: 40166298

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40166298001	GP-1/0-2	Solid	03/19/18 12:15	03/22/18 10:45
40166298002	GP-11/0-1	Solid	03/20/18 08:10	03/22/18 10:45
40166298003	GP-12/1-3	Solid	03/20/18 08:20	03/22/18 10:45
40166298004	GP-13/0-1	Solid	03/20/18 08:45	03/22/18 10:45
40166298005	GP-14/1-3	Solid	03/20/18 09:00	03/22/18 10:45
40166298006	GP-15/0-1	Solid	03/20/18 09:15	03/22/18 10:45
40166298007	GP-16/1-3	Solid	03/20/18 09:35	03/22/18 10:45
40166298008	GP-19/1-3	Solid	03/20/18 10:40	03/22/18 10:45
40166298009	GP-20/0-1	Solid	03/20/18 10:50	03/22/18 10:45
40166298010	GP-23/1-3	Solid	03/20/18 13:20	03/22/18 10:45
40166298011	GP-27/1-3	Solid	03/20/18 14:35	03/22/18 10:45
40166298012	TRIP BLANK	Solid	03/20/18 00:00	03/22/18 10:45



SAMPLE ANALYTE COUNT

Project: 34265.003 SRC/T25

Pace Project No.: 40166298

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40166298001	GP-1/0-2	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40166298002	GP-11/0-1	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40166298003	GP-12/1-3	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40166298004	GP-13/0-1	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40166298005	GP-14/1-3	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40166298006	GP-15/0-1	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40166298007	GP-16/1-3	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40166298008	GP-19/1-3	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40166298009	GP-20/0-1	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40166298010	GP-23/1-3	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40166298011	GP-27/1-3	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40166298012	TRIP BLANK	WI MOD GRO	ALD	10	PASI-G



SUMMARY OF DETECTION

Project: 34265.003 SRC/T25

Pace Project No.: 40166298

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
0166298001	GP-1/0-2					
WI MOD GRO	1,2,4-Trimethylbenzene	302	ug/kg	65.7	03/23/18 12:32	
WI MOD GRO	1,3,5-Trimethylbenzene	200	ug/kg	65.7	03/23/18 12:32	
WI MOD GRO	Ethylbenzene	75.6	ug/kg	65.7	03/23/18 12:32	
NI MOD GRO	Naphthalene	570	ug/kg	65.7	03/23/18 12:32	
NI MOD GRO	m&p-Xylene	151	ug/kg	131	03/23/18 12:32	
ASTM D2974-87	Percent Moisture	23.8	%	0.10		
0166298002	GP-11/0-1					
ASTM D2974-87	Percent Moisture	23.7	%	0.10	03/23/18 13:56	
0166298003	GP-12/1-3					
WI MOD GRO	1,2,4-Trimethylbenzene	1580	ug/kg	278	03/23/18 12:58	
WI MOD GRO	1,3,5-Trimethylbenzene	1060	ug/kg	278	03/23/18 12:58	
WI MOD GRO	Ethylbenzene	363	ug/kg	278	03/23/18 12:58	
NI MOD GRO	Naphthalene	3500	ug/kg	278	03/23/18 12:58	
VI MOD GRO	m&p-Xylene	635	ug/kg	557	03/23/18 12:58	
WI MOD GRO	o-Xylene	195J	ug/kg	278	03/23/18 12:58	
ASTM D2974-87	Percent Moisture	28.1	%	0.10	03/23/18 13:56	
0166298004	GP-13/0-1		,,	00	00,20,10 10.00	
WI MOD GRO	1,2,4-Trimethylbenzene	2250	ug/kg	298	03/23/18 16:49	
WI MOD GRO	1,3,5-Trimethylbenzene	1290	ug/kg ug/kg	298	03/23/18 16:49	
WI MOD GRO	Ethylbenzene	230J	ug/kg ug/kg	298	03/23/18 16:49	
					03/23/18 16:49	
WI MOD GRO	Naphthalene	4420	ug/kg	298		
VI MOD GRO	m&p-Xylene	474J	ug/kg	597	03/23/18 16:49	
VI MOD GRO	o-Xylene	199J	ug/kg	298	03/23/18 16:49	
ASTM D2974-87	Percent Moisture	33.0	%	0.10	03/23/18 13:56	
0166298005	GP-14/1-3					
VI MOD GRO	1,2,4-Trimethylbenzene	2130	ug/kg	170	03/26/18 10:55	
VI MOD GRO	1,3,5-Trimethylbenzene	1140	ug/kg	170	03/26/18 10:55	
VI MOD GRO	Ethylbenzene	373	ug/kg	170	03/26/18 10:55	
VI MOD GRO	Naphthalene	2490	ug/kg	170	03/26/18 10:55	
VI MOD GRO	m&p-Xylene	625	ug/kg	341	03/26/18 10:55	
VI MOD GRO	o-Xylene	143J	ug/kg	170	03/26/18 10:55	
STM D2974-87	Percent Moisture	26.7	%	0.10	03/23/18 13:56	
0166298006	GP-15/0-1					
WI MOD GRO	1,2,4-Trimethylbenzene	70800	ug/kg	1470	03/23/18 16:24	
WI MOD GRO	1,3,5-Trimethylbenzene	19500	ug/kg	1470	03/23/18 16:24	
VI MOD GRO	Benzene	4590	ug/kg	1470	03/23/18 16:24	
VI MOD GRO	Ethylbenzene	22000	ug/kg	1470	03/23/18 16:24	
VI MOD GRO	Naphthalene	25700	ug/kg	1470		
VI MOD GRO	m&p-Xylene	24200	ug/kg	2940	03/23/18 16:24	
VI MOD GRO	o-Xylene	1860	ug/kg	1470		
ASTM D2974-87	Percent Moisture	31.9	%		03/23/18 13:56	
0166298007	GP-16/1-3					
VI MOD GRO	1,2,4-Trimethylbenzene	5870	ug/kg	144	03/23/18 19:24	
VI MOD GRO	1,3,5-Trimethylbenzene	2240	ug/kg			

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 34265.003 SRC/T25

Pace Project No.: 40166298

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10166298007	GP-16/1-3					
WI MOD GRO	Benzene	211	ug/kg	144	03/23/18 19:24	
WI MOD GRO	Ethylbenzene	1330	ug/kg	144	03/23/18 19:24	
NI MOD GRO	Naphthalene	2710	ug/kg	144	03/23/18 19:24	
NI MOD GRO	m&p-Xylene	1810	ug/kg	288	03/23/18 19:24	
NI MOD GRO	o-Xylene	227	ug/kg	144	03/23/18 19:24	
ASTM D2974-87	Percent Moisture	30.7	%	0.10	03/23/18 13:56	
0166298008	GP-19/1-3					
VI MOD GRO	1,2,4-Trimethylbenzene	2940	ug/kg	140	03/23/18 19:50	
WI MOD GRO	1,3,5-Trimethylbenzene	1530	ug/kg	140	03/23/18 19:50	
WI MOD GRO	Ethylbenzene	692	ug/kg	140	03/23/18 19:50	
VI MOD GRO	Naphthalene	2230	ug/kg	140	03/23/18 19:50	
WI MOD GRO	m&p-Xylene	1130	ug/kg	280	03/23/18 19:50	
WI MOD GRO	o-Xylene	252	ug/kg	140	03/23/18 19:50	
ASTM D2974-87	Percent Moisture	28.5	%	0.10	03/23/18 14:41	
0166298009	GP-20/0-1					
VI MOD GRO	1,2,4-Trimethylbenzene	4240	ug/kg	295	03/23/18 17:15	
VI MOD GRO	1,3,5-Trimethylbenzene	2400	ug/kg	295	03/23/18 17:15	
VI MOD GRO	Benzene	1940	ug/kg	295	03/23/18 17:15	
VI MOD GRO	Ethylbenzene	3510	ug/kg	295	03/23/18 17:15	
VI MOD GRO	Naphthalene	5470	ug/kg	295	03/23/18 17:15	
VI MOD GRO	m&p-Xylene	2770	ug/kg	591	03/23/18 17:15	
VI MOD GRO	o-Xylene	233J	ug/kg	295	03/23/18 17:15	
ASTM D2974-87	Percent Moisture	32.3	%	0.10	03/23/18 14:41	
0166298010	GP-23/1-3					
VI MOD GRO	1,2,4-Trimethylbenzene	3130	ug/kg	284	03/23/18 17:41	
VI MOD GRO	1,3,5-Trimethylbenzene	1640	ug/kg	284	03/23/18 17:41	
VI MOD GRO	Ethylbenzene	679	ug/kg	284	03/23/18 17:41	
VI MOD GRO	Naphthalene	3930	ug/kg	284	03/23/18 17:41	
WI MOD GRO	m&p-Xylene	988	ug/kg	568	03/23/18 17:41	
WI MOD GRO	o-Xylene	317	ug/kg	284	03/23/18 17:41	
ASTM D2974-87	Percent Moisture	29.6	%	0.10	03/23/18 14:41	
0166298011	GP-27/1-3					
VI MOD GRO	1,3,5-Trimethylbenzene	671	ug/kg	274	03/23/18 18:07	
WI MOD GRO	Ethylbenzene	196J	ug/kg	274	03/23/18 18:07	
VI MOD GRO	Naphthalene	3580	ug/kg	274	03/23/18 18:07	
VI MOD GRO	m&p-Xylene	317J	ug/kg	547	03/23/18 18:07	
ASTM D2974-87	Percent Moisture	26.9	%	0.10	03/23/18 14:41	



1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

PROJECT NARRATIVE

Project: 34265.003 SRC/T25

Pace Project No.: 40166298

Method: WI MOD GRO
Description: WIGRO GCV
Client: Gannett Fleming Inc.
Date: March 27, 2018

General Information:

12 samples were analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with TPH GRO/PVOC WI ext. with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 284111

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- GP-12/1-3 (Lab ID: 40166298003)
 - a,a,a-Trifluorotoluene (S)
- GP-13/0-1 (Lab ID: 40166298004)
 - a,a,a-Trifluorotoluene (S)
- GP-14/1-3 (Lab ID: 40166298005)
 - a,a,a-Trifluorotoluene (S)
- GP-16/1-3 (Lab ID: 40166298007)
 - a,a,a-Trifluorotoluene (S)
- GP-19/1-3 (Lab ID: 40166298008)
 - a,a,a-Trifluorotoluene (S)

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PROJECT NARRATIVE

Project: 34265.003 SRC/T25

Pace Project No.: 40166298

Method:WI MOD GRODescription:WIGRO GCVClient:Gannett Fleming Inc.Date:March 27, 2018

Analyte Comments:

QC Batch: 284111

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- GP-20/0-1 (Lab ID: 40166298009)
 - a,a,a-Trifluorotoluene (S)
- GP-23/1-3 (Lab ID: 40166298010)
 - a,a,a-Trifluorotoluene (S)
- GP-27/1-3 (Lab ID: 40166298011)
 - a,a,a-Trifluorotoluene (S)

This data package has been reviewed for quality and completeness and is approved for release.



Project: 34265.003 SRC/T25

Pace Project No.: 40166298

Date: 03/27/2018 08:03 AM

Sample: GP-1/0-2 Lab ID: 40166298001 Collected: 03/19/18 12:15 Received: 03/22/18 10:45 Matrix: Solid

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pr	eparation N	/lethod	I: TPH GRO/PVO	C WI ext.		
1,2,4-Trimethylbenzene	302	ug/kg	65.7	32.8	1	03/23/18 07:15	03/23/18 12:32	95-63-6	
1,3,5-Trimethylbenzene	200	ug/kg	65.7	32.8	1	03/23/18 07:15	03/23/18 12:32	108-67-8	
Benzene	<25.0	ug/kg	50.0	25.0	1	03/23/18 07:15	03/23/18 12:32	71-43-2	W
Ethylbenzene	75.6	ug/kg	65.7	32.8	1	03/23/18 07:15	03/23/18 12:32	100-41-4	
Methyl-tert-butyl ether	<25.0	ug/kg	50.0	25.0	1	03/23/18 07:15	03/23/18 12:32	1634-04-4	W
Naphthalene	570	ug/kg	65.7	32.8	1	03/23/18 07:15	03/23/18 12:32	91-20-3	
Toluene	<25.0	ug/kg	50.0	25.0	1	03/23/18 07:15	03/23/18 12:32	108-88-3	W
m&p-Xylene	151	ug/kg	131	65.7	1	03/23/18 07:15	03/23/18 12:32	179601-23-1	
o-Xylene	<25.0	ug/kg	50.0	25.0	1	03/23/18 07:15	03/23/18 12:32	95-47-6	W
Surrogates a,a,a-Trifluorotoluene (S)	98	%	80-120		1	03/23/18 07:15	03/23/18 12:32	98-08-8	
Percent Moisture	Analytical	Method: AST	ΓM D2974-87						
Percent Moisture	23.8	%	0.10	0.10	1		03/23/18 13:56		



Project: 34265.003 SRC/T25

Pace Project No.: 40166298

Date: 03/27/2018 08:03 AM

Sample: GP-11/0-1 Lab ID: 40166298002 Collected: 03/20/18 08:10 Received: 03/22/18 10:45 Matrix: Solid

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pr	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
1,2,4-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	03/23/18 07:15	03/23/18 11:56	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	03/23/18 07:15	03/23/18 11:56	108-67-8	W
Benzene	<25.0	ug/kg	50.0	25.0	1	03/23/18 07:15	03/23/18 11:56	71-43-2	W
Ethylbenzene	<25.0	ug/kg	50.0	25.0	1	03/23/18 07:15	03/23/18 11:56	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	50.0	25.0	1	03/23/18 07:15	03/23/18 11:56	1634-04-4	W
Naphthalene	<25.0	ug/kg	50.0	25.0	1	03/23/18 07:15	03/23/18 11:56	91-20-3	W
Toluene	<25.0	ug/kg	50.0	25.0	1	03/23/18 07:15	03/23/18 11:56	108-88-3	W
m&p-Xylene	<50.0	ug/kg	100	50.0	1	03/23/18 07:15	03/23/18 11:56	179601-23-1	W
o-Xylene	<25.0	ug/kg	50.0	25.0	1	03/23/18 07:15	03/23/18 11:56	95-47-6	W
Surrogates a,a,a-Trifluorotoluene (S)	96	%	80-120		1	03/23/18 07:15	03/23/18 11:56	98-08-8	
Percent Moisture	Analytical	Method: AST	ΓM D2974-87						
Percent Moisture	23.7	%	0.10	0.10	1		03/23/18 13:56		



Project: 34265.003 SRC/T25

Pace Project No.: 40166298

Date: 03/27/2018 08:03 AM

Sample: GP-12/1-3 Lab ID: 40166298003 Collected: 03/20/18 08:20 Received: 03/22/18 10:45 Matrix: Solid

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI I	MOD GRO Pr	eparation M	1ethod	: TPH GRO/PVO	C WI ext.		
1,2,4-Trimethylbenzene	1580	ug/kg	278	139	4	03/23/18 07:15	03/23/18 12:58	95-63-6	
1,3,5-Trimethylbenzene	1060	ug/kg	278	139	4	03/23/18 07:15	03/23/18 12:58	108-67-8	
Benzene	<100	ug/kg	200	100	4	03/23/18 07:15	03/23/18 12:58	71-43-2	W
Ethylbenzene	363	ug/kg	278	139	4	03/23/18 07:15	03/23/18 12:58	100-41-4	
Methyl-tert-butyl ether	<100	ug/kg	200	100	4	03/23/18 07:15	03/23/18 12:58	1634-04-4	W
Naphthalene	3500	ug/kg	278	139	4	03/23/18 07:15	03/23/18 12:58	91-20-3	
Toluene	<100	ug/kg	200	100	4	03/23/18 07:15	03/23/18 12:58	108-88-3	W
m&p-Xylene	635	ug/kg	557	278	4	03/23/18 07:15	03/23/18 12:58	179601-23-1	
o-Xylene	195J	ug/kg	278	139	4	03/23/18 07:15	03/23/18 12:58	95-47-6	
Surrogates a,a,a-Trifluorotoluene (S)	97	%	80-120		4	03/23/18 07:15	03/23/18 12:58	98-08-8	D3
Percent Moisture	Analytical	Method: AST	M D2974-87						
Percent Moisture	28.1	%	0.10	0.10	1		03/23/18 13:56		



Project: 34265.003 SRC/T25

Pace Project No.: 40166298

Date: 03/27/2018 08:03 AM

Sample: GP-13/0-1 Lab ID: 40166298004 Collected: 03/20/18 08:45 Received: 03/22/18 10:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI I	MOD GRO Pr	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
1,2,4-Trimethylbenzene	2250	ug/kg	298	149	4	03/23/18 07:15	03/23/18 16:49	95-63-6	
1,3,5-Trimethylbenzene	1290	ug/kg	298	149	4	03/23/18 07:15	03/23/18 16:49	108-67-8	
Benzene	<100	ug/kg	200	100	4	03/23/18 07:15	03/23/18 16:49	71-43-2	W
Ethylbenzene	230J	ug/kg	298	149	4	03/23/18 07:15	03/23/18 16:49	100-41-4	
Methyl-tert-butyl ether	<100	ug/kg	200	100	4	03/23/18 07:15	03/23/18 16:49	1634-04-4	W
Naphthalene	4420	ug/kg	298	149	4	03/23/18 07:15	03/23/18 16:49	91-20-3	
Toluene	<100	ug/kg	200	100	4	03/23/18 07:15	03/23/18 16:49	108-88-3	W
m&p-Xylene	474J	ug/kg	597	298	4	03/23/18 07:15	03/23/18 16:49	179601-23-1	
o-Xylene	199J	ug/kg	298	149	4	03/23/18 07:15	03/23/18 16:49	95-47-6	
Surrogates a,a,a-Trifluorotoluene (S)	99	%	80-120		4	03/23/18 07:15	03/23/18 16:49	98-08-8	D3
Percent Moisture	Analytical	Method: AST	TM D2974-87						
Percent Moisture	33.0	%	0.10	0.10	1		03/23/18 13:56		



Project: 34265.003 SRC/T25

Pace Project No.: 40166298

Date: 03/27/2018 08:03 AM

Sample: GP-14/1-3 Lab ID: 40166298005 Collected: 03/20/18 09:00 Received: 03/22/18 10:45 Matrix: Solid

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI I	MOD GRO Pr	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
1,2,4-Trimethylbenzene	2130	ug/kg	170	85.2	2.5	03/23/18 07:15	03/26/18 10:55	95-63-6	
1,3,5-Trimethylbenzene	1140	ug/kg	170	85.2	2.5	03/23/18 07:15	03/26/18 10:55	108-67-8	
Benzene	<62.5	ug/kg	125	62.5	2.5	03/23/18 07:15	03/26/18 10:55	71-43-2	W
Ethylbenzene	373	ug/kg	170	85.2	2.5	03/23/18 07:15	03/26/18 10:55	100-41-4	
Methyl-tert-butyl ether	<62.5	ug/kg	125	62.5	2.5	03/23/18 07:15	03/26/18 10:55	1634-04-4	W
Naphthalene	2490	ug/kg	170	85.2	2.5	03/23/18 07:15	03/26/18 10:55	91-20-3	
Toluene	<62.5	ug/kg	125	62.5	2.5	03/23/18 07:15	03/26/18 10:55	108-88-3	W
m&p-Xylene	625	ug/kg	341	170	2.5	03/23/18 07:15	03/26/18 10:55	179601-23-1	
o-Xylene	143J	ug/kg	170	85.2	2.5	03/23/18 07:15	03/26/18 10:55	95-47-6	
Surrogates a,a,a-Trifluorotoluene (S)	101	%	80-120		2.5	03/23/18 07:15	03/26/18 10:55	98-08-8	D3
Percent Moisture	Analytical	Method: AST	TM D2974-87						
Percent Moisture	26.7	%	0.10	0.10	1		03/23/18 13:56		



Project: 34265.003 SRC/T25

Pace Project No.: 40166298

Date: 03/27/2018 08:03 AM

Sample: GP-15/0-1 Lab ID: 40166298006 Collected: 03/20/18 09:15 Received: 03/22/18 10:45 Matrix: Solid

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pi	eparation N	∕lethod	: TPH GRO/PVO	C WI ext.		
1,2,4-Trimethylbenzene	70800	ug/kg	1470	734	20	03/23/18 07:15	03/23/18 16:24	95-63-6	
1,3,5-Trimethylbenzene	19500	ug/kg	1470	734	20	03/23/18 07:15	03/23/18 16:24	108-67-8	
Benzene	4590	ug/kg	1470	734	20	03/23/18 07:15	03/23/18 16:24	71-43-2	
Ethylbenzene	22000	ug/kg	1470	734	20	03/23/18 07:15	03/23/18 16:24	100-41-4	
Methyl-tert-butyl ether	<500	ug/kg	1000	500	20	03/23/18 07:15	03/23/18 16:24	1634-04-4	W
Naphthalene	25700	ug/kg	1470	734	20	03/23/18 07:15	03/23/18 16:24	91-20-3	
Toluene	<500	ug/kg	1000	500	20	03/23/18 07:15	03/23/18 16:24	108-88-3	W
m&p-Xylene	24200	ug/kg	2940	1470	20	03/23/18 07:15	03/23/18 16:24	179601-23-1	
o-Xylene	1860	ug/kg	1470	734	20	03/23/18 07:15	03/23/18 16:24	95-47-6	
Surrogates a,a,a-Trifluorotoluene (S)	103	%	80-120		20	03/23/18 07:15	03/23/18 16:24	98-08-8	
Percent Moisture	Analytical	Method: AST	TM D2974-87						
Percent Moisture	31.9	%	0.10	0.10	1		03/23/18 13:56		



Project: 34265.003 SRC/T25

Pace Project No.: 40166298

Date: 03/27/2018 08:03 AM

Sample: GP-16/1-3 Lab ID: 40166298007 Collected: 03/20/18 09:35 Received: 03/22/18 10:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI I	MOD GRO PI	reparation N	/lethod	: TPH GRO/PVO	C WI ext.		
1,2,4-Trimethylbenzene	5870	ug/kg	144	72.1	2	03/23/18 07:15	03/23/18 19:24	95-63-6	
1,3,5-Trimethylbenzene	2240	ug/kg	144	72.1	2	03/23/18 07:15	03/23/18 19:24	108-67-8	
Benzene	211	ug/kg	144	72.1	2	03/23/18 07:15	03/23/18 19:24	71-43-2	
Ethylbenzene	1330	ug/kg	144	72.1	2	03/23/18 07:15	03/23/18 19:24	100-41-4	
Methyl-tert-butyl ether	<50.0	ug/kg	100	50.0	2	03/23/18 07:15	03/23/18 19:24	1634-04-4	W
Naphthalene	2710	ug/kg	144	72.1	2	03/23/18 07:15	03/23/18 19:24	91-20-3	
Toluene	<50.0	ug/kg	100	50.0	2	03/23/18 07:15	03/23/18 19:24	108-88-3	W
m&p-Xylene	1810	ug/kg	288	144	2	03/23/18 07:15	03/23/18 19:24	179601-23-1	
o-Xylene	227	ug/kg	144	72.1	2	03/23/18 07:15	03/23/18 19:24	95-47-6	
Surrogates a,a,a-Trifluorotoluene (S)	103	%	80-120		2	03/23/18 07:15	03/23/18 19:24	98-08-8	D3
Percent Moisture	Analytical	Method: AST	M D2974-87						
Percent Moisture	30.7	%	0.10	0.10	1		03/23/18 13:56		



Project: 34265.003 SRC/T25

Pace Project No.: 40166298

Date: 03/27/2018 08:03 AM

Sample: GP-19/1-3 Lab ID: 40166298008 Collected: 03/20/18 10:40 Received: 03/22/18 10:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI I	MOD GRO Pr	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
1,2,4-Trimethylbenzene	2940	ug/kg	140	70.0	2	03/23/18 07:15	03/23/18 19:50	95-63-6	
1,3,5-Trimethylbenzene	1530	ug/kg	140	70.0	2	03/23/18 07:15	03/23/18 19:50	108-67-8	
Benzene	<50.0	ug/kg	100	50.0	2	03/23/18 07:15	03/23/18 19:50	71-43-2	W
Ethylbenzene	692	ug/kg	140	70.0	2	03/23/18 07:15	03/23/18 19:50	100-41-4	
Methyl-tert-butyl ether	<50.0	ug/kg	100	50.0	2	03/23/18 07:15	03/23/18 19:50	1634-04-4	W
Naphthalene	2230	ug/kg	140	70.0	2	03/23/18 07:15	03/23/18 19:50	91-20-3	
Toluene	<50.0	ug/kg	100	50.0	2	03/23/18 07:15	03/23/18 19:50	108-88-3	W
m&p-Xylene	1130	ug/kg	280	140	2	03/23/18 07:15	03/23/18 19:50	179601-23-1	
o-Xylene	252	ug/kg	140	70.0	2	03/23/18 07:15	03/23/18 19:50	95-47-6	
Surrogates a,a,a-Trifluorotoluene (S)	102	%	80-120		2	03/23/18 07:15	03/23/18 19:50	98-08-8	D3
Percent Moisture	Analytical	Method: AST	TM D2974-87						
Percent Moisture	28.5	%	0.10	0.10	1		03/23/18 14:41		



Project: 34265.003 SRC/T25

Pace Project No.: 40166298

Date: 03/27/2018 08:03 AM

Sample: GP-20/0-1 Lab ID: 40166298009 Collected: 03/20/18 10:50 Received: 03/22/18 10:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI I	MOD GRO Pi	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
1,2,4-Trimethylbenzene	4240	ug/kg	295	148	4	03/23/18 07:15	03/23/18 17:15	95-63-6	
1,3,5-Trimethylbenzene	2400	ug/kg	295	148	4	03/23/18 07:15	03/23/18 17:15	108-67-8	
Benzene	1940	ug/kg	295	148	4	03/23/18 07:15	03/23/18 17:15	71-43-2	
Ethylbenzene	3510	ug/kg	295	148	4	03/23/18 07:15	03/23/18 17:15	100-41-4	
Methyl-tert-butyl ether	<100	ug/kg	200	100	4	03/23/18 07:15	03/23/18 17:15	1634-04-4	W
Naphthalene	5470	ug/kg	295	148	4	03/23/18 07:15	03/23/18 17:15	91-20-3	
Toluene	<100	ug/kg	200	100	4	03/23/18 07:15	03/23/18 17:15	108-88-3	W
m&p-Xylene	2770	ug/kg	591	295	4	03/23/18 07:15	03/23/18 17:15	179601-23-1	
o-Xylene	233J	ug/kg	295	148	4	03/23/18 07:15	03/23/18 17:15	95-47-6	
Surrogates a,a,a-Trifluorotoluene (S)	100	%	80-120		4	03/23/18 07:15	03/23/18 17:15	98-08-8	D3
Percent Moisture	Analytical	Method: AST	M D2974-87						
Percent Moisture	32.3	%	0.10	0.10	1		03/23/18 14:41		



Project: 34265.003 SRC/T25

Pace Project No.: 40166298

Date: 03/27/2018 08:03 AM

Sample: GP-23/1-3 Lab ID: 40166298010 Collected: 03/20/18 13:20 Received: 03/22/18 10:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI I	MOD GRO Pi	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
1,2,4-Trimethylbenzene	3130	ug/kg	284	142	4	03/23/18 07:15	03/23/18 17:41	95-63-6	
1,3,5-Trimethylbenzene	1640	ug/kg	284	142	4	03/23/18 07:15	03/23/18 17:41	108-67-8	
Benzene	<100	ug/kg	200	100	4	03/23/18 07:15	03/23/18 17:41	71-43-2	W
Ethylbenzene	679	ug/kg	284	142	4	03/23/18 07:15	03/23/18 17:41	100-41-4	
Methyl-tert-butyl ether	<100	ug/kg	200	100	4	03/23/18 07:15	03/23/18 17:41	1634-04-4	W
Naphthalene	3930	ug/kg	284	142	4	03/23/18 07:15	03/23/18 17:41	91-20-3	
Toluene	<100	ug/kg	200	100	4	03/23/18 07:15	03/23/18 17:41	108-88-3	W
m&p-Xylene	988	ug/kg	568	284	4	03/23/18 07:15	03/23/18 17:41	179601-23-1	
o-Xylene	317	ug/kg	284	142	4	03/23/18 07:15	03/23/18 17:41	95-47-6	
Surrogates a,a,a-Trifluorotoluene (S)	100	%	80-120		4	03/23/18 07:15	03/23/18 17:41	98-08-8	D3
Percent Moisture	Analytical	Method: AST	M D2974-87						
Percent Moisture	29.6	%	0.10	0.10	1		03/23/18 14:41		



Project: 34265.003 SRC/T25

Pace Project No.: 40166298

Date: 03/27/2018 08:03 AM

Sample: GP-27/1-3 Lab ID: 40166298011 Collected: 03/20/18 14:35 Received: 03/22/18 10:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pro	eparation N	/lethod	I: TPH GRO/PVO	C WI ext.		
1,2,4-Trimethylbenzene	<100	ug/kg	200	100	4	03/23/18 07:15	03/23/18 18:07	95-63-6	W
1,3,5-Trimethylbenzene	671	ug/kg	274	137	4	03/23/18 07:15	03/23/18 18:07	108-67-8	
Benzene	<100	ug/kg	200	100	4	03/23/18 07:15	03/23/18 18:07	71-43-2	W
Ethylbenzene	196J	ug/kg	274	137	4	03/23/18 07:15	03/23/18 18:07	100-41-4	
Methyl-tert-butyl ether	<100	ug/kg	200	100	4	03/23/18 07:15	03/23/18 18:07	1634-04-4	W
Naphthalene	3580	ug/kg	274	137	4	03/23/18 07:15	03/23/18 18:07	91-20-3	
Toluene	<100	ug/kg	200	100	4	03/23/18 07:15	03/23/18 18:07	108-88-3	W
m&p-Xylene	317J	ug/kg	547	274	4	03/23/18 07:15	03/23/18 18:07	179601-23-1	
o-Xylene	<100	ug/kg	200	100	4	03/23/18 07:15	03/23/18 18:07	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	98	%	80-120		4	03/23/18 07:15	03/23/18 18:07	98-08-8	D3
Percent Moisture	Analytical	Method: AST	ΓM D2974-87						
Percent Moisture	26.9	%	0.10	0.10	1		03/23/18 14:41		

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ANALYTICAL RESULTS

Project: 34265.003 SRC/T25

Pace Project No.: 40166298

Date: 03/27/2018 08:03 AM

Sample: TRIP BLANK Lab ID: 40166298012 Collected: 03/20/18 00:00 Received: 03/22/18 10:45 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO P	reparation N	/lethod	: TPH GRO/PVO	C WI ext.		
1,2,4-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	03/23/18 07:15	03/23/18 15:06	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	03/23/18 07:15	03/23/18 15:06	108-67-8	W
Benzene	<25.0	ug/kg	50.0	25.0	1	03/23/18 07:15	03/23/18 15:06	71-43-2	W
Ethylbenzene	<25.0	ug/kg	50.0	25.0	1	03/23/18 07:15	03/23/18 15:06	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	50.0	25.0	1	03/23/18 07:15	03/23/18 15:06	1634-04-4	W
Naphthalene	<25.0	ug/kg	50.0	25.0	1	03/23/18 07:15	03/23/18 15:06	91-20-3	W
Toluene	<25.0	ug/kg	50.0	25.0	1	03/23/18 07:15	03/23/18 15:06	108-88-3	W
m&p-Xylene	<50.0	ug/kg	100	50.0	1	03/23/18 07:15	03/23/18 15:06	179601-23-1	W
o-Xylene Surrogates	<25.0	ug/kg	50.0	25.0	1	03/23/18 07:15	03/23/18 15:06	95-47-6	W
a,a,a-Trifluorotoluene (S)	97	%	80-120		1	03/23/18 07:15	03/23/18 15:06	98-08-8	



QUALITY CONTROL DATA

Project: 34265.003 SRC/T25

Pace Project No.: 40166298

Date: 03/27/2018 08:03 AM

QC Batch: 284111 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV

Associated Lab Samples: 40166298001, 40166298002, 40166298003, 40166298004, 40166298005, 40166298006, 40166298007,

40166298008, 40166298009, 40166298010, 40166298011, 40166298012

METHOD BLANK: 1662982 Matrix: Solid

Associated Lab Samples: 40166298001, 40166298002, 40166298003, 40166298004, 40166298005, 40166298006, 40166298007,

40166298008, 40166298009, 40166298010, 40166298011, 40166298012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
					————
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	03/23/18 08:44	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	03/23/18 08:44	
Benzene	ug/kg	<25.0	50.0	03/23/18 08:44	
Ethylbenzene	ug/kg	<25.0	50.0	03/23/18 08:44	
m&p-Xylene	ug/kg	<50.0	100	03/23/18 08:44	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	03/23/18 08:44	
Naphthalene	ug/kg	<25.0	50.0	03/23/18 08:44	
o-Xylene	ug/kg	<25.0	50.0	03/23/18 08:44	
Toluene	ug/kg	<25.0	50.0	03/23/18 08:44	
a,a,a-Trifluorotoluene (S)	%	97	80-120	03/23/18 08:44	

LABORATORY CONTROL SAMPLE	& LCSD: 166298	3	16	62984						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	983	1040	98	104	80-120	6	20	
1,3,5-Trimethylbenzene	ug/kg	1000	955	1010	96	101	80-120	6	20	
Benzene	ug/kg	1000	919	985	92	98	80-120	7	20	
Ethylbenzene	ug/kg	1000	950	1010	95	101	80-120	6	20	
m&p-Xylene	ug/kg	2000	1880	1980	94	99	80-120	5	20	
Methyl-tert-butyl ether	ug/kg	1000	921	990	92	99	80-120	7	20	
Naphthalene	ug/kg	1000	901	970	90	97	80-120	7	20	
o-Xylene	ug/kg	1000	941	1000	94	100	80-120	6	20	
Toluene	ug/kg	1000	933	996	93	100	80-120	7	20	
a,a,a-Trifluorotoluene (S)	%				98	98	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Green Bay, WI 54302 (920)469-2436

QUALITY CONTROL DATA

Project: 34265.003 SRC/T25

Pace Project No.: 40166298

QC Batch: 284174 Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40166298001, 40166298002, 40166298003, 40166298004, 40166298005, 40166298006, 40166298007

SAMPLE DUPLICATE: 1663314

Date: 03/27/2018 08:03 AM

40166325003 Dup Max Parameter Units Result Result **RPD** RPD Qualifiers % 19.0 Percent Moisture 19.1 0 10

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 34265.003 SRC/T25

Pace Project No.: 40166298

QC Batch: 284180 Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40166298008, 40166298009, 40166298010, 40166298011

SAMPLE DUPLICATE: 1663380

Date: 03/27/2018 08:03 AM

40166316001 Dup Max Parameter Units Result Result **RPD** RPD Qualifiers % 6.3 Percent Moisture 6.3 0 10

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: 34265.003 SRC/T25

Pace Project No.: 40166298

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

Date: 03/27/2018 08:03 AM

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

W Non-detect results are reported on a wet weight basis.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 34265.003 SRC/T25

Pace Project No.: 40166298

Date: 03/27/2018 08:03 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40166298001	GP-1/0-2	TPH GRO/PVOC WI ext.	284111	WI MOD GRO	284156
40166298002	GP-11/0-1	TPH GRO/PVOC WI ext.	284111	WI MOD GRO	284156
40166298003	GP-12/1-3	TPH GRO/PVOC WI ext.	284111	WI MOD GRO	284156
40166298004	GP-13/0-1	TPH GRO/PVOC WI ext.	284111	WI MOD GRO	284156
40166298005	GP-14/1-3	TPH GRO/PVOC WI ext.	284111	WI MOD GRO	284156
40166298006	GP-15/0-1	TPH GRO/PVOC WI ext.	284111	WI MOD GRO	284156
40166298007	GP-16/1-3	TPH GRO/PVOC WI ext.	284111	WI MOD GRO	284156
40166298008	GP-19/1-3	TPH GRO/PVOC WI ext.	284111	WI MOD GRO	284156
40166298009	GP-20/0-1	TPH GRO/PVOC WI ext.	284111	WI MOD GRO	284156
40166298010	GP-23/1-3	TPH GRO/PVOC WI ext.	284111	WI MOD GRO	284156
40166298011	GP-27/1-3	TPH GRO/PVOC WI ext.	284111	WI MOD GRO	284156
40166298012	TRIP BLANK	TPH GRO/PVOC WI ext.	284111	WI MOD GRO	284156
40166298001	GP-1/0-2	ASTM D2974-87	284174		
40166298002	GP-11/0-1	ASTM D2974-87	284174		
40166298003	GP-12/1-3	ASTM D2974-87	284174		
40166298004	GP-13/0-1	ASTM D2974-87	284174		
40166298005	GP-14/1-3	ASTM D2974-87	284174		
40166298006	GP-15/0-1	ASTM D2974-87	284174		
40166298007	GP-16/1-3	ASTM D2974-87	284174		
40166298008	GP-19/1-3	ASTM D2974-87	284180		
40166298009	GP-20/0-1	ASTM D2974-87	284180		
40166298010	GP-23/1-3	ASTM D2974-87	284180		
40166298011	GP-27/1-3	ASTM D2974-87	284180		

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Project # 40166298

Initial when Date/ Time: completed: All containers needing preservation have been checked and noted below: "Yes "No N/A Lab Std #ID of preservation (if pH adjusted): /OA Vials (>6mm) JaOH+Zn Act pH adjusted Glass **Plastic** Vials Jars General 12SO4 pH <2 laOH pH ≥12 Volume (NO3 pH <2 (mL) WGFU WPFU DG9A VG9M AG4U AG5U AG2S BG3U JGFU AG10 AG1H BP1U **BP2N** BP3U **BP3C** BP3N BP3S DG9T **VG9**U **VG9H** VG9D after SP5T BP2Z Pace S Lab # 001 2.5 / 5 / 10 002 2.5 / 5 / 10 003 2.5 / 5 / 10 004 2.5 / 5 / 10 005 2.5 / 5 / 10 006 2.5 / 5 / 10 007 2.5 / 5 / 10 800 2.5 / 5 / 10 009 2.5 / 5 / 10 010 2.5 / 5 / 10 011 2.5 / 5 / 10 012 2.5 / 5 / 10 013 2.5 / 5 / 10 014 2.5 / 5 / 10 015 2.5 / 5 / 10 016 2.5 / 5 / 10 017 2.5 / 5 / 10 018 2.5 / 5 / 10 019 2.5 / 5 / 10 020 2.5 / 5 / 10 Headspace in VOA Vials (>6mm): □Yes □No pN/A *If yes look in headspace column Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: AG1U 1 liter amber glass BP1U 1 liter plastic unpres DG9A 40 mL amber ascorbic **JGFU** 4 oz amber jar unpres 500 mL plastic HNO3 AG1H 1 liter amber glass HCL BP2N DG9T 40 mL amber Na Thio WGFU 4 oz clear jar unpres BP2Z AG4S 125 mL amber glass H2SO4 500 mL plastic NaOH, Znact WPFU VG9U 40 mL clear vial unpres 4 oz plastic jar unpres AG4U 120 mL amber glass unpres BP3U 250 mL plastic unpres VG9H 40 mL clear vial HCL AG5U 100 mL amber glass unpres BP3C 250 mL plastic NaOH VG9M 40 mL clear vial MeOH SP5T 120 mL plastic Na Thiosulfate 40 mL clear vial DI AG2S 500 mL amber glass H2SO4 BP3N 250 mL plastic HNO3 VG9D ZPLC ziploc bag BG3U 250 mL clear glass unpres BP3S 250 mL plastic H2SO4

Pace Analytical

Document Name: Sample Condition Upon Receipt (SCUR)

Document Revised: 31Jan2018

Document No.:

Issuing Authority: Pace Green Bay Quality Office

1241 Bellevue Street, Green Bay, WI 54302

F-GB-C-031-rev.06

Sample Condition Upon Receipt Form (SCUR)

				Project #:			
Client Name: Channett Fler	عمثم				` Ы∩#`-	40166	200
Courier: CS Logistics Fed Ex Speedee		1	ΓW	altco	WUT ·	40TO(ノング
Client Pace Other:							
Tracking #: -180188594049				_	40166298	t temme te to de de maj	
Custody Seal on Cooler/Box Present: yes	no	Seals	intact:	yes no		The second secon	
Custody Seal on Samples Present: 🦵 yes 🏸 r			intact:	□ yes □ no			
Packing Material: / Bubble Wrap / Bubble	e Bag	s T	None	Other _			
	· ·	f ice:	(Vet)	Blue Dry None	Samples	s on ice, cooling p	rocess has begun
·	0T	D: -1-	!! T	innun in Funnun			
Temp Blank Present: Tyes no		Biolo	gicai i	issue is Frozen:	yes no	Person e	xamining contents:
Temp should be above freezing to 6°C. Biota Samples may be received at ≤ 0°C.						Initials:	lof'
Chain of Custody Present:	D Yes	□No	□n/a	1.	···		
Chain of Custody Filled Out:	Yes	□No	□n/a	2.			
Chain of Custody Relinquished:	Yes	□No	□n/a	3. relinguis	hed in	pencil	Kf 3/22/18
Sampler Name & Signature on COC:	Yes	□No	□n/a	4.			
Samples Arrived within Hold Time:	Yes	□No	□n/a	5.			
- VOA Samples frozen upon receipt	□Yes	□No		Date/Time:			
Short Hold Time Analysis (<72hr):	□Yes	DK10	□n/a	6.			
Rush Turn Around Time Requested:	□Yes	Zίνο	□n/a	7.			
Sufficient Volume: ☐Yes ZNo ☐N/A MS/MSD	□Yes	□ K 0	□n/a	8.			
Correct Containers Used:	D∕Yes	□No	□n/a	9.			
-Pace Containers Used:	Yes	ØNo	□N/A				
-Pace IR Containers Used:	□Yes	□No	DAN/A				
Containers Intact:	Ø Yes	□No	□N/A	10.			
Filtered volume received for Dissolved tests	□Yes	□no	□M/A	11.			
Sample Labels match COC:	ØYes	□No	□n/a	12.			
-Includes date/time/ID/Analysis Matrix:		2					
Trip Blank Present:	∕ZYes	□No	□n/a	13.			
Trip Blank Custody Seals Present	Yes	□No	□N/A				
Pace Trip Blank Lot # (if purchased): 67-56-	:L						
Client Notification/ Resolution: Person Contacted: Comments/ Resolution:			Date/1		checked, see at	tached form for a	dditional comments
Project Manager Review: RnR	f	ðr	Di	η	Dat	te:3/22//	'Y