

APPENDIX F1: REVISED SECTION 7.2.4 TEXT & SECTION 7.3.1 TABLES

Revised Section 7.2.4 Text from 2023 FR

Table F1-1 VOC Detections in Groundwater Monitoring Wells

Table F1-2 Exceedances of the Site-Specific Indicator Parameters

WDNR Comment 9 b. and 9 c. Response

The revised Section 7.2.4 is provided below. The revisions are in red italicized text and/or struck through.

7.2.4 Groundwater Quality

The **vertical** expansion is not expected to have a detrimental effect on the groundwater quality of the area. The existing groundwater quality ~~generally is good and~~ is discussed in detail in Section 5.8.4. The proposed expansion is designed in conformance with NR 504.06. This design incorporates the existing composite liner and leachate and landfill gas collection systems along with a new cap system. The Landfill is located in a coarse-grained soil environment as previously permitted in the 1986 and 2017 Feasibility Studies. Ongoing monitoring of the existing landfill has been conducted since inception showing no ongoing impacts ~~exceedances~~, or continuous increases of parameters since the recent 2016 Feasibility Report, except for the requested exemptions. The landfill will continue quality control testing of the monitoring wells for any possible impacts of the groundwater. Sporadic detections of various compounds have been reported and are summarized below.

Volatile Organic Compounds (VOCs)

The VOC detections from March 2012 to March 2025 at the Adams County Sanitary Landfill monitoring wells discussed below are summarized in Table F1-1.

MW-1: Acetone was detected at a concentration of 0.0042 mg/L, below the PAL of 9 mg/L in the sample collected from March of 2020. Toluene was also detected at a concentration of 0.46 ug/L, below the PAL of 160 ug/L in the sample collected from March of 2021. Subsequent sampling has not detected acetone or toluene in MW-1.

MW-1P: Tetrachloroethylene was reported at 1.9 **ug/L** which exceeded the PAL (0.5 **ug/L**) in March of 2021. The subsequent sampling rounds did not detect tetrachloroethylene, but did have low-level detection of toluene below the PAL.

MW-19: Tetrahydrofuran was detected in the samples collected in March of 2017 and 2018 at concentrations below the PAL **of 10 ug/L**. Subsequent sampling has been non-detect for tetrahydrofuran.

MW-30: Three petroleum-related compounds including 1,2,4 trimethylbenzene, m & p xylene and toluene were detected in the March 2021 round of sampling. Detections were below **respective PALs of 96 ug/L, 0.4 mg/L, and 160 ug/L**. *Subsequent sampling has not detected the petroleum related VOC compounds in MW-30.*

MW-30P: 1,2,4 trimethylbenzene was detected at a concentration of 0.42 **ug/L** in the sample collected from the March 2021 round of sampling. *Subsequent sampling has not detected 1,2,4 trimethylbenzene in MW-30P.*

MW-31: Chloromethane was detected at a concentration of 0.65 ug/L, below the PAL of 3 ug/L in the sample collected from March of 2021. Subsequent sampling has not detected chloromethane in MW-31.

Since the VOCs discussed above were sporadic, occurred in both upgradient and downgradient wells, and have not been detected since March of 2021, the landfill is an unlikely source. The source is more

likely laboratory contamination or contamination during sampling. VOCs will continue to be monitored at these wells as part of detection monitoring.

Indicator Parameters

The site specific indicator parameter exceedances from March 2012 to March 2025 at the Adams County Sanitary Landfill monitoring wells discussed below are summarized in Table F1-2.

MW-22: MW-22 is located down-gradient of the Closed Demolition Landfill and side-gradient to the Adams County Sanitary Landfill. Reported Elevated concentrations of alkalinity, chemical oxygen demand, conductivity and hardness have been reported above their respective well-specific PALs since the mid to late 1990s. Alkalinity exceedance concentrations have ranged from 550 mg/L to 820 mg/L, chemical oxygen demand exceedance concentrations have ranged from 29 mg/L to 300 mg/L, specific conductance exceedances have ranged from 872.6 $\mu\Omega/\text{cm}$ to 1,990 $\mu\Omega/\text{cm}$ and hardness exceedance concentrations have ranged from 488 mg/L to 2,010 mg/L since 2012. The concentrations of alkalinity, chemical oxygen demand, specific conductance and hardness have remained relatively steady since the last expansion approval in 2019. Sulfate concentrations were reported above the NR140 PAL of 125 mg/L in samples collected three times during 2025 (720 mg/L in March 2025, 420 mg/L in June 11, 2025 and 270 mg/L in September 2025). As the data indicates, the sulfate concentration is decreasing. Additional sampling is recommended to further assess the sulfate trend.

MW-1, MW-18, and MW-19: Consistently reported site specific indicator PAL exceedances for alkalinity, conductivity, and hardness concentrations since 2012. The calculated PALs at MW-1, MW-18, and MW-19 have been exceeded consistently: Alkalinity exceedance concentrations have ranged from 290 mg/L to 590 mg/L, specific conductance exceedances have ranged from 597 $\mu\Omega/\text{cm}$ to 1,470 $\mu\Omega/\text{cm}$ and hardness exceedance concentrations have ranged from 312 mg/L to 633 mg/L. These wells are located down-gradient of the Adams County Sanitary Landfill.

MW-1P, MW-2, and MW-19P: Sporadically reported site specific indicator PAL exceedances for alkalinity, chemical oxygen demand, conductivity, and hardness concentrations since 2012. These wells are also located down-gradient of the Adams County Sanitary Landfill.

MW-3, MW-6, MW-6P, and MW-16 reported site specific indicator PAL exceedances for alkalinity. MW-3, MW-3P, MW-6P, MW-16, MW-17 and MW-17P reported site specific indicator PAL exceedances for chemical oxygen demand. MW-3P, MW-6, MW-6P, MW-16 reported site specific indicator PAL exceedances for conductivity. MW-16 reported site specific indicator PAL exceedances for hardness concentrations since 2012. These wells are located up-gradient or were within Phase 6 of the Adams County Sanitary Landfill and reflect overall groundwater conditions. MW-3, MW-3P, and MW17P are now abandoned.

MW-20 and MW-21: Reported site specific indicator PAL exceedances for alkalinity, chemical oxygen demand, conductivity, and hardness concentrations since 2012. The calculated PALs at MW-20 and MW-21 have been exceeded consistently: Alkalinity exceedance concentrations have ranged from 300 mg/L to 700 mg/L, specific conductance exceedances have ranged from 601 $\mu\Omega/\text{cm}$ to 1,470 $\mu\Omega/\text{cm}$ and hardness exceedance concentrations have ranged from 398 mg/L to 741 mg/L. These wells are located side-gradient to both the Adams County Sanitary Landfill and the Closed Demolition Landfill.

Alkalinity concentrations in the landfill leachate has ranged from 1,200 mg/L to 4,600 mg/L since 2012. The specific conductance in the landfill leachate has ranged from 1,689 $\mu\Omega/\text{cm}$ to 11,540 $\mu\Omega/\text{cm}$ since

2012. The hardness in the landfill leachate has ranged from 438 mg/L to 1,590 mg/L since 2012. When compared to the down-gradient well exceedance results, the leachate results for alkalinity, hardness and specific conductance are much greater than the site specific exceedance results and are much closer to the exceedance results for the up and side-gradient wells than to the leachate. Based on a comparison to leachate results and up- and side-gradient well results, the indicator parameter exceedances for the down-gradient wells (with the exception of MW-22) are likely from changes in overall groundwater conditions rather than landfill operations. The lack of consistent VOC detections in the down-gradient wells is also supportive of this conclusion.

Table F1-1
VOC Detections In Groundwater Monitoring Wells
Adams County Sanitary Landfill - Vertical Expansion Feasibility Report - Addendum No. 1
WDNR License No. 3150
Town of Strong's Prairie, Adams County, Wisconsin

Parameter Group	Unit	NR 140 PAL	NR 140 ES	Well ID	Sample Date	Result	NR 140 Exceedance	Hydraulic Location
Acetone Public Health	mg/L	1.8	9	MW-1	3/7/2012	0.031	No	Downgradient
				MW-1	3/11/2013	0.0054	No	Downgradient
				MW-1	3/19/2014	0.0043	No	Downgradient
				MW-1	3/4/2020	0.0042	No	Downgradient
Toluene Public Health	ug/L	160	800	MW-1	3/2/2021	0.46	No	Downgradient
				MW-1P	3/2/2021	0.34	No	Downgradient
				MW-30	3/3/2021	0.31	No	Upgradient
Tetrachloroethylene Public Health	ug/L	0.5	5	MW-1P	3/4/2020	2.7	PAL - Public Health	Downgradient
				-	-	-	-	-
Tetrahydrofuran Public Health	ug/L	10	50	MW-19	3/9/2017	18	No	Downgradient
				MW-19	3/7/2018	8.2	No	Downgradient
1,2,4- Trimethylbenzene Public Health	ug/L	96	480	MW-30	3/3/2021	0.62	No	Upgradient
				MW-30P	3/3/2021	0.42	No	Upgradient
Xylene M & P Public Health	mg/L	0.4	2	MW-30	3/3/2021	0.00079	No	Upgradient
				-	-	-	-	-
Chloromethane Public Health	ug/L	80	400	MW-31	3/3/2021	0.65	No	Upgradient
				-	-	-	-	-

Created By: LS
Checked By: KC

Notes:

1. ES = Enforcement Standard, as established in NR 140.
2. PAL = Preventative Action Limit, as established in NR 140.
3. The hydraulic location listed for each well is relative to the Adams County Sanitary Landfill and Closed Demolition Landfill.
4. Data Source: Wisconsin Department of Natural Resources Groundwater Environmental Monitoring System (WDNR GEMS) Database (March 2012-March 2025).
5. This summary table was created as part of the 2025 Feasibility Report Addendum No. 1 for the proposed Vertical Expansion to supplement the revised Section 7.2.4 FR text provided in Appendix F1.

Table F1-2
Exceedances of Site-Specific Indicator Parameters
Adams County Sanitary Landfill - Vertical Expansion Feasibility Report - Addendum No. 1
WDNR License No. 3150
Town of Strong's Prairie, Adams County, Wisconsin

Parameter Group	Unit	Approved Calculated PAL	Well ID	Sample Date	Result	Site Specific Indicator Parameter PAL Exceedance	Hydraulic Location
Alkalinity Indicator Parameter	mg/L	290	MW-1	3/7/2012	320	Yes	Down gradient
		290	MW-1	9/12/2012	290	Yes	Down gradient
		290	MW-1	9/17/2013	290	Yes	Down gradient
		290	MW-1	3/17/2015	300	Yes	Down gradient
		290	MW-1	9/9/2015	340	Yes	Down gradient
		290	MW-1	3/16/2016	420	Yes	Down gradient
		290	MW-1	9/19/2016	370	Yes	Down gradient
		290	MW-1	3/9/2017	390	Yes	Down gradient
		290	MW-1	9/6/2017	360	Yes	Down gradient
		290	MW-1	3/7/2018	360	Yes	Down gradient
		290	MW-1	9/6/2018	360	Yes	Down gradient
		290	MW-1	3/5/2019	310	Yes	Down gradient
		290	MW-1	9/4/2019	320	Yes	Down gradient
		290	MW-1	3/4/2020	310	Yes	Down gradient
		290	MW-1	9/2/2020	330	Yes	Down gradient
		290	MW-1	3/2/2021	320	Yes	Down gradient
		290	MW-1	9/7/2021	310	Yes	Down gradient
		290	MW-1	3/1/2022	290	Yes	Down gradient
		290	MW-1	9/6/2022	300	Yes	Down gradient
		290	MW-1	3/1/2023	290	Yes	Down gradient
		290	MW-1	9/6/2023	300	Yes	Down gradient
		290	MW-1	3/4/2024	300	Yes	Down gradient
		290	MW-1	9/3/2024	300	Yes	Down gradient
		290	MW-1	3/17/2025	320	Yes	Down gradient
		290	MW-3	3/10/2017	290	Yes	Within
		290	MW-3	9/8/2017	290	Yes	Within
		290	MW-3	3/8/2018	290	Yes	Within
		290	MW-3	9/6/2018	290	Yes	Within
		230	MW-6	3/7/2012	240	Yes	Up gradient
		230	MW-6	3/16/2016	240	Yes	Up gradient
		230	MW-6	3/17/2016	290	Yes	Up gradient
		230	MW-6	9/19/2016	240	Yes	Up gradient
		230	MW-6	3/7/2018	270	Yes	Up gradient
		290	MW-6P	3/7/2012	290	Yes	Up gradient
		290	MW-6P	3/9/2017	310	Yes	Up gradient
		290	MW-6P	9/6/2017	330	Yes	Up gradient
		290	MW-6P	3/7/2018	300	Yes	Up gradient
		290	MW-6P	3/17/2025	290	Yes	Up gradient
		320	MW-16	3/16/2016	340	Yes	Up gradient
		340	MW-18	3/16/2016	360	Yes	Down gradient
		340	MW-18	9/6/2017	390	Yes	Down gradient
		340	MW-18	3/7/2018	400	Yes	Down gradient
		340	MW-18	9/6/2018	350	Yes	Down gradient
		340	MW-18	9/6/2022	400	Yes	Down gradient
		340	MW-18	9/3/2014	380	Yes	Down gradient
		340	MW-18	3/18/2025	390	Yes	Down gradient
		300	MW-19	3/16/2016	300	Yes	Down gradient
		300	MW-19	9/19/2016	410	Yes	Down gradient
		300	MW-19	3/9/2017	590	Yes	Down gradient
		300	MW-19	9/6/2017	480	Yes	Down gradient
		300	MW-19	3/7/2018	550	Yes	Down gradient
		300	MW-19	9/6/2018	460	Yes	Down gradient
		300	MW-19	3/5/2019	380	Yes	Down gradient
		300	MW-19	9/4/2019	320	Yes	Down gradient
		300	MW-19	3/4/2020	320	Yes	Down gradient
		300	MW-19	9/2/2020	300	Yes	Down gradient
		300	MW-19	3/2/2021	310	Yes	Down gradient
		300	MW-19	9/6/2023	330	Yes	Down gradient
		300	MW-19	3/4/2024	300	Yes	Down gradient

Table F1-2 (Continued)
Exceedances of Site-Specific Indicator Parameters
Adams County Sanitary Landfill - Vertical Expansion Feasibility Report - Addendum No. 1
WDNR License No. 3150
Town of Strong's Prairie, Adams County, Wisconsin

Parameter Group	Unit	Approved Calculated PAL	Well ID	Sample Date	Result	Site Specific Indicator Parameter PAL Exceedance	Hydraulic Location
Alkalinity Indicator Parameter	mg/L	300	MW-19	9/3/2024	410	Yes	Down gradient
		300	MW-19	3/18/2025	340	Yes	Down gradient
		240	MW-19P	9/9/2015	250	Yes	Down gradient
		290	MW-20	3/7/2012	700	Yes	Side gradient
		290	MW-20	9/12/2012	610	Yes	Side gradient
		290	MW-20	3/11/2013	600	Yes	Side gradient
		290	MW-20	9/17/2013	630	Yes	Side gradient
		290	MW-20	3/19/2014	590	Yes	Side gradient
		290	MW-20	9/23/2014	610	Yes	Side gradient
		290	MW-20	3/17/2015	630	Yes	Side gradient
		290	MW-20	9/9/2015	640	Yes	Side gradient
		290	MW-20	3/16/2016	670	Yes	Side gradient
		290	MW-20	9/19/2016	630	Yes	Side gradient
		290	MW-20	3/9/2017	660	Yes	Side gradient
		290	MW-20	9/6/2017	660	Yes	Side gradient
		290	MW-20	3/7/2018	690	Yes	Side gradient
		290	MW-20	9/5/2018	640	Yes	Side gradient
		290	MW-20	3/5/2019	520	Yes	Side gradient
		290	MW-20	9/4/2019	520	Yes	Side gradient
		290	MW-20	3/4/2020	500	Yes	Side gradient
		290	MW-20	9/2/2020	490	Yes	Side gradient
		290	MW-20	3/2/2021	480	Yes	Side gradient
		290	MW-20	9/7/2021	430	Yes	Side gradient
		290	MW-20	3/1/2022	460	Yes	Side gradient
		290	MW-20	9/6/2022	430	Yes	Side gradient
		290	MW-20	3/1/2023	400	Yes	Side gradient
		290	MW-20	9/6/2023	430	Yes	Side gradient
		290	MW-20	3/4/2024	400	Yes	Side gradient
		290	MW-20	9/3/2024	460	Yes	Side gradient
		290	MW-20	3/17/2025	400	Yes	Side gradient
		290	MW-21	3/7/2012	510	Yes	Side gradient
		290	MW-21	9/12/2012	480	Yes	Side gradient
		290	MW-21	3/11/2013	490	Yes	Side gradient
		290	MW-21	9/17/2013	490	Yes	Side gradient
		290	MW-21	3/19/2014	490	Yes	Side gradient
		290	MW-21	9/23/2014	450	Yes	Side gradient
		290	MW-21	3/17/2015	470	Yes	Side gradient
		290	MW-21	9/9/2015	500	Yes	Side gradient
		290	MW-21	3/16/2016	540	Yes	Side gradient
		290	MW-21	9/19/2016	500	Yes	Side gradient
		290	MW-21	3/9/2017	540	Yes	Side gradient
		290	MW-21	9/6/2017	540	Yes	Side gradient
		290	MW-21	3/7/2018	530	Yes	Side gradient
		290	MW-21	9/5/2018	510	Yes	Side gradient
		290	MW-21	3/5/2019	440	Yes	Side gradient
		290	MW-21	9/4/2019	420	Yes	Side gradient
		290	MW-21	3/4/2020	410	Yes	Side gradient
		290	MW-21	9/2/2020	420	Yes	Side gradient
		290	MW-21	3/2/2021	390	Yes	Side gradient
		290	MW-21	9/7/2021	330	Yes	Side gradient
		290	MW-21	3/1/2022	340	Yes	Side gradient
		290	MW-21	9/6/2022	320	Yes	Side gradient
		290	MW-21	3/1/2023	300	Yes	Side gradient
		290	MW-22	3/7/2012	750	Yes	Down gradient
		290	MW-22	9/12/2012	730	Yes	Down gradient
		290	MW-22	3/11/2013	820	Yes	Down gradient
		290	MW-22	9/17/2013	550	Yes	Down gradient
		290	MW-22	3/19/2014	650	Yes	Down gradient
		290	MW-22	9/23/2014	570	Yes	Down gradient

Table F1-2 (Continued)
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WDNR License No. 3150
Town of Strong's Prairie, Adams County, Wisconsin

Parameter Group	Unit	Approved Calculated PAL	Well ID	Sample Date	Result	Site Specific Indicator Parameter PAL Exceedance	Hydraulic Location
Akalinity Indicator Parameter	mg/L	290	MW-22	3/17/2015	650	Yes	Down gradient
		290	MW-22	9/9/2015	670	Yes	Down gradient
		290	MW-22	3/16/2016	730	Yes	Down gradient
		290	MW-22	9/19/2016	630	Yes	Down gradient
		290	MW-22	3/9/2017	640	Yes	Down gradient
		290	MW-22	9/6/2017	700	Yes	Down gradient
		290	MW-22	3/7/2018	720	Yes	Down gradient
		290	MW-22	9/5/2018	670	Yes	Down gradient
		290	MW-22	3/5/2019	570	Yes	Down gradient
		290	MW-22	9/4/2019	560	Yes	Down gradient
		290	MW-22	3/4/2020	610	Yes	Down gradient
		290	MW-22	9/2/2020	610	Yes	Down gradient
		290	MW-22	3/2/2021	640	Yes	Down gradient
		290	MW-22	9/7/2021	710	Yes	Down gradient
		290	MW-22	3/1/2022	670	Yes	Down gradient
		290	MW-22	9/6/2022	640	Yes	Down gradient
		290	MW-22	3/1/2023	700	Yes	Down gradient
		290	MW-22	9/6/2023	640	Yes	Down gradient
		290	MW-22	3/4/2024	680	Yes	Down gradient
		290	MW-22	9/3/2024	640	Yes	Down gradient
		290	MW-22	3/17/2025	780	Yes	Down gradient
Chemical Oxygen Demand (COD) Indicator Parameter	mg/L	32	MW-1	9/9/2016	70	Yes	Down gradient
		30	MW-2	3/17/2016	110	Yes	Down gradient
		31	MW-2P	3/17/2016	130	Yes	Down gradient
		32	MW-3	3/20/2014	95	Yes	Within
		32	MW-3	3/17/2016	110	Yes	Within
		32	MW-3	9/20/2016	35	Yes	Within
		30	MW-3P	3/17/2016	66	Yes	Within
		30	MW-3P	9/20/2016	49	Yes	Within
		28	MW-6P	9/23/2014	36	Yes	Up gradient
		29	MW-7P	9/17/2013	32	Yes	Side gradient
		29	MW-7P	3/17/2015	72	Yes	Side gradient
		31	MW-16	9/17/2013	52	Yes	Up gradient
		31	MW-16	3/16/2016	75	Yes	Up gradient
		31	MW-16	9/19/2016	47	Yes	Up gradient
		29	MW-17	3/17/2016	62	Yes	Within
		29	MW-17	9/20/2016	31	Yes	Within
		29	MW-17P	9/24/2014	91	Yes	Within
		29	MW-17P	3/17/2016	55	Yes	Within
		28	MW-18	3/16/2016	280	Yes	Down gradient
		28	MW-18P	3/16/2016	180	Yes	Down gradient
		28	MW-19	3/16/2016	240	Yes	Down gradient
		28	MW-19	9/19/2016	31	Yes	Down gradient
		29	MW-19P	3/19/2014	30	Yes	Down gradient
		29	MW-19P	3/16/2016	170	Yes	Down gradient
		29	MW-19P	9/19/2016	100	Yes	Down gradient
		29	MW-20	3/19/2014	110	Yes	Side gradient
		29	MW-20	3/17/2015	90	Yes	Side gradient
		29	MW-20	3/16/2016	250	Yes	Side gradient
		42	MW-21	3/16/2016	240	Yes	Side gradient
		29	MW-22	3/11/2013	91	Yes	Down gradient
		29	MW-22	3/19/2014	29	Yes	Down gradient
		29	MW-22	3/17/2015	65	Yes	Down gradient
		29	MW-22	3/16/2016	300	Yes	Down gradient
Specific Conductance Indicator Parameter	µΩ/cm	590	MW-1	3/11/2013	956	Yes	Down gradient
		590	MW-1	3/19/2014	634	Yes	Down gradient
		590	MW-1	9/23/2014	633	Yes	Down gradient
		590	MW-1	3/17/2015	703	Yes	Down gradient
		590	MW-1	9/9/2015	921	Yes	Down gradient

Table F1-2 (Continued)
Exceedances of Site-Specific Indicator Parameters
Adams County Sanitary Landfill - Vertical Expansion Feasibility Report - Addendum No. 1
WDNR License No. 3150
Town of Strong's Prairie, Adams County, Wisconsin

Parameter Group	Unit	Approved Calculated PAL	Well ID	Sample Date	Result	Site Specific Indicator Parameter PAL Exceedance	Hydraulic Location
Specific Conductance Indicator Parameter	$\mu\Omega/\text{cm}$	590	MW-1	3/16/2016	1073	Yes	Down gradient
		590	MW-1	3/9/2017	702	Yes	Down gradient
		590	MW-1	9/6/2017	629	Yes	Down gradient
		590	MW-1	3/7/2018	630	Yes	Down gradient
		590	MW-1	9/6/2018	602	Yes	Down gradient
		590	MW-1	3/5/2019	679	Yes	Down gradient
		590	MW-1	9/4/2019	645	Yes	Down gradient
		590	MW-1	3/4/2020	674	Yes	Down gradient
		590	MW-1	9/2/2020	699	Yes	Down gradient
		590	MW-1	3/2/2021	653	Yes	Down gradient
		590	MW-1	9/7/2021	650	Yes	Down gradient
		590	MW-1	3/1/2022	631	Yes	Down gradient
		590	MW-1	9/6/2022	642	Yes	Down gradient
		590	MW-1	3/1/2023	645	Yes	Down gradient
		590	MW-1	9/6/2023	673	Yes	Down gradient
		590	MW-1	3/4/2024	617	Yes	Down gradient
		590	MW-1	9/3/2024	645	Yes	Down gradient
		610	MW-1P	9/2/2020	680	Yes	Down gradient
		480	MW-2	3/20/2014	485	Yes	Down gradient
		450	MW-3P	3/20/2014	465	Yes	Within
		470	MW-6	3/11/2013	712	Yes	Up gradient
		580	MW-6P	9/6/2017	586	Yes	Up gradient
		590	MW-16	3/11/2013	866	Yes	Up gradient
		590	MW-16	3/19/2014	652	Yes	Up gradient
		590	MW-16	9/23/2014	696	Yes	Up gradient
		650	MW-18	3/11/2013	959	Yes	Down gradient
		650	MW-18	9/23/2014	1012	Yes	Down gradient
		650	MW-18	3/17/2015	707	Yes	Down gradient
		650	MW-18	9/9/2015	1470	Yes	Down gradient
		650	MW-18	3/16/2016	1370	Yes	Down gradient
		650	MW-18	9/19/2016	724	Yes	Down gradient
		650	MW-18	3/9/2017	666	Yes	Down gradient
		650	MW-18	9/6/2017	956	Yes	Down gradient
		650	MW-18	3/7/2018	957	Yes	Down gradient
		650	MW-18	9/6/2018	719	Yes	Down gradient
		650	MW-18	3/5/2019	740	Yes	Down gradient
		650	MW-18	3/4/2020	712	Yes	Down gradient
		650	MW-18	3/2/2021	678	Yes	Down gradient
		650	MW-18	3/1/2022	680	Yes	Down gradient
		650	MW-18	9/6/2022	678	Yes	Down gradient
		650	MW-18	3/1/2023	708	Yes	Down gradient
		650	MW-18	9/6/2023	719	Yes	Down gradient
		650	MW-18	3/4/2024	676	Yes	Down gradient
		650	MW-18	9/3/2024	848	Yes	Down gradient
		650	MW-18	3/18/2025	744	Yes	Down gradient
		590	MW-19	3/11/2013	796	Yes	Down gradient
		590	MW-19	9/23/2014	597	Yes	Down gradient
		590	MW-19	3/16/2016	603	Yes	Down gradient
		590	MW-19	9/19/2016	933	Yes	Down gradient
		590	MW-19	3/9/2017	1275	Yes	Down gradient
		590	MW-19	9/6/2017	980	Yes	Down gradient
		590	MW-19	3/7/2018	1115	Yes	Down gradient
		590	MW-19	9/6/2018	911	Yes	Down gradient
		590	MW-19	3/5/2019	875	Yes	Down gradient
		590	MW-19	9/4/2019	767	Yes	Down gradient
		590	MW-19	3/4/2020	879	Yes	Down gradient
		590	MW-19	9/2/2020	793	Yes	Down gradient
		590	MW-19	3/2/2021	945	Yes	Down gradient
		590	MW-19	9/7/2021	927	Yes	Down gradient

Table F1-2 (Continued)
Exceedances of Site-Specific Indicator Parameters
Adams County Sanitary Landfill - Vertical Expansion Feasibility Report - Addendum No. 1
WDNR License No. 3150
Town of Strong's Prairie, Adams County, Wisconsin

Parameter Group	Unit	Approved Calculated PAL	Well ID	Sample Date	Result	Site Specific Indicator Parameter PAL Exceedance	Hydraulic Location
Specific Conductance Indicator Parameter	$\mu\Omega/\text{cm}$	590	MW-19	3/1/2022	1015	Yes	Down gradient
		590	MW-19	9/6/2022	1122	Yes	Down gradient
		590	MW-19	3/1/2023	1131	Yes	Down gradient
		590	MW-19	9/6/2023	959	Yes	Down gradient
		590	MW-19	3/4/2024	920	Yes	Down gradient
		590	MW-19	9/3/2024	815	Yes	Down gradient
		590	MW-19	3/18/2025	723	Yes	Down gradient
		460	MW-19P	3/11/2013	460	Yes	Down gradient
		590	MW-20	3/7/2012	817	Yes	Side gradient
		590	MW-20	9/12/2012	703	Yes	Side gradient
		590	MW-20	3/11/2013	1696	Yes	Side gradient
		590	MW-20	9/17/2013	834	Yes	Side gradient
		590	MW-20	3/19/2014	974	Yes	Side gradient
		590	MW-20	9/23/2014	1153	Yes	Side gradient
		590	MW-20	3/17/2015	674	Yes	Side gradient
		590	MW-20	9/9/2015	1084	Yes	Side gradient
		590	MW-20	3/16/2016	1044	Yes	Side gradient
		590	MW-20	9/19/2016	1012	Yes	Side gradient
		590	MW-20	3/9/2017	1009	Yes	Side gradient
		590	MW-20	9/6/2017	1014	Yes	Side gradient
		590	MW-20	3/7/2018	1005	Yes	Side gradient
		590	MW-20	9/5/2018	696	Yes	Side gradient
		590	MW-20	3/5/2019	910	Yes	Side gradient
		590	MW-20	9/4/2019	915	Yes	Side gradient
		590	MW-20	3/4/2020	876	Yes	Side gradient
		590	MW-20	9/2/2020	862	Yes	Side gradient
		590	MW-20	3/2/2021	833	Yes	Side gradient
		590	MW-20	9/7/2021	799	Yes	Side gradient
		590	MW-20	3/1/2022	760	Yes	Side gradient
		590	MW-20	9/6/2022	735	Yes	Side gradient
		590	MW-20	3/1/2023	693	Yes	Side gradient
		590	MW-20	9/6/2023	736	Yes	Side gradient
		590	MW-20	3/4/2024	665	Yes	Side gradient
		590	MW-20	9/3/2024	748	Yes	Side gradient
		590	MW-21	3/7/2012	806	Yes	Side gradient
		590	MW-21	9/12/2012	724	Yes	Side gradient
		590	MW-21	3/11/2013	1684	Yes	Side gradient
		590	MW-21	9/17/2013	845	Yes	Side gradient
		590	MW-21	3/19/2014	1116	Yes	Side gradient
		590	MW-21	9/23/2014	1084	Yes	Side gradient
		590	MW-21	3/17/2015	656	Yes	Side gradient
		590	MW-21	9/9/2015	1103	Yes	Side gradient
		590	MW-21	3/16/2016	1076	Yes	Side gradient
		590	MW-21	9/19/2016	1048	Yes	Side gradient
		590	MW-21	3/9/2017	1069	Yes	Side gradient
		590	MW-21	9/6/2017	1055	Yes	Side gradient
		590	MW-21	3/7/2018	951	Yes	Side gradient
		590	MW-21	9/5/2018	937	Yes	Side gradient
		590	MW-21	3/5/2019	861	Yes	Side gradient
		590	MW-21	9/4/2019	833	Yes	Side gradient
		590	MW-21	3/4/2020	813	Yes	Side gradient
		590	MW-21	9/2/2020	804	Yes	Side gradient
		590	MW-21	9/7/2021	669	Yes	Side gradient
		590	MW-21	3/1/2022	644	Yes	Side gradient
		590	MW-21	9/6/2022	601	Yes	Side gradient
		590	MW-22	3/7/2012	1416	Yes	Down gradient
		590	MW-22	9/12/2012	1183	Yes	Down gradient
		590	MW-22	3/11/2013	1998	Yes	Down gradient
		590	MW-22	9/17/2013	895	Yes	Down gradient

Table F1-2 (Continued)
Exceedances of Site-Specific Indicator Parameters
Adams County Sanitary Landfill - Vertical Expansion Feasibility Report - Addendum No. 1
WDNR License No. 3150
Town of Strong's Prairie, Adams County, Wisconsin

Parameter Group	Unit	Approved Calculated PAL	Well ID	Sample Date	Result	Site Specific Indicator Parameter PAL Exceedance	Hydraulic Location
Specific Conductance Indicator Parameter	$\mu\Omega/\text{cm}$	590	MW-22	3/19/2014	1367	Yes	Down gradient
		590	MW-22	9/23/2014	1144	Yes	Down gradient
		590	MW-22	3/17/2015	823	Yes	Down gradient
		590	MW-22	9/9/2015	1750	Yes	Down gradient
		590	MW-22	3/16/2016	1791	Yes	Down gradient
		590	MW-22	9/19/2016	1151	Yes	Down gradient
		590	MW-22	3/9/2017	1098	Yes	Down gradient
		590	MW-22	9/6/2017	1348	Yes	Down gradient
		590	MW-22	3/7/2018	1468	Yes	Down gradient
		590	MW-22	9/5/2018	1341	Yes	Down gradient
		590	MW-22	3/5/2019	1450	Yes	Down gradient
		590	MW-22	9/4/2019	1354	Yes	Down gradient
		590	MW-22	3/4/2020	1640	Yes	Down gradient
		590	MW-22	9/2/2020	1770	Yes	Down gradient
		590	MW-22	3/2/2021	1660	Yes	Down gradient
		590	MW-22	9/7/2021	1860	Yes	Down gradient
		590	MW-22	3/1/2022	1870	Yes	Down gradient
		590	MW-22	9/6/2022	1630	Yes	Down gradient
		590	MW-22	3/1/2023	1990	Yes	Down gradient
		590	MW-22	9/6/2023	1680	Yes	Down gradient
		590	MW-22	3/4/2024	1830	Yes	Down gradient
		590	MW-22	9/3/2024	1316	Yes	Down gradient
		590	MW-22	3/17/2025	873	Yes	Down gradient
Hardness Indicator Parameter	$\mu\text{g/L}$	310	MW-1	9/12/2012	312	Yes	Down gradient
		310	MW-1	3/17/2015	381	Yes	Down gradient
		310	MW-1	9/9/2015	367	Yes	Down gradient
		310	MW-1	3/16/2016	419	Yes	Down gradient
		310	MW-1	9/19/2016	375	Yes	Down gradient
		310	MW-1	9/2/2020	334	Yes	Down gradient
		310	MW-1	3/2/2021	314	Yes	Down gradient
		310	MW-1	9/7/2021	317	Yes	Down gradient
		310	MW-1	3/1/2022	316	Yes	Down gradient
		310	MW-1	9/6/2022	331	Yes	Down gradient
		310	MW-1	9/6/2023	348	Yes	Down gradient
		310	MW-1	3/4/2024	329	Yes	Down gradient
		310	MW-1	9/3/2024	331	Yes	Down gradient
		310	MW-1	3/17/2025	350	Yes	Down gradient
		360	MW-16	9/23/2014	363	Yes	Up gradient
		420	MW-18	3/17/2015	633	Yes	Down gradient
		420	MW-18	9/9/2015	591	Yes	Down gradient
		420	MW-18	3/16/2016	467	Yes	Down gradient
		420	MW-18	9/3/2024	434	Yes	Down gradient
		420	MW-18	3/18/2025	456	Yes	Down gradient
		340	MW-19	3/17/2015	351	Yes	Down gradient
		340	MW-19	9/19/2016	474	Yes	Down gradient
		340	MW-19	3/9/2017	465	Yes	Down gradient
		340	MW-19	9/6/2017	479	Yes	Down gradient
		340	MW-19	3/7/2018	543	Yes	Down gradient
		340	MW-19	9/6/2018	406	Yes	Down gradient
		340	MW-19	3/5/2019	440	Yes	Down gradient
		340	MW-19	9/4/2019	356	Yes	Down gradient
		340	MW-19	3/4/2020	424	Yes	Down gradient
		340	MW-19	9/2/2020	382	Yes	Down gradient
		340	MW-19	3/2/2021	427	Yes	Down gradient
		340	MW-19	9/7/2021	397	Yes	Down gradient
		340	MW-19	3/1/2022	474	Yes	Down gradient
		340	MW-19	9/6/2022	524	Yes	Down gradient
		340	MW-19	3/1/2023	466	Yes	Down gradient
		340	MW-19	9/6/2023	446	Yes	Down gradient

Table F1-2 (Continued)
Exceedances of Site-Specific Indicator Parameters
Adams County Sanitary Landfill - Vertical Expansion Feasibility Report - Addendum No. 1
WDNR License No. 3150
Town of Strong's Prairie, Adams County, Wisconsin

Parameter Group	Unit	Approved Calculated PAL	Well ID	Sample Date	Result	Site Specific Indicator Parameter PAL Exceedance	Hydraulic Location
Hardness Indicator Parameter	µg/L	340	MW-19	3/4/2024	434	Yes	Down gradient
		340	MW-19	9/3/2024	405	Yes	Down gradient
		340	MW-19	3/18/2025	408	Yes	Down gradient
		390	MW-20	3/7/2012	632	Yes	Side gradient
		390	MW-20	9/12/2012	651	Yes	Side gradient
		390	MW-20	3/11/2013	615	Yes	Side gradient
		390	MW-20	9/17/2013	589	Yes	Side gradient
		390	MW-20	3/19/2014	558	Yes	Side gradient
		390	MW-20	9/23/2014	631	Yes	Side gradient
		390	MW-20	3/17/2015	741	Yes	Side gradient
		390	MW-20	9/9/2015	588	Yes	Side gradient
		390	MW-20	3/16/2016	517	Yes	Side gradient
		390	MW-20	9/19/2016	571	Yes	Side gradient
		390	MW-20	3/9/2017	456	Yes	Side gradient
		390	MW-20	9/6/2017	570	Yes	Side gradient
		390	MW-20	3/7/2018	602	Yes	Side gradient
		390	MW-20	9/5/2018	515	Yes	Side gradient
		390	MW-20	3/5/2019	533	Yes	Side gradient
		390	MW-20	9/4/2019	472	Yes	Side gradient
		390	MW-20	3/4/2020	480	Yes	Side gradient
		390	MW-20	9/2/2020	485	Yes	Side gradient
		390	MW-20	3/2/2021	459	Yes	Side gradient
		390	MW-20	9/7/2021	432	Yes	Side gradient
		390	MW-20	3/1/2022	435	Yes	Side gradient
		390	MW-20	9/6/2022	424	Yes	Side gradient
		390	MW-20	9/6/2023	419	Yes	Side gradient
		390	MW-20	3/4/2024	400	Yes	Side gradient
		390	MW-20	9/3/2024	431	Yes	Side gradient
		390	MW-20	3/17/2025	390	Yes	Side gradient
		390	MW-21	3/7/2012	640	Yes	Side gradient
		390	MW-21	9/12/2012	651	Yes	Side gradient
		390	MW-21	3/11/2013	550	Yes	Side gradient
		390	MW-21	9/17/2013	616	Yes	Side gradient
		390	MW-21	3/19/2014	544	Yes	Side gradient
		390	MW-21	9/23/2014	606	Yes	Side gradient
		390	MW-21	3/17/2015	699	Yes	Side gradient
		390	MW-21	9/9/2015	592	Yes	Side gradient
		390	MW-21	3/16/2016	525	Yes	Side gradient
		390	MW-21	9/19/2016	586	Yes	Side gradient
		390	MW-21	3/9/2017	477	Yes	Side gradient
		390	MW-21	9/6/2017	588	Yes	Side gradient
		390	MW-21	3/7/2018	559	Yes	Side gradient
		390	MW-21	9/5/2018	497	Yes	Side gradient
		390	MW-21	3/5/2019	508	Yes	Side gradient
		390	MW-21	9/4/2019	427	Yes	Side gradient
		390	MW-21	3/4/2020	436	Yes	Side gradient
		390	MW-21	9/2/2020	441	Yes	Side gradient
		390	MW-21	3/2/2021	398	Yes	Side gradient
		390	MW-22	3/7/2012	1120	Yes	Down gradient
		390	MW-22	9/12/2012	1210	Yes	Down gradient
		390	MW-22	3/11/2013	2010	Yes	Down gradient
		390	MW-22	9/17/2013	582	Yes	Down gradient
		390	MW-22	3/19/2014	941	Yes	Down gradient
		390	MW-22	9/23/2014	645	Yes	Down gradient
		390	MW-22	3/17/2015	1020	Yes	Down gradient
		390	MW-22	9/9/2015	965	Yes	Down gradient
		390	MW-22	3/16/2016	915	Yes	Down gradient
		390	MW-22	9/19/2016	650	Yes	Down gradient
		390	MW-22	3/9/2017	488	Yes	Down gradient

Table F1-2 (Continued)
Exceedances of Site-Specific Indicator Parameters
Adams County Sanitary Landfill - Vertical Expansion Feasibility Report - Addendum No. 1
WDNR License No. 3150
Town of Strong's Prairie, Adams County, Wisconsin

Parameter Group	Unit	Approved Calculated PAL	Well ID	Sample Date	Result	Site Specific Indicator Parameter PAL Exceedance	Hydraulic Location
Hardness Indicator Parameter	µg/L	390	MW-22	9/6/2017	762	Yes	Down gradient
		390	MW-22	3/7/2018	923	Yes	Down gradient
		390	MW-22	9/5/2018	740	Yes	Down gradient
		390	MW-22	3/5/2019	893	Yes	Down gradient
		390	MW-22	9/4/2019	724	Yes	Down gradient
		390	MW-22	3/4/2020	939	Yes	Down gradient
		390	MW-22	9/2/2020	1070	Yes	Down gradient
		390	MW-22	3/2/2021	988	Yes	Down gradient
		390	MW-22	9/7/2021	1130	Yes	Down gradient
		390	MW-22	3/1/2022	1220	Yes	Down gradient
		390	MW-22	9/6/2022	1050	Yes	Down gradient
		390	MW-22	3/1/2023	1180	Yes	Down gradient
		390	MW-22	9/6/2023	1030	Yes	Down gradient
		390	MW-22	3/4/2024	1180	Yes	Down gradient
		390	MW-22	9/3/2024	786	Yes	Down gradient
		390	MW-22	3/17/2025	1360	Yes	Down gradient

Notes:

Created by: KC Checked by: LS

1. Data Source: Wisconsin Department of Natural Resources Groundwater Environmental Monitoring System (WDNR GEMS) Database (March 2012-March 2025).
2. Approved Calculated Preventive Action Limits (PALs) for the groundwater monitoring wells at Adams County Sanitary Landfill are from the February 14, 2019 Plan of Operation Approval Letter.
3. The hydraulic location listed for each well is relative to the Adams County Sanitary Landfill and Closed Demolition Landfill.
4. This summary table was created as part of the 2025 Feasibility Report Addendum No. 1 for the proposed Vertical Expansion and replaces the individual indicator parameter exceedances summary tables provided in Section 7.3.1 of the 2023 Feasibility Report text.