verdantas

To: All Plan Holders of Record

From: Verdantas

For the Owner

Re: Addendum No. 2

Anaerobic Digester Cleaning, Inspection, Repair, and Valve Replacement

City of Wheeling

Date: August 4, 2025

This Addendum forms a part of the contract documents and modifies the original bidding documents dated July 2025 and all previous addenda, if any. Acknowledge receipt of this addendum in the space provided in the bid forms. Failure to do so may subject the bidder to disqualification.

Sealed bids will be received by the City of Wheeling, WV at the office of the City Manager, 1500 Chapline Street, Wheeling, WV 26003 until 2:30 p.m. on August 7th, 2025 and will be opened and read immediately thereafter.

SPECIFICATIONS

SPEC SECTION 467345 - ANAEROBIC SLUDGE DIGESTERS: CLEANING, INSPECTION AND REPAIR:

- **CLARIFICATION** SECTION 1.02.C.6: Both contractors shall provide a representative who can respond appropriately and in a timely manner to any circumstances that may arise while WPCD staff bring the two digesters back online.
- ADD LANGUAGE to SECTION 1.07.A: Owner personnel shall be responsible for shutting down and deenergizing plant equipment. An onsite safety meeting regarding lock-out tagout procedures is required.
- CLARIFICATION SECTION 1.04.A: A 1 ½ " plant effluent connection exists on the south side of the plant near the solids loading area for plant water. Plant effluent flow is estimated to be 7 MGD. Available flow from the 1 ½" connection is estimated to be 100 GPM. Attached is the permitted plant effluent water quality Discharge Limitations and Monitoring Requirements.

DB/LS:mep

Enclosures

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A.001 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS: Permit Limits

During the period beginning 6/1/2018 and lasting through midnight 4/26/2023 the permittee is authorized to discharge from Outlet Number(s) 001 (Sanitary)

Such discharges shall be limited and monitored by the	ited and mon	itored by the	permittee as specified below:	ecified be	low:			Monitorina R	Monitorina Requirements
<u>Effluent</u> Characteristic	Š	4	Dischit	Discharge Limitations	ions Other Hells		<u> </u>	Measurement	Sample
50050 - (Flow,in Conduit or thru plant)	S/N	NA NA	S N	Α/Z	Rpt Only	Rpt Only	mgd bgm	Continuous	measured
(Year Round) (ML-1) (RF-A)					Avg. Monthly	Max. Daily			
00310 - (BOD, 5-Day 20 Deg.C)	Rpt Only	Rpt Only	Lbs/Day	N N	Rpt Only	Rpt Only	l/gm	4/Week	24 hr Composite
(Year Round) (ML-B) (RF-A)	Avg. Monthly	Max. Dally			Avg. Monthly	Max Dally			
00530 - (Total Suspended Solids)	Rpt Only	Rpt Only	Lbs/Day	A/A	Rpt Only	Rpt Only	mg/l	4/Week	24 hr Composite
(Year Round) (ML-A) (RF-A)	Avg. Monthly	Max. Daily			Avg. Monthly	Max. Daily	•		
74055 - (Coliform, Fecal)	N/A	N/A	N/A	N/A	200	400	Cnts/100ml	4/Week	Grab
(Year Round) (ML-A) (RF-A)					Mon. Geo. Mean	Max. Dally			
00400 - (pH)	N/A	Ą	N/A	ဖ	Y N	ஏ	S.U.	5days/week	Grab
(Year Round) (ML-A) (RF-A)				Inst. Min.		Inst. Max.			
00610 - (Ammonia Nitrogen)	Rpt Only	Rpt Only	Lbs/Day	A/N	15	8	mg/l	1/week	24 hr Composite
(Year Round) (ML-A) (RF-A)	Avg. Monthly	Max. Daily			Avg. Monthly	Max. Daily			
Interim: 6/1/2018 to 5/31/2020								- v.	
00610 - (Ammonia Nitrogen)	Rpt Only	Rpt Only	Lbs/Day	Α/N	4.7	9.4	mg/l	1/week	24 hr Composite
(Year Round) (ML-A) (RF-A) Final: 05/01/2020 to 4/26/2023	Avg. Monthly	Max. Daily			Avg. Monthly	Max. Daily			
00600 - (Nitrogen, Total (as N))	Rpt Only	Rpt Only	Lbs/Day	N/A	Rpt Only	Rpt Only	l/gm	1/year	24 hr Composite
(Year Round) (ML-A) (RF-D)	Avg. Monthly	Max. Daily		1	Avg. Monthly	Max. Daily			

Effluent BOD5 sampling shall be collected at a location immediately preceding disinfection. All other samples shall be collected at the point of the total combined discharge from Outlet 001. Refer to Section C.20 for additional requirements. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

Page No.: 5 of 33 Permit No.: WV0023230

A.001 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS: Permit Limits

During the period beginning 6/1/2018 and lasting through midnight 4/26/2023 the permittee is authorized to discharge from Outlet Number(s) 001 (Sanitary)

Such discharges shall be limited and monitored by the	ted and mon		permittee as specified below:	ecified bel	ow:			Monitoring Requirements	equirements
Effluent			Discha	Discharge Limitations	Suo			Measurement	Sample
<u>Characteristic</u>	Qua	Quantity	Units		Other Units		Units	Frequency	TYDE
00665 - (Phosphorus, Total)	Rpt Only	Rpt Only	Lbs/Day	A/N	Rpt Only	Rpt Only	mg/l	1/year	24 hr Composite
(Year Round) (ML-A) (RF-D)	Avg. Monthly	Max. Daily			Avg. Monthly	Max. Daily			
50060 - (Chlorine, Total Residual)	A/N	N/A	N/A	N/A	0.028	0.057	mg/l	4/Week	Grab
(Year Round) (ML-A) (RF-A)					Avg. Monthly	Max. Daily			
01119 - (Copper, Total Recoverable)	N/A	N/A	N/A	A/N	0.023	0.042	mg/l	1/month	24 hr Composite
(Year Round) (ML-A) (RF-A)					Avg. Monthly	Max. Daily			
01114 - (Lead, Total Recoverable)	Y/N	N/A	N/A	N/A	Rpt Only	Rpt Only	mg/l	1/year	24 hr Composite
(Year Round) (ML-A) (RF-D)					Avg. Monthly	Max. Daily			
01094 - (Zinc, Total Recoverable)	ΑN	A/A	N/A	¥ X	Rpt Only	Rpt Only	mg/l	1/year	24 hr Composite
(Year Round) (ML-A) (RF-D)					Avg. Monthly	Max. Daily			
01002 - (Arsenic, Total (as As))	W.A	N/A	N/A	A/A	Rpt Only	Rpt Only	//gm	1/quarter	24 hr Composite
(Year Round) (ML-6) (RF-B)	•				Avg. Monthly	Max. Daily			
01113 - (Cadmium, Total Recoverable)	A/A	N/A	N/A	N/A	Rpt Only	Rpt Only	mg/l	1/year	24 hr Composite
(Year Round) (ML-A) (RF-D)					Avg. Monthly	Max. Daily			
01032 - (Chromium, Hexavalent)	N/A	N/A	N/A	A'A	Rpt Only	Rpt Only	mg/l	1/year	24 hr Composite
(Year Round) (ML-A) (RF-D)					Avg. Monthly	Max. Daily			

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Effluent BOD5 sampling shall be collected at a location immediately preceding disinfection. All other samples shall be collected at the point of the total combined discharge from Outlet 001. Refer to Section C.20 for additional requirements.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

Page No.: 6 of 33
Permit No.: WV0023230

A.001 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS: Permit Limits

During the period beginning 6/1/2018 and lasting through midnight 4/26/2023 the permittee is authorized to discharge from Outlet Number(s) 001 (Sanitary)

Frequency	1 Inite	Other Units	linite	Oriantity	acteristic
Measurement		ge Limitations	Dischar		fluent
Monitoring Require		cified below:	e permittee as spe	l and monitored by the	Such discharges shall be limited and monitored by the permittee as specified below:

ements

Effluent			Discl	Discharge Limitations	suo			Measurement	Sample
<u>Characteristic</u>	σ	Quantity	Units		Other Units		Units	Frequency	Type
00718 - (Cyanide, Weak Acid Dissocial	A/N	N/A	A/A	N/A	Rpt Only	Rpt Only	mg/l	1/year	Grab
(Year Round) (ML-A) (RF-D)					Avg. Monthly	Max. Daily			
71900 - (Mercury, Total (as Hg))	A/A	N/A	N/A	A/N	0.00	0.02	ng/l	1/month	Grab
(Year Round) (ML-A) (RF-A)					Avg. Monthly	Max. Daily			
01074 - (Nickel, Total Recoverable)	A/A	NA	N/A	N/A	Rpt Only	Rpt Only	l/gm	1/year	24 hr Composite
(Year Round) (ML-A) (RF-D)					Avg. Monthly	Max. Daily			
01079 - (Silver, Total Recoverable)	A/A	NA	N/A	N/A	Rpt Only	Rpt Only	mg/l	1/year	24 hr Composite
(Year Round) (ML-A) (RF-D)					Avg. Monthly	Max. Daily			
61425 - (Acute Tox - Ceriodaphnia Dut	A/N	N/A	N/A	A/N	Rpt Only	Rpt Only	TUa	1/year	24 hr Composite
(Year Round) (ML-A) (RF-D)					Avg. Monthly	Max. Daily			
61427 - (Acute Toxicity - Pimephales)	A/A	NA	N/A	N/A	Rpt Only	Rpt Only	TUa	1/year	24 hr Composite
(Year Round) (ML-A) (RF-D)					Avg. Monthly	Max. Daily			

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Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Effluent BODS sampling shall be collected at a location immediately preceding disinfection. All other samples shall be collected at the point of the total combined discharge from Outlet 001. Refer to Section C.20 for additional requirements.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

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A.101 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS: Permit Limits

During the period beginning 6/1/2018 and lasting through midnight 4/26/2023 the permittee is authorized to discharge from Outlet Number(s) 101 (Sanitary)

Such discharges shall be limited and monitored by the	ed and moni	tored by the p	ermittee as	ne permittee as specified below:	:M:			Monitoring Requirements	equirements
Effluent		~		Discharge Limitations	Sul			Measurement	Sample
Characteristic	Quantity	ntity	Units		Other Units		Units	Frequency	Type
50050 - (Flow,in Conduit or thru plant)	A/N	N/A	N/A	ΝΆ	Rpt Only	Rpt Only	pgm	Continuous	measured
(Teal Roulid) (ML-b) (RF-A)					AVG. MORURIY	Max. Daliy			
00310 - (BOD, 5-Day 20 Deg.C)	2502	3753	Lbs/Day	N/A	93	45	l/gm	4/Week	24 hr Composite
(Year Round) (ML-B) (RF-A)	Avg. Monthly	7 Day Avg			Avg. Monthly	7 Day Avg			
00530 - (Total Suspended Solids)	2502	3753	Lbs/Day	N/A	30	45	l/gm	4/Week	24 hr Composite
(Year Round) (ML-A) (RF-A)	Avg. Monthly	7 Day Avg			Avg. Monthly	7 Day Avg			
51012 - (BOD,5-day % Rem,dry weath	N/A	N/A	Z/N	NA	N/A	88	Percent	1/week	Calculated
(Year Round) (ML-K) (RF-A)						Month. Avg. Min.			
51013 - (BOD,5-day %Rem,wet weath	N/A	A/A	₹ Z	ΝΆ	N/A	Rpt Only	Percent	1/week	Calculated
(Year Round) (ML-K) (RF-A)						Month. Avg. Min.			
51014 - (Solids, Susp.% Rem, dry weath	N/A	N/A	N/A	A	N/A	82	Percent	1/week	Calculated
(Year Round) (ML-K) (RF-A)						Month. Avg. Min.			
51015 - (Solids, Susp.% Rem, wet weat	A/N	N/A	N/A	K/N	ΑΝ	Rpt Only	Percent	1/week	Calculated
(Year Round) (ML-K) (RF-A)						Month. Avg. Min.			
00400 - (pH)	N/A	N/A	A/N	6	N/A	တ	S.U.	5days/week	Grab
(Year Round) (ML-B) (RF-A)				Inst. Min.		Inst. Max.			

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Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Effluent samples shall be collected at the discharge from the secondary treatment train of the POTW prior to disinfection. Refer to Section C.20 for additional requirements.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

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A.S01 SEWAGE SLUDGE LIMITATIONS AND MONITORING REQUIREMENTS: Permit Limits

During the period beginning 6/1/2018 and lasting through midnight 4/26/2023 the permittee is authorized to dispose sludge in accordance with the following from Outlet Number S01 (Sludge)

uirements Sample Iype	Grab	1 Week Comp	1 Week Comp	1 Week Comp	1 Week Comp	1 Week Comp	1 Week Comp	1 Week Comp
Monitoring Requirements Measurement Frequency Typ	1/quarter	1/quarter	1/quarter	1/quarter	1/quarter	1/quarter	1/quarter	1/quarter
Units	s.u.	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Rpt Only Maximum	Rpt Only Maximum	Rpt Only Maximum	Rpt Only Maximum	Rpt Only Maximum	Rpt Only Maximum	Rpt Only Maximum	Rpt Only Maximum
Other Units	N/A	N/A	N/A	N/A	N/A	N/A	A/N	N/A
Limitations	Rpt Only Minimum	Ψ/N	N/A	N/A	N/A	Y/N	N/A	N/A
Units	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Quantity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
O	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A
<u>Effluent</u> <u>Characteristic</u>	00400 - (pH) (Year Round) (ML-+) (RF-B)	61521 - (Arsenic, Sludge Tot. Dry Wt.) (Year Round) (ML-+) (RF-B)	78476 - (Cadmium,Sludge,Tot Dry Wt.) (Year Round) (ML-+) (RF-B)	78473 - (Chromium, Dry Wt.) (Year Round) (ML-+) (RF-B)	78475 - (Copper,Sludge,Tot,Dry Wt.) (Year Round) (ML-+) (RF-B)	78468 - (Lead, Dry. Wt.) (Year Round) (ML-+) (RF-B)	78471 - (Mercury, Dry Wt.) (Year Round) (ML-+) (RF-B)	78465 - (Molybdenum,Dry Wgt) (Year Round) (ML-+) (RF-B)

Sludge

A.S01 SEWAGE SLUDGE LIMITATIONS AND MONITORING REQUIREMENTS: Permit Limits

During the period beginning 6/1/2018 and lasting through midnight 4/26/2023 the permittee is authorized to dispose sludge in accordance with the following from Outlet Number S01 (Sludge)

.ΩΙ	<u>Sample</u> <u>Type</u>	1 Week Comp	1 Week Comp	1 Week Comp	1 Week Comp	1 Week Comp	1 Week Comp	1 Week Comp	1 Week Comp
Monitoring Requirements	T Name	1 Weel	1 Weel	1 Weel	1 Weel	1 Weel	1 Weel	1 Weel	1 Weel
Monitoring	Measurement Frequency	1/quarter	1/quarter	1/quarter	1/quarter	1/quarter	1/quarter	1/quarter	1/quarter
	Units	mg/kg	mg/kg	mg/kg	mg/kg	Percent	mg/kg	mg/kg	mg/kg
	3	Rpt Only n Maximum	Rpt Only n	Rpt Only n	Rpt Only n	Rpt Only P.	Rpt Only r	Rpt Only n	Rpt Only n
	t)	Rpt (Rpt (Rpt Maxi	Rpt (Rpt (Rpt Maxi	Rpt (
	Other Units	Ϋ́Z	N/A	N/A	N/A	Rpt Only Avg.	N/A	N/A	N/A
	Limitations	N/A	N/A	N/A	N/A	Rpt Only Minimum	N/A	N/A	N/A
	Units	Y.N	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	互	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Quantity	₹/Z	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		t.) B)	dge,Tot. Dry Wt. B)	-B)	I (as Ca)) B)	Sludge Percent) B)	udge Tot. Dry W B)	Sludge,Tot,Dry W B)	nonia Tot. DW)
	<u>Effluent</u> <u>Characteristic</u>	78469 - (Nickel, Dry Wt.) (Year Round) (ML-+) (RF-B)	49031 - (Selenium,Sludge,Tot. Dry Wt. (Year Round) (ML-+) (RF-B)	78467 - (Zinc, Dry Wt.) (Year Round) (ML-+) (RF-B)	00916 - (Calcium, Total (as Ca)) (Year Round) (ML-+) (RF-B)	61553 - (Solids, Total Sludge Percent) (Year Round) (ML-+) (RF-B)	78472 - (Potassium, Sludge Tot. Dry W (Year Round) (ML-+) (RF-B)	78478 - (Phosphorus,Sludge,Tot,Dry M (Year Round) (ML-+) (RF-B)	82294 - (Nitrogen, Ammonia Tot. DW) (Year Round) (ML-+) (RF-B)

Sludge

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A.S01 SEWAGE SLUDGE LIMITATIONS AND MONITORING REQUIREMENTS: Permit Limits

During the period beginning 6/1/2018 and lasting through midnight 4/26/2023 the permittee is authorized to dispose sludge in accordance with the following from Outlet Number S01 (Sludge)

								Monitoring Requirements	quirements
<u>Effluent</u> <u>Characteristic</u>	Quantity	ıtity	Units	Limitations	Other Units		Units	Measurement Frequency	Sample Type
78470 - (Nitrogen, Sludge Tot. Dry Wt) (Year Round) (ML-+) (RF-B)	∀ Z	N/A	N/A	N/A	N/A	Rpt Only Maximum	mg/kg	1/quarter	1 Week Comp
51020 - (Organic Nitrogen) (Year Round) (ML-+) (RF-B)	N/A	V N	V	N/A	A N	Rpt Only Maximum	mg/kg	1/quarter	1 Week Comp
00927 - (Magnesium,Tot (as Mg)) (Year Round) (ML-+) (RF-B)	Ϋ́	V/A	N/A	A/A	A/N	Rpt Only Maximum	mg/kg	1/quarter	1 Week Comp