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CLERK OF THE BOARD
OF COUNTY COMMISSIONERS
MIAMI-DADE COUNTY, FLORIDA**

Memorandum



Date: February 6, 2024

To: Honorable Chairman Oliver G. Gilbert, III
and Members, Board of County Commissioners

Agenda Item No. 8(O)(2)

From: Daniella Levine Cava
Mayor

A handwritten signature in blue ink that reads "Daniella Levine Cava".

Resolution No. R-105-24

Subject: Resolution Approving the Certification of Financial Responsibility as Required by Rule 62-528.435(9) of the Florida Administrative Code for Underground Injection Wells and Related Monitoring Wells at the County's Central District Wastewater Treatment Plant

EXECUTIVE SUMMARY

The Certification of Financial Responsibility serves to affirm that the County possesses the necessary financial resources to execute the closure, plugging, and abandonment of eleven (11) Class I underground injection wells and five (5) associated monitoring wells located at the Central District Wastewater Treatment Plant (CDWWTP). This certification is a fundamental requirement in the Florida Department of Environmental Protection (FDEP) permit renewal application and approval process. Currently, the Miami-Dade Water and Sewer Department (WASD) is actively engaged in the renewal process for the Class I Municipal Construction and Testing Permit (FDEP Permit No. 0317749-006-012-UC/1M). As such, the approval of this item is critical to the County's Ocean Outfall Legislation Compliance Plan.

RECOMMENDATION

It is recommended that the Board of County Commissioners (Board) approve the attached resolution that approves the Certification of Financial Responsibility (attached hereto as Exhibit A) as required by Rule 62-528.435(9) of the Florida Administrative Code.

This Certification of Financial Responsibility confirms that the County has the financial resources necessary to close, plug and abandon eleven (11) Class I underground injection wells and five (5) associated monitoring wells at the Central District Wastewater Treatment Plant (CDWWTP). This certification is a requirement of the FDEP permit renewal application and approval process. WASD is currently in the process of renewing the Class I Municipal Construction and Testing Permit (FDEP Permit No. 0317749-006-012-UC/1M).

SCOPE

This item is of countywide significance as the County's wastewater system is interconnected. The injection and monitoring wells are located at the CDWWTP in District 7, which is represented by Commissioner Raquel A. Regalado.

FISCAL IMPACT/FUNDING SOURCE

There is no fiscal impact related to Board approval of this Certification of Financial Responsibility. There will only be a fiscal impact if a well is plugged and abandoned. In the event any of the wells need to be plugged and abandoned, the estimated cost for each well is itemized in Exhibit B. The funding source for plugging and abandoning a well is sewer operations and maintenance revenue. Importantly, the County does not anticipate the need to plug and abandon any wells and has not previously plugged and abandoned any wells, ensuring this item creates no fiscal impact beyond the Certification of Financial Responsibility.

TRACK RECORD/MONITOR

WASD's Deputy Director of the Capital Improvement Program, Marisela Aranguiz-Cueto, P.E., will ensure compliance with the requirements of the FDEP permit application.

DELEGATION OF AUTHORITY

The permit renewal application for injection wells three through nine (CDIW-3 through CDIW-9) at the CDWWTP requires an update to the Certificate of Financial Responsibility for the CDWWTP, which was adopted by this Board in July 2021, via Resolution R-775-21. Through this item, the County Mayor or County Mayor's designee will be delegated authority to execute and submit the updated Certification of Financial Responsibility to the FDEP on the County's behalf.

BACKGROUND

The CDWWTP is a 143 million gallon per day facility located at 3989 Rickenbacker Causeway in Virginia Key. The treated effluent is discharged via an ocean outfall located three miles off the coast. The State's Ocean Outfall Legislation mandates that all ocean outfalls statewide cease operations on December 31, 2025. To comply with this legislation, the County constructed its first two Class I industrial injection wells (CDIIW-1 and CDIIW-2) and one dual zone monitoring well (CDIDZMW-1) at the CDWWTP. These wells were completed in 2017 and placed online on March 16, 2020. Injection wells are used to divert flows from the existing ocean outfall in order to dispose of treatment plant process flows, wastewater effluent, and landfill leachate into an underground formation known as the Boulder Zone, which is approximately 3,000 feet below the ground surface. The monitoring wells are used to monitor groundwater quality above the injection zone.

On November 17, 2017, WASD submitted to FDEP a Class I underground injection well (UIC) construction permit application (Permit No. 0317749-006-012-UC/M). On September 24, 2018, WASD received the permit to construct an additional seven injection wells (CDIIW-3 through CDIIW-9) and four monitoring wells (CDMW-2 through CDMW-5) as part of the County's Ocean Outfall Legislation Compliance Plan. These seven additional injection wells will be used to further divert flows out of the ocean outfall and to dispose of wastewater effluent into the Boulder Zone. The four additional monitoring wells will be used to monitor groundwater quality above the injection zone.

On October 29, 2020, WASD submitted a permit application to FDEP to add two additional injection wells (CDIIW-10 and CDIW-11) as part of the Ocean Outfall Legislation

Compliance Plan. Permit No. 0317749-017-018-UC/1M for the two new injection wells was issued on July 8, 2022 and will increase capacity and nutrient diversion at the CDWWTP.

In accordance with Rule 62-528.435(9) of the Florida Administrative Code, the County must demonstrate it has the ability to maintain the financial responsibility and resources necessary to close, plug, and abandon the underground injection operations as a condition to the issuance of any injection well operation permit. The Certification of Financial Responsibility, attached as Exhibit A, confirms the County's ability to comply with Rule 62-528.435(9) of the Florida Administrative Code.



Jimmy Morales
Chief Operations Officer

Exhibit A

Certification of Financial Responsibility

Exhibit A

CERTIFICATION OF FINANCIAL RESPONSIBILITY

The County of Miami-Dade, a unit of local government of the State of Florida, hereby certifies that it has unconditionally obligated itself to have the financial resources necessary to close, plug, and abandon its Class I underground injection well(s) and related monitoring well(s), as required by Chapter 62-528, Florida Administrative Code. It is further understood that the cost estimate to conduct plugging and abandonment, established on May, 2023, shall be reviewed on an annual basis and this obligation shall incorporate accumulated inflation costs. An annual adjustment exceeding 10 percent in any one year shall require submission of an updated certification form.

Facility where the wells will be located and operated:

Facility Name: Central District Wastewater Treatment Plant

Facility Address: 3989 Rickenbacker Causeway, Miami, FL 33149

Facility Contact: Sandra Hernandez

Phone Number: 786-552-4213

Latitude/Longitude of Facility: 25°44'41.53" / 80°08'49.85"

DEP/EPA WACS Facility Number: 101237

Total Current Plugging and Abandonment Cost Estimate (all wells): \$5,605,862

List of facility injection and associated monitoring well(s) covered by this Certification:

Injection Well CDIIW-1

DEP/EPA WACS Well Number: 14048
Latitude/Longitude of Injection Well: 25°44'55.42" / 80°08'50.50"
Current Plugging and Abandonment Cost Estimate: \$480,782

Injection Well CDIIW-2

DEP/EPA WACS Well Number: 14049
Latitude/Longitude of Injection Well: 25°44'58.39" / 80°08'50.48"
Current Plugging and Abandonment Cost Estimate: \$479,338

Injection Well CDIW-3

DEP/EPA WACS Well Number: 14105
Latitude/Longitude of Injection Well: 25°45'01.7402" / 80°08'50.8209"
Current Plugging and Abandonment Cost Estimate: \$457,243

Injection Well CDIW-4

DEP/EPA WACS Well Number: 14106
Latitude/Longitude of Injection Well: 25°45'04.1424" / 80°08'50.7268"
Current Plugging and Abandonment Cost Estimate: \$457,063

Injection Well CDIW-5

EP/EPA WACS Well Number: 14107
Latitude/Longitude of Injection Well: 25°45'05.1281" / 80°08'52.8769"
Current Plugging and Abandonment Cost Estimate: \$457,063

Injection Well CDIW-6

EP/EPA WACS Well Number: 14108
Latitude/Longitude of Injection Well: 25°45'05.1699" / 80°09'06.3639"
Current Plugging and Abandonment Cost Estimate: \$457,063

Injection Well CDIW-7

EP/EPA WACS Well Number: 14109
Latitude/Longitude of Injection Well: 25°45'05.1517" / 80°09'09.0739"
Current Plugging and Abandonment Cost Estimate: \$457,063

Injection Well CDIW-8

EP/EPA WACS Well Number: 14110
Latitude/Longitude of Injection Well: 25°45'05.1974" / 80°09'13.0910"
Current Plugging and Abandonment Cost Estimate: \$457,063

Injection Well CDIW-9

EP/EPA WACS Well Number: 14111
Latitude/Longitude of Injection Well: 25°45'01.7815" / 80°09'13.0706"
Current Plugging and Abandonment Cost Estimate: \$457,063

Injection Well CDIW-10

EP/EPA WACS Well Number: 14177
Latitude/Longitude of Injection Well: 25°45'02.700" / 80°08'52.9152"
Current Plugging and Abandonment Cost Estimate: \$457,063

Injection Well CDIW-11

EP/EPA WACS Well Number: 14178
Latitude/Longitude of Injection Well: 25°45'00.4824" / 80°08'53.6208"
Current Plugging and Abandonment Cost Estimate: \$457,063

Monitoring Well CDIDZMW-1

DEP/EPA WACS Well Number: 29823A/B
Latitude/Longitude of Injection Well: 25°44'56.91" / 80°08' 50.49"
Current Plugging and Abandonment Cost Estimate: \$108,012

Monitoring Well CDMW-2

EP/EPA WACS Well Number: 30301A/B
Latitude/Longitude of Injection Well: 25°45'02.9262" / 80°08' 50.7729"
Current Plugging and Abandonment Cost Estimate: \$105,682

Monitoring Well CDMW-3

EP/EPA WACS Well Number: 30302A/B
Latitude/Longitude of Injection Well: 25°45'05.1488" / 80°08' 51.62"
Current Plugging and Abandonment Cost Estimate: \$106,171

Monitoring Well CDMW-4

EP/EPA WACS Well Number: 30303A/B
Latitude/Longitude of Injection Well: 25°45'05.1976" / 80°09' 07.6982"
Current Plugging and Abandonment Cost Estimate: \$105,907

Monitoring Well CDMW-5

EP/EPA WACS Well Number: 30304A/B

Latitude/Longitude of Injection Well: 25°45'03.5334" / 80°09' 13.0269"

Current Plugging and Abandonment Cost Estimate: \$106,221

It is hereby understood that the cancellation of this certification may not take place without the prior written consent of the Secretary of the Florida Department of Environmental Protection.

(Signature)

Daniella Levine Cava

(Print Name)

Mayor of Miami-Dade County

(Title)

(Date)

APPROVED AS TO FORM:

Office of the County Attorney

STATE OF FLORIDA
COUNTY OF MIAMI-DADE

Sworn to (or affirmed) and subscribed before me this _____ day of _____ 2023, by

_____ of the Miami-Dade County, who is personally known

to me,

(SEAL)

Exhibit B

Estimated Plugging and Abandonment Cost for Each Well

**WASD Central District WWTP Injection Well System
Plugging and Abandonment Opinion of Cost
May-2023**

	Unit Cost	Unit	Number of Units	May 2023 Total Cost
WASD Central District WWTP Injection Well CDIIW-1				
1 Mobilize the drill rig and kill the well	\$100,000	LS	1	\$100,000
2 Remove Wellhead	\$5,000	LS	1	\$5,000
3 Geophysical logging	\$15,000	LS	1	\$15,000
4 Install gravel in the injection zone open hole from 2,785 feet 3,240 feet bls	\$24	CF	1,403	\$33,680
5 Fill the 23.78-inch Inside Diameter (ID) FRP Casing and 10 feet of open hole to land surface with neat cement	\$24	CF	8,590	\$206,152
6 Complete below ground/add monument	\$10,000	LS	1	\$10,000
Plug and Abandonment of Injection Well Only Cost				\$369,832
10 Percent Contingency				\$36,983
20 Engineering Fees				\$73,966
TOTAL ESTIMATED COST FOR CDIIW-1				\$480,782
WASD Central District WWTP Injection Well CDIIW-2				
1 Mobilize the drill rig and kill the well	\$100,000	LS	1	\$100,000
2 Remove Wellhead	\$5,000	LS	1	\$5,000
3 Geophysical logging	\$15,000	LS	1	\$15,000
4 Install gravel in the injection zone open hole from 2,615 feet 3,225 feet bls	\$24	CF	1,881	\$45,154
5 Fill the 23.78-inch Inside Diameter (ID) FRP Casing and 10 feet of open hole to land surface with neat cement	\$24	CF	8,065	\$193,568
6 Complete below ground/add monument	\$10,000	LS	1	\$10,000
Plug and Abandonment of Injection Well Only Cost				\$368,722
10 Percent Contingency				\$36,872
20 Engineering Fees				\$73,744
TOTAL ESTIMATED COST FOR CDIIW-2				\$479,338
WASD Central District WWTP Injection Well CDIIW-3				
1 Mobilize the drill rig and kill the well	\$100,000	LS	1	\$100,000
2 Remove Wellhead	\$5,000	LS	1	\$5,000
3 Geophysical logging	\$15,000	LS	1	\$15,000
4 Install gravel in the injection zone open hole from 2,540 feet 3,202 feet bls	\$24	CF	1,910	\$45,841
5 Fill the 23.00-inch Inside Diameter (ID) steel casing and 10 feet of open hole to land surface with neat cement	\$24	CF	7,329	\$175,885
6 Complete below ground/add monument	\$10,000	LS	1	\$10,000
Plug and Abandonment of Injection Well Only Cost				\$351,725
10 Percent Contingency				\$35,173
20 Engineering Fees				\$70,345
TOTAL ESTIMATED COST FOR CDIIW-3				\$457,243

WASD Central District WWTP Injection Well CDIW-4					
1 Mobilize the drill rig and kill the well	\$100,000	LS	1	\$100,000	
2 Remove Wellhead	\$5,000	LS	1	\$5,000	
3 Geophysical logging	\$15,000	LS	1	\$15,000	
4 Install gravel in the injection zone open hole from 2,600 feet 3,200 feet bls	\$24	CF	1,731	\$41,548	
5 Fill the 23.00-inch Inside Diameter (ID) steel casing and 10 feet of open hole to land surface with neat cement	\$24	CF	7,502	\$180,039	
6 Complete below ground/add monument	\$10,000	LS	1	\$10,000	
Plug and Abandonment of Injection Well Only Cost				\$351,587	
10 Percent Contingency				\$35,159	
20 Engineering Fees				\$70,317	
TOTAL ESTIMATED COST FOR CDIW-4				\$457,063	
WASD Central District WWTP Injection Well CDIW-5					
1 Mobilize the drill rig and kill the well	\$100,000	LS	1	\$100,000	
2 Remove Wellhead	\$5,000	LS	1	\$5,000	
3 Geophysical logging	\$15,000	LS	1	\$15,000	
4 Install gravel in the injection zone open hole from 2,615 feet 3,200 feet bls	\$24	CF	1,688	\$40,509	
5 Fill the 23.00-inch Inside Diameter (ID) steel casing and 10 feet of open hole to land surface with neat cement	\$24	CF	7,545	\$181,078	
6 Complete below ground/add monument	\$10,000	LS	1	\$10,000	
Plug and Abandonment of Injection Well Only Cost				\$351,587	
10 Percent Contingency				\$35,159	
20 Engineering Fees				\$70,317	
TOTAL ESTIMATED COST FOR CDIW-5				\$457,063	
WASD Central District WWTP Injection Well CDIW-6					
1 Mobilize the drill rig and kill the well	\$100,000	LS	1	\$100,000	
2 Remove Wellhead	\$5,000	LS	1	\$5,000	
3 Geophysical logging	\$15,000	LS	1	\$15,000	
4 Install gravel in the injection zone open hole from 2,633 feet 3,200 feet bls	\$24	CF	1,636	\$39,262	
5 Fill the 23.00-inch Inside Diameter (ID) steel casing and 10 feet of open hole to land surface with neat cement	\$24	CF	7,597	\$182,325	
6 Complete below ground/add monument	\$10,000	LS	1	\$10,000	
Plug and Abandonment of Injection Well Only Cost				\$351,587	
10 Percent Contingency				\$35,159	
20 Engineering Fees				\$70,317	
TOTAL ESTIMATED COST FOR CDIW-6				\$457,063	

WASD Central District WWTP Injection Well CDIW-7					
1 Mobilize the drill rig and kill the well	\$100,000	LS	1	\$100,000	
2 Remove Wellhead	\$5,000	LS	1	\$5,000	
3 Geophysical logging	\$15,000	LS	1	\$15,000	
4 Install gravel in the injection zone open hole from 2,627 feet 3,200 feet bls	\$24	CF	1,653	\$39,678	
5 Fill the 23.00-inch Inside Diameter (ID) steel casing and 10 feet of open hole to land surface with neat cement	\$24	CF	7,580	\$181,909	
6 Complete below ground/add monument	\$10,000	LS	1	\$10,000	
Plug and Abandonment of Injection Well Only Cost				\$351,587	
10 Percent Contingency				\$35,159	
20 Engineering Fees				\$70,317	
TOTAL ESTIMATED COST FOR CDIW-7				\$457,063	
WASD Central District WWTP Injection Well CDIW-8					
1 Mobilize the drill rig and kill the well	\$100,000	LS	1	\$100,000	
2 Remove Wellhead	\$5,000	LS	1	\$5,000	
3 Geophysical logging	\$15,000	LS	1	\$15,000	
4 Install gravel in the injection zone open hole from 2,637 feet 3,200 feet bls	\$24	CF	1,624	\$38,985	
5 Fill the 23.00-inch Inside Diameter (ID) steel casing and 10 feet of open hole to land surface with neat cement	\$24	CF	7,608	\$182,602	
6 Complete below ground/add monument	\$10,000	LS	1	\$10,000	
Plug and Abandonment of Injection Well Only Cost				\$351,587	
10 Percent Contingency				\$35,159	
20 Engineering Fees				\$70,317	
TOTAL ESTIMATED COST FOR CDIW-8				\$457,063	
WASD Central District WWTP Injection Well CDIW-9					
1 Mobilize the drill rig and kill the well	\$100,000	LS	1	\$100,000	
2 Remove Wellhead	\$5,000	LS	1	\$5,000	
3 Geophysical logging	\$15,000	LS	1	\$15,000	
4 Install gravel in the injection zone open hole from 2,635 feet 3,200 feet bls	\$24	CF	1,630	\$39,124	
5 Fill the 23.00-inch Inside Diameter (ID) steel casing and 10 feet of open hole to land surface with neat cement	\$24	CF	7,603	\$182,463	
6 Complete below ground/add monument	\$10,000	LS	1	\$10,000	
Plug and Abandonment of Injection Well Only Cost				\$351,587	
10 Percent Contingency				\$35,159	
20 Engineering Fees				\$70,317	
TOTAL ESTIMATED COST FOR CDIW-9				\$457,063	

WASD Central District WWTP Injection Well CDIW-10					
1 Mobilize the drill rig and kill the well	\$100,000	LS	1	\$100,000	
2 Remove Wellhead	\$5,000	LS	1	\$5,000	
3 Geophysical logging	\$15,000	LS	1	\$15,000	
4 Install gravel in the injection zone open hole from 2,660 feet 3,200 feet bls	\$24	CF	1,558	\$37,393	
5 Fill the 23.00-inch Inside Diameter (ID) steel casing and 10 feet of open hole to land surface with neat cement	\$24	CF	7,675	\$184,194	
6 Complete below ground/add monument	\$10,000	LS	1	\$10,000	
Plug and Abandonment of Injection Well Only Cost				\$351,587	
10 Percent Contingency				\$35,159	
20 Engineering Fees				\$70,317	
TOTAL ESTIMATED COST FOR CDIW-10				\$457,063	

WASD Central District WWTP Injection Well CDIW-11					
1 Mobilize the drill rig and kill the well	\$100,000	LS	1	\$100,000	
2 Remove Wellhead	\$5,000	LS	1	\$5,000	
3 Geophysical logging	\$15,000	LS	1	\$15,000	
4 Install gravel in the injection zone open hole from 2,660 feet 3,200 feet bls	\$24	CF	1,558	\$37,393	
5 Fill the 23.00-inch Inside Diameter (ID) steel casing and 10 feet of open hole to land surface with neat cement	\$24	CF	7,675	\$184,194	
6 Complete below ground/add monument	\$10,000	LS	1	\$10,000	
Plug and Abandonment of Injection Well Only Cost				\$351,587	
10 Percent Contingency				\$35,159	
20 Engineering Fees				\$70,317	
TOTAL ESTIMATED COST FOR CDIW-11				\$457,063	

WASD Central District WWTP Monitoring Well CDIDZMW-1**Lower Monitoring Zone**

1 Mobilize the drill rig and kill the well	\$25,000	LS	1	\$25,000
2 Remove Wellhead	\$5,000	LS	1	\$5,000
3 Geophysical logging	\$10,000	LS	1	\$10,000
4 Install gravel in the Lower Zone open hole from 1,660 feet to 1,700 feet bls	\$24	CF	33	\$786
5 Fill the 6.625-inch Nominal Diameter FRP tubing and 10 feet of open hole to land surface with neat cement	\$24	CF	274	\$6,565

Upper Monitoring Zone

1 Install gravel in the annular space between the 16-inch casing and 6.625-inch Nominal Diameter FRP Tubing from 1,160 feet to 1,240 feet bls	\$24	CF	83	\$1,983
2 Fill annular space between the 16-inch OD casing and 6.625-inch Nominal Diameter FRP Tubing and 10 feet of open hole to land surface with neat cement	\$24	CF	1,198	\$28,753
3 Complete below ground/add monument	\$5,000	LS	1	\$5,000

Plug and Abandonment of Dual Zone Monitor Well Only Cost

\$83,086

10 Percent Contingency

\$8,309

20 Engineering Fees

\$16,617

TOTAL ESTIMATED COST FOR MONITORING WELL CDIDZMW-1**\$108,012****WASD Central District WWTP Monitoring Well CDMW-2****Lower Monitoring Zone**

1 Mobilize the drill rig and kill the well	\$25,000	LS	1	\$25,000
2 Remove Wellhead	\$5,000	LS	1	\$5,000
3 Geophysical logging	\$10,000	LS	1	\$10,000
4 Install gravel in the Lower Zone open hole from 1,530 feet to 1,580 feet bls	\$24	CF	41	\$982
5 Fill the 6.625-inch Nominal Diameter FRP tubing and 10 feet of open hole to land surface with neat cement	\$24	CF	253	\$6,063

Upper Monitoring Zone

1 Install gravel in the annular space between the 16-inch casing and 6.625-inch Nominal Diameter FRP Tubing from 1,140 feet to 1,180 feet bls	\$24	CF	41	\$991
2 Fill annular space between the 16-inch OD casing and 6.625-inch Nominal Diameter FRP Tubing and 10 feet of open hole to land surface with neat cement	\$24	CF	1,177	\$28,257
3 Complete below ground/add monument	\$5,000	LS	1	\$5,000

Plug and Abandonment of Dual Zone Monitor Well Only Cost

\$81,294

10 Percent Contingency

\$8,129

20 Engineering Fees

\$16,259

TOTAL ESTIMATED COST FOR MONITORING WELL CDMW-2**\$105,682**

WASD Central District WWTP Monitoring Well CDMW-3**Lower Monitoring Zone**

1 Mobilize the drill rig and kill the well	\$25,000	LS	1	\$25,000
2 Remove Wellhead	\$5,000	LS	1	\$5,000
3 Geophysical logging	\$10,000	LS	1	\$10,000
4 Install gravel in the Lower Zone open hole from 1,525 feet to 1,580 feet bls	\$24	CF	45	\$1,080
5 Fill the 6.625-inch Nominal Diameter FRP tubing and 10 feet of open hole to land surface with neat cement	\$24	CF	252	\$6,044

Upper Monitoring Zone

1 Install gravel in the annular space between the 16-inch casing and 6.625-inch Nominal Diameter FRP Tubing from 1,152 feet to 1,192 feet bls	\$24	CF	41	\$991
2 Fill annular space between the 16-inch OD casing and 6.625-inch Nominal Diameter FRP Tubing and 10 feet of open hole to land surface with neat cement	\$24	CF	1,190	\$28,555
3 Complete below ground/add monument	\$5,000	LS	1	\$5,000

Plug and Abandonment of Dual Zone Monitor Well Only Cost	\$81,670
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10 Percent Contingency	\$8,167
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20 Engineering Fees	\$16,334
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TOTAL ESTIMATED COST FOR MONITORING WELL CDMW-3	\$106,171
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WASD Central District WWTP Monitoring Well CDMW-4**Lower Monitoring Zone**

1 Mobilize the drill rig and kill the well	\$25,000	LS	1	\$25,000
2 Remove Wellhead	\$5,000	LS	1	\$5,000
3 Geophysical logging	\$10,000	LS	1	\$10,000
4 Install gravel in the Lower Zone open hole from 1,524 feet to 1,584 feet bls	\$24	CF	49	\$1,179
5 Fill the 6.625-inch Nominal Diameter FRP tubing and 10 feet of open hole to land surface with neat cement	\$24	CF	252	\$6,040

Upper Monitoring Zone

1 Install gravel in the annular space between the 16-inch casing and 6.625-inch Nominal Diameter FRP Tubing from 1,150 feet to 1,180 feet bls	\$24	CF	31	\$744
2 Fill annular space between the 16-inch OD casing and 6.625-inch Nominal Diameter FRP Tubing and 10 feet of open hole to land surface with neat cement	\$24	CF	1,188	\$28,505
3 Complete below ground/add monument	\$5,000	LS	1	\$5,000

Plug and Abandonment of Dual Zone Monitor Well Only Cost	\$81,467
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10 Percent Contingency	\$8,147
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20 Engineering Fees	\$16,293
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TOTAL ESTIMATED COST FOR MONITORING WELL CDMW-4	\$105,907
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WASD Central District WWTP Monitoring Well CDMW-5**Lower Monitoring Zone**

1 Mobilize the drill rig and kill the well	\$25,000	LS	1	\$25,000
2 Remove Wellhead	\$5,000	LS	1	\$5,000
3 Geophysical logging	\$10,000	LS	1	\$10,000
4 Install gravel in the Lower Zone open hole from 1,525 feet to 1,587 feet bls	\$24	CF	51	\$1,218
5 Fill the 6.625-inch Nominal Diameter FRP tubing and 10 feet of open hole to land surface with neat cement	\$24	CF	252	\$6,044

Upper Monitoring Zone

1 Install gravel in the annular space between the 16-inch casing and 6.625-inch Nominal Diameter FRP Tubing from 1,139 feet to 1,188 feet bls	\$24	CF	51	\$1,215
2 Fill annular space between the 16-inch OD casing and 6.625-inch Nominal Diameter FRP Tubing and 10 feet of open hole to land surface with neat cement	\$24	CF	1,176	\$28,232
3 Complete below ground/add monument	\$5,000	LS	1	\$5,000

Plug and Abandonment of Dual Zone Monitor Well Only Cost	\$81,709
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10 Percent Contingency	\$8,171
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20 Percent Engineering Fees	\$16,342
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TOTAL ESTIMATED COST FOR MONITORING WELL CDMW-5	\$106,221
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TOTAL ESTIMATED COST - INJECTION WELL CDIIW-1	\$480,782
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TOTAL ESTIMATED COST - INJECTION WELL CDIIW-2	\$479,338
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TOTAL ESTIMATED COST - MONITOR WELL CDIDZMW-1	\$108,012
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TOTAL ESTIMATED COST - 7 MUNICIPAL INJECTION WELLS (CDIW-3 to CDIW-9)	\$3,199,622
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TOTAL ESTIMATED COST - 4 MONITOR WELLS (CDMW-2 to CDMW-5)	\$423,982
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TOTAL ESTIMATED COST - 2 ADD. MUNICIPAL INJECTION WELLS (CDIW-10 to CDIW-11)	\$914,126
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TOTAL	\$5,605,862
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1 This cost estimate does not include monitoring or testing prior to abandonment.

2 Costs assume each well is abandoned at different times.

3 Costs do not assume post-closure monitoring.



MEMORANDUM

(Revised)

TO: Honorable Chairman Oliver G. Gilbert, III
and Members, Board of County Commissioners

DATE: February 6, 2024

FROM: 
Gen Bonzon-Keenan
County Attorney

SUBJECT: Agenda Item No. 8(O)(2)

Please note any items checked.

- ☐ "3-Day Rule" for committees applicable if raised
- ☐ 6 weeks required between first reading and public hearing
- ☐ 4 weeks notification to municipal officials required prior to public hearing
- ☐ Decreases revenues or increases expenditures without balancing budget
- ☐ Budget required
- ☐ Statement of fiscal impact required
- ☐ Statement of social equity required
- ☐ Ordinance creating a new board requires detailed County Mayor's report for public hearing
- ☐ No committee review
- ☐ Applicable legislation requires more than a majority vote (i.e., 2/3's present ____, 2/3 membership ____, 3/5's ____, unanimous ____, CDMP 7 vote requirement per 2-116.1(3)(h) or (4)(c) ____, CDMP 2/3 vote requirement per 2-116.1(3)(h) or (4)(c) ____, or CDMP 9 vote requirement per 2-116.1(4)(c)(2) ____ to approve
- ☐ Current information regarding funding source, index code and available balance, and available capacity (if debt is contemplated) required

Approved _____ Mayor
Veto _____
Override _____

Agenda Item No. 8(O)(2)
2-6-24

RESOLUTION NO. _____ R-105-24

RESOLUTION APPROVING THE CERTIFICATION OF FINANCIAL RESPONSIBILITY PURSUANT TO RULE 62-528.435(9) OF THE FLORIDA ADMINISTRATIVE CODE FOR THE OPERATION OF 11 CLASS I UNDERGROUND INJECTION WELLS AND FIVE RELATED MONITORING WELLS AT MIAMI-DADE COUNTY'S CENTRAL DISTRICT WASTEWATER TREATMENT PLANT; AND AUTHORIZING THE COUNTY MAYOR OR COUNTY MAYOR'S DESIGNEE TO EXECUTE SAME FOR AND ON BEHALF OF MIAMI-DADE COUNTY AND TO EXERCISE THE PROVISIONS CONTAINED THEREIN

WHEREAS, this Board desires to accomplish the purposes outlined in the accompanying memorandum, a copy of which is incorporated herein by reference,

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF MIAMI-DADE COUNTY, FLORIDA, that this Board hereby approves the Certification of Financial Responsibility, pursuant to Rule 62-528.435(9) of the Florida Administrative Code, as required by the State of Florida Department of Environmental Protection, in connection with the operation of 11 Class I underground injection wells and five related monitoring wells at Miami-Dade County's Central District Wastewater Treatment Plant, in substantially the form attached to the accompanying memorandum as Exhibit A and made a part hereof. The Board also authorizes the County Mayor or County Mayor's designee to execute same for and on behalf of Miami-Dade County, Florida and to exercise the provisions contained therein.

The foregoing resolution was offered by Commissioner **Eileen Higgins** , who moved its adoption. The motion was seconded by Commissioner **Anthony Rodriguez** and upon being put to a vote, the vote was as follows:

Oliver G. Gilbert, III, Chairman	aye		
Anthony Rodríguez, Vice Chairman	aye		
Marleine Bastien	aye	Juan Carlos Bermudez	aye
Kevin Marino Cabrera	aye	Sen. René García	absent
Roberto J. Gonzalez	aye	Keon Hardemon	aye
Danielle Cohen Higgins	aye	Eileen Higgins	aye
Kionne L. McGhee	aye	Raquel A. Regalado	aye
Micky Steinberg	aye		

The Chairperson thereupon declared this resolution duly passed and adopted this 6th day of February, 2024. This resolution shall become effective upon the earlier of (1) 10 days after the date of its adoption unless vetoed by the County Mayor, and if vetoed, shall become effective only upon an override by this Board, or (2) approval by the County Mayor of this Resolution and the filing of this approval with the Clerk of the Board.

MIAMI-DADE COUNTY, FLORIDA
BY ITS BOARD OF
COUNTY COMMISSIONERS

JUAN FERNANDEZ-BARQUIN, CLERK



By: Basia Pruna
Deputy Clerk

Approved by County Attorney as
to form and legal sufficiency.

SED

Sarah E. Davis