Key Largo Wastewater Treatment District Board of Commissioners Meeting Agenda Item Summary

Meeting Date:		Agenda Item Number: G-1				
September 16, 2025						
		Action Required:				
		No				
Department:	Sponsor:					
General Manager	Peter Rosasco					
Subject: FDEP Plant Inspectio						
Summary:						
Mr. Rosasco will discuss	the FDEP Plant Inspection.					
Reviewed / Approved	Financial Impact	<u>Attachments</u>				
Operations:	\$	1. FDEP Plant Inspection Report				
administration:						
inance:	Funding Source:					
District Counsel:						
District Clerk:	N/A					
Engineering:	Budgeted:					
	Budgeted:					
	Budgeted:					

General Manager



FLORIDA DEPARTMENT OF Environmental Protection

Ron DeSantis Governor

Jay Collins Lt. Governor

Alexis A. Lambert Secretary

Southeast District 2796 Overseas Highway, Suite 221 Marathon, FL 33050 305-289-7070

September 2, 2025

Mr. Peter Rosasco General Manager Key Largo Wastewater Treatment District 100301 Overseas Highway Key Largo, Florida 33037

Email: Cunstruction@KLWTD.com

Re: In Co

In Compliance

Key Largo Wastewater Treatment Facility

UIC Facility No.: WACS 97750 & WACS 100121

Monroe County

Dear Mr. Rosasco:

Department personnel conducted an inspection of the above-referenced facility on August 22, 2025. Based on the information provided during and following the inspection, the facility was determined to be in compliance with the Department's rules and regulations.

The Department appreciates your efforts to maintain this facility in compliance with state and federal rules. Should you have any questions or comments, please contact Elsa Portanyi at 305-289-7070 or via e-mail at Elsa-Marie.Portanyi@FloridaDEP.gov or TAL UIC@dep.state.fl.us.

Sincerely,

M'Liss Bordelon, Environmental Administrator

Southeast District

Florida Department of Environmental Protection

Enclosure: In:

Inspection Report

ec:

M'Liss Bordelon, FDEP Richard Lobinske, FDEP Whitney.Bordelon@FloridaDEP.gov Richard.Lobinske@FloridaDEP.gov



FLORIDA DEPARTMENT OF Environmental Protection

Ron DeSantis Governor

> Jay Collins Lt. Governor

Alexis A. Lambert Secretary

File Number: 0272762-007-UO/1M

Southeast District 2796 Overseas Highway, Suite 221 Marathon, FL 33050 305-289-7070

Facility: Key Largo Wastewater Treatment Facility

100301 Overseas Highway Key Largo, Florida 33037 Monroe County – UIC

Contact name: Adam Baptiste

Contact E-mail: adam.baptiste@klwtd.com

WACS ID: 97750 Operational Permit

Permit Expiration: May 16, 2030 Well Field Status: Operational

A non-hazardous underground injection control (UIC) well system, consisting of one Class I injection well (IW-1) and one dual-zone monitor well (MW-1), for the disposal of secondary treated municipal effluent which has received high level disinfection from the Key Largo Wastewater Treatment Facility (WWTF). IW-1 is constructed with a 14.48-inch inside diameter fiberglass reinforced plastic (FRP) casing to 2,735 feet (ft) below land surface (bls) and a total depth of 3,604 ft bls. The maximum disposal rate is 4,520 gallons per minute (GPM) and the maximum disposal volume is 6.5 million gallons per day (MGD). MW-1 is completed from 1,460 to 1,494 ft bls and from 1,650 to 1,702 ft bls.

Inspection Date: August 22, 2025	Purpose of Visit (Inspection Type)	Bi-Annual (INSP) ✓ Compliance (INSP) ✓ Construction (COI) □ Enforcement (INSP) □ Complaint (CI) □ Other □ (
Wells authorized in permit:	Class I	IW-1	Monitoring wells	MW-1					
in permit.	Class V	376727-002-UO/5W, WACS ID 100121	Other	N/A					
SWells inspected	Class I	IW-1	Monitoring wells	MW-1					
at visit:	Class V	376727-002-UO/5W, WACS ID 100121	Other	N/A					
Is operator's licens	se current and posted?	⊠Yes □No □N/A (OM; only applicable t	to DW/ASR)						

Is operator's license current and posted? MYes LINO LIN/A (OM; only applicable to DW/ASR) Adam Baptiste, Class A Operator, License No. 0026780 exp. 4/30/2027

Adam Baptiste, Class A Operator, License No. 0026780 exp. 4/30/2027 William Cunningham, Class B Operator, License No. 0028844 exp. 4/30/2027 Joe Williams, Class C Operator, License No. 0023825 exp. 4/30/2027

Facility Contact(s) at time of inspection:	Phone:	Email:
Adam Baptiste, Lead Operator	954-661-5160	Adam.Baptiste@klwtd.com
Joe Williams, Senior Operator	786-399-3972	Joe.Williams@klwtd.com
Ryan Dempsey, Operations and Facilities Manager	305-798-2203	Ryan.Dempsey@klwtd.com

			Compliance areas evaluated:	(Red is (COMET violation codes)		
	IC: In Comp	liance; N	C: Out of Compliance SC: Significar	nt Non-Co	ompliance NA : Not Applica	able, NE :	Not Evaluated
	Operating Requirements	1	Monitoring, Records, & Reports	Fa	cility Site Review (OM)		Calibration (OM)
IC	1. Volume (WI)	IC	6. Records of MOR (MM)	IC	8. Wellheads	IC	14. Pressure Gauges
IC	2. Pressure (IP)	IC	7. Lab Reports (electronic or hard copies) (MR)	NA	9. Annulus Tank	IC	15. Flow Meters
IC	3. Emergency (OM)			IC	10. Rust & Corrosion	NA	16. Chart Recorders
IC	4. Valid Permit (OP)			IC	11. Labeling	IC	17. Other Equipment (SCADA)
IC	5. O&M Manual (OM)			IC	12. Purging	IC	18. Calibration Certificates
				IC	13. Maintenance		

Key Largo Wastewater Treatment Facility; WACS ID: 97750

Facility Inspection Worksheet

GENERAL

	Rule	Operating Requirements		N/A	Yes	No	COMET	Notes		
1	62-528.415(4)(c)	Emergency Discharge method permitted and	d operational				(OM)			
2	62-528.415(4)(b)	Abnormal Events reported		\boxtimes			(FN)	None to report		
3	62-528.307(1)(I)	Current Permit on site			\boxtimes		(OP)	Exp. May 16, 2030		
4	62-528.415(3)	Up-To-Date Operation and Maintenance M	anual on site		\boxtimes		(OM)	AquaSBR O&M		
							201455			
	Rule	Monitoring, Records, And Repor	ts	N/A	Yes	No	COMET	Notes		
5		Monitoring Records & Reports on site and cu	rrent (MOR's)		\boxtimes		(MM)			
6	62.528.307(1)(m)	Specific Injectivity Test available)		\boxtimes		(MM)			
7		Fall-Off Test available			\boxtimes		(MM)			
8	62-528.307(1)(m)	Lab Reports available			\boxtimes		(MR)			
9	62-528.307(f)	SCADA System functioning prope signated drawer onsite for storage of physical co			\boxtimes		(OM)			
requ	irements for IW-1 for Q	nd MW-1 via SCADA. The facility received a nev uarterly and Annual analysis, the schedule requ e annual analysis of IW-1 has been scheduled fo	rements were n r September 20	ot due	orior to	the 20	25 inspection	and therefore not reviewed		
		Pi	ump Station							
10	Total Number of Pumps	4	Number of Pur					1		
	Type of Pumps Vertical turbine Number of pumps operational at time of inspection: 4									
11	Type of Pumps		operational	of pump I at time	S					
11	Type of Pumps		Number o	of pump I at time	S					
11	Type of Pumps Rule		Number o	of pump I at time	S	No	COMET CODE			
12		Vertical turbine	Number o	of pump I at time ction:	s e of	No 🗆		4		
	Rule	Vertical turbine Pump Station	Number of operational inspec	of pump l at time ction:	s of	270.00	CODE	4		
12	Rule 62-600.540(4)(h)	Vertical turbine Pump Station Designated Stand-by pump	Number of operational inspec	of pump l at time ction:	yes		CODE (OM)	4		
12	Rule 62-600.540(4)(h) 62-600.540(4)(a)	Vertical turbine Pump Station Designated Stand-by pump Lightning Arrestor on Pump Statio	Number of operational inspect	of pump I at time ction:	Yes		(OM)	4		
12 13 14 15	Rule 62-600.540(4)(h) 62-600.540(4)(a) 62-528.307(1)(f) 62-528.307(1)(f) 62-528.307(1)(f)	Pump Station Designated Stand-by pump Lightning Arrestor on Pump Statio Pump free of leaks Pump station free of rust and corro	Number of operational inspection	of pump I at time ction:	Yes X		(OM) (OM) (OM) (OM)	4 Notes		

	Injection Well # IW-1										
17	Rule: 62-528.415(1)(f)				18 Rule: 6	2-528	.415(1)(a)-(c)			
	Max Flow Permitted	Flo	ow a	t Inspection	Max	Wellh	ead Pres	ssure			sure at Inspection
	4,520 GPM	3,046 GPM 114					4 psi			57 psi SCADA 56.5 psi wellhead	
									COMET		
	Rule	Injection Well Requirements					N/A	Yes	No	COMET	Notes
19	62-528.307(1)(f)	Inj	Injection well labeled by well number							(OM)	Additional labels added and submitted on 8/27/25
20	62-528.425(1)(b)	Gauges & F	Flow	Meter agree with elect (SCADA)	ronic equipmen	t		\boxtimes		(OM)	
21	62-600.540(4)	Manual back	к-ир	pressure and flow equip	ment function	ng		\boxtimes		(OM)	
22	62-528.425(1)(b)			Flow meter functioning	3			\boxtimes		(OM)	
23	62-528.307(1)(f)		Inje	ection Wellhead free of	eaks			\boxtimes		(OM)	
24	62-528.307(1)(f)	Injection well / Surface equipment free of rust and corrosion If corroded, note degree (Minor, Moderate, Severe)								(OM)	
25	62-600.540(4)(f)	Pa	ad m	naintained, not used for	storage			\boxtimes		(OM)	
26	62-528.307(1)(f)			Sumps are maintained				\boxtimes		(OM)	
27	62-528.307(1)(f)	70	Air	release valves free from	leaks			\boxtimes		(OM)	
28	62-528.415(1)(f)		Ν	Maximum Flow within lim	nits			\boxtimes		(WI)	
29	62-528.415(1)(a)-(c)		Ма	ximum Pressure within I	imits			\boxtimes		(IP)	
30	62-528.425(1)(b)		Ar	nulus Tank level is read	able		\boxtimes			(OM)	
31	62-528.307(1)(f) & (m)	Per the MOF	R, w	hat is the Normal Annula	ar Pressure Ran	ge	N/A				
32	62-528.307(1)(f) & (m)	note PSI		vithin Normal Range (tu						(OM)	
33	62-528.307(1)(f) & (m)	Annular Pressu packer) Note P		greater than Injection Pr	essure (tubing a	and				(OM)	
34	62-528.307(1)(f) & (m)			Pressure Gauge Calibrate	ed			\boxtimes		(OM)	
35	62-528.307(1)(f) & (m)			Flow meters Calibrated	I			\boxtimes		(OM)	Panametrics PT878 Magnetic flow tube
36	62-528.307(1)(f) & (m)			Chart recorders Calibrat	ed		\boxtimes			(OM)	
37	62-528.307(1)(f) & (m)		Lā	atest CalibrationDa	tes:		11-13	-24			
Well	Compliance Status:										
\boxtimes	In-Compliance			Out-Of-Compliance			Signifi	cant Ou	it of Co	mpliance	
	s: The facility promptly adde						Departn	nent on	8/27/2	25. The flow	meter, pressure
	mitter and pH analyzer wer										15 40

		Monit	or Well #: MW-:	1				35-13	Assoc	iated wi	ith Inje	ction Well	: IW-1	
	LIDDE			16 16 4	LOV	VER ZOI	ME		Emergency Class V well					
	UPPE	ER ZONE			LOV	VER ZOI	NC		WACS 100121					
38	Rule: 62-528.42			39	Rule: 62-5				40			2-528.425		
We	Ilhead Pressure	Wellhea	d Water Level	Wellhead Pressure Wellhead Water Level			Wellhead Pressure			ure	Wellhead Water Level			
	19.8 psi		N/A	2	1.2 psi		N/A				0		N/A	
												201/57		
	Rule			Monitor Well Requirements			N/A	Yes	No	COMET	Notes			
41	41 62-528.307(f)				ell labeled by	y well ni	umber				\boxtimes	(OM)	Additional labels added and submitte on 8/27/25	
42	62-528.30	62-528.307(f) Sample Ports labele								\boxtimes		(OM)		
43	62-528.425(62-528.30	pressure	/ Water Lev	el gaug	es functioning			\boxtimes		(OM)				
44	62-528.425(62-528.30	(1)(g)1	Wellhead ga	uges agre	e with electr	ronic eq	uipment (SCAD)A)		\boxtimes		(MR)		
45	62-528.425(62-528.30	(1)(g)1		Transc	lucer in work	king ord	er			\boxtimes		(OM)		
46	62-528.307	7(1)(f)	/-	Monitor	wellhead fre	e from I	eaks			\boxtimes		(OM)		
47	62-528.307	7(1)(f)	Monitor well / Surface equipment free If corroded, note degree (Mild, M					ion		\boxtimes		(OM)		
48	62-600.540)(4)(f)			ined, not us					\boxtimes		(OM)		
49	62-528.307	7(1)(f)		Sun	nps are main	tained				\boxtimes		(OM)		
50	62-528.307(1)	(f) & (m)		Press	ure Gauge Ca	alibrate	d			\boxtimes		(OM)		
51	62-528.307(1)	(f) & (m)		Chart	recorders C	alibrate	d		\boxtimes			(OM)		
52	62-528.307(1)	(f) & (m)		Trar	nsducers Cali	ibrated				\boxtimes		(OM)		
53	62-528.307(1)	(f) & (m)		Latest C	alibration	Da	tes:		11/13	/24				
54					well purge v							to in-plan	nt pump station	
55					ng well purge				-	fugal pu	ump			
56			Monito	oring well	volume pur	ged / tir	me needed:		N/A					
Well	Compliance Statu	us:												
⋈	In-Compliance				-Of-Complia	20,000						ompliance		
recer	nt compliance eva	aluation ins	pection observe -3 of the O&M fo	ed that: por UZ and	urging did no I LZ, and the	ot meet units fo	stabilization co r specific condu	mple uctan	tion crit	teria est ND.) and	tablishe d dissol	ed in FS 22 ved oxyge	T. The facility's most 200, the purge volumes n (DO) were not MOR submissions.	
		Awara												
-	ty/Well Complian							15.15		C:				
The f Annu inspe facilit suffice addit defice Depar	Comments/Rule or Permit Violations/ Recommended Actions: The facility had all record requirements available on site in both physical and digital forms. The facility received new requirements for the Quarterly and Annual testing schedule of IW-1 which were not due prior to the inspection and therefore were not reviewed during the 2025 compliance evaluation inspection. The facility had scheduled the annual sampling for the wells and demonstrated their intention by having the sampling bottles on site. The facility has redundancy with pumps and exercises the components in a rotational order as injection is needed. The facility's wastewater permit ensures sufficient staffing for the injection well. The well heads were free of leaks and rust and appeared to be in compliance. The facility promptly added additional labels to the injection wells and their associated sample points and piping. The facility had past deficiency for purge log data completeness, the deficiency was promptly corrected and was not observed in the review of recent MOR submissions. The facility was found to be in compliance with the Department's rules and the facility's current permit requirements.													
Elsa I	Portanyi Elen Po	stury			-9		M'Liss Bordelo	on	Druge	m	_		100	
FDEP	Inspector – 8/27	//25					Inspector's M	anag	er – 9/2	2/2025				

Key Largo WWTP Class I (WACS 97750) and Key Largo WWTP Class V emergency injection well (WACS 100121)

Photos by Elsa Portanyi on 8/22/25.



IW-1 Field view



Additional labeling on IW-I provided on 8/27/25



IW-1 Continuous monitoring gauges and display



IW-1 Pressure transmitter



IW-1 pH and pressure



MW-1 Field view



MW-1 pad



MW-1 monitoring station



UMZ Pressure gauge and label

Key Largo WWTP Class I (WACS 97750) & Key Largo WWTP Class V (WACS 100121) 8/22/2025



LMZ Pressure gauge and label



MW-1 valve Label



MW-1 valve Label



MW-1 Sample station



Class V backup well WACS 100121



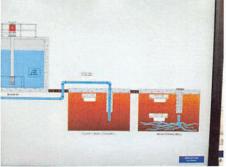
Additional labeling on IW-I provided on 8/27/25
WACS 100121



Class V Backup well pressure gauge WACS 100121

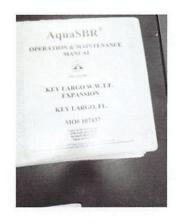


SCADA full UIC system view



SCADA IW-1 and MW-1

Key Largo WWTP Class I (WACS 97750) & Key Largo WWTP Class V (WACS 100121) 8/22/2025







0&M

Operator Certifications

Annual Sampling work order



Onsite permit



Financial Responsibility for P&A