

WELL ABANDONMENT REPORT

FOR

Margate CRA Gas Station

1291 N SR. 7
Margate, Florida
FDEP Facility No. 06/8626276

Prepared for

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Prepared by



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1.0 INTRODUCTION

Gator Engineering & Aquifer Restoration, Inc. (GEAR) was contracted by the City of Margate to perform monitor well abandonment for the former Margate CRA Gas Station facility, hereinafter referred to as the 'Site'. The following report represents the Monitor Well Abandonment Report which. The property is located at 1291 N SR. 7, Margate, Broward County, Florida. The FDEP facility identification number for the Site is 06/8626276.

2.0 BACKGROUND

2.1 General Information

Based on the FDEP Bureau of Petroleum Storage System's STCM database, the Site formerly operated one single-walled fiberglass 12,000-gallon Underground Storage Tank (UST) containing vehicular diesel, and three single-walled fiberglass 10,000-gallon USTs containing unleaded gasoline. Additionally, the Site previously maintained two 250-gallon, single-walled, steel, above ground storage tanks (ASTs) containing waste oil. On January 29, 2008, the fuel dispensers were removed from the Site. In March 2008, all of the storage tanks were removed by LandScience, Inc. and a Tank Closure Assessment Report was submitted. The buildings were subsequently removed, and the Site currently exists as an undeveloped, grassy lot

2.2 Release History

According to FDEP records, four discharges occurred with the corresponding discharge forms submitted on June 18, 1984, November 18, 1986, September 16, 1993, and June 4, 2005. Unfortunately, only the 1986 and 2005 forms could be located in the OCULUS database.

The June 18, 1984 discharge was encountered in the south-central portion of the project site during "raise and rebuild" activities. An Early Detection Incentive (EDI) program application was submitted for this discharge which was subsequently approved on May 1, 1987. The Site was given a priority score of 30 and subsequent assessment and remediation activities were conducted from 1986 through 1990. A Site Rehabilitation Completion Order (SRCO) was issued for this discharge on August 31, 1990.

The November 18, 1986 discharge was identified when groundwater laboratory analytical results from a sampling event indicated petroleum impacts in two monitor wells.

The October 1992 discharge was encountered in the eastern portion of the Site during Phase II ESA activities. In response to the October 1992 discharge, assessment was conducted and Natural Attenuation Monitoring (NAM) was performed from 1993 to 2000. In 2000, NAM activities ceased when it was determined the groundwater contamination was eligible for the Petroleum Cleanup Participation Program (PCPP).

The September 16, 1993 discharge was encountered in the UST area during assessment activities. In response to this discharge, additional assessment was conducted in June 1994 and November 1996. Based upon these results, on May 16, 1997, the FDEP determined the project site to be eligible for state-funded assistance, under the PCPP. A Limited Contamination Assessment was conducted in August 2002 the results of which identified no petroleum impacts in the soil; however impacted groundwater was present in the same area at levels that exceeded the state standards. No additional assessment activities were conducted due to no funds under the PCPP available.

The June 7, 2005 discharge was encountered during a groundwater sampling event conducted in the UST area. Although documented groundwater contamination existed in this area, the elevated concentrations detected during this sampling event indicated a new discharge. On November 23, 2005, the Broward County Environmental Protection Department (BCEPD) requested performance of a site assessment. The Site Assessment Report (SAR) was submitted to BCEPD on September 27, 2006, identifying petroleum constituents

in the groundwater at concentrations exceeding their respective Groundwater Cleanup Target Levels (GCTLs). Subsequent assessment, monitoring, and well abandonment activities were conducted and BCEPD re-classified the discharge as inactive in a letter dated May 16, 2008.

In August 2008, LandScience prepared a SAR Addendum to address the un-assessed portion of the property associated with the September 16, 1993 discharge and to confirm the groundwater analytical results associated with the UST removal activities conducted in March 2008. The results presented in the SARA indicated no petroleum hydrocarbon impacted soil above respective Soil Cleanup Target Levels (SCTLs), however groundwater impacts above respective GCTLs was encountered, confirming the results of the March 17, 2008 sampling event.

In June 2016, AGuA, LLC (AGuA), conducted soil and groundwater assessment at the Site. The results of the investigation indicated the persistence of petroleum constituents of concern in the groundwater in the vicinity of MW-23 at concentrations exceeding respective GCTLs. Supplemental soil and groundwater assessment was conducted in April, 2017, the results of which identified a persistent plume of petroleum impacted groundwater in the vicinity of MW-28.

In March 2019, GEAR, conducted groundwater assessment at the Site. The results of the investigation did not identify the presence of petroleum constituents of concern at concentrations exceeding their respective GCTLs. GEAR recommended a Site Rehabilitation Completion Order, with No Further Action for the previous discharge, pending well abandonment. The Broward County Environmental Protection & Growth Management Department concurred with GEAR's recommendation in their October 23, 2019 deliverable approval letter.

3.0 RECENT SITE ACTIVITIES

3.1 *Monitor Well Abandonment*

On December 27, 2019, GEAR mobilized to the Site to supervise Preferred Drilling Solutions, Inc. (PDS), a state-licensed well driller, during the abandonment of all on-site wells (MW-22 through MW-33 and MW-34D).

The wells were abandoned via the tremie method using a ¾" piece of PVC to grout the well from the bottom up. The former well locations are depicted in **Figure 1**. Groundwater elevations collected prior to abandonment are presented in **Table 1**. The field notes, and well completion reports provided by PDS, are included in **Appendix A**.

4.0 CONCLUSIONS AND RECOMMENDATIONS

In accordance with the October 23, 2019 deliverable approval letter issued by the Broward County Environmental Protection & Growth Management Department the property owner, Margate Community Redevelopment Agency, has concluded assessment and remediation activities for the 1993 discharge.

Figure

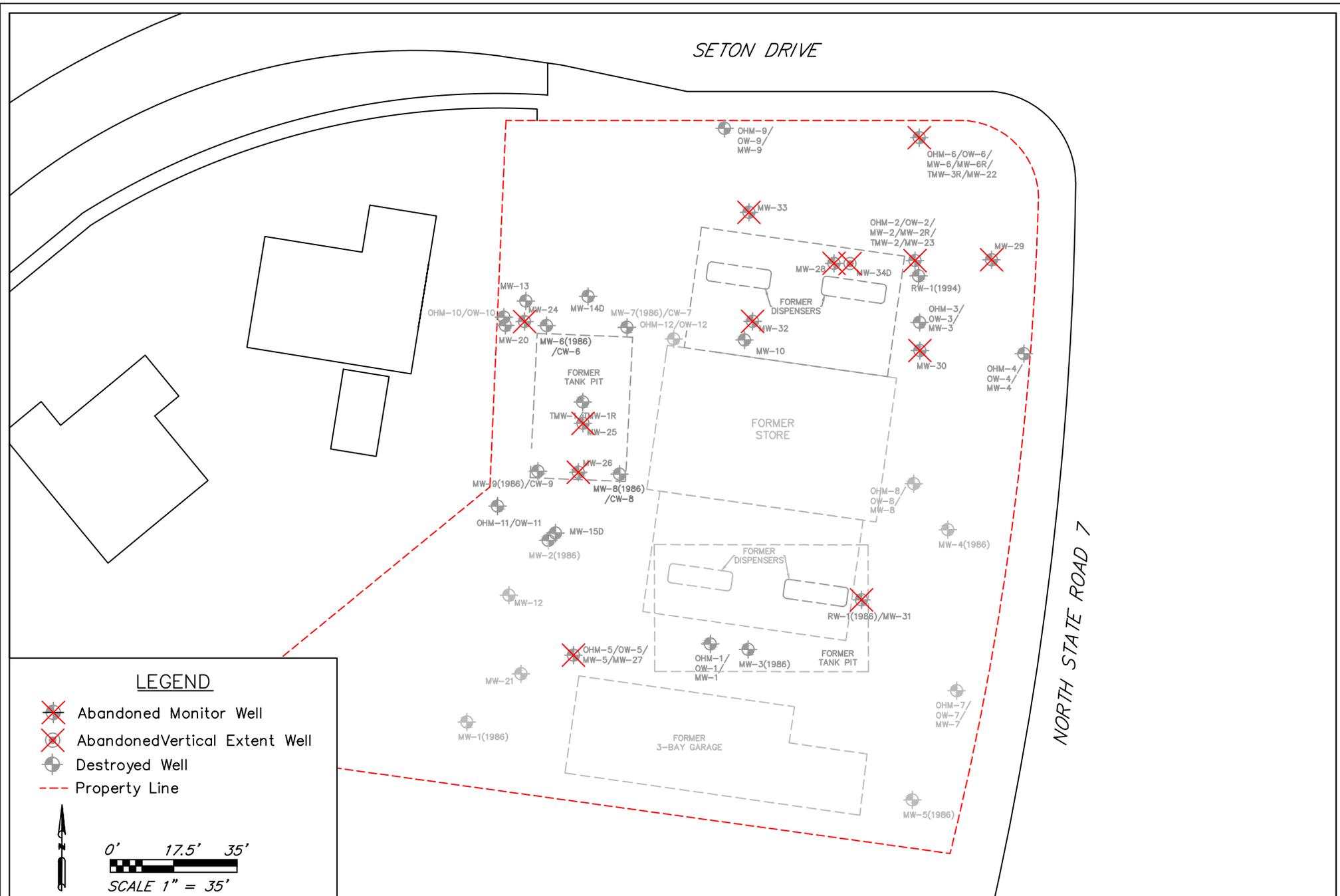


Figure No.

1



ABANDONED MONITOR WELL LOCATION MAP

MARGATE CRA GAS STATION

1291 N SR 7

MARGATE, BROWARD COUNTY, FLORIDA

FDEP FAC ID # 8626276

Drawn by: MH
Revised by: MM
Date: 01/17/2020
Scale: 1" = 35'

Table

TABLE 1: MONITOR WELL CONSTRUCTION DETAIL & GROUNDWATER ELEVATION TABLE

Facility ID#: 8626276

Facility Name: Margate CRA Gas Station

NM = Not Measured

WELL NO.	MW-1 (1985)			MW-2 (1985)			MW-3 (1985)			MW-4 (1985)			MW-5 (1985)		
DIAMETER (IN)	Unknown														
WELL DEPTH (FT)	Unknown														
SCREEN INTERVAL	Unknown														
TOC ELEVATION (FT)	48.09			49.18			49.00			48.99			48.88		
DATE	ELEV	DTW	FP												
2/28/1985	41.17	6.92		41.08	8.10		41.02	7.98		41.13	7.86		41.20	7.68	
7/21/1985	43.86	4.23		43.85	5.33		43.85	5.15		43.84	5.15		43.84	5.04	
	Destroyed			Destroyed			Destroyed			Destroyed			Destroyed		

WELL NO.	MW-6 (1985)			MW-7 (1985)			MW-8 (1985)		
DIAMETER (IN)	Unknown			Unknown			Unknown		
WELL DEPTH (FT)	Unknown			Unknown			Unknown		
SCREEN INTERVAL	Unknown			Unknown			Unknown		
TOC ELEVATION (FT)	48.41			48.03			47.96		
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
2/28/1985	41.21	7.20		41.24	6.79		41.09	6.87	
7/21/1985	43.81	4.60		43.87	4.16		43.83	4.13	
	Destroyed			Destroyed			Destroyed		

WELL NO.	MW-1 (1986)			MW-2 (1986)			MW-3 (1986)			MW-4 (1986)			MW-5 (1986)		
DIAMETER (IN)	Unknown														
WELL DEPTH (FT)	Unknown														
SCREEN INTERVAL	Unknown														
TOC ELEVATION (FT)	12.64			12.42			13.18			12.94			12.91		
DATE	ELEV	DTW	FP												
5/8/1986	6.22	6.42		6.26	6.16		6.30	6.88		6.06	6.38		6.58	6.33	
3/12/1990	4.70	7.94		4.70	7.72		4.87	8.31		4.86	8.08		4.50	8.41	
	Destroyed			Destroyed			Destroyed			Destroyed			Destroyed		

WELL NO.	MW-6/CW-6			MW-7/CW-7			MW-8/CW-8			RW	MW-9/CW-9				
DIAMETER (IN)	4.00			4.00			4.00			Unknown	4.00				
WELL DEPTH (FT)	13.00			13.00			13.00			Unknown	13.00				
SCREEN INTERVAL	3.00-13.00			3.00-13.00			3.00-13.00			Unknown	3.00-13.00				
TOC ELEVATION (FT)	12.34			13.26			13.58			13.85	13.20				
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
5/8/1986	6.28	6.06		6.32	6.94		6.33	7.23		6.40	7.45				
3/12/1990		NM			NM			NM		6.05	7.80				
7/23/1993	7.49	4.85			NM			NM					7.92	5.28	
5/5/1994	5.95	6.39		6.01	7.25		6.38	7.20			NM		6.42	6.78	
6/4/1996		NM		6.54	6.72		6.89	6.69			NM		6.97	6.23	
9/25/1996	6.37	5.97		6.50	6.76		6.84	6.74			NM				
3/13/1997	5.70	6.64		5.76	7.50		6.12	7.46			NM		6.19	7.01	
6/24/1997	7.02	5.32		7.04	6.22		7.40	6.18			NM		7.50	5.70	
9/24/1997	6.25	6.09		7.13	6.13		7.26	6.32			NM				
12/19/1997	5.45	6.89		6.34	6.92			NM			NM		6.31	6.89	
5/30/2007	5.18	7.16		5.23	8.03		5.60	7.98			NM		5.67	7.53	
	Destroyed			Destroyed			Destroyed			Destroyed			Destroyed		

WELL NO.	OHM-1/OW-1/MW-1			OHM-2/OW-2/MW-2/ MW-2R/TMW-2			OHM-3/OW-3/MW-3			OHM-4/OW-4/MW-4			OHM-5/OW-5/MW-5		
DIAMETER (IN)	4.00			4.00			4.00			4.00			4.00		
WELL DEPTH (FT)	15.00			15.00			30.00			15.00			15.00		
SCREEN INTERVAL	5.00-15.00			5.00-15.00			25.00-30.00			5.00-15.00			5.00-15.00		
TOC ELEVATION (FT)	13.42			13.49			13.68			13.26			13.22		
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
7/23/1993	7.92	5.50		8.26	5.23		8.26	5.42		8.26	5.00				
5/5/1994	6.47	6.95		6.50	6.99		6.51	7.17		6.55	6.71		6.40	6.82	
6/4/1996	6.97	6.45		7.14	6.35		6.96	6.72		7.05	6.21		6.90	6.32	
9/25/1996	6.91	6.51		7.01	6.48		6.84	6.84		6.98	6.28		6.81	6.41	
1/6/1997													5.97	7.25	
3/13/1997	6.20	7.22			NM		6.30	7.38			NM		6.13	7.09	
6/24/1997	7.54	5.88		7.57	5.92		7.53	6.15		8.10	5.16		7.34	5.88	
9/24/1997	7.39	6.03		7.93	5.56			NM		7.56	5.70		7.11	6.11	
12/19/1997	6.56	6.86		6.84	6.65		6.97	6.71		6.87	6.39		6.37	6.85	
3/19/1998		NM		6.98	6.51		6.89	6.79		6.97	6.29		6.78	6.44	
6/23/1998	5.83	7.59		5.88	7.61		5.83	7.85		5.40	7.86		5.70	7.52	
9/28/1998	7.62	5.80		7.64	5.85		7.77	5.91		7.41	5.85		7.57	5.65	
12/7/1998	7.15	6.27		7.22	6.27		7.22	6.46		7.00	6.26		7.10	6.12	
5/12/1999		NM		6.89	6.60			NM		6.64	6.62				
8/11/1999		NM		7.19	6.30			NM		7.22	6.04				
5/30/2007	5.67	7.75			NM			NM			NM		5.60	7.62	
	Destroyed			Destroyed			Destroyed			Destroyed			Destroyed		

TABLE 1: MONITOR WELL CONSTRUCTION DETAIL & GROUNDWATER ELEVATION TABLE

Facility ID#: 8626276

Facility Name: Margate CRA Gas Station

NM = Not Measured

WELL NO.	OHM-6/OW-6/MW-6/ 6R/TMW-3	OHM-7/OW-7/MW-7	OHM-8/OW-8/MW-8	OHM-9/OW-9/MW-9	OHM-10/OW-10/MW-10
DIAMETER (IN)	4.00	4.00	4.00	4.00	4.00
WELL DEPTH (FT)	15.00	15.00	15.00	13.00	14.00
SCREEN INTERVAL	5.00-15.00	5.00-15.00	5.00-15.00	3.00-13.00	4.00-14.00
TOC ELEVATION (FT)	14.40	13.35	13.65	14.3	17.83

DATE	ELEV	DTW	FP												
7/23/1993	8.31	6.09		7.80	5.55		8.28	5.37		8.38	5.92			NM	
5/5/1994	8.01	6.39		6.43	6.92		6.50	7.15		6.48	7.82		12.54	5.29	
6/4/1996	7.05	7.35		6.99	6.36		6.99	6.66		6.69	7.61		12.94	4.89	
9/25/1996	6.99	7.41		6.89	6.46		6.95	6.70		6.96	7.34		12.87	4.96	
1/6/1997	6.15	8.25		6.06	7.29		6.09	7.56		6.12	8.18			NM	
3/13/1997		NM		6.28	7.07			NM		6.23	8.07			NM	
6/24/1997	7.54	6.86		7.51	5.84		7.54	6.11		7.49	6.81		13.19	4.64	
9/24/1997	5.59	8.81		7.62	5.73		7.48	6.17		5.46	8.84		10.70	7.13	
12/19/1997	6.86	7.54		6.44	6.91		6.78	6.87		6.71	7.59		11.05	6.78	
3/19/1998	6.96	7.44		6.87	6.48		6.80	6.85		6.94	7.36		12.72	5.11	
6/23/1998	5.91	8.49		4.86	8.49		5.80	7.85		5.82	8.48			NM	
9/28/1998	7.71	6.69		7.71	5.64		7.61	6.04		7.66	6.64		13.33	4.50	
12/7/1998	7.25	7.15		7.22	6.13		7.20	6.45		7.19	7.11		12.83	5.00	
5/12/1999		NM			NM		7.07	6.58			NM			NM	
8/11/1999	7.17	7.23			NM		7.12	6.53			NM			NM	
5/30/2007		NM			NM		5.70	7.95		5.40	8.90		9.88	7.95	
	Destroyed			Destroyed			Destroyed			Destroyed			Destroyed		

WELL NO.	OHM-11/OW-11	OHM-12/OW-12	RW-1	OW-13	OW-14
DIAMETER (IN)	4.00	4.00	2.00	Unknown	Unknown
WELL DEPTH (FT)	14.00	30.00	Unknown	Unknown	Unknown
SCREEN INTERVAL	4.00-14.00	25.00-30.00	Unknown	Unknown	Unknown
TOC ELEVATION (FT)	18.35	19.34	18.92	Unknown	Unknown

DATE	ELEV	DTW	FP	ELEV	DTW	FP									
5/5/1994	11.51	6.84		12.16	7.18		12.21	6.71			NM			NM	
6/4/1996	11.99	6.36		12.69	6.65			NM			NM			NM	
9/25/1996	11.96	6.39		12.66	6.68			NM			NM			NM	
1/6/1997	11.13	7.22		11.66	7.68			NM			NM			NM	
3/13/1997	11.22	7.13			NM			NM			NM			NM	
6/24/1997	11.22	7.13		13.20	6.14			NM			5.75				
9/24/1997	12.49	5.86		13.28	6.06			NM			NM				
12/19/1997	11.43	6.92		12.76	6.58			NM			6.90			NM	
3/19/1998	11.87	6.48		12.64	6.70			NM			6.16			NM	
6/23/1998	11.16	7.19		11.53	7.81			NM			NM			NM	
9/28/1998	12.69	5.66		13.34	6.00			NM			NM			NM	
12/7/1998	12.20	6.15		12.79	6.55			NM			NM			NM	
5/12/1999		NM		12.79	6.55			NM			NM			NM	
8/11/1999		NM		12.78	6.56			NM			NM			NM	
	Destroyed			Destroyed			Destroyed			Destroyed			Destroyed		

WELL NO.	OW-15	MW-12	MW-15D	MW-20	MW-22
DIAMETER (IN)	Unknown	4.00	2.00	2.00	2.00
WELL DEPTH (FT)	Unknown	14.00	30.00	14.00	13.00
SCREEN INTERVAL	Unknown	4.00-14.00	25.00-30.00	4.00-14.00	3.00-13.00
TOC ELEVATION (FT)	Unknown	8.52	8.49	8.01	10.63

DATE	ELEV	DTW	FP												
6/24/1997		5.79													
9/24/1997		6.10													
12/19/1997		NM													
3/19/1998		6.32													
6/23/1998		NM													
9/28/1998		NM													
12/7/1998		6.07													
5/30/2007		NM		0.84	7.68		0.88	7.61		0.89	7.12				
6/23/2016													5.06	5.57	
7/18/2016														NM	
4/18/2017													3.83	6.80	
7/31/2017													5.43	5.20	
6/12/2019													4.05	6.58	
12/27/2019													4.63	6.00	
	Destroyed			Destroyed			Destroyed			Destroyed			Abandoned		

TABLE 1: MONITOR WELL CONSTRUCTION DETAIL & GROUNDWATER ELEVATION TABLE

Facility ID#: 8626276

Facility Name: Margate CRA Gas Station

NM = Not Measured

WELL NO.	MW-23			MW-24			MW-25			MW-26			MW-27		
DIAMETER (IN)	2.00			2.00			2.00			2.00			2.00		
WELL DEPTH (FT)	13.00			13.00			13.00			13.00			13.00		
SCREEN INTERVAL	3.00-13.00			3.00-13.00			3.00-13.00			3.00-13.00			3.00-13.00		
TOC ELEVATION (FT)	10.65			9.99			10.00			9.78			10.14		
DATE	ELEV	DTW	FP												
	Installed 6/21/2016			Installed 6/21/2016			Installed 6/21/2016			Installed 6/21/2016			Installed 6/21/2016		
6/23/2016	5.03	5.62		4.88	5.11		4.87	5.13		4.93	4.85		4.92	5.22	
7/18/2016	4.62	6.03			NM			NM			NM			NM	
4/18/2017	3.83	6.82		3.70	6.29		3.68	6.32		3.71	6.07		3.65	6.49	
7/31/2017	5.39	5.26		5.34	4.65			NM			NM		5.28	4.86	
3/7/2019	5.29	5.36			NM			NM			NM			NM	
6/12/2019		NM		3.91	6.08		3.91	6.09		3.95	5.83		4.19	5.95	
12/27/2019	4.69	5.96		4.25	5.74		4.23	5.77		4.37	5.41		4.55	5.59	
	Abandoned			Abandoned			Abandoned			Abandoned			Abandoned		

WELL NO.	MW-28			MW-29			MW-30			MW-31			MW-32		
DIAMETER (IN)	2.00			2.00			2.00			2.00			2.00		
WELL DEPTH (FT)	13.00			13.00			13.00			13.00			13.00		
SCREEN INTERVAL	3.00-13.00			3.00-13.00			3.00-13.00			3.00-13.00			3.00-13.00		
TOC ELEVATION (FT)	10.53			10.65			10.61			10.50			10.33		
DATE	ELEV	DTW	FP												
	Installed 4/17/2017			Installed 4/17/2017			Installed 4/17/2017			Installed 4/17/2017			Installed 7/19/2017		
4/18/2017	3.79	6.74		3.85	6.80		3.79	6.82		3.73	6.77				
7/31/2017	5.37	5.16			NM			NM		5.31	5.19		5.35	4.98	
3/7/2019	5.26	5.27			NM			NM			NM		5.23	5.10	
6/12/2019	4.00	6.53		4.03	6.62		3.99	6.62		3.94	6.56		3.95	6.38	
12/27/2019	4.62	5.91		4.70	5.95		4.64	5.97		4.48	6.02		4.45	5.88	
	Abandoned			Abandoned			Abandoned			Abandoned			Abandoned		

WELL NO.	MW-33			MW-34D		
DIAMETER (IN)	2.00			2.00		
WELL DEPTH (FT)	13.00			30.00		
SCREEN INTERVAL	3.00-13.00			25.00-30.00		
TOC ELEVATION (FT)	10.46			10.51		
DATE	ELEV	DTW	FP	ELEV	DTW	FP
	Installed 7/19/2017			Installed 7/20/2017		
7/31/2017	5.34	5.12		5.20	5.31	
3/7/2019	5.23	5.23		4.80	5.71	
12/27/2019	4.56	5.90		4.86	5.65	
	Abandoned			Abandoned		

Appendix A

Field Notes
Well Completion Reports

Project Name: Margate CRA Gas Station
1921 N. SR 7
Margate, Broward County, Florida

FDEP ID # 06/8626276
City of Margate PO # 200465

GEAR Project #: 18-0610-2

Date: 12/27/2019

FDEP Site Manager: Matthew Theisen with Broward County Environmental Protection Commission
Phone # 954-519-0323

GEAR Mobilization: GEAR Ford F-150 from Longwood, Fl

Personnel: Steve Volpe

Start: 7:00 from hotel

Arrive On-Site: 7:30

Leave Site: 10:15

End: 14:15

Scope of Work:

Abandon all wells

<u>Well ID</u>	<u>DTW</u>
MW-22	6.00 6.00
MW-24	5.74
MW-25	5.77
MW-26	5.41
MW-27	5.59
MW-28	5.91
MW-29	5.95
MW-30	5.97
MW-31	6.02
MW-32	5.88
MW-33	5.90
MW-34D	5.65
MW-23	5.96

(150) Margate CRA Gas Station 12/27/19

7:00 moving to site from hotel

7:30 SValpe onsite for well abandonments; opening wells for DTW survey

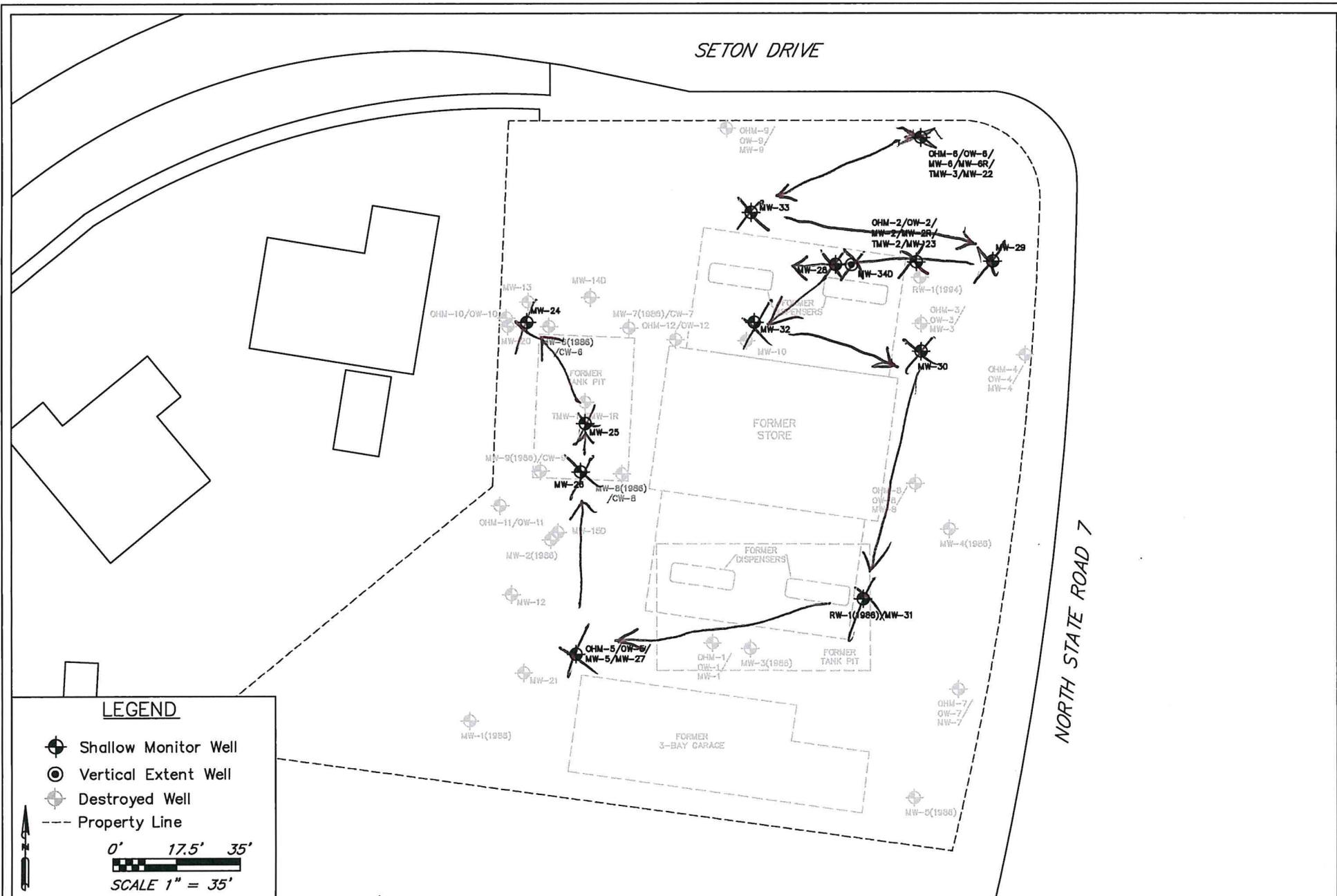
8:30 Preferred Drilling onsite

10:10 all 13 wells abandoned via tremmie method and backfilled w/ sand of top soil

10:15 pictures taken; demobing from site

14:15 @ lab dropping off Citgo samples; EOD

~~SValpe
12/27/19~~



LEGEND

- Shallow Monitor Well
- Vertical Extent Well
- Destroyed Well
- Property Line

0' 17.5' 35'

SCALE 1" = 35'

<p>Figure No. 2</p>	 <p>Gator Engineering & Aquifer Restoration, Inc.</p>	<p style="text-align: center;">SITE PLAN</p> <p style="text-align: center;">MARGATE CRA GAS STATION 1291 N SR 7 MARGATE, BROWARD COUNTY, FLORIDA FDEP FAC ID # 8626276</p>	<p>Drawn by: MH Revised by: MM Date: 6/28/2019 Scale: 1" = 35'</p>
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MW-22



MW-33





MW-29



MW-23





MW-28 & MW-34D



MW-32



MW-30



MW-31





MW-27



MW-26





MW-25



MW-24





STATE OF FLORIDA PERMIT APPLICATION TO CONSTRUCT, REPAIR, MODIFY, OR ABANDON A WELL

- Southwest
Northwest
St. Johns River
South Florida
Suwannee River
DEP
Delegated Authority (if Applicable) Broward

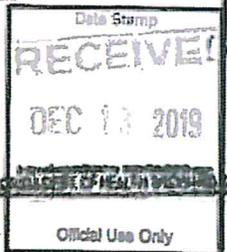
PLEASE FILL OUT ALL APPLICABLE FIELDS (Denotes Required Fields Where Applicable)

The water well contractor is responsible for completing this form and forwarding the permit application to the appropriate delegated authority where applicable.

Permit No. 10-19-875WP
Florida Unique ID
Permit Stipulations Required (See Attached)
62-524 Quad No. Delineation No.
CUP/WUP Application No.

1. Margate Community Redevelopment Agency, 5790 Margate Blvd, Margate, FL 33063
Owner, Legal Name If Corporation Address City State ZIP Telephone Number
2. 1291 North SR 7, Margate, FL
Well Location - Address, Road Name or Number, City
3. 4841 25 01 0190
Parcel ID No. (PIN) or Alternate Key (Circle One) Lot Block Unit
4. 25 48 41 Broward
Section or Land Grant Township Range County Subdivision Check If 62-524: Yes X No
5. Gregory W Campbell License Number Telephone Number E-mail Address
6. 8820 66th St Water Well Contractor's Address City State ZIP

7. Type of Work: Construction Repair Modification X Abandonment No Longer In Use
8. Number of Proposed Wells 8
9. Specify Intended Use(s) of Well(s):
Domestic Landscape Irrigation Agricultural Irrigation Site Investigation
Bottled Water Supply Recreation Area Irrigation Livestock X Monitoring
Public Water Supply (Limited Use/DOH) Nursery Irrigation Test
Public Water Supply (Community or Non-Community/DEP) Commercial/Industrial Earth-Coupled Geothermal
Class I Injection Golf Course Irrigation HVAC Supply
Class V Injection: Recharge Commercial/Industrial Disposal Aquifer Storage and Recovery Drainage
Remediation: Recovery Air Sparge Other (Describe)
Other (Describe)



10. Distance from Septic System If <=200 ft. N/A 11. Facility Description gas station 12. Estimated Start Date 12/27/19
13. Estimated Well Depth 13 ft. Estimated Casing Depth 3 ft. Primary Casing Diameter 2 in. Open Hole: From To ft.
14. Estimated Screen Interval: From 3 To 13 ft.
15. Primary Casing Material: Black Steel Galvanized X PVC Stainless Steel
Not Coated Other
16. Secondary Casing: Telescope Casing Liner Surface Casing Diameter in.
17. Secondary Casing Material: Black Steel Galvanized PVC Stainless Steel Other
18. Method of Construction, Repair, or Abandonment: Auger Cable Tool Jetted Rotary Sonic
Combination (Two or More Methods) Hand Driven (Well Point, Sand Point) Hydraulic Point (Direct Push)
Horizontal Drilling X Plugged by Approved Method Other (Describe)
19. Proposed Grouting Interval for the Primary, Secondary, and Additional Casing:
From 0 To 13 Seal Material (Bentonite X Neat Cement Other)
From To Seal Material (Bentonite Neat Cement Other)
From To Seal Material (Bentonite Neat Cement Other)
From To Seal Material (Bentonite Neat Cement Other)
20. Indicate total number of existing wells on site 13 List number of existing unused wells on site 13
21. Is this well or any existing well or water withdrawal on the owner's contiguous property covered under a Consumptive/Water Use Permit (CUP/WUP) or CUP/WUP Application? Yes X No If yes, complete the following: CUP/WUP No. District Well ID No.
22. Latitude Longitude
23. Data Obtained From: GPS X Map Survey

I hereby certify that I will comply with the applicable rules of Title 40, Florida Administrative Code, and that a water use permit or related recharge permit, if needed, has been or will be obtained prior to commencement of well construction. I further certify that all information provided in this application is accurate and that I will obtain necessary approval from either federal, state, or local governments, if applicable. I agree to provide a well completion report to the District within 30 days after completion of the construction, repair, modification, or abandonment authorized by this permit, or the permit expiration, whichever occurs first.
Signature of Contractor License No. 2613 Signature of Owner or Agent Date 12/13/19

Approval Granted By R. James Issue Date 12/13/19 Expiration Date 12/13/20 Hydrologist Approval Initials
Fee Received \$ 225.00 Receipt No. 8870 Check No. CC# 8598
THIS PERMIT IS NOT VALID UNTIL PROPERLY SIGNED BY AN AUTHORIZED OFFICER OR REPRESENTATIVE OF THE WMD OR DELEGATED AUTHORITY. THE PERMIT SHALL BE AVAILABLE AT THE WELL SITE DURING ALL CONSTRUCTION, REPAIR, MODIFICATION, OR ABANDONMENT ACTIVITIES.



STATE OF FLORIDA PERMIT APPLICATION TO CONSTRUCT, REPAIR, MODIFY, OR ABANDON A WELL

- Southwest
Northwest
St. Johns River
South Florida
Suwannee River
DEP
Delegated Authority (if Applicable)

PLEASE PRINT OR TYPE IN APPLICABLE FIELDS (Denotes Required Fields Where Applicable)

The water well contractor is responsible for completing this form and forwarding the permit application to the appropriate delegated authority where applicable.

Permit No. 16-19-87644
Florida Unique ID
Permit Stipulations Required (See Attached)
62-524 Quid No.
Delineation No.
CUP/WUP Application No.

1. Margate Community Redevelopment Agency, 5790 Margate Blvd, Margate, FL 33063
Owner, Legal Name if Corporation Address City State ZIP Telephone Number
2. 1291 North SR 7, Margate, FL
Well Location - Address, Road Name or Number, City
3. 4841 25 01 0190
Parcel ID No. (PIN) or Alternate Key (Circle One) Lot Block Unit
4. 25 48 41 Broward
Section or Land Grant Township Range County Subdivision Check if 62-524: Yes X No
5. Gregory W Campbell 2613 727-561-7477 shannon@pdsflorida.com
Water Well Contractor License Number Telephone Number E-mail Address
6. 8820 66th St Pinellas Park FL 33782
Water Well Contractor's Address City State ZIP

7. Type of Work: Construction Repair Modification X Abandonment No Longer in use
8. Number of Proposed Wells 5
Reason for Repair, Modification, or Abandonment
9. Specify Intended Use(s) of Well(s):

- Domestic Landscape Irrigation Agricultural Irrigation Site Investigation
Bottled Water Supply Recreation Area Irrigation Livestock X Monitoring
Public Water Supply (Limited Use/DOH) Nursery Irrigation Test
Public Water Supply (Community or Non-Community/DEP) Commercial/Industrial Earth-Coupled Geothermal
Class I Injection Golf Course Irrigation HVAC Supply
HVAC Return

Class V Injection: Recharge Commercial/Industrial Disposal Aquifer Storage and Recovery Drainage
Remediation: Recovery Air Sparge Other (Describe)
Other (Describe) (Note: Not all types of wells are permitted by a given permitting authority)

10. Distance from Septic System if <= 200 ft. N/A 11. Facility Description gas station 12. Estimated Start Date 12/27/19
13. Estimated Well Depth 23 ft. Estimated Casing Depth 13 ft. Primary Casing Diameter 2 in. Open Hole: From To ft.
14. Estimated Screen Interval: From 13 To 23 ft.

15. Primary Casing Material: Black Steel Galvanized X PVC Stainless Steel
Not Cased Other
16. Secondary Casing: Telescope Casing Liner Surface Casing Diameter in.

17. Secondary Casing Material: Black Steel Galvanized PVC Stainless Steel Other
18. Method of Construction, Repair, or Abandonment: Auger Cable Tool Jetted Rotary Sonic
Combination (Two or More Methods) Hand Driven (Well Point, Sand Point) Hydraulic Point (Direct Push)
Horizontal Drilling X Plugged by Approved Method Other (Describe)

19. Proposed Grouting Interval for the Primary, Secondary, and Additional Casing:
From 0 To 13 Seal Material (Bentonite X Neat Cement Other)
From To Seal Material (Bentonite Neat Cement Other)
From To Seal Material (Bentonite Neat Cement Other)
From To Seal Material (Bentonite Neat Cement Other)

20. Indicate total number of existing wells on site 13 List number of existing unused wells on site 13

21. Is this well or any existing well or water withdrawal on the owner's contiguous property covered under a Consumptive Water Use Permit (CUP/WUP) or CUP/WUP Application? Yes X No If yes, complete the following: CUP/WUP No. District Well ID No.

22. Latitude Longitude

23. Data Obtained From: GPS X Map Survey Datum: NAD 27 NAD 83 WGS 84
I hereby certify that I will comply with the applicable rules of Title 40, Florida Administrative Code, and that a water use permit or artificial recharge permit, if needed, has been or will be obtained prior to commencement of well construction. I further certify that all information provided in this application is accurate and that I will obtain necessary approval from other federal, state, or local governments, if applicable. I agree to provide a well completion report to the District within 30 days after completion of the construction, repair, modification, or abandonment authorized by this permit, or the permit stipulations, whichever occurs first.

Signature of Contractor Gregory Campbell License No. 2613 Signature of Owner or Agent Date 12/13/19

Approval Granted By R James Issue Date 12/13/19 Expiration Date 12/13/20 Hydrologist Approval
Fee Received \$ 125.00 Receipt No. 8870 Check No. CCH-8598

THIS PERMIT IS NOT VALID UNTIL PROPERLY SIGNED BY AN AUTHORIZED OFFICER OR REPRESENTATIVE OF THE WMD OR DELEGATED AUTHORITY. THE PERMIT SHALL BE AVAILABLE AT THE WELL SITE DURING ALL CONSTRUCTION, REPAIR, MODIFICATION, OR ABANDONMENT ACTIVITIES.