EXHIBIT 19 - PHASE 1 ENVIRONMENTAL SITE ASSESSMENT

ENVIRONMENTAL SITE ASSESSMENT ESA-1

FOR THE

OLLA INDUSTRIAL SITE

Prepared for: Meyer, Meyer, LaCroix & Hixson, Inc. Mr. Jacob Dillehay, P.E. 100 Engineer Place Alexandria, Louisiana 71303



1300 West Government Street Pensacola, Florida 32502

> Project No. 2003.001 January 2015

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1 Summary

A Phase I Environmental Site Assessment was conducted on the property known as the Olla Industrial Site which occupies approximately 51-acres situated south of Louisiana Highway 125 at the Olla Town Limits. The site is generally located in Section 34, Township 11 North, Range 2 East, LaSalle Parish Louisiana. The site's general location is shown in **Appendix 16.1**. The site itself is undeveloped. The general vicinity of the site is dominated by silvacultural land use and all properties adjoining the subject are undeveloped land.

A search of environmental databases for sites within the ASTM search radii generated no findings for the site, no findings for adjacent properties and no findings for vicinity properties. No Recognized Environmental Conditions associated with the subject property were identified as a result of review of environmental regulatory records.

A variety of maps and images depicting the subject property (dating to 1954) was readily available and reviewed for this assessment. All available imagery of the subject and adjoining properties show them to be undeveloped.

Inspection of the subject property revealed an unimproved, cleared parcel. The vegetation present appears to be young secondary growth suggesting that the site had been recently cleared of native vegetation. With the exception of a sanitary sewer lift station, no structures or improvements were noted. No pits, ponds, lagoons, soil piles, containers, pipes, or any other feature suggesting use, storage, or disposal of hazardous substances was observed. Accordingly, no evidence of recognized environmental conditions was recorded during the site inspection.

The conclusion of this assessment is:

Biome Consulting Group has performed a Phase I Environmental Site Assessment in general conformance with the scope and limitations of ASTM Practice E-1527-05 of the Olla Industrial. Any exceptions to, or deviations from, this practice are described in Section 2.4 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the property.

2 Introduction

This report is an instrument of service of Biome Consulting Group. The report presents the results of a Phase I Environmental Site Assessment (ESA) of the Olla Industrial Site located in Section 34, Township 11 North, Range 2 East, LaSalle Parish Louisiana. This ESA was performed for The Town of Olla who is the intended *User* of this report.

2.1 Purpose

This report provides the results of an assessment of the environmental condition of the subject real estate and is intended to constitute all appropriate inquiry for the purposes of qualifying the *Users* of this report for CERCLA's (Comprehensive Environmental Response,



Compensation and Liability Act) Landowner Liability Protections including: the *bona fide* prospective purchaser liability protection; contiguous property owner liability protection; and innocent landowner defense, assuming compliance with other elements of those defenses.

The conduct of this assessment was specifically intended to identify <u>Recognized</u> <u>Environmental Conditions</u> (REC) in connection with the subject property. For the purpose of this report, a Recognized Environmental Condition is defined as follows: the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substance or petroleum products into structures on the property or into the ground, ground water, or surface water of the property.

This report is not nor is it intended to be exhaustive. No environmental site assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property. This assessment report is intended to reduce, but not eliminate, uncertainty regarding the potential of recognized environmental conditions in connection with the subject property.

2.2 Detailed Scope-of-Services

Biome Consulting Group was contracted Meyer, Meyer, LaCroix & Hixson, Inc. on behalf of The Town of Olla to Complete a Phase I Environmental Site Assessment for the subject property in accordance with the guidelines set forth in ASTM Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (Designation E-1527-05). Additional services such as assessment of asbestos, lead, and radon or other environmental assessment services not identified as scope items in E-1527-05 were not included with this scope of services. A copy of the standard can be purchased from ASTM at http://www.astm.org.

2.3 Significant Assumptions

No significant assumptions were made in connection to the conduct of this assessment.

2.4 Limitations and Exceptions

Biome Consulting Group has endeavored to perform this assessment in general conformance with the guidelines established in ASTM E-1527-05 Environmental Site Assessments for Commercial Real Estate. The following constitute perceived deviations from that standard:

- 1. The objective of research to 1940 was not realized. A 1954 topographic map was the earliest record reviewed for this assessment.
- 2. At the request of the *User*, this assessment was conducted in less than 20-days, the period identified in the standard associated with reasonable ascertainability.



The findings and opinions conveyed via this ESA report are based on information obtained from a variety of sources enumerated herein, and which Biome Consulting Group believes is reliable. Nonetheless, Biome Consulting Group CANNOT AND DOES NOT GUARANTEE THE AUTHENTICITY OR RELIABILITY OF THE INFORMATION IT HAS RELIED UPON.

2.5 Special Terms and Conditions

The terms and conditions governing Biome Consulting Group's conduct of this assessment are detailed in the contract executed by the *User*. No special terms and conditions or deviations from Biome Consulting Group's standard terms and conditions were employed for this scope of services.

2.6 User Reliance

The Town of Olla is the *User* of this report. The identified *Users* are the only intended beneficiaries of this report and are the only parties to whom Biome Consulting Group has explained the risks involved and which have been involved in the shaping of the scope of services needed to satisfactorily manage those risks from the *Users*' point of view. Accordingly, reliance on this report by any party other than the *Users* would perforce result in reliance on assumptions whose extent and nature distort the meaning and impact of the findings and opinions related herein, in turn resulting in misinterpretation. Biome Consulting Group's findings and opinions relayed in this report may not be relied upon by any party except the *Users*. Biome Consulting Group is available to contract with other parties to develop findings and opinions related specifically to such other parties' unique risk management concerns.

3 Site Description

3.1 Location and Legal Description

Olla Industrial Site (**Appendix 16.1**) is approximately 51-acres located along the southern right of way of Louisiana Highway 125 (Tannehill Dr). The limits of the subject property and legal description are depicted in the survey included as **Appendix 16.2**.

3.2 Site and Vicinity General Characteristics

The site is located in a rural setting surrounded by silvacultural land uses. The commercial center of Olla is approximately one mile northeast of the site. The Louisiana Pacific Mill, 1.5 miles southwest of the sit, is the most prominent vicinity feature.

3.3 Current Use of the Property

The site is presently unimproved.

3.4 Descriptions of Structures, Roads, and Other Improvements

The unimproved property has no structures or roads. The site has been recently cleared and now presents as open field. An boundary survey and legal is included as **Appendix 16.2** and site photos are included in **Appendix 16.3**.



3.5 Current Uses of the Adjoining Properties

NORTH

Louisiana Highway 125 (Tannehill Drive) and undeveloped land

<u>EAST</u> Missouri Pacific Rail Road and undeveloped land

<u>SOUTH</u> Undeveloped land

<u>WEST</u> Undeveloped land

4 User Provided Information

4.1 Title Records

No title records were provided.

4.2 Environmental Liens or Activity and Use Limitations

No Environmental Liens or limitation data were provided.

4.3 Specialized Knowledge

Neither the *User* nor the environmental professional have specialized knowledge of the subject property.

4.4 Commonly Known or Reasonably Ascertainable Information

The property is not the subject of commonly known information.

4.5 Valuation Reduction for Environmental Issues

No information related to valuation was provided by the User.

4.6 Owner, Property Manager, and Occupant Information

The property is owned by The Town of Olla.

4.7 Reason for Performing Phase I

The Town of Olla is marketing this property for industrial development and wish to identify and resolve regulatory impediments to development. The *Users* also wish to document all appropriate inquiry for the purposes of applicable CERCLA Landowner Liability Protections. Other specific management decisions and business risk tolerance level were not disclosed to the environmental professional.



4.8 Other

No other information relating to the subject property was provided by the User.

5 Records Review

5.1 Standard Environmental Record Sources

Biome Consulting Group contracted Environmental Data Research (EDR) to search federal and state databases for the site and nearby properties. The standard environmental record sources searched by EDR and the approximate minimum search distances are referenced in the report which is included in **Appendix 16.5**.

5.2 Additional Environmental Record Sources

In addition to the standard environmental records sources, EDR produced tables of findings on proximal records (those outside the specified radii) and non-address records. These were reviewed during this assessment.

5.3 Physical Setting Source

Review of Topographic Maps- The 1984 U.S. Geologic Survey (USGS) 7.5 minute topographic map for the Olla West quadrangle was reviewed to provide information about the topography of the site. A copy of that map is reproduced in **Appendix 16.4b**. The map depicts sloping topography ranging from ca. 160' in the north to ca. 130' in the south. A first order creek bisects the property.

Site Geology- Geotechnical reports and information pertaining to on-site geologic conditions was not provided by the *User* for review by Biome Consulting Group during the performance of this Phase I ESA. According to the NRCS's Web Soil Survey the soil on the site is comprised of primarily fine sandy loam soils. A portion of the soil map is included in **Appendix 16.4**.

Groundwater Quality and Occurrence- From the 1984 USGS topographic map, the groundwater in the area of the property appears to flow in the southerly direction towards an unnamed first order tributary of Water Hole Branch. Louisiana Highway 125 north of the property appears to straddle a watershed boundary. Surface waters on the site occur at elevation in the vicinity of the site occur at an elevation of 130-feet suggesting that groundwater on-site occurs between 0 and 30-feet below ground's surface.

5.4 Historical Use Information on the Property

Historic Maps- Aerial photography of the subject and vicinity is limited and not digitally available, thus not reasonably ascertainable within the limitations articulated in Section 2.4. Historic documents reviewed for this assessment were limited to historic topo maps and soil maps. The 1954 USGS 15 minute topographic map of the Tullos quadrangle was the earliest image reviewed. The 1984 USGS 7.5 minute topographic map of the Olla West



quadrangle was also reviewed. Aerial photographs from 1998, 2010, and 2013 were also reviewed. Reproductions of these maps are included in **Appendix 16.4**.

Observations of the subject property from these images are as follows:

- 1954 Topo No structures or features indicated
- 1984 Topo No structures or features indicated
- 1998 Aerial Vegetated / undeveloped. Pipeline bisecting property
- 2010 Aerial– Cleared / Undeveloped-bare soil. Pipeline bisecting property
- 2013 Aerial Cleared / Undeveloped-regrowth. Pipeline bisecting property

5.5 Historical Use Information on the Adjoining Properties

Historic maps-

- 1954 Topo No structures or features indicated
- 1984 Topo No structures or features indicated
- 1998 Aerial Undeveloped
- 2010 Aerial– Undeveloped
- 2013 Aerial Undeveloped

6 Site Reconnaissance

6.1 Methodology and Limiting Conditions

The site was inspected on January 13, 2015. Photos of the site included in **Appendix 16.3** were taken on that day. The site, having been cleared, was easily accessible and the soil's surface visible / unobstructed.

6.2 General Site Setting

The site was obviously historically cleared. No historic use other than silvaculture was apparent during the inspection.

6.3 Exterior Observations

The unimproved property has no structures.

6.4 Interior Observations

The unimproved property has no structures.

7 Interviews

7.1 Interview with Owner

Mayor Rhonda Elliott was interviewed as the representative of The Town of Olla, the property's owner. The following paraphrases the information obtained from Mayor Elliott.



Mayor Elliott, 61 years of age, has lived in Olla her entire life. She was recently elected to the office of Mayor and is very familiar with the vicinity and the subject property. The site was unimproved woodland until approximately 2009 when the site was selected and cleared for the construction of a detention center. The project did not come to fruition and has remained unimproved to date. The site is serviced by rail is proximate to a natural gas supply, but electric service has not yet been routed to the property. A sanitary sewer lift stations is present on the property, but is not yet been electrified.

Mayor Elliott stated that she is unaware of any use, storage, or disposal of petroleum products or hazardous substances on the property. When asked about vicinity activities that might have negatively affected the site, she indicated that, to her knowledge, nothing in the area may have affected the site. She had never known there to be a spill or derailment in the vicinity of Olla.

7.2 Interview with Site Manager

The undeveloped land had no site manager.

7.3 Interview with Occupants

The undeveloped land had no occupants.

7.4 Interview with Local Government Officials

The mayor, the most senior local official, was interviewed as owner.

7.5 Interview with Others

No one other than those indicated was interviewed.

8 Findings

This Environmental Site Assessment has revealed the following findings:

Vicinity:

• None

Adjacent:

• None

Site:

• None

9 Opinion

The environmental professional who has conducted the site visit and reviewed the results of the data collection effort offers the following opinions:

The subject is an undeveloped property surrounded by undeveloped property in a rural setting. The environmental database review yielded no regulatory documentation for the vicinity relating to petroleum or hazardous waste generation, storage, or disposal. Review



of historic images failed to identify any historic use of the property other than silvaculture. The site reconnaissance showed an unimproved, undeveloped property. No evidence of any use, storage, or disposal of hazardous substances or petroleum products was observed.

10 Conclusion

Biome Consulting Group has performed a Phase I Environmental Site Assessment in general conformance with the scope and limitations of ASTM Practice E-1527-05 of the Olla Industrial. Any exceptions to, or deviations from, this practice are described in Section 2.4 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the property.

11 Deviations

No deviations other than those listed in **Section 2.4** were made

12 Additional Services

This assessment is limited to the scope identified in **Section 2.2**. No additional services were included.

13 References

Materials utilized in the conduct of this assessment were obtained from the following sources:

- Environmental Data Research ASTM Environmental Database Search Product
- The United States Department of Agriculture Web Soil Survey-Soil Map
- The United States Geological Service-Topo Maps, Aerial Photographs

14 Signature of Environmental Professional

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental professional as defined in 312.10 of 40 CFR 312 and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

I have conducted and / or reviewed this assessment and support the data and conclusions contained therein.

Glen A. Miley, Founding Partner Biome Consulting Group January 22, 2015 Date



15 Qualifications of Environmental Professional

This Environmental Site Assessment Report has been prepared and or reviewed by Glen A. Miley. Mr. Miley's qualifications meet or exceed the definition of Environmental Professional in X2 of ASTM E 1527-05 pursuant to 40 CFR 10.

Glen A. Miley is a general partner of the firm Biome Consulting Group, a regionally wellknown environmental consulting company. As a founding executive of the firm, his position requires the highest level of responsibility and client accountability in the performance of a variety of ecological and environmental regulatory-compliance consulting services. The scope of these services includes a variety of applied ecological studies, environmental site assessments, land use planning consulting, and environmental permitting. Prior to founding Biome Consulting Group, Mr. Miley served as Founder and Principal Consultant at Edmisten & Associates. In that position, Mr. Miley performed a substantial number of environmental studies including Environmental Site Assessments over a period of seventeen years. He has at least twenty years' experience in the conduct of Phase I Environmental Site Assessments.

Mr. Miley has been conferred the Bachelor of Science degree by the University of Alabama and the Master of Science degree by the University of South Alabama. Additionally, he has received classroom training from the ASTM on the standards for "Environmental Site Assessments for Commercial Real Estate" and field training in the conduct of Environmental Site Assessments from several Professional Geologists and Professional Engineers. Mr. Miley's *Curriculum Vitae*, which details all aspects of his training and experience is included in **Appendix 16.8** to this report.



16 Appendices

16.1 Vicinity Map

16.2 Site Plan

16.3 Site Photographs

16.4 Historical Research Documentation

16.4a Tax Card
16.4b Topographic Map
16.4c Soil Map
16.4d Title Records
16.4e Historic Aerial Photographs and Other Maps

- 16.5 Regulatory Records Documentation
- 16.6 Interview Documentation
- 16.7 Special Contractual Conditions
- 16.8 Qualifications of the Environmental Professional



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16.1 Vicinity Map



16.2 Site Plan



16.3 Site Photographs



Photo 1 View of Olla Industrial Site



Photo 2 View of north adjacent undeveloped land



Photo 3 View of east adjacent undeveloped land



Photo 4 View of east adjacent railroad



Photo 5 View of south adjacent undeveloped land



Photo 6 View of west adjacent undeveloped land



Photo 7 Looking south along western boundary from near northwest property corner



Photo 8 Looking north along western boundary from near southwest property corner



Photo 9 Looking east along southern boundary from near southwest property corner



Photo 10 Looking west along southern boundary from near southeast property corner



Photo 11 Looking north along eastern boundary from near southeast property corner



Photo 12 Looking south along eastern boundary from near east central property corner



Photo 13 Looking west along interior northern boundary from near east central property corner



Photo 14 Looking east along interior northern boundary form near interior property corner



Photo 15 Looking north along eastern boundary from near interior property corner



Photo 16 Looking south along eastern boundary from near northeast property corner



Photo 17 Looking west along northern boundary from near northeast property corner



Photo 18 View of sanitary sewer lift station located near center of southern boundary

16.4a Tax Card

NOT AVAILABLE

16.4 Historical Research Documentation

16.4b Topographic Map



16.4c Soil Map



16.4d Title Records
NOT AVAILABLE

16.4e Historic Aerial Photographs and other Maps









16.5 Regulatory Records Documentation

Olla

1504-1543 W FRONT ST Olla, LA 71465

Inquiry Number: 4177990.2s January 09, 2015

FirstSearch Report



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

Search Summary Report

TARGET SITE	1504-1543 W FRONT ST
	OLLA, LA 71465

Category	Sel	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTALS
	N/	0	0	0	0	0	0	0
NPL NPL Delisted	Y	0	0	0	0	0	0	0
	Y	0	0	0	0	0	0	0
CERCLIS	Y	0	0	0	0	-	1	1
NFRAP	Y	0	0	0	0	-	0	0
RCRA COR ACT	Y	0	0	0	0	0	0	0
RCRA TSD	Y	0	0	0	0	-	0	0
RCRA GEN	Y	0	0	0	-	-	0	0
Federal IC / EC	Y	0	0	0	0	-	0	0
ERNS	Y	0	-	-	-	-	0	0
State/Tribal CERCLIS	Y	0	0	0	0	0	0	0
State/Tribal SWL	Y	0	0	0	0	-	0	0
State/Tribal LTANKS	Y	0	0	0	0	-	0	0
State/Tribal Tanks	Y	0	0	0	-	-	0	0
State/Tribal IC / EC	Y	0	0	0	0	-	0	0
State/Tribal VCP	Y	0	0	0	0	-	0	0
ST/Tribal Brownfields	Y	0	0	0	0	-	0	0
US Brownfields	Y	0	0	0	0	-	0	0
Other Haz Sites	Y	0	-	-	-	-	0	0
Spills	Y	0	-	-	-	-	0	0
Other	Y	0	0	0	-	-	0	0
	- Totals	0	0	0	0	0	1	1

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Search Summary Report

TARGET SITE:1504-1543 W FRONT ST
OLLA, LA 71465

Category	Database	Update	Radius	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTALS
NPL	NPL	09/29/2014	1.000	0	0	0	0	0	0	0
	Proposed NPL	09/29/2014	1.000	0	0	0	0	0	0	0
NPL Delisted	Delisted NPL	09/29/2014	1.000	0	0	0	0	0	0	0
CERCLIS	CERCLIS	10/25/2013	0.500	0	0	0	0	-	1	1
NFRAP	CERC-NFRAP	10/25/2013	0.500	0	0	0	0	-	0	0
RCRA COR ACT	CORRACTS	06/10/2014	1.000	0	0	0	0	0	0	0
RCRA TSD	RCRA-TSDF	06/10/2014	0.500	0	0	0	0	-	0	0
RCRA GEN	RCRA-LQG	06/10/2014	0.250	0	0	0	-	-	0	0
	RCRA-SQG	06/10/2014	0.250	0	0	0	-	-	0	0
	RCRA-CESQG	06/10/2014	0.250	0	0	0	-	-	0	0
Federal IC / EC	US ENG CONTROLS	09/18/2014	0.500	0	0	0	0	-	0	0
	US INST CONTROL	09/18/2014	0.500	0	0	0	0	-	0	0
ERNS	ERNS	09/29/2014	TP	0	-	-	-	-	0	0
State/Tribal CERCLIS	SHWS	10/20/2014	1.000	0	0	0	0	0	0	0
State/Tribal SWL	SWF/LF	09/15/2014	0.500	0	0	0	0	-	0	0
State/Tribal LTANKS	LUST	10/20/2014	0.500	0	0	0	0	-	0	0
	HIST LUST	11/01/1999	0.500	0	0	0	0	-	0	0
	INDIAN LUST	02/01/2013	0.500	0	0	0	0	-	0	0
State/Tribal Tanks	UST	10/24/2014	0.250	0	0	0	-	-	0	0
	INDIAN UST	02/01/2013	0.250	0	0	0	-	-	0	0
State/Tribal IC / EC	AUL	10/18/2010	0.500	0	0	0	0	-	0	0
State/Tribal VCP	VCP	10/21/2014	0.500	0	0	0	0	-	0	0
ST/Tribal Brownfields	BROWNFIELDS	10/20/2014	0.500	0	0	0	0	-	0	0
US Brownfields	US BROWNFIELDS	09/22/2014	0.500	0	0	0	0	-	0	0

Search Summary Report

Category	Database	Update	Radius	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTALS
Other Haz Sites	US CDL	07/25/2014	TP	0	-	-	-	-	0	0
Spills	HMIRS	09/30/2014	TP	0	-	-	-	-	0	0
-	SPILLS	08/15/2014	TP	0	-	-	-	-	0	0
	SPILLS 90	10/30/2012	TP	0	-	-	-	-	0	0
Other	RCRA NonGen / NLR	06/10/2014	0.250	0	0	0	-	-	0	0
	TRIS	12/31/2011	TP	0	-	-	-	-	0	0
	TSCA	12/31/2006	TP	0	-	-	-	-	0	0
	FTTS	04/09/2009	TP	0	-	-	-	-	0	0
	SSTS	12/31/2009	TP	0	-	-	-	-	0	0
	ICIS	07/31/2014	TP	0	-	-	-	-	0	0
	PADS	07/01/2014	TP	0	-	-	-	-	0	0
	MLTS	07/22/2013	TP	0	-	-	-	-	0	0
	RADINFO	10/07/2014	TP	0	-	-	-	-	0	0
	FINDS	08/16/2014	TP	0	-	-	-	-	0	0
	RAATS	04/17/1995	TP	0	-	-	-	-	0	0
	INDIAN RESERV	12/31/2005	1.000	0	0	0	0	0	0	0
	PRP	10/25/2013	TP	0	-	-	-	-	0	0
	US AIRS	10/16/2014	TP	0	-	-	-	-	0	0
	- Totals			0	0	0	0	0	1	1

TARGET SITE:1504-1543 W FRONT ST
OLLA, LA 71465

Site Information Report

Request Date:	JANUARY 9, 2015	Search Type:	COORD
Request Name:	GLEN MILEY	Job Number:	NA

1504-1543 W FRONT ST OLLA, LA 71465

Site Location

	Degrees (Decimal)	Degrees (Min/Sec)	UTMs
Longitude:	92.259600	92.2596000 - 92° 15' 34.56''	Easting: 570017.2
Latitude:	31.894300	31.8943000 - 31° 53' 39.48''	Northing: 3528771.5
Elevation:	150 ft. above sea level		Zone: Zone 15

Demographics

ADON		Non-Geocodeo	d: 1	Population:
Federal EPA Radon Zon	e for LA SALLE County	: 3		
: Zone 2 indoor a	verage level > 4 pCi/L. iverage level >= 2 pCi/L iverage level < 2 pCi/L.	. and <= 4 pCi/L.		
Federal Area Radon Info	rmation for Zip Code:	71465		
Number of sites tested: 2				
Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor Living Area - 2nd Floor Basement	0.350 pCi/L Not Reported Not Reported	100% Not Reported Not Reported	0% Not Reported Not Reported	0% Not Reported Not Reported
Federal Area Radon Info	rmation for LA SALLE C			
Number of sites tested: 1	0		0(4 00 - 0;#	0(, 00 ≂ 0://
		% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L

Site Information Report

RADON

State Database: LA Radon

Radon Test Results

Parish Avg pCi/L Total Sites

LA SALLE 0.29000 10

Target Site Summary Report

Target Property:	1504-1543 W FRONT ST OLLA, LA 71465	JOB: NA			
TOTAL: 1	GEOCODED: 0	NON GEOCODED: 1			
DB Type Map IDID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.

No sites found for target address

Sites Summary Report

Tar	rget Property:	1504-1543 W FRONT ST OLLA, LA 71465	JOB: NA			
ΤΟΤΑ	AL: 1	GEOCODED: 0	NON GEOCODED: 1			
Map ID	DB Type ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
	CERCLIS LAN00060734	UP TRAIN DERAILMENT-TULLOS, LA 11	INTERSECTION OF I-84 AND TULLOS, LA 71479	NON GC	N/A	N/A

NO SITES FOUND

Database Descriptions

NPL: NPL National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices. NPL - National Priority List Proposed NPL - Proposed National Priority List Sites.

NPL Delisted: DELISTED NPL The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate. DELISTED NPL - National Priority List Deletions

CERCLIS CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL. CERCLIS - Comprehensive Environmental Response, Compensation, and Liability Act (Section 2014).

NFRAP: CERCLIS-NFRAP Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site. CERCLIS-NFRAP - CERCLIS No Further Remedial Action Planned

RCRA COR ACT: CORRACTS CORRACTS identifies hazardous waste handlers with RCRA corrective action activity. CORRACTS - Corrective Action Report

RCRA TSD: RCRA-TSDF RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste. RCRA-TSDF - RCRA - Treatment, Storage and Disposal

RCRA GEN: RCRA-LQG RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. RCRA-LQG - RCRA - Large Quantity Generators RCRA-SQG - RCRA - Small Quantity Generators. RCRA-CESQG - RCRA - Conditionally Exempt Small Quantity Generators.

Federal IC / EC: US ENG CONTROLS A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health. US ENG CONTROLS - Engineering Controls Sites List US INST CONTROL - Sites with Institutional Controls.

ERNS: ERNS Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances. ERNS - Emergency Response Notification System

Database Descriptions

State/Tribal CERCLIS: SHWS Confirmed status denotes that assessments have been performed and a determination made that (1) hazardous waste(s) or substance(s) are present at the site and (2) these sites are under the jurisdiction of the LDEQ/RSD. Potential status is an indicator that sites are either waiting to be assessed or the assessment is in progress. SHWS - Potential and Confirmed Sites List

State/Tribal SWL: SWF/LF Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites. SWF/LF - Landfill List

State/Tribal LTANKS: LUST Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. LUST - Leaking Underground Storage Tanks HIST LUST - Underground Storage Tank Case History Incidents. INDIAN LUST R10 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R7 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R7 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R5 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R6 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R6 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R8 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R8 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R8 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R8 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R8 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R8 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R8 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R8 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R8 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R8 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R8 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R8 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R8 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R8 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R8 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R8 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R8 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R8 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R8 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R8 - L

State/Tribal Tanks: UST Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program. UST - Louisiana Underground Storage Tank Database INDIAN UST R4 - Underground Storage Tanks on Indian Land. INDIAN UST R9 - Underground Storage Tanks on Indian Land. INDIAN UST R8 - Underground Storage Tanks on Indian Land. INDIAN UST R7 - Underground Storage Tanks on Indian Land. INDIAN UST R10 - Underground Storage Tanks on Indian Land. INDIAN UST R1 - Underground Storage Tanks on Indian Land. INDIAN UST R6 - Underground Storage Tanks on Indian Land. INDIAN UST R5 - Underground Storage Tanks on Indian Land. INDIAN UST R6 - Underground Storage Tanks on Indian Land. INDIAN UST R5 - Underground Storage Tanks on Indian Land.

State/Tribal IC / EC: AUL A notice of contamination (nature and levels of contaminants) and restriction of property to non-residential use are placed in the conveyance records for the property. AUL - Listing of Institutional and/or Enginnering Controls

State/Tribal VCP: VCP Sites that have entered the Department of Environmental Quality's Voluntary Remediation Program VCP - Voluntary Remediation Program Sites

ST/Tribal Brownfields: BROWNFIELDS Brownfields are abandoned, idled, or underused industrial or commercial real property, the expansion, redevelopment or reuse of which may be complicated by the presence of or potential presence of a hazardous substance, pollutant, or contaminant. BROWNFIELDS - Brownfields Inventory

US Brownfields: US BROWNFIELDS Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs. US BROWNFIELDS - A Listing of Brownfields Sites

Other Haz Sites: US CDL A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments. US CDL - Clandestine Drug Labs

Database Descriptions

Spills: HMIRS Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT. HMIRS - Hazardous Materials Information Reporting System SPILLS - Emergency Response Section Incidents. SPILLS 90 - SPILLS90 data from FirstSearch.

Other: RCRA NonGen / NLR RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste. RCRA NonGen / NLR - RCRA - Non Generators TRIS - Toxic Chemical Release Inventory System. TSCA - Toxic Substances Control Act. FTTS - FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act). FTTS INSP - FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act). FTTS INSP - FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act). STS - Section 7 Tracking Systems. ICIS - Integrated Compliance Information System. PADS - PCB Activity Database System. MLTS - Material Licensing Tracking System. RADINFO - Radiation Information Database. FINDS - Facility Index System/Facility Registry System. RAATS - RCRA Administrative Action Tracking System. BRS - Biennial Reporting System. INDIAN RESERV - Indian Reservations. PRP - Potentially Responsible Parties. FEDLAND - Federal and Indian Lands. US AIRS MINOR - Air Facility System Data. US AIRS (AFS) - Aerometric Information Retrieval System Facility Subsystem (AFS).

Database Sources

NPL: EPA	
Update	ed Quarterly
NPL Delisted: EPA	
Update	ed Quarterly
CERCLIS: EPA	
	ed Quarterly
NFRAP: EPA	
	ed Quarterly
opuar	su quarteny
RCRA COR ACT: EPA	
Update	ed Quarterly
RCRA TSD: Environmental Pro	tection Agency
Update	ed Quarterly
RCRA GEN: Environmental Pro	tection Agency
Update	ed Quarterly
Federal IC / EC: Environmental	Protection Agency
Varies	
ERNS: National Response Cen	
Update	ed Annually
State/Tribal CERCLIS: Departm	ent of Environmental Quality
Update	ed Quarterly
State/Tribal SWL: Department of	of Environmental Quality
Update	ed Annually
State/Tribal LTANKS: Departme	ant of Environmental Quality
Varies	
Valies	
State/Tribal Tanks: Department	of Environmental Quality

Updated Quarterly

Database Sources

State/Tribal IC / EC: Department of Environmental Quality

Updated Quarterly

State/Tribal VCP: Department of Environmental Quality

Varies

ST/Tribal Brownfields: New Orleans Office of Environmental Affairs Updated Quarterly

US Brownfields: Environmental Protection Agency Updated Semi-Annually

Other Haz Sites: Drug Enforcement Administration Updated Quarterly

Spills: U.S. Department of Transportation

Updated Annually

Other: Environmental Protection Agency

Varies

Street Name Report for Streets near the Target Property

Target Property:	1504-1543 W FRONT ST
	OLLA, LA 71465

JOB: NA

Street Name	Dist/Dir	Street Name	Dist/Dir
State Hwy 124 State Hwy 125	0.03 NNW 0.18 WSW		

Environmental FirstSearch 1.000 Mile Radius

ASTM MAP: NPL, RCRACOR, STATES Sites



1504-1543 W FRONT ST OLLA, LA 71465



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

- Target Property (Latitude: 31.8943 Longitude: 92.2596) *
- Identified Sites ۸
- Indian Reservations BIA - 1 -
- **National Priority List Sites**

Environmental FirstSearch 0.500 Mile Radius

ASTM MAP: CERCLIS, RCRATSD, LUST, SWL



1504-1543 W FRONT ST OLLA, LA 71465



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

- ★ Target Property (Latitude: 31.8943 Longitude: 92.2596)
- 🔺 Id
- Identified Sites
- Indian Reservations BIA

National Priority List Sites

Environmental FirstSearch 0.25 Mile Radius ASTM MAP: RCRAGEN, ERNS, UST, FED IC/EC, METH LABS



1504-1543 W FRONT ST OLLA, LA 71465



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

- ★ Target Property (Latitude: 31.8943 Longitude: 92.2596)
- 🔺 Ider
- Identified Sites
 - Indian Reservations BIA

National Priority List Sites

Environmental FirstSearch 0.25 Mile Radius

0.25 Mile Radius Non ASTM Map, Spills, FINDS



1504-1543 W FRONT ST OLLA, LA 71465



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

- ★ Target Property (Latitude: 31.8943 Longitude: 92.2596)
- Identified Sites
- Indian Reservations BIA
- Sensitive Receptors
- National Priority List Sites





1504-1543 W FRONT ST OLLA, LA 71465



Map Image Position: TP Map Reference Code & Name: 31092-H3 Olla West Map State(s): LA Modified Date: 1984 Map Image Position: E Map Reference Code & Name: 31092-H2 Olla East Map State(s): LA Modified Date: 1984

16.6 Interview Documentation

Mayor Rhondu Elliot Responses recorded by Gien miler User Questionnaire Via tolophone 2:20 pm 1/21/2015

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001, the User must provide the following information (if available) to the Environmental Professional. Failure to provide this information could result in a determination that all appropriate inquiry is not complete.

1. Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).

Are you aware of any environmental cleanup liens against the property?

2. Activity and land use limitations (AUL) that are in place on the site or that have been filed or recorded in the registry (40 CFR 312.26).

Are you aware of any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry?

3. Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).

As the User of this ESA do you have any specialized knowledge or experience related to the property or near-by properties? For example, are you involved in the same line of business as the current or former occupants so that you would have specialized knowledge of the chemicals and processes used by that type of business?

NO

 Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29).

Does the purchase price being paid for the property reasonably reflect the fair market value? If you conclude that there is a difference, have you considered whether the lower price is because contamination is known or believed to be present?

5. Commonly known or reasonable ascertainable information about the property (40 CFR 312.30).

Are you aware of commonly known or reasonably ascertainable information about the property that would help the Environmental Professional to identify conditions indicative of releases or threatened releases? For example, as User:

a. Do you know the past uses of the property?

1NO

NO

b. Do you know of specific chemicals that are present or once were present at the property?

c. Do you know of spills or other chemical releases that have taken place at the property? $\sqrt{3}$

d. Do you know of any environmental cleanups that have taken place at the property? NO

6. The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31)

As the User of this ESA, based on you knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination?

User Initial

16.7 Special Contractual Conditions

NONE

16.8 Qualifications of the Environmental Professional



Curriculum Vitae

Glen Adams Miley

831 Bay Cliffs Road Gulf Breeze, Florida 32561 (850) 221-9415

BIRTHDATE: October 28, 1968 BIRTHPLACE: Mobile, Alabama

EDUCATION:

Master of Science, College of Arts and Sciences, The University of South Alabama, May 1996. Thesis: Patterns of sulfate reduction in the sediments of a *Juncus roemerianus* marsh. GPA: 3.8 (4.0 scale)

Bachelor of Science, College of Arts and Sciences, The University of Alabama, May 1993. Major: Biology Member Beta Beta Beta: national biology honor society

TRAINING:

- 1996 Bishop State Community College: Introduction to Geographic Information Systems using Arc View[®] 2.1
- 1997 Florida Association of Environmental Soil Scientists: Identification of Hydric Soils of Florida
- 1997 Hillsborough Community College: Inter-Agency Basic Prescribed Fire Training
- 1998 Conference: Florida Land Acquisition and Management Palm Coast, Florida.
- 1999 Conference: Second Annual National Wetland Mitigation Banking Conference Atlanta, Georgia.
- 2000 Florida Association of Environmental Soil Scientists: Identification of Hydric Soils of Florida
- 2001 Hillsborough Community College: Techniques for Large Scale Ecological Restoration
- 2002 The Seminar Group: Southeast Wetlands and Water Law
- 2002 University of Florida: Forestry and Natural Resources Field Day
- 2003 ASTM Technical Training: Environmental Site Assessments for Commercial Real Estate
- 2003 US Fish and Wildlife Service: Property Record Analysis training
- 2004 Conference: Seventh Annual National Wetland Mitigation Banking Conference New Orleans, LA.
- 2007 ASTM Technical Training: Environmental Site Assessments for Commercial Real Estate-Phase I & II
- 2008 University of Florida: Introduction to Stream Restoration Using Natural Channel Design Techniques
- 2009 Weeks Bay Foundation: Submerged Aquatic Vegetation Workshop
- 2009 Society of Ecological Restoration: Ecological Restoration of Coastal Habitats
- 2010 North Carolina State University: Advanced Problems in Hydric Soil Identification
- 2010 Gulf of Mexico Alliance: Techniques for Creating Living Shorelines
- 2010 Florida Fish & Wildlife Conservation Commission: Wildlife Observer Training

ADDITIONAL

TRAINING:

2010	Dr. Robert Mohlenbrock: Plant Identification in Wetland and Transitional Habitats of the
	Mississippi Gulf Coast

- 2010 Gulf of Mexico Alliance: "Get the Grant!" Funding your coastal Community Resiliency, Green Infrastructure or Coastal Restoration Project"
- 2013 Dr. Andre Clewell: Restoration of Coastal Ecosystems
- 2014 Longleaf Medical Training: Wilderness First Aid

EMPLOYMENT:

Biome Consulting Group: December 2014 – Present

<u>Principal Ecological Consultant</u> As a founding principal and managing partner of the firm, this position requires the highest level of responsibility and client accountability in the performance of ecological and environmental regulatory compliance consulting services. The scope of these services includes a wide variety of applied ecological studies, ecological restoration, environmental site assessments, land use planning consulting, and environmental permitting.

Edmisten& Associates, Ecological Consultants: March 1997 – December 2014 <u>Certified Professional Wetland Scientist</u> Founding partner of the firm, this position included pioneering work in environmental regulatory compliance consulting including: implementing the first mitigation bank in Northwest Florida; first successful intra-dunal swale restoration on Santa Rosa Island; first Section 10 and Section 7 permits for the Perdido Key Beach Mouse; along with hundreds of individual permits and thousands of site surveys.

TRS Staffing Solutions, Inc.: July 2010 – September 2010

<u>Wildlife Observer</u> A constituent of the response to the Deepwater Horizon incident. Responsibilities include observing spill clean-up activities to document impact to protected natural resources and compliance with established Best Management Practices.

Volkert Environmental Group, Inc.: March 1996 – March 1997

Environmental Scientist Responsibilities included all aspects related to project development and environmental studies including conceptual design, data collection and analysis, and preparation of technical reports. Environmental studies performed by Mr. Miley include: general environmental studies (e.g. NEPA Environmental Assessments, Phase I Environmental Site Assessments), habitat identification studies (e.g. wetland delineation, submerged aquatic vegetation studies, threatened and endangered species studies, oyster reef studies), and permitting services (e.g. NPDES storm water permits, wetland dredge and fill permits, Alabama coastal zone permits).

The Marine Environmental Sciences Consortium, 1993 –1996

Biogeochemist. Primary investigator of the biogeochemistry of sulfur and iron in marine intertidal sediments. This work involved much quantitative analysis and the use of several analytical instruments including: gas chromatograph, high performance liquid chromatograph, and spectrophotometer.

<u>Wetlands Ecologist</u>. Assistant to the primary investigator in the development and maintenance of a wetlands functional assessment program. The project involved monitoring and analyses of several biological and physical parameters of a man-made and reference salt marshes.

	The University of Alabama Department of Biology, 1990 - 1992 <u>Limnology Laboratory Technician</u> . Responsible for maintenance of hydroponic macrophyte cultures, performance of various experiments, collecting and compiling data, and general laboratory maintenance.
	Entomology Laboratory Technician. Responsible for collecting and sorting benthic faunal samples.
	The United States Army, 1987 – 1990 <u>Musician</u> . Enlisted rank of Specialist, was a member of 4 th Army Band at Fort Sheridan, Illinois and the 98 th Army Band at Fort Rucker, Alabama. Twice decorated with the Army Achievement Medal for excellence in the performance of duties and demonstration of exceptional leadership. During basic training Mr. Miley was a platoon leader and was selected and decorated as "Soldier of the Cycle" for exceptional leadership.
P UBLICATIONS:	
	Regulatory Guidance Following Landmark Court Case May Affect Federal Wetland Jurisdiction. Cornerstone, Nicholson Publishing, July 2007: 11.
	Patterns of Sulfate Reduction in the sediments of a <i>Juncus roemerianus</i> marsh, University of South Alabama, June 1996.
	Miley, G.M. & R.P. Kiene (2004) Sulfate Reduction and Porewater Chemistry in a Gulf Coast <i>Juncus roemerianus</i> (Needlerush) Marsh. <i>Estuaries</i> 27(3):472-481.
LECTURES:	
	Aspects of wetland biogeochemistry in the northern Gulf of Mexico, Wetland Biogeochemistry Institute annual meeting, New Orleans, Louisiana March, 1996.
	Wetland jurisdictional determination and permitting in Northwest Florida, South Walton Area Realtors Association, Destin Florida, 2003.
PROFESSIONAL AFFILIATION:	
	Society of Wetland Scientists Society for Ecological Restoration Florida Association of Environmental Soil Scientists
P ROFESSIONAL	
C ERTIFICATION:	Professional Wetland Scientist (PWS #0001240) – This certification is awarded by the Society of Wetland Scientists based on a peer review of the applicant's education, experience, and contribution to wetland science.
	Certified Prescribed Burn Manager – This certification is awarded by the Florida Department of Agriculture to applicants qualified to utilize prescribed fire in the state of Florida.
	Deepwater Horizon Incident- Wildlife Observer.
D ATA:	Mr. Miley is a certified and experienced SCUBA diver and is certified in CPR.