



# MCCULLEY MARINE SERVICES, INC.

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*The Artificial Reef Builders*

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Artificial Reef Resume  
1979 to Present Day

“On the bottom, upright, and on the numbers”

Most weight deployed in one day: 4,043.36 tons

Over course of the last two decades McCulley Marine Services’ vessels and crews have participated in **131** individual artificial reef projects deploying over **650** barge loads totaling over **300,000** tons of artificial reef material. Additionally we have sunk dozens of ships, tugs, and barges as artificial reefs.

## **131. January – Current 2015 Collier County, City of Naples, City of Marco Island**

An ongoing project that will ultimately total more than 36 individual deployments, we have thus far made thirty deployments totaling 15,000 tons of mixed concrete materials of opportunity and limestone boulders. The project also includes the manufacture and deployment of twelve 6,000 lb Florida Limestone Reef Modules. This effort is a partnership between Collier County, the City of Naples, and the City of Marco Island and is being billed as the Paradise Reef, one of the largest in the Western Hemisphere.

## **130. July 2015 Broward County**

This July we returned to Broward County for a single deployment of 500 tons of limestone boulders. McCulley Marine procured the boulders and their delivery, loading them in Ft. Pierce and deploying them at the reef site offshore of Deerfield Beach.

## **129. June – July 2015 St. Lucie County Beach Renourishment Mitigation Reef**

As mitigation for beach renourishment South of Ft. Pierce Inlet, St. Lucie County contracted us to build 1.89 acres of near shore reef. Over 5,900 tons of limestone boulders were sourced and delivered to the County’s Harbor Pointe staging area and loaded onto our barge. The boulders were precisely placed by crane in 10-12 feet of water. The reefs were built to spec in 84 cells, each 20 by 40 foot, using a four-point anchor system and DGPS monitoring to ensure proper placement. The reef was completed in 12 barge loads in 40 working days, all to spec and according to permits and regulations.

**128. July 2015 Martin County and FOS Oyster Reef**

In the shallow waters of the St. Lucie River in Stuart, FL, our crews created three acres of oyster reef. This was another precision operation to build the oyster bed within the confines of the permit area. Overall the project involved 2,850 tons of oyster cultch in eight deployments.

**127. January – November 2014 Miami Harbor Deepening Mitigation Reef**

This is our single largest project to date by the measure of tonnage deployed. As mitigation for the Miami Harbor Deepening project, our crews placed 51,601 tons of limestone boulders in 69 individual deployments. The deployments were all precisely placed using a four-point mooring system and DGPS monitoring in forty feet of water, just offshore of Miami. Special care had to be taken during the operation because of the close proximity to existing hardbottom resources.

**126. September 2014 Palm Beach County**

Our crews returned for a second deployment for Palm Beach County this year. This was an additional 1,000 tons in one barge load.

**125. August 2014 Volusia County**

We returned once again this year to Volusia County's reef staging area to deploy fourteen individual reefs. The projects totaled over 5,600 tons and consisted of culverts, boxes, poles, and pile cutoffs.

**124. August 2014 Indian River County**

After a few years with no active reef program, we were very pleased to once again work with Indian River County. This year we staged 1,500 tons of concrete culverts, boxes and light poles at the Port of Ft. Pierce. We made the deployments in loads, making sure to stay well ahead of the construction deadline.

**123. August 2014 St. Lucie County**

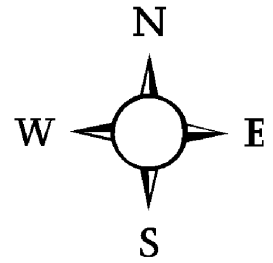
Staging from home in Ft. Pierce at the County's Harbor Pointe Artificial Reef Staging Area, McCulley crews loaded and deployed 1,500 tons of concrete power poles, culverts, slabs, and boxes in three separate deployments.

**122. July 2014 Palm Beach County**

Under tight deadlines, MMS crews mobilized and staged to Palm Beach County to deploy 1,000 tons of limestone boulders. Using our ABS barge "D2005" we accomplished this in a single deployment.

**121. July 2014 Martin County**

Staging at Phipps Park, our crews deployed over 3,000 tons of concrete culverts, boxes, and piling cutoffs in six separate deployments.



**120. April 2014 Martin County and the MCAC Artificial Reef Fund**

McCulley crews towed the vessel D.M. One, a 225' bulk carrier, from its staging area in Miami to the waters offshore Stuart, FL. With spectacular weather and sea conditions, we sank the ship in 197' of water, across the current, upright and on the numbers. Upon sinking she was redesignated the Hailey Glasrud Reef, and is the largest artificial reef in Martin County.

**119. August 2013 Martin County**

With the Regina T working in Flagler County, the Champion was loading out of the Port of Ft. Pierce for deployments offshore Martin County. Culverts, boxes and bridge sections totaling 2,000 tons were deployed in two loads.

**118. August 2013 Flagler County**

One day after demobilizing from Volusia County, our Tug Regina T was on station in St. Augustine for, surprisingly, our very first project with Flagler County. This project was bid on short notice and was again challenged by the weather. With three days to spare the seas broke and we were able to deploy the final barge load of material. Though our contract called for 750 tons, overall we deployed 850 tons of demolished bridge sections.

**117. May-August 2013 Volusia County**

One week after wrapping up our work for Martin County, crews were on site in Volusia County. Over 10,000 Tons of materials, from rail ties to light poles to culverts, were deployed over the course of 29 trips. This marked the biggest year for Volusia County in terms of tonnage deployed, practically doubling their number of artificial reefs in one season.

**116. May 2013 Martin County**

Taking advantage of our mobilized crew and vessels after completion of the Oyster Reef Project, we rolled right into offshore deployment for Martin County. Two loads culverts, boxes and pile cutoffs were deployed totaling 1,500 Tons.

**115. April-May 2013 Martin County Oyster Reef**

Over 5-acres of cultch material totaling 3,500 tons were deployed. This was a shallow water project for the creation of oyster habitat in the St. Lucie River. Crews deployed by day and loaded by night, accounting for ten loads in ten working days, all precisely deployed.

**114. December 2012 St. Lucie County**

2,000 Tons of concrete materials were deployed in four barge loads. This project was time sensitive and during the rough season. We were able to take advantage of the weather windows and complete the project on time.

**113. August-September 2012 Volusia County**

7,200 Tons of concrete material was deployed in sixteen barge loads

**112. July 2012 Martin County**

2,000 Tons of concrete materials were deployed in four barge loads

**111. April 2012 St. Lucie County**

2,000 Tons concrete materials were deployed in four barge loads

**110. September 2011 Murphy Construction, Palm Beach County**

1,000 Tons of limestone boulders were deployed in two barge loads

**109. June-September 2011 Volusia County**

9,450 Tons of concrete materials were deployed in twenty-one barge loads

**108. May 2011 Martin County**

1,000 Tons of concrete materials were deployed in two barge loads

**107. May 2011 St. Lucie County**

2,000 tons of concrete materials were deployed in four barge loads

**106. April 2011 Martin County**

1,500 Tons of marine mattresses were placed inshore using an onboard crane in three loads

**105. August 2010 Volusia County**

1,100 Tons of concrete material was deployed in three barge loads

**104. July 2010 Volusia County**

1,800 Tons of concrete material was deployed in four barge loads

**103. February 2010 MCAC Reef Fund, Martin County**

The 69-foot steel tug boat "Big Al" was deliberately sunk offshore of Stuart

**102. November 2009 Callaway Marine Technologies, Broward County**

900 Tons of limestone boulders were deployed offshore of Ft. Lauderdale

**101. 2009-2011 CSA International, Martin County**

1,500 Tons of oyster cultch material was spread over shallow water for the creation of inshore oyster reefs in the Loxahatchee River

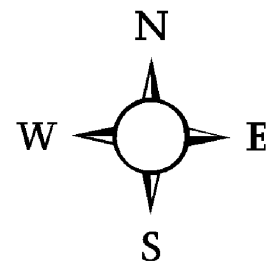
**100. September 2009 St. Lucie County**

1,500 Tons of concrete materials were deployed in three barge loads

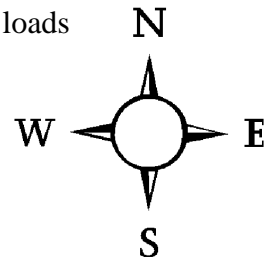
**99. August 2009 Martin County**

1,500 Tons of concrete materials were deployed in three loads

**98. July 2009 Manatee County**



915 Tons of concrete materials were placed using an onboard crane in two loads



**97. June 2009 St. Lucie County**

1,000 Tons of concrete materials were deployed in two barge loads

**96. June 2009 Collier County**

1,212 Tons of concrete materials were deployed in two barge loads

**95. August 2008 St. Lucie County**

1,500 Tons of concrete materials were deployed in three barge loads

**94. June 2008 Martin County**

2,000 Tons of concrete materials were deployed in four barge loads

**93. February 2008 St. Lucie County**

1,100 Tons of concrete materials were deployed in two loads

**92. December 2007 St. Lucie County**

1,100 Tons of concrete materials were deployed in two loads

**91. September 2007 Collier County**

1,238 Tons of concrete materials were deployed in two loads

**90. July 2007 Martin County**

2,000 Tons of concrete materials were deployed in four loads

**89. July 2007 Reef Innovations, Manatee County**

Two barge loads of “Reef Balls” were deployed using an onboard crane

**88. July 2007 Indian River County**

1,000 Tons of used concrete railroad ties were deployed in two loads

**87. June 2007 Collier County**

1,497 Tons of concrete materials were deployed in two loads

**86. June 2007 St. Lucie County**

2,000 Tons of concrete materials were deployed in four loads

**85. February 2007 St. Lucie County**

1,000 Tons of concrete materials were deployed in two loads

**84. January 2007 St. Lucie County**

1,200 Tons of concrete materials were deployed in two loads.

**83. October 2006, Manatee County**

Deployed one barge load of “reef balls” using an onboard crane

**82. May 2006 St. Lucie County**  
2,200 Tons of concrete culverts, rail ties, and light poles were deployed in four loads

**81. May 2006 Martin County**  
65 Tons of oyster cultch was deployed for a shallow water oyster reef.

**80. April 2006 Martin County**  
60 Tons of oyster cultch was deployed for a shallow water oyster reef.

**79. April 2005 Lee County**  
500 Tons of limestone boulders were deployed

**78. September 2005 St. Lucie County**  
1,200 Tons were deployed in two loads

**77. April 2005 Collier County**  
1,379 Tons of concrete materials were deployed in two loads

**76. March 2005 Martin County**  
60 Tons of oyster cultch material was deployed for shallow water oyster reef

**75. March 2005 Collier County**  
600 Tons of concrete were deployed

**74. January 2005 Miami-Dade County**  
1,700 Tons of limestone boulders were deployed in two loads

**73. November 2004 Collier County**  
1,776 Tons of concrete were deployed over the course of three loads

**72. June 2004 Martin County**  
1,000 Tons of used concrete railroad ties were deployed

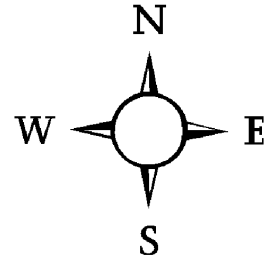
**71. June 2004 Lee County**  
500 Tons of limestone boulders were deployed

**70. 2004-2005 Wilkinson-Jenkins, Indian River County**  
Our single biggest project to date. 42,500 Tons of limestone boulders were deployed over two years to create a near shore reef off of Vero Beach. The boulders were precisely placed by crane into 50 x 100 foot "cells" with ten foot corridors between each cell.

**69. May-June 2004 Collier County**  
1,902 Tons of concrete were deployed over three loads

**68. May 2004 Martin County**  
500 Tons of used concrete railroad ties were deployed

**67. April 2004 Martin County**



60 Tons of oyster cultch material was deployed in shallow inland water for the construction of an oyster reef

**66. January 2004 Collier County**

2,588 tons of concrete material was deployed in four loads.

**65. October 2003 Collier County**

1240 tons of concrete was deployed.

**64. June 2003 Collier County**

1236 tons of concrete was deployed.

**63. June 2003 Volusia County**

600 tons of concrete culvert pipes were deployed as patch reefs in two deployment sites

**62. June 2003 Lee County**

35 concrete slabs were deployed utilizing a 4-point mooring system. Low visibility and poor water conditions on the day of deployment required the use of divers with airbags to properly place the slabs- the result: despite poor work conditions, we placed another reef correctly positioned, on the numbers. Those numbers are unavailable for this resume, however, as the location is withheld by request of the customer.

**61. June 2003 Collier County**

670 tons of concrete and 250 tons of limestone rock were loaded at Marco Island and placed on two Marco Island reef sites utilizing a 3-point mooring system.

**60. June 2003 Martin County**

Two loads of 500 tons of railroad ties were deployed.

**59. May 2003 Martin County**

1000 tons of railroad ties were deployed utilizing a four-point mooring system in over 100 feet of water.

**58. April 2003 Charlotte County**

The Peace River (I-75) Bridge was demolished and its remnant deployed as artificial reef material at two deployment sites.

Gasparilla Reef

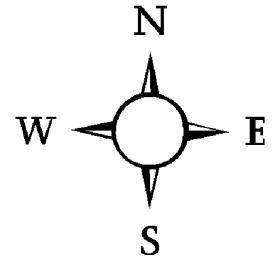
11 loads, totaling 6,105 tons

Tremblay Reef

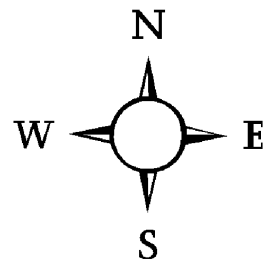
34 loads, totaling 18,645 tons

**57. January 2003 Martin County**

Deployed the Wickstrom Reef



The “Lady Laura” was cleaned, prepared, and deployed as reef material.



**56. June 2002 Martin County**

Deployed 240 tetrahedrons utilizing a four-point mooring system, in over 100 feet of water.

**55. June 2002 Collier County**

592 tons of limestone boulders were deployed utilizing a 3-point mooring system. The project was dubbed the “Keewadin Reef”.

**54. May 2002 Lee County**

For this unusual reef, we sent trucks to Lakeland, Florida, where we picked up the parts to construct a 150-foot tall steel cell-phone tower. The sections were re-assembled in Fort Pierce, and concentrated in 3 pieces, each 25-foot tall apiece. For stability, concrete was poured around the base of the three sections. The sections were placed precisely by a crane, with divers observing.

**53. May 2002 Volusia County**

1400 tons of concrete culvert and utility pole material on the numbers utilizing a 3-point mooring system. Included three different deployments:

**52. March, 2002 Martin County**

Loaded and deployed 360 tetrahedrons using a 4-point mooring system.

**51. January, 2002 Broward County**

Loading, transportation, and deployment of 2000 tons of limestone boulders for the USS Memphis Reef Grounding Mitigation Project. The boulders were deployed at a depth of 40 feet, one-mile offshore, south of Port Everglades.

**50. August, 2001 Georgia Reefs**

Transported and deployed 1200 tons of 5 ½ foot tetrahedrons to three separate sites off the coast of Georgia. The tetrahedrons were equally divided between locations off the beach of St. Catharine’s Island, 2.8 nautical miles off Blackbeard Island, and 3 nautical miles off Cumberland Island. We also deployed a buoy at each site to mark the reefs.

**49. June, 2001 Volusia County**

800 units of eight-foot concrete culvert pipe and 200 units of 10-foot concrete road construction barriers were deployed in 82 feet of water, centered on the numbers.

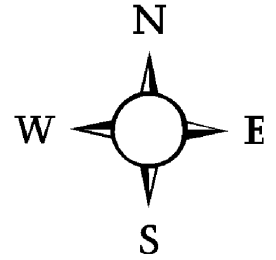
**48. June, 2001 Lee County**

Loading, transportation, and deployment of 400 tons of tetrahedrons, and 1000 tons of culvert material to two separate locations, the ARC Reef and the Pace’s Place reef off Lee County.

**47. June, 2001 Collier County**



We deployed 900 tons of concrete material on the Clam Pass Reef Site in 26' of water.



**46. May, 2001 Palm Beach County**

The vessel MV Sea Mist was towed offshore of Palm Beach and sunk without explosives. The Sea Mist is 80 meters long and displaces 1260 tons. She now rests in 200 feet of water on her keel and on the numbers.

**45. April, 2001 Martin County**

We deployed 334 6-foot tetrahedrons in one site. These were loaded on our barge at the Port of Fort Pierce and put on the Sirotkin Reef Site at a depth of ninety feet.

**44. March, 2001 Ft. Pierce Sport Fishing Club**

Start the year at our homeport. We transported 7 concrete bridge sections, weighing 100 tons each, along with 88 tons of concrete pilings to the offshore reef at St. Lucie County.

**43. November and December, 2000 Broward County**

This project had variety. We placed 300 tons of Limestone boulders, 200 Tetrahedrons, 55 Warren Modules, 160 Reef Balls, and 100 A-Jacks.

**42. July, 2000 Pinellas County**

Our first airplane. A P2V-3C Neptune was loaded on a 150 X 45 foot barge donated by Misener Marine, taken to Pinellas County's Veterans Reef where the bomb squad sank it.

**41. June, 2000 Volusia County**

Approximately 500 tons of concrete rubble were loaded on our barge and deployed at reef site No.12.

**40. June, 2000 Charlotte County**

Deployed 128 concrete culvert reef modules and 500 tons of loose culverts. The loose culverts were placed in 4 equal piles and the reef modules, set with a crane, were arrayed in groups of 4 around the piles. This cloverleaf pattern called for precision work.

**39. June, 2000 Citrus County**

Our first project with this county and we look to return. We deployed 700 tons of concrete culverts to their offshore site.

**38. May and June, 2000 Indian River County**

The first reef job for our new tug "Champion". 2000 tons of Concrete Railroad ties, once again donated by FEC Railroad were loaded at the Port of Ft. Pierce on an ABS Loadline Barge, towed to a site offshore of Sebastian inlet and deployed at four separate sites.

**37. May, 2000 Lee County**

We call ourselves builders, and that's what you do when you build a "Lincoln Log" style unit. Two of them at Dr. Kline Reef. These were approximately .55 tons each and were built under water using two-foot by twenty-foot concrete slabs. The slabs were lowered by crane and positioned with the assistance of divers communicating with the surface. We also placed 100 tons of culvert modules at this site.

**36. May 14 and 20, 2000 Collier County**

We furnished and placed 2 barge loads of concrete material on the Doctor's Pass reef site, 1,000 tons in all.

**35. May 9, 2000 Fort Pierce Sportfishing Club**

Deployed concrete culverts and a steel scrubber, for a total of 200 tons, to a reef site off shore of St. Lucie County.

**34. October – November, 1999 Palm Beach County**

Although we lost the bid we were hired by the general contractor to tend divers, and haul and place material at the reef sites. This was 5,000 Sq ft of filter fabric with 1,000 ton of limestone boulders on top of it. We also hauled and placed old Trommel screens and a TV tower.

**33. June 1 – September 1, 1999 Pinellas County**

This was our largest project at the time. Three steel barges ranging from 115 ft to 150 ft were purchased, cleaned, delivered, inspected and sunk without explosives "on the bottom, upright, and on the numbers" offshore of Dunedin. 200 concrete "Tetrahedrons" were placed in an adjacent site. 100 concrete "Fish Haven" polygonal structures were also placed in 20 different sites. And lastly 300 tons of limestone boulders were placed at yet another site. In all, 6 separate deployments were made.

**32. July 14-15, 1999 Florida Department of Transportation, PCL Civil Contractors**

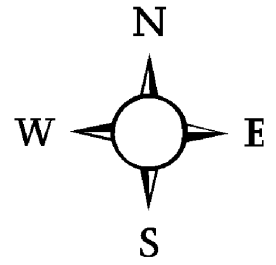
350 tons of concrete "Jersey Barriers" were placed in Lake Worth Lagoon at the direction of Palm Beach County DER. MMS performed this work for PCL as part of a bridge project at Royal Park Bridge in West Palm Beach. The "Jersey Barriers" were part of the old bridge and are now recycled as an Artificial Reef. Far from just disposal, these concrete structures were placed on the bottom using a crane and divers with underwater communications. The first sections were placed on the bottom to serve as table legs; the second set is placed across these to form a concrete "table" three feet off the bottom. The snook love these!

**31. July 10, 1999 Lee County**

Working with Kelly Bros. of Ft. Myers, cleaning, towing, and deployment of the 110' Tug "Pegasus" offshore of Redfish Pass.

**30. June 26, 1999 Ft. Pierce Sport Fishing Club**

Cleaning, towing and deployment of the Ft. pierce “Pilot”, a 40ft. Steel hulled vessel. Placed on the St. Lucie County Artificial Reef Site.



**29. June 24-25, 1999 Broward County 1999**

Two loads of limestone boulders offshore of Port Everglades, 491 tons in all. Hurry, hurry- material had to be deployed by June 30; MMS crews loaded the barge at night to take advantage of the good weather window.

**28. June 11- 16 Volusia County 1999**

500 Tons of Concrete culvert, pilings, and light poles, loaded on an ABS Loadline Barge. Once the barge was towed to the site, the same two anchor system was used and the deployment was accomplished in two trips.

**27. May 20 - June 4, 1999 Indian River County**

1,450 tons of Concrete Railroad ties, donated by FEC Railroad were loaded at the Port of Ft. Pierce on an ABS Loadline Barge, towed to a site offshore of Sebastian inlet and deployed at three separate sites. Two 1,000 lb. anchors were used to position the barge for precise placement. Accomplished in three trips, this reef is the first for Indian River County. Congratulations to Indian River County and the Sebastian Inlet Sports Fisherman’s Association for their entry into the world of Artificial Reef Building!

**26. May 23, 1998 Broward County**

Cleaning, transportation, and deployment of the Tug “Donal McAllister” The second tug for Broward County this year is 80 ft. in length. The same system was used, and the “Donal rests upright on the bottom. No explosives were used to sink either the “Peter” or the “Donal.”

**25. May 19, 1998 Spanish River High School**

Using the Lift Boat “Wet Spot” McCulley Marine deployed 35 “Reef Balls” for the students of Spanish River High School just north of Boca Raton Inlet. This Artificial Reef will provide the students with their own reef to study. Our first and hopefully not last educational reef.

**24. May 16, 1998 Broward County**

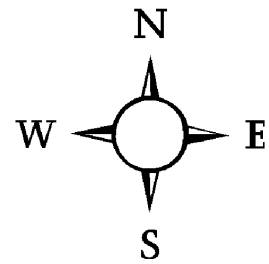
Cleaning, transportation and deployment of the Tug “Peter B. McAllister”. The 100 ft. tug was purchased by McCulley Marine, stripped and cleaned. Using a two point mooring system the tug not only rests in an upright position, but is aligned in a north-south direction, as Broward County Biological Resources Division requested.

**23. May 6-18, 1998 Volusia County 1998**

Transportation and deployment of approximately 2,000 tons of concrete culverts, pilings, and Jersey barriers offshore of Daytona Beach.

**22. May 4-8, 1998 Lee County - Evan Thompson Reef**

Using the heavy lift barge “Aquarius” and Tug “Monica Lee” two Evan Thompson Reef Units were gently placed on the sea floor west of Redfish Pass in Lee County. These 90 ton concrete units measure 20’ X 20’ and stand 18’ high were constructed on the barge and deployed in one piece within inches of the proposed location. A first for both Lee County and McCulley Marine.



**21. December 11, 1997 Aquarius 2000 Project**

Although our friends at the University of North Carolina at Wilmington (UNCW) may not agree that their beautiful habitat is an artificial reef, it will grow marine life and attract fish in time. And so, we will include it in this list.

McCulley Marine Services working for NOAA, Harbor Branch Oceanographic Institution, and UNCW loaded NOAA’s Habitat on the barge “Aquarius” and towed it to Conch Reef offshore of Key Largo, Fla. Once there, utilizing the “Aquarius’s” four point mooring system the Habitat was gently placed on the existing baseplate. Placement had to be within inches, as the Habitat rests on pads on the baseplate and is pinned to it. The 90-ton habitat was no real load for the “Aquarius’s” 150-ton capacity and the 4-point mooring system at present allows anchoring in 200 feet of water, so the 75 ft depth was no problem either.

**20. July 1997 to December 1997 Seabreeze Bridge, Daytona Beach, Fla.**

Working with GLF Construction for the Florida Department of Transportation, this project was the third bridge we have recycled. Approximately 3,000 tons of bridge deck slabs and pilings were placed on Volusia County’s inshore reef 6 miles offshore of Ponce Inlet.

**19. May 1997 Collier County Marco Island 2.5 Mile Artificial Reef Project**

McCulley Marine furnished over 510 tons of concrete culverts and slabs to create a reef 2.5 miles offshore of Marco Island.

**18. May 1997 Hernando County**

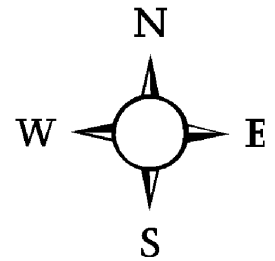
Over 800 tons of concrete culvert pipe donated by Florida Concrete Pipe Co. was loaded at Hernando Beach and transported offshore to the Bendickson Reef. The project took four trips due to draft restrictions. Culverts were placed in trails leading from one army tank to another, allowing divers more access to the existing tanks. On a clear day the tanks and culverts are visible from the surface.

**17. April 1997 Pasco County 1997 Project**

1,000 tons of Concrete culverts, pilings, and slabs were loaded at the Florida Power Corp. Plant in Holiday, Florida. Project was accomplished in four barge loads and placed in groups between existing army tanks.

**16. December 1996 - Volusia County**

Cleaning, transportation, and deployment of a 110 ft. X 30 ft. flat deck barge donated by Weeks Marine. The barge was brought down from Green Cove Springs, FL., after cleaning and U.S Coast Guard inspections were complete. It was then sunk without explosives approximately 12 miles offshore of Ponce Inlet. After sinking, the dive team reported that the barge rests “on the bottom, upright, and on the numbers”.



**15. November 1, 1996 to November 25, 1996 FL. Power and Light - Martin Co.**

This second project sponsored by Florida Power and Light and Martin Co. 4,043.36 tons of concrete slabs, concrete rubble ranging in size from eight ton boulders to baseballs, and some very large steel structures were loaded at the St. Lucie Power Plant and transported offshore of the St. Lucie Inlet. Using large barges and tugs, the project was accomplished in three loads to meet the Thanksgiving deadline set by FPL. The last and largest load was over 1,400 tons and together with a barge load taken offshore of Volusia Co. on the same day, McCulley Marine placed over 2,000 tons of reef material in a single day. A record for us, if not for the entire state.

**14. September 1996 - February 1997 New Smyrna North Causeway Bridge**

Working with Kimmin’s Corp. for the Florida Dept. of Transportation, transportation and deployment of the North Causeway Bridge at New Smyrna Beach . The reef site is 5.74 miles offshore of Ponce Inlet. When completed, approximately 8,000 tons of concrete slabs and pilings were placed on Volusia County Reef # 5.

**13. June 1996 - Nassau County 1996 Project**

1,000 tons of concrete culvert pipes were loaded in Jacksonville, transported to the Nassau County site approximately 16 miles 94 degrees off St. Augustine Inlet. Project was accomplished in two barge loads and the material placed within a 100 ft. radius of the numbers.

**12. June 1996 - Collier Co. 1996 Project**

McCulley Marine furnished 650 tons of concrete pilings and slabs along with transportation and deployment of the material for a reef 5 miles offshore of Naples, FL.

**11. May 1996 - Volusia Co. 1996 Project**

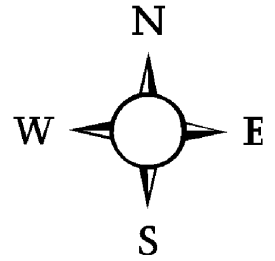
Transportation and deployment of approximately 2,500 tons of concrete culverts to Volusia County Reef No. 8; all material placed within a 500 ft. radius of the numbers.

**10. December 1995- January 1996 U.S. Army Corps. Of Engineers**

Transportation and deployment of 4,125 tons of limestone base rock and 2,000 tons of concrete storm water collection boxes placed in five (5) separate sites in Faber Cove, Ft. Pierce, FL.

### **9. December 1995 - Martin County-FPL**

A joint project sponsored by Martin County and Florida Power and Light Co. 2,450 tons of concrete slabs, culvert pipe, and rubble was transported from the FPL St. Lucie Plant on Hutchinson Island and deployed on the Martin Co. Reef Site ENE of the St. Lucie Inlet.



### **8. October 28, 1995 Palm Beach County**

One thousand tons of concrete beams, poles, and culvert pipes were loaded into the hold of the barge “MG 111”, a 195 ft. X 35 ft. X 16 ft. hopper barge. On October 28, the barge was towed out Palm Beach Inlet to an Artificial Reef Site offshore of Jupiter Inlet and anchored. Careful placement of the material and holes cut in the hull resulted in the sinking of the “MG 111” without explosives. The barge and 1,000 tons of concrete now rests “on the bottom, upright, and on the numbers”.

### **7. March - 1995 to January - 1996 - Florida Dept. of Transportation**

Working with Kimmin’s Corp of Tampa, transportation and deployment of approximately 10,000 tons of concrete from the demolition of the Merrill Barber Bridge in Vero Beach, Fl. Reef location is 7 miles offshore of Ft. Pierce Inlet.

### **6. August 1995 - Walker’s Cay Project**

The 95 ft. Tug “Dorothy H” and the 90 ft. Tug “Ester K” were towed from North Florida to Cape Canaveral, Fl., where they were prepared for sinking. Second leg of tow was from Cape Canaveral to Walker’s Cay, Bahamas, where they were strategically placed in two valleys in the reef off Walker’s Cay in approximately 90 ft. of water. Both vessels now rest on their keels in an upright position.

### **5. June 1995 - St. Lucie County**

Cleaning and sinking of one 100 ft. X 40 ft. X 8 ft. flat deck barge in 60 ft. of water 6 miles east of Ft. Pierce Inlet.

### **4. June 1995 - Volusia County 1995 Project**

Loading, transportation and placement of approximately 2500 tons of concrete culvert pipes, accomplished in five barge loads, all placed at one location within a 500 ft. radius of the target location.

### **3. January 1995- St. Lucie County**

Cleaning, sinking of one 60 ft. X 30 ft. X 12 ft. LASH Barge in 60 ft. of water 6 miles off Ft. Pierce Inlet.

### **2. April 1994 St. Lucie County**

Transportation and deployment of 600 + tons of concrete from the demolition of the Prima Vista Bridge in Port St. Lucie, Florida, to the St. Lucie County Reef site 6 miles offshore of Ft. Pierce Inlet

**1. August 1991- St. Lucie County**

Cleaning, transportation, and deployment of one 110 ft. X 30 ft. steel barge and one 45 ft. Ferro-Cement sailboat in 60 ft. of water 6 miles offshore of Ft. Pierce inlet.

