

**ASTHMA-FRIENDLY CHILDCARE MENTORING
PARRAMORE HERITAGE DISTRICT
ORLANDO, ORANGE COUNTY, FLORIDA**

Prepared for:



**The City of Orlando
Public Works Division
5100 L.B. McLeod Road
Orlando, Florida, 32811
EPA Brownfields Cooperative Agreement BF-95498212**

and:

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1.0 INTRODUCTION

The Florida Department of Health (DOH) and the Florida Asthma Coalition (FAC) has been educating and training childcare centers in the State of Florida to become Asthma-Friendly since 2010. Environmental Consulting Technology, Inc. (ECT) has partnered with DOH in Orange County to provide Asthma-Friendly Childcare Mentoring services to childcare centers in the Brownfield Parramore Heritage District, using EPA Brownfield grant funding from Cooperative Agreement BF-95498212. The services contract between ECT and Florida DOH-Orange requested two deliverables:

1. Progress reports documenting project development and services provided to be submitted with an invoice for each center receiving mentoring and/or recognition from the Florida Department of Health.
2. Reports shall include the following items:
Spreadsheet listing name of participating center, number of employees trained, number of children enrolled with asthma, environmental trigger assessment score and milestones.

The following report details how these deliverables were accomplished.

2.0 PROCEDURES

2.1 RECRUITMENT

The Parramore area was identified (**Figure 1**) and then childcare centers licensed by the Florida Department of Children and Families were mapped (**Figure 2**).

Figure 1. Parramore Heritage District

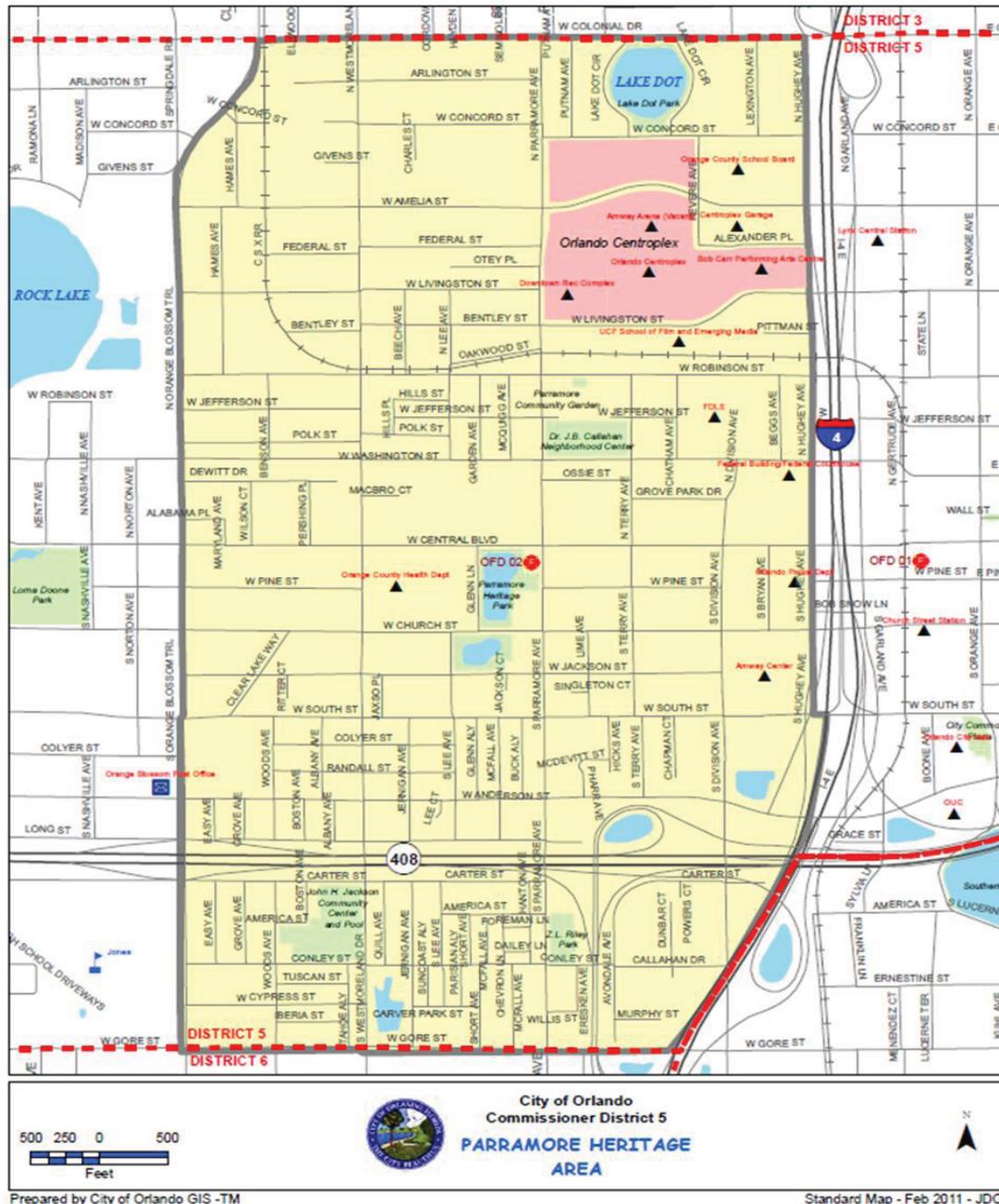
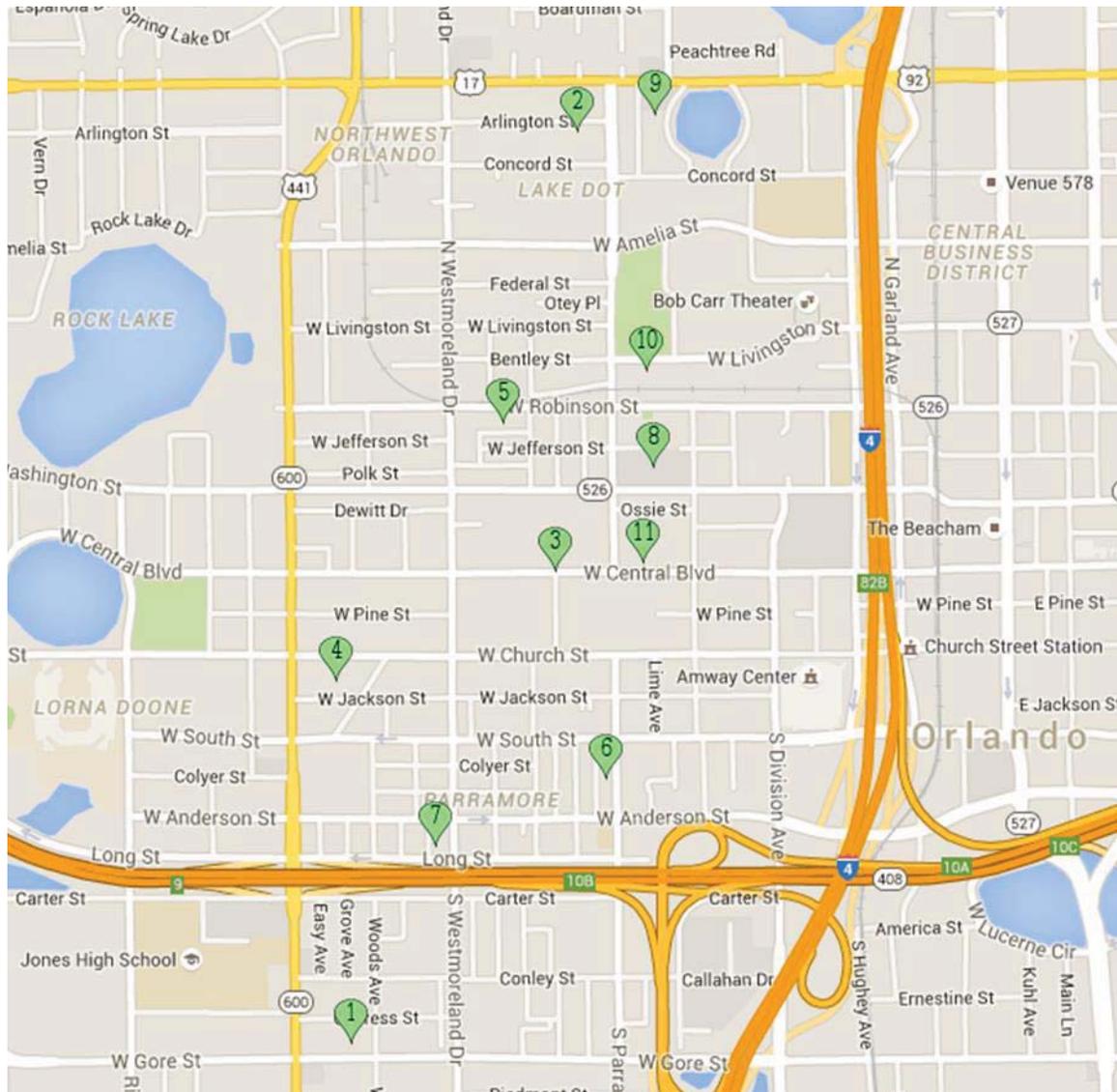


Figure 2. Childcare center in Parramore Heritage area created by Map Customizer <http://www.mapcustomizer.com/map/Parramore%20Heritage>



List of eligible Centers in the Parramore area:

- 1 **Happy Times Learning Academy**
1215 West Gore Street, Orlando, FL 32805, USA
- 2 **Lee Family Day Care**
718 Arlington Street, Orlando, FL 32805, USA
- 3 **Little Kings and Queens Learning Center**
800 West Central Boulevard, Orlando, FL 32805, USA

-  **N2 Kidz and Co.**
1233 West Jackson Street, Orlando, FL 32805, USA
-  **Peabo Child Care Center**
815 Hills Street, Orlando, FL 32805, USA
-  **Superstar's Academy Learning Center**
422 South Parramore Avenue, Orlando, FL 32805, USA
-  **Wells Family Day Care Home**
517 Albany Avenue, Orlando, FL 32805, USA
-  **Callahan Headstart**
101 North Parramore Avenue, Orlando, FL 32801, USA
-  **Orlando Day Nursery**
626 Lake Dot Circle, Orlando, FL 32801, USA
-  **Nap Ford Community School**
648 West Livingston Street, Orlando, FL 32801, USA
-  **Coalition For the Homeless Childcare Center**
639 West Central Boulevard, Orlando, FL 32801, USA

Each center was called and a script similar to the below paragraph was followed:

“My name is {insert here}, I am calling from the Florida Department of Health in Orange County to see if your child care center is interested in participating in the Florida Asthma Friendly Childcare Program. If you are willing, we provide environmental assessments, staff education, and mentoring to facilitate your center in becoming recognized as Asthma Friendly. This program is free to you child care center and when completed, your Asthma Friendly Child Care recognition will be posted for potential Parents of children with Asthma to find on the Florida Asthma Coalition website. Is this something your center would be interested in?”

2.2 TRAINING AND ENVIRONMENTAL ASSESSMENT

Each center was offered the option of in-person training or online training. Most centers initially opted for in-person training. However, after scheduling conflicts, two centers later decided to try online training. The centers who received in-person training also received a personalized environmental assessment (EA) walk-through by staff from the DOH of Orange County.

2.3 FOLLOW-UP

After five centers were enrolled, dates were set for staff training and EAs to identify asthma triggers. For some centers, several dates were set in efforts to conduct in-person staff training and completion of the EA. All five centers received a call at least once

every two weeks to follow up with their progress. Posters were dropped off to four out of the five childcare centers to encourage them to finish the recognition process.

Centers that did not do in-person staff training were also called and encouraged to finish their recognition process. These centers still received in-person mentoring and follow-up consultation even though they opted out of all other mentoring services (i.e. in-person staff training and EA walk-through).

Childcare Center	Eligible	Enrolled & Mentored	In-person training	Online training	EA's
Happy Times Learning Academy	X	X		X	
Lee Family Day Care	X				
Little Kings and Queens Learning Center	X	X			
N2 Kidz and Co.	X				
Peabo Child Care Center	X	X	X		X
Superstar's Academy Learning Center	X				
Callahan Headstart (refresher training)			X		
Orlando Day Nursery	X	X	X		X
Nap Ford Community School	X				
Coalition for the Homeless Childcare Center	X	X	X		X

2.4 AWARD RECOGNITION PROCESS

The FAC has developed a systematic process that will help childcare centers assess current asthma management activities and take steps to receive recognition. Centers awarded asthma-friendly recognition notice an improvement with their children with asthma and receive opportunities to show off their recognition through local and state marketing efforts. With the goal to reduce the asthma burden in the state of Florida, the FAC established a voluntary recognition opportunity to acknowledge childcare centers with exceptional asthma management programs. The recognition is currently offered at four levels (bronze, silver, gold, and platinum) based on the number and type of criteria achieved by each center. These four levels of recognition are based on national evidence-based guidelines.

The most basic and essential activities fall under the Bronze level. Successive recognition levels include additional activities and require more effort, resulting in progressively stronger programs and culminating in a Platinum level recognition. The recognition levels represent points of progress toward a goal of improved asthma management,

because every small step makes a difference. As stated in the *Community Health Monitoring Plan* prepared by ECT for the City of Orlando dated December 2013, a Bronze Award was the minimal goal of participating centers.

The recognition criteria for bronze recognition are as follows:

1. Asthma leadership team established.
2. Staff and administration participate in asthma training.
3. Ensure that at least 50% of children with asthma have Asthma Action Plans on-file. Note: Requirements increase based on award level. Centers with no children with asthma are only eligible for Bronze recognition.
4. Childcare providers utilize daily parent asthma/allergy communication tools as needed.
5. To increase asthma awareness, especially among staff, by hanging three asthma posters in high-traffic areas in childcare centers.
 - a. Steps to follow for an Asthma Episode in Childcare Center.
 - b. Common Asthma Triggers.
 - c. Top Ten Actions to Reduce Asthma Triggers.
6. Complete Environmental Monitoring with at least an 80 percent satisfactory score on Environmental Triggers Assessment.

Two centers (Peabo Child Care Center and Orlando Day Nursery) became Bronze Level recognized through the FAC!



Bronze
Award

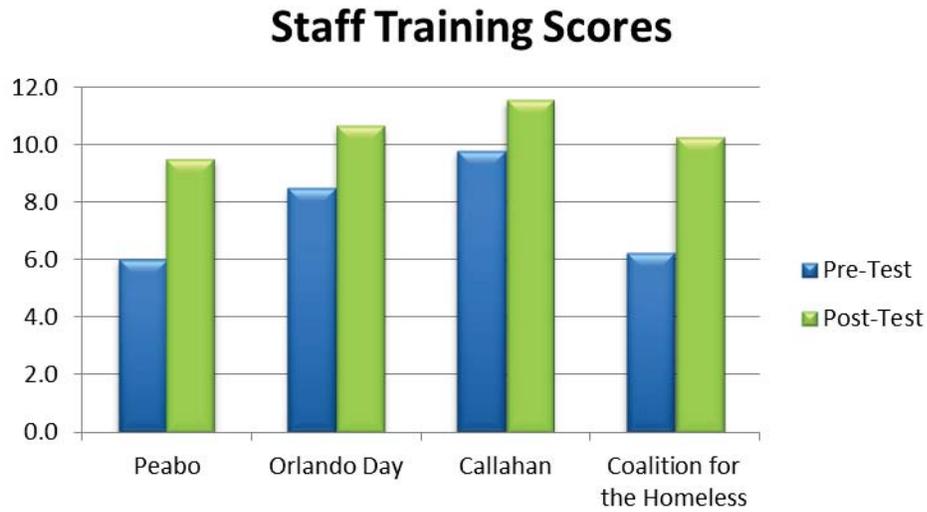


3.0 RESULTS AND CONCLUSIONS

3.1 STAFF TRAINING

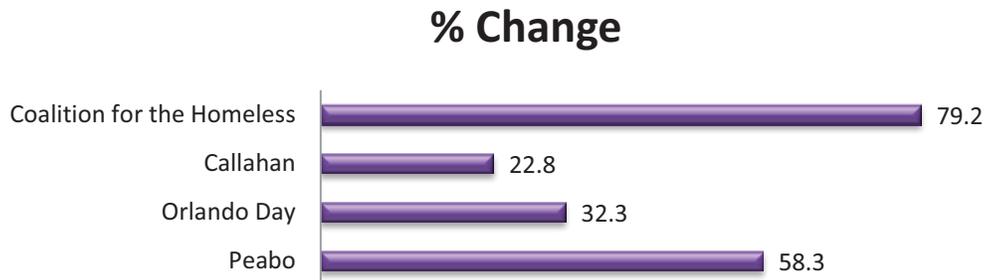
Of the five enrolled centers, four completed in-person training and one completed online training. Both in-person and online training use pre- and post-test as a measure of learning. Pre-test are given to understand each staff personnel’s prior knowledge to asthma friendly childcare. After pre-tests are administered, a presentation is given to explain asthma friendly childcare management. The difference in scores for the enrolled centers is represented in **Figure 3**.

Figure 3. Average scores of Asthma-friendly pre-test and post-test within each center.



The percent change was calculated to quantify how staff members learned the asthma friendly information after the presentation (**Figure 4**). Callahan had already been through the training process and received refresher training. This was indicative by a lower percent change in comparison to the other centers.

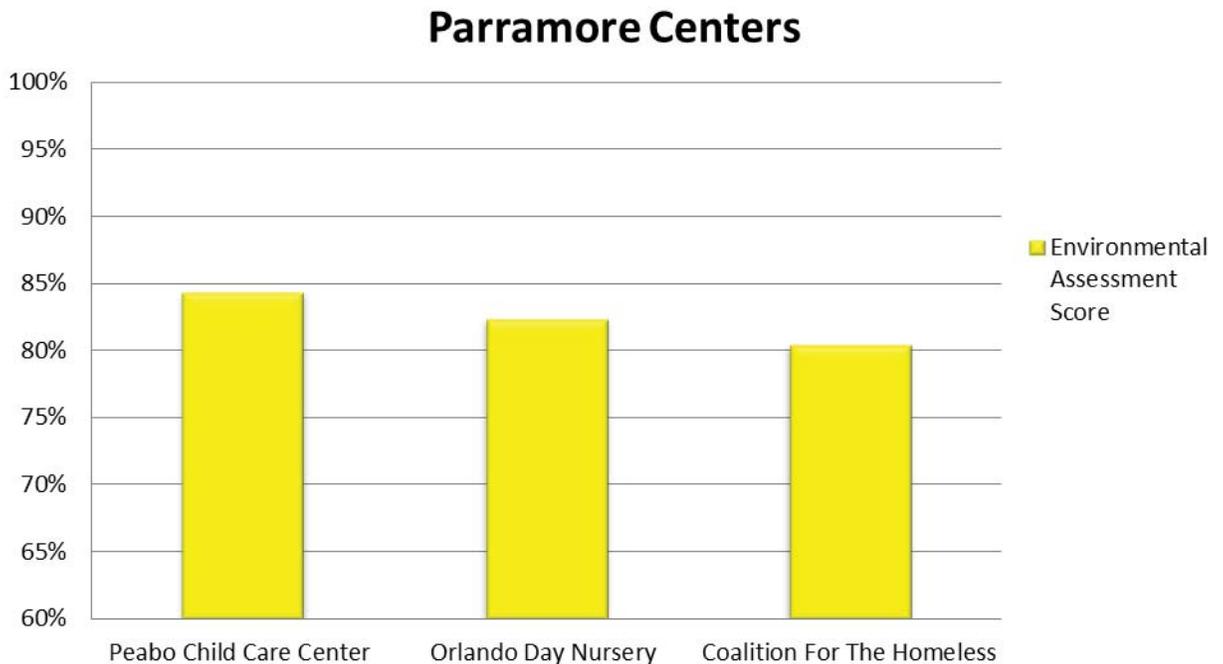
Figure 4. Percent change calculated from the difference in post and pre-test scores.



3.2 ENVIRONMENTAL ASSESSMENT

Three childcare centers received EA's. Each EA consisted of an interview consisting of 51 questions. To qualify for Bronze recognition, each childcare center needed to correctly answer >80% of 51 questions. The 51 question specifically addressed ways to reduce environmental asthma triggers in childcare centers. The results from each childcare center that completed the environmental assessment are illustrated in **Figure 5**.

Figure 5. Environmental Assessment scores for enrolled centers that received in-person training. The other centers opted to conduct their own environmental assessment but never indicated if it was completed or submitted scores.



3.3 CONCLUSION

Centers that received in person training were more likely to complete the recognition process. Of the three centers that received in-person training, two became recognized as Asthma-Friendly by FAC before July 31st, 2015. No center that opted for online training received recognition before July 31st, 2015. One of the two centers that opted for online training completed online pre-test and post-test, but neither submitted scores for the environmental assessment. The DOH of Orange County was pleased to help mentor centers in the Brownfield area towards recognition as Asthma-Friendly through FAC. For more information about the City of Orlando Brownfields Program visit <https://sites.google.com/site/orlandobrownfieldsprogram/>