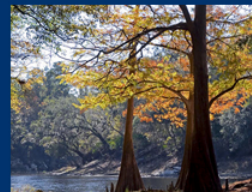




Florida Department of Environmental Protection

Northeast Lagoon Gainesville, Florida

February 2, 2017





Scope of Presentation

160649 MOD

- What is the NE Lagoon
- History related to NE Lagoon area
- Related Soil and Groundwater data
- Status of NE Lagoon
- Path forward



Vicinity Map

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NOTE:
Existing well locations and Northeast Lagoon location adopted from Weston Solutions report dated October 2006. These locations have not been field verified by MACTEC.

Aerial:
Florida Department of Transportation Surveying and Mapping Office aerial dated December 2007.



SITE VICINITY MAP

NO.	DATE	REVISIONS
0	May-09	Initial Submittal
	DESIGNED BY: RW	DRAWN BY: GSE
	CHECKED BY:	DATE:

MACTEC
Engineering and Consulting, Inc.
Tallahassee, Florida
850-656-1293

NORTHEAST LAGOON
SITE INSPECTION REPORT
GAINESVILLE
ALACHUA COUNTY, FLORIDA
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

FIGURE
2



What is the Northeast Lagoon

- Located east/northeast of Cabot Carbon / Koppers Superfund site
 - ~ N. Main Street & NE 28th Ave/Place
- Estimated 0.78 acre in size
- Appears to be a former man-made structure
- Historic aerial photos- installed prior to 1937 and no longer present in 1962
- Described as: earthen walls on S, W, and N sides with raised R/R bed to the East
- Origin and specific use is uncertain-
 - Located at termination of former railroad line
 - Downgradient of the former Cabot facility property
 - Post-Lagoon area redevelopment
 - Possible multiple contaminant sources in the area
- Location corresponds with observed contaminated soils (“muck”) and groundwater contamination (including free product) consisting of:
 - phenols, polynuclear aromatic hydrocarbons (PAHs), ketones and terpenes, benzene, toluene, ethylbenzene, xylene (BTEX)



History of NE Lagoon Area 160649 MOD

- 1960s -1970s - Phenolic contamination encountered during area development including Shopping Center, Harbor Chevrolet facility and NE 28th Place road construction
- 1979 - Removal of phenolic material and Main Street ditch restoration required by DER Consent Order
- 1986- DER Assessment of North Main Street Muck -
 - confirmed soil contamination (phenols, PAHs)
- 1984 – 1990 - Cabot Carbon/Koppers (CC/K) Superfund site -
 - Remedial Investigation/Feasibility Study
- 1990- EPA Record of Decision (ROD) for CC/K- Required additional assessment of NE Lagoon area to determine if remedial action was necessary



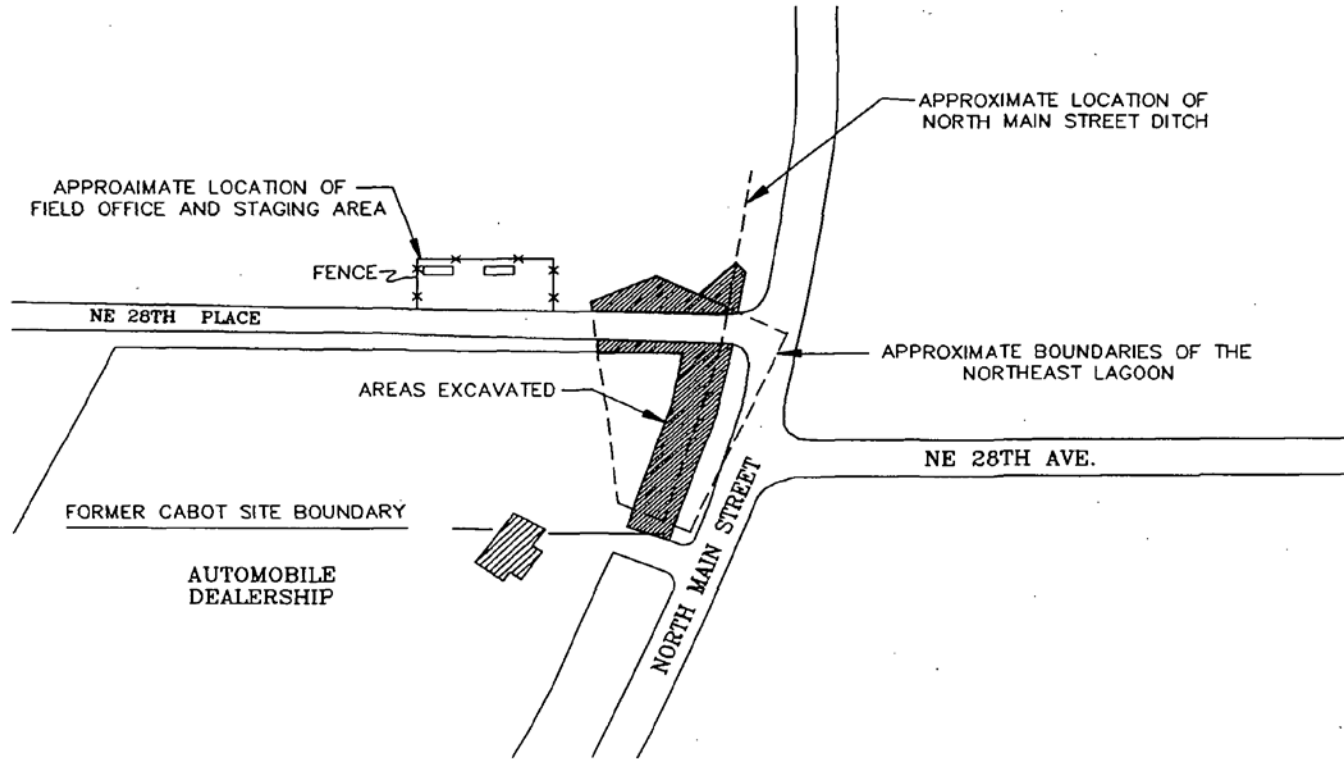
History of NE Lagoon Area

- 1992- Cabot Remedial Design Assessment and FDOT “Muck” sampling
 - Cabot design of soil removal/interceptor trench and FDOT Main Street road widening
 - Confirmed soils in NE Lagoon area contained PAHs, phenols and BTEX
- 1995 - NE Lagoon Muck Removal
 - Cabot removed 4,673 tons accessible (unpaved) contaminated soils
 - FDOT removed ~ 19,535 tons of contaminated soils (“muck”) under N Main Street footprint as part of road widening
- 1996 - Cabot completes construction of groundwater interceptor trench along N Main Street for surficial aquifer remediation. *Remedy ongoing.*



NE Lagoon Soil Removal by Cabot

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CABOT CARBON/KOPPERS SITE
GAINESVILLE, FLORIDA

AREAS EXCAVATED FOR
NORTHEAST LAGOON CLOSURE

FIGURE 3-1

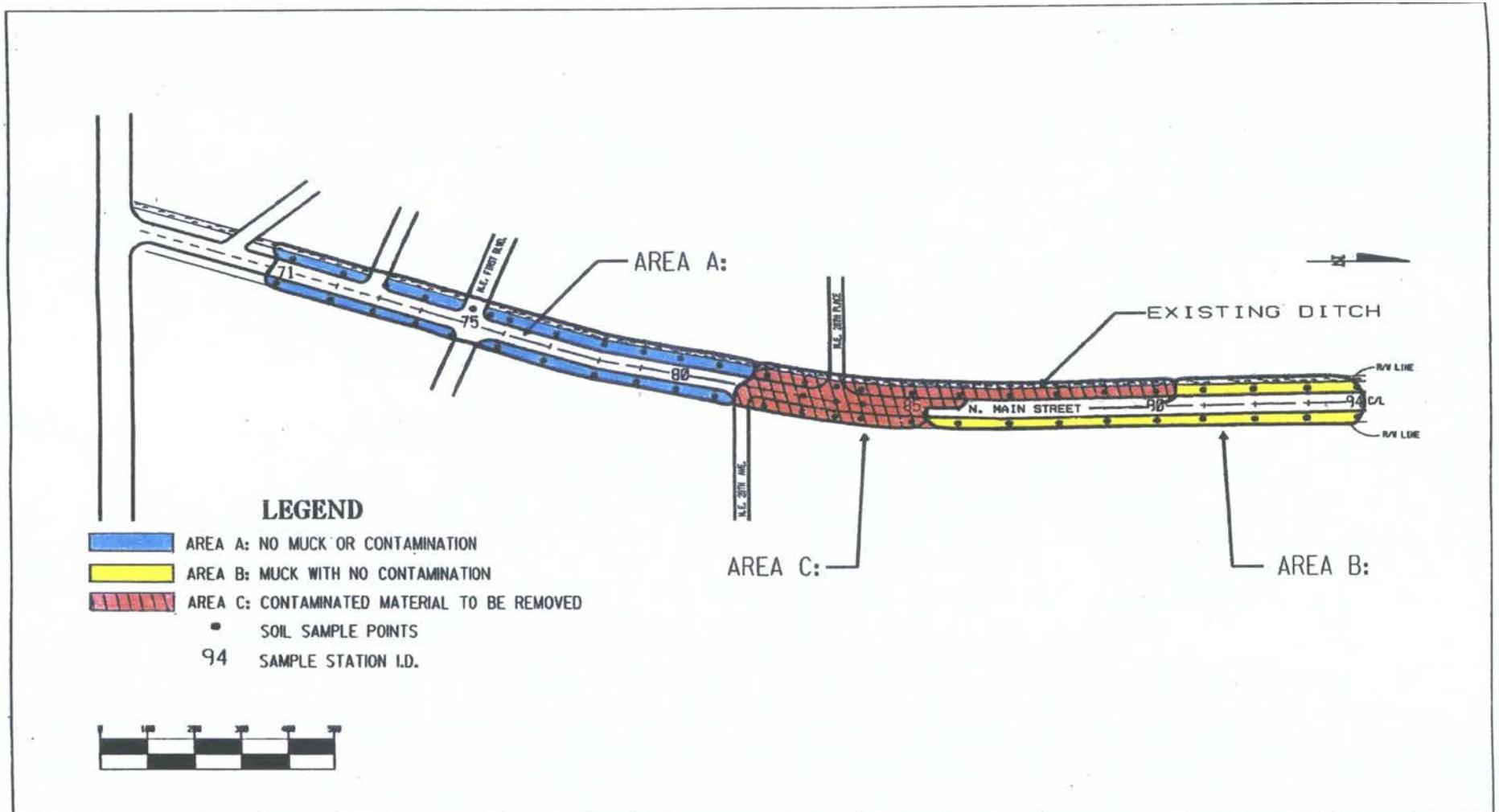


DRAWN	CHAD	DATE	7-20	DES. ENG.	DATE	V. D. NO.	05791-002
CHECKED		DATE		APPROVED	DATE	DWG. No.	P.DWG



FDOT Main Street Road Widening Muck Removal

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PBS FDOT RIGHT-OF-WAY IMPROVEMENT
 NORTH MAIN ST. (CR 329)
 GAINESVILLE, FLORIDA

ZONES OF CONTAMINATION

07-261.15
 DRAFTED BY: R.W. SPISAK
 APR. 8TH 1992

FIGURE 6-1



History of NE Lagoon Area ^{160649 MOD}

- 2006 - CC/K Superfund Five Year Review -
 - Raised concern of NE Lagoon as potential ongoing source
- 2007 - Cabot submits “NE Lagoon: Historical Review”
 - Concluded other sources of Lagoon contamination including fire box dumping
- 2009 - DEP completed CERCLIS NE Lagoon Site Inspection report –
 - Includes collection of soil and groundwater samples
- 2/2011- EPA Amended ROD (AROD) for CC/K site -
 - Selected comprehensive remedy to address former Koppers site
 - Requires Cabot to assess Hawthorn contamination and implement insitu remedy (if needed)
 - AROD does not include NE Lagoon
- 2011 to Date -
 - EPA/DEP ongoing discussions on how to address NE Lagoon contamination
 - Ongoing Superfund site cleanup and related activities at CC/K sites



Recent soil / groundwater data

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- 2009- DEP CERCLIS Site Inspection Report
 - CERCLIS = federal Comprehensive Environmental Response, Compensation, and Liability Information Systems
 - Vadose zone soils - above DEP soil cleanup target levels (SCTLs)
 - Volatile Organics- in NE Lagoon footprint
 - Phenolic compounds and PAHs including naphthalene
 - One contaminant above Commercial/Industrial SCTL- benzo(a)pyrene equivalents (2-4 ft below land surface)
 - Groundwater - GCTLs exceedances in Direct Push and Monitoring Wells samples
 - Including ITW-13/14 in NE Lagoon area
 - Similar to many contaminants observed in vadose zone soils
- 2016 - EPA Athens Groundwater Assessment-
 - confirmed similar groundwater contaminants in area of NE Lagoon
- 1987 through 2016 Groundwater data -
 - Monitor wells ITW-13/14- persistent phenols, naphthalene and benzene above GCTLs



Status of NE Lagoon

- EPA has concluded the NE Lagoon is not part of Cabot Carbon/Koppers Superfund site
- NE Lagoon was evaluated under CERCLIS and could qualify for listing on National Priorities List (NPL)
- Ongoing NE Lagoon source(s) may still be present
- Groundwater contamination in area of NE Lagoon persists
- Based on existing data:
 - No risk of direct contact to contaminated soils or groundwater under current land uses
 - Existing Superfund interceptor trench currently capturing surficial aquifer contamination in area of NE Lagoon
- Additional Assessment is necessary to:
 - Determine ongoing contaminant sources
 - Confirm vertical extent of groundwater contamination
 - Support evaluation of potentially responsible parties (PRPs) and
 - Select/implement remedy to address NE Lagoon related contamination



NE Lagoon - Path Forward

- DEP will take lead in assessment and evaluation of a path forward
 - Step 1- Addition Assessment of contaminant source(s)/groundwater contamination
 - Step 2- Data evaluation and source attribution
 - Step 3- Identification of potentially responsible parties (PRPs)
 - Step 4- Development of Agreements with responsible parties to complete assessment and remediation of NE Lagoon contamination, if supported by Steps 1, 2 & 3.
- If no viable responsible parties are identified, DEP may consider the NE Lagoon for state-funded cleanup
- DEP may solicit assistance from EPA to accomplish cleanup of the NE Lagoon contamination, by way of
 - EPA enforcement as NPL equivalent site
 - EPA Listing as site on NPL



Questions?

160649 MOD

DEP Contact Information

Kelsey Helton
DEP- Waste Cleanup Program
850-245-8969
kelsey.helton@dep.state.fl.us