## **Changes in the Environmental Industry**

New ASTM E-1527-13 Standards

Presented by Chuck Merritt, President/LEED, AP



### **MERRITT** Environmental Consulting Corp.

## American Society of Testing Materials (ASTM) E1527-13 Environmental Standard

- 2014 is the 20<sup>th</sup> anniversary of the first ASTM environmental standard (1527-94).
- The new standard was released by ASTM in November of 2013 (approved by EPA 12/30/13).
- New standard is a clarification of the prior standards which were revised in 97, 2000, 2005, 2013.
- Federal EPA recognizes both ASTM E1527-05 and E1527-13



## **3 Key Sections in New Standard**

- Controlled Recognized Environmental Condition (CREC)
  - When engineering controls are in place at a site to address or monitor past environmental impact.
    Easier to finance a property with a known issue
- Freedom of Information Act (FOIA) clarification
  - Consultants should review regulatory documents when available for subject site and adjoining properties
- Vapor Encroachment (VE) must be discussed



## What is Vapor Encroachment

- When contamination in soil/groundwater breaks down and volatizes into a gaseous state.
- Vapors can then move freely depending on soil composition, cracks into buildings
- Enough vapors in occupied building spaces can lead to indoor air quality (IAQ) issues.





## How Do You Determine If a Site May Have a Vapor Issue?

- Current or historic dry-cleaners and gas stations at the subject site are the main causes of vapor releases
- Adjacent properties (Dry Cleaner/Gas Station)
  - Distance from subject site
  - Up-gradient/down-gradient
  - What underground conduits (subways, gas lines, etc.) are present as they help re-direct vapors away from structures

*These conduits are good in urban and metropolitan settings to help dismiss a VE concern* 



## Site Has a Potential Vapor Encroachment Condition (PVEC) Now What...

#### <u>Test</u>

- Soil/Groundwater
  - No impact (contamination) = No source for vapors to be present
- Air in building by using Summa test kits similar to radon
- Some situations may require all three of these medias to be tested to have a conclusive answer.



# How to Cure A Site with Elevated Vapors

Sub-Slab Depressurization System (SSDS)

Similar to radon mitigation system

- Collect vapors in PVC piping at low point of structure
- Re-direct vapors to manifold
- Vent out of building
- Should be done at all new construction sites
  - Will make building more marketable/financeable
  - Insurance to protect building occupants
  - May be part of building code in the future



### MECC has been incorporating the new ASTM changes since the first quarter of 2013

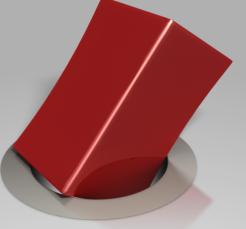
# So how did the ASTM group get involved in the first place?

Where is the industry heading now?



The ASTM standards are designed for a purchaser of Commercial Real Estate but most lenders (if not all) use it as well. (Square peg-round hole)

- Risk is different for lenders then buyers as lenders have secured creditor exemption
- Owners have strict liability in NY. You own the contamination





## So Why are Lenders Doing an Environmental Analysis?

- CERCLIS protection?-original concept of the due diligence (not bank responsibility)
- Innocent land owner defense protection? (only in foreclosure)
- Bank Policy requires it--????
- Value (\$\$\$) of property if contamination exists (BINGO)



Is this the time to visit bank policy for environmental risk management?

What are the current bank requirements?

Who manages that process?

- Are all approved firms preparing the same report?
- Are all approved firms carrying the required insurances



#### **Environmental Products Available**

- Database computer check record search only identifies things reported Used by lenders on small loans
- Transaction screen computer check with site inspection originally designed for lender to decide if phase one was required after visiting property—Has morphed into a stand alone report
- Full Phase One ESA "Kick the Tires" approach gives consultant all the tools available.
  - Database
  - Historical maps
  - Local regulatory inquiries
  - Conduct a site reconnaissance at the property and adjoining sites
  - Interview the key site personnel
- Phase II Sampling at site (soil, groundwater and now air)



## • NOTE:

- If your consultant provides a scope of work for phase II and borrower wants to use their own firm---make sure they follow the scope. It was written to protect you as the lender.
- A \$7,000 proposal is not the same scope of work as a \$2,300 report the borrower paid to "his guys"
- This puts your consultant in a tough spot and more time and money will be required to do it correctly



- Database and transaction screens are cheaper but tell you less. This can potentially lead to dead ends.
- If last due diligence report was less than a full ESA, do not assume all is well.
  - Former gas station now an apartment building How did it go from A – Z? Any documentation?

Old database report that did not indicate any spills on file is not sufficient due diligence





## All Bank Clients Have the Same Question, "What is Our Competition Doing?"?

- National database company in November hosted a seminar on Long Island with over 100 consultants in the room. Message was "educate your clients on new changes".
- A broad vague standard is now being streamlined so all consultants prepare same type of report.
  - E1527-13 is a clarification of the prior E1527-05 standard





- Largest National banks can afford to have in house environmental risk officers who are paid to assist in analyzing the risk.
- Smaller banks use their approved outside vendors for that guidance.





 Environmental reports are a tool used by lenders like an appraisal or title insurance to provide information for client to make a better business decision.

#### • The GOOD NEWS

75-80% of sites end up ok after proper due diligence is conducted

#### The Not so GOOD NEWS

Make require more time and cost to get there.



- To comply with the new ASTM changes, there is more cost associated. MECC working to keep that at a minimum. The industry has forecast fees to rise \$300-\$500 per report. We raised our prices to lenders \$100 at the beginning of 2014
- "Every phase one report is good until somebody obtains samples of the soil or groundwater and now air".
- The site is excavated for a new development.





## MECC Has 20 Years experience advising clients

- Been in environmental consulting industry since first ASTM standard
- All inspectors will have tablets for their field reports to be uploaded to office in minutes
- All inspectors have 10 years plus doing environmental inspections
- New website enhancements----order reports on-line
- Portal for electronic delivery of reports
- 75% of MECC client base are lenders
- MECC can handle remediation projects
  - We now carry more comprehensive insurance
  - Work with best construction firms in industry
  - Approved consultant with NYC OER



## **Key Personnel at MECC**

#### Lauri Hofer

Director of Operations 12 years with Chuck Merritt

#### Maryann Wegh

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## **QUESTIONS??**