

Susie Tolbert Elementary School Clean Up

September 11, 2018
6:00 p.m.



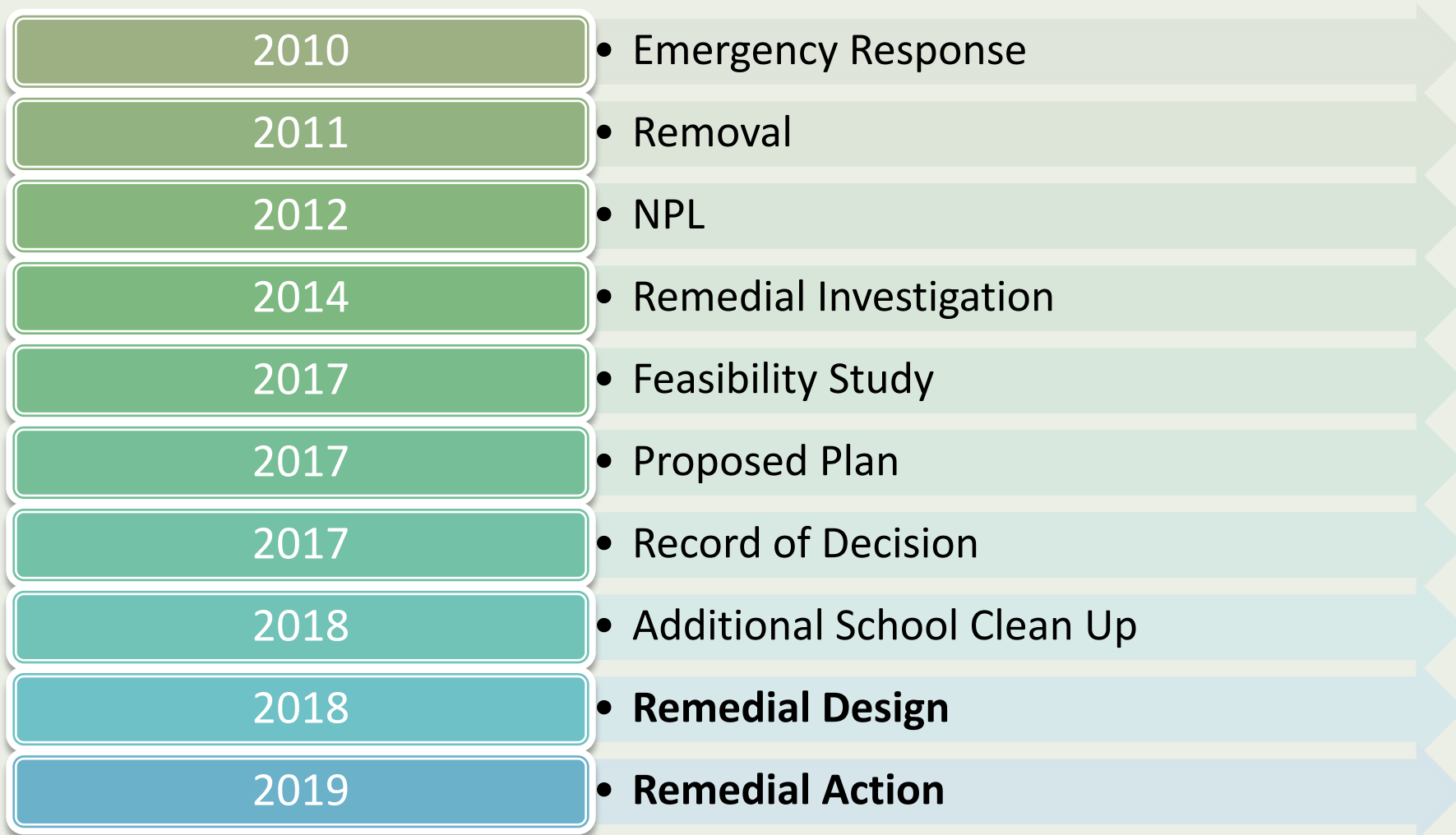
Agenda

- ◆ Introductions
- ◆ Timeline and Background
- ◆ Health Considerations
- ◆ School Cleanup Work
- ◆ What's Next?
- ◆ Questions



- ◆ **Environmental Protection Agency**
- ◆ **Florida Department of Environmental Protection**
- ◆ **Duval County Public Schools**
- ◆ **Department of Health**
- ◆ **Duval County Health Department**

Timeline of EPA's Involvement at Fairfax Street Wood Treaters



Removal Action

- ◆ In 2011, EPA removed soil exceeding EPA's risk-based removal management level (RML) for human health of 39 mg/kg for arsenic.
- ◆ The removal action at the school focused on the retention pond and area of soil that exceeded EPA's RML.
- ◆ Additional soil sampling was completed during the Remedial Investigation (RI) to determine the extent of contamination.



- ◆ **Following the removal, EPA completed a risk assessment and concluded the arsenic concentrations remaining were well below EPA's RML and concentrations did not present an unacceptable risk to human health.**
- ◆ **Based on the Remedial Investigation, EPA and Florida Department of Environmental Protection (FDEP) selected excavation and off-site disposal for the remedy.**
- ◆ **The ROD established a final soil cleanup goal of 2.36 mg/kg for arsenic.**
- ◆ **Based on Florida statute, the soil clean up goal for arsenic is background.**

Remedial Design and School Excavation

- ◆ Remedial Design (RD) sampling efforts began in Spring 2018.
- ◆ During the RD, samples were collected on the school property to determine the volume of soil above the final cleanup goal established in the ROD.
- ◆ Sampling results indicated arsenic concentrations slightly above the final cleanup goal (2.36 mg/kg).
- ◆ In early July 2018, EPA worked with the State to initiate additional soil removal on the school property ahead of the rest of the Superfund remedy.
- ◆ This was done in order to meet the cleanup goal and to minimize disruption to school activities.
- ◆ The State agreed to complete this component of the remedy prior to school resuming.

- ◆ In 2011, EPA removed soil exceeding EPA's risk-based removal goals for human health during the removal at the school.
- ◆ The levels detected during the RD were below EPA's RML of 39 mg/kg.
- ◆ The EPA risk assessment from the Remedial Investigation concluded the arsenic concentrations remaining in soil on Susie E. Tolbert Elementary School does not present an unacceptable risk to the children.
- ◆ Additional sampling and removal of soils at the school was done to ensure that remaining soils on the school meet the final cleanup goal.

Health Considerations

- ◆ Even though children's time spent in the school yard is much less than time spent in a residential yard, any soil with arsenic detections above the residential cleanup level was used to determine what soil to remove at the school.
- ◆ DOH's Public Health Assessment states, "Current exposures to surface soils at nearby residential properties and Tolbert/Daniels school playground are not expected to harm people's health."
- ◆ Health related questions about past exposures should be directed to your child's pediatrician.

CONCLUSION #4 Current exposures to surface soils at nearby residential properties and Tolbert/Daniels school playground are not expected to harm people's health.

BASIS FOR
DECISION #4 School soil and yard soil with the highest levels of arsenic have undergone remediation. The ingestion doses for exposure to the highest level of arsenic remaining in residential yard and school soil are well below those associated with harmful non-cancer effects in available studies. The estimated increased cancer risks are low.

CONCLUSION #5 Occasional exposures to surface soils on the Fairfax Street Wood Treaters hazardous waste site are not expected to harm trespassers' health.

BASIS FOR
DECISION #5 The highest estimated arsenic dose for exposure to contaminants for site trespassers is well below the levels expected to result in harmful non-cancer effects. The estimated increased cancer risk from this is low.

CONCLUSION #6 Groundwater from the site will not harm people's health.

BASIS FOR
DECISION #6 Tests did not show groundwater contamination related to the site. Additionally, people do not use groundwater from on or near the site for drinking or irrigation. The City of Jacksonville supplies nearby residents with water from municipal wells. The City of Jacksonville regularly tests municipal well water for site-related and other chemical contaminants.

LIMITATIONS OF
FINDINGS All risk assessments, to varying degrees, require the use of assumptions, judgments, and incomplete data. These contribute to the uncertainty of the final risk estimates. Some more important sources of uncertainty in this public health assessment include environment sampling and analysis, exposure parameter estimates, use of modeled (average) data, and present toxicological knowledge. We may overestimate or underestimate risk because of these uncertainties. This public health assessment does not represent an absolute estimate of risk to persons exposed to chemicals at or near the Fairfax Wood Treaters site.

FOR MORE If you have concerns about your health or the health of your



Susie Tolbert Elementary School Soil Excavation





Soil Sampling



DEP collected soil samples to define the areas that needed removal

Over 200 samples were collected and analyzed for arsenic



Site Setup and Safety Measures



Dust meters to monitoring dust levels



Silt fence placed around excavation area



Excavation Activities



“Soft” dig around the roots of the pine trees

Conventional dig outside treed areas





Excavation Activities





Excavation Activities



Excavation to one foot below land surface along eastern side of basketball court (looking southwest).



Excavation Activities



Excavation between sidewalk and fence on eastern boundary to one foot below land surface.



Excavation Activities



Stormwater present in the western excavation



Stormwater Removal



Picture of stormwater being removed with vacuum truck



Soil Stockpile



Soil stockpiled at southern end of property



Soil Transport and Disposal



Truck loading area



Transport and Disposal

Trucks stopped at the Pilot Travel Center to be weighed prior to going to the Chesser Island Landfill in Folkston, Georgia





Site Restoration



Backfilling operations



Site Restoration



Compaction testing



Site Restoration



Sod placement



Site Restoration

South Elevation

☼ 21°N (T) ● 30°21'9"N, 81°41'18"W ±16.4ft ▲ 32ft



North West Elevation

☼ 129°SE (T) ● 30°21'10"N, 81°41'20"W ±16.4ft ▲ 32ft



New fence and sidewalk



Daily Logs and Reporting

FAIRFAX-SUSIE E. TOLBERT ELEMENTARY SCHOOL
EPA ID: FLR000227223
DAILY REPORT – AUGUST 10, 2018



HEALTH AND SAFETY

- Daily H&S tailgate meetings: 1
- OSHA recordable to date: 0
- Lost time injuries to date: 0
- First aid/injuries to date: 0

SITE ACTIVITIES

- Loaded 2 FECC roll-off containers for T&D. Total T&D tonnage through 8/9/2018 is 3,269.59 tons per Chesser Island logs (116 trucks).
- No backfill delivered to site (complete). Total backfill through 8/9/2018 is 4,500 cubic yards (250 trucks).
- Received 40 pallets of sod (202 total received). 38 pallets of sod placed today (186 pallets total placed to date). Sod placement will be completed on 8/11.
- Completed fence replacement around retention pond. Set fence posts along round-about. The chain-link and top rails will be installed on 8/11. Fence replacement at 95%.
- Removed majority of silt fence and removed the turbidity barrier from the pond.
- Excavator, bulldozer, front end loader, and roller removed from the site.

UPCOMING WORK SCHEDULED

- Complete sod placement on 8/11.
- Complete fence replacement on 8/11.
- Haul 2 roll-off containers to secondary weigh scale and Chesser Island Landfill.
- Use street sweeper to clean asphalt in round-about 8/11 and 8/12.
- Concrete pour for sidewalk repair scheduled for 8am on 8/11.
- Expansion joints to be cut and form boards removed 8/12.
- Site cleanup on 8/11 and 8/12.

ACTION ITEMS/OTHER

- Demobilization on 8/12.

COMMENTS/OBSERVATIONS

- No reported dust concentrations above 1 mg/m³ to date (4 mg/m³ action level). Stormwater controls include silt fencing around perimeter of excavation area, relevant sides of the retention pond, and the two stormwater drains. Soil stockpiles are covered with plastic sheeting when not in use and at the end of each day. Trucks are also loaded on plastic sheeting.

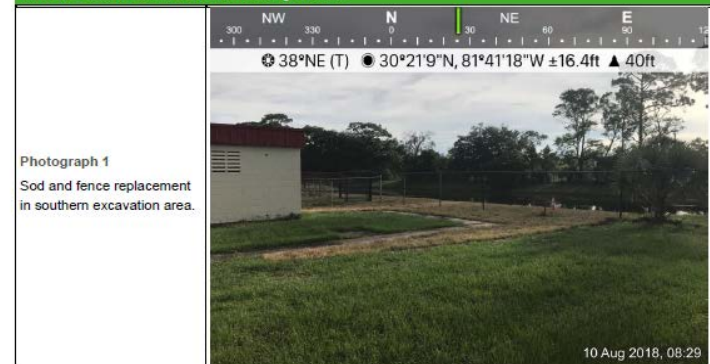
PERSONNEL HOURS

- S. Neal: 12
- K. Fraley: 12
- J. Brown: 1
- M. Crews: 2

August 10, 2018

FLR000227223

Fairfax – Susie E. Tolbert Elementary School





Daily Logs and Reporting

HEALTH AND SAFETY

- Daily H&S tailgate meetings: 1

SITE ACTIVITIES

- Loaded 4 trucks for T&D. Have not received 7/31 tonnage report from Waste Management. Total T&D tonnage through 7/30/2018 is 2,036.07 tons per Chesser Island logs (73 trucks).
- Received 31 trucks with 18 cubic yards of backfill each. Total backfill through 7/31/2018 is 630 cubic yards (35 trucks).
- Vacuum truck removed approximately 5,400 gallons of stormwater from excavation areas. Transported to LES for disposal as non-hazardous waste.

UPCOMING WORK SCHEDULED

- Continue hauling excavated soil to Chesser Island Landfill. Secondary weight scale location: Pilot Travel Center located at 4075 Jones Branch Road (~7 miles from the site). Continue backfilling excavation areas with fill provided by J.B. Coxwell's Plummer Road borrow pit.

COMMENTS/OBSERVATIONS

- No reported dust concentrations above 0.5 mg/m³ to date (4 mg/m³ action level). Stormwater controls include silt fencing around perimeter of excavation area, relevant sides of the retention pond, and the two stormwater drains. Soil stockpiles are covered with plastic sheeting when not in use and at the end of each day. Trucks are also loaded on plastic sheeting. Lightning shutdown for one hour.



What's Next?



What's Next?

- ◆ **Remedial Design will be completed by September 30th, 2018.**
- ◆ **Remedial Action funding will be received on September 30, 2018.**
- ◆ **EPA will host a Remedial Action kick off meeting in the fall:**
 - » To provide information about the cleanup;
 - » Answer questions related to the cleanup.
- ◆ **Cleanup work will begin in 2019.**

QUESTIONS

