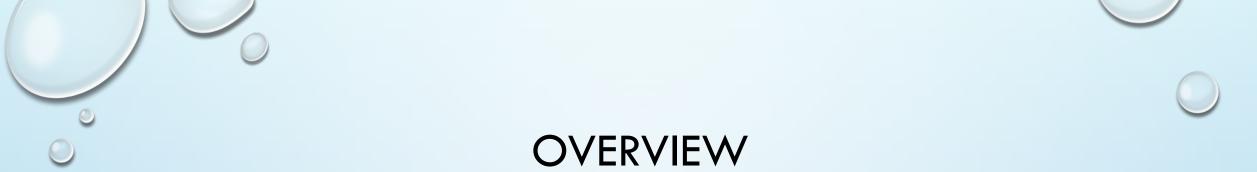


CONTAMINATED SITE INVESTIGATION AND CLEANUP

AASB SCHOOL DISTRICT MAINTENANCE EMPLOYEES CONFERENCE

OCTOBER 2018

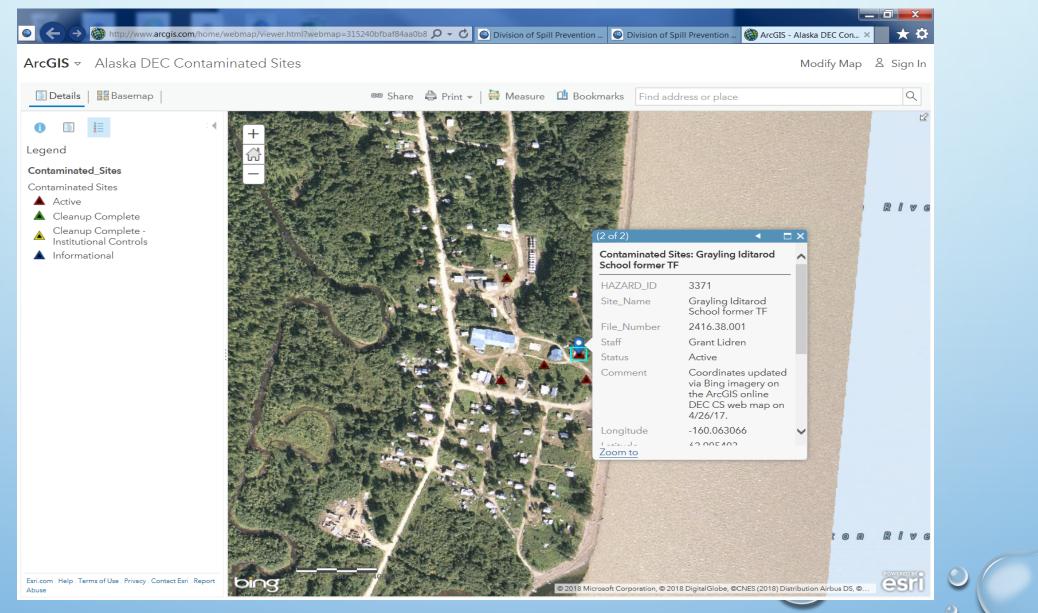


- AS NOTED, ANY RELEASE OF OIL OR OTHER HAZARDOUS SUBSTANCES MUST BE REPORTED TO ADEC. THE MAJORITY OF SCHOOL SITES ARE RELATED TO RELEASES FROM TANK FARMS AND PIPING
- IF THE SPILL RESPONSE IS NOT SUFFICIENT TO ALLOW FOR CLOSURE, THE SPILL IS TRANSFERRED TO
 THE CONTAMINATED SITES PROGRAM FOR FOLLOW UP
- ADEC REGULATIONS IN 18 AAC 75 PROVIDE THE BASIS FOR THE REQUIRED INVESTIGATION AND CLEANUP OF SITES
- GENERALLY, THE RESPONSIBLE PARTY MUST DELINEATE THE EXTENT OF CONTAMINATION IN SOIL AND GROUNDWATER, EVALUATE RISK TO HUMAN HEALTH AND THE ENVIRONMENT AND CONDUCT ADDITIONAL CLEANUP AS NECESSARY



- THE CS DATABASE IS THE STOREHOUSE OF STATEWIDE INFORMATION ON THE INVESTIGATION AND CLEANUP OF CONTAMINATED SITES
- THERE ARE CURRENTLY 83 SCHOOL SITES IN "ACTIVE" STATUS
- <u>HTTP://DEC.ALASKA.GOV/APPLICATIONS/SPAR/PUBLICMVC/CSP/</u> <u>SEARCH/</u>

CONTAMINATED SITES WEB MAP



INVESTIGATION/CLEANUP PROCESS

- THE RESPONSIBLE PARTY HIRES A QUALIFIED ENVIRONMENTAL PROFESSIONAL
 (QEP) TO DRAFT A WORK PLAN FOR REVIEW AND APPROVAL BY ADEC
- SOIL AND/OR WATER SAMPLES ARE COLLECTED
- INDOOR AIR CAN ALSO BE SAMPLED
- REPORT WRITTEN BY QEP
- ADDITIONAL INVESTIGATION, CLEANUP OR SITE CLOSURE AS APPROPRIATE

\$\$\$\$\$ HOW MUCH DOES THIS COST \$\$\$\$\$

- SITE INVESTIGATION CAN RUN ANYWHERE FROM \$5,000 TO \$100,000 BASED ON THE SCOPE OF WORK
- CURRENTLY, ADEC IS WORKING WITH THE DEPARTMENT OF EDUCATION ON FUNDING FOR THE INVESTIGATION AND/OR CLEANUP OF CONTAMINATION AT REAA SCHOOLS
- PROTECTION OF HUMAN HEALTH IS A TOP PRIORITY AND ADEC WILL WORK WITH SCHOOLS ON AN APPROACH THAT PROTECTS HUMAN HEALTH AND THE ENVIRONMENT WHILE
 RECOGNIZING THEIR FINANCIAL LIMITATIONS AND TAKING ADVANTAGE OF OPPORTUNITIES



- CAPITAL PROJECTS PROVIDE A GREAT OPPORTUNITY FOR SITE
 CLEANUP
- COORDINATE WITH OTHER PROJECTS IN A COMMUNITY
- USE LOCAL RESOURCES (BACKHOES, QUALIFIED SAMPLERS)



- THE EXTENT OF CLEANUP NECESSARY WILL VARY FROM SITE TO SITE
- BUILDINGS, UTILITIES, AND OTHER INFRASTRUCTURE CAN
 COMPLICATE CLEANUP EFFORTS
- ADEC GENERALLY BASES CLEANUP ON EXPOSURE PATHWAYS
- GROUNDWATER CONTAMINATION TAKES LONGER TO CLEANUP
 AND MONITOR THAN SOIL CONTAMINATION



- THERMAL REMEDIATION TYPICALLY TOO COSTLY OFF OF THE ROAD
 SYSTEM
- LANDFARMING HAS PROVEN TO BE AN EFFECTIVE TECHNIQUE AND THE MOST COMMON IN RURAL AREAS
- CONTAMINATED SOIL IS EXCAVATED AND TILLED THEN SAMPLED AFTER 1-2 SEASONS OF TREATMENT









LANDFARMING



LANDFARMING



KALTAG SCHOOL

 PROJECT STARTED IN 2014 AND INVOLVED EXCAVATION AND LANDFARMING OF A SIGNIFICANT QUANTITY OF SOIL AT TWO LOCATIONS









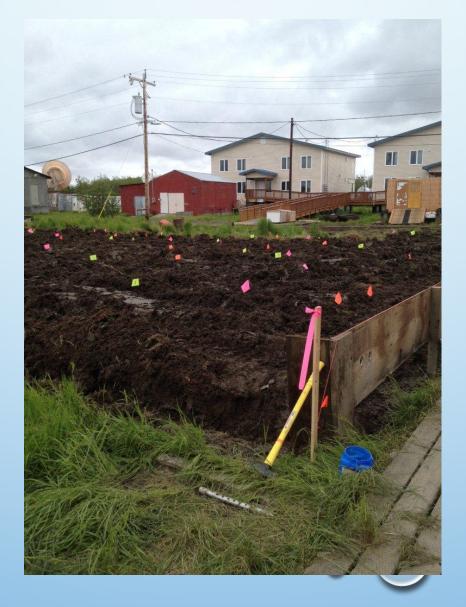


ARCTIC VILLAGE SCHOOL





NAPASKIAK





LANDFILL DISPOSAL

- CLASS I, II, AND III LANDFILLS HAVE DIFFERENT REQUIREMENTS
- DISPOSAL AT CLASS II AND III LANDFILLS REQUIRE COORDINATION WITH ADEC SOLID WASTE PROGRAM
- AT RURAL CLASS III LANDFILLS, MUST HAVE A BENEFICIAL USE (BERMS, COVER)
- MUST MEET 18 AAC 60.025 SOLID WASTE REGULATORY REQUIREMENTS





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