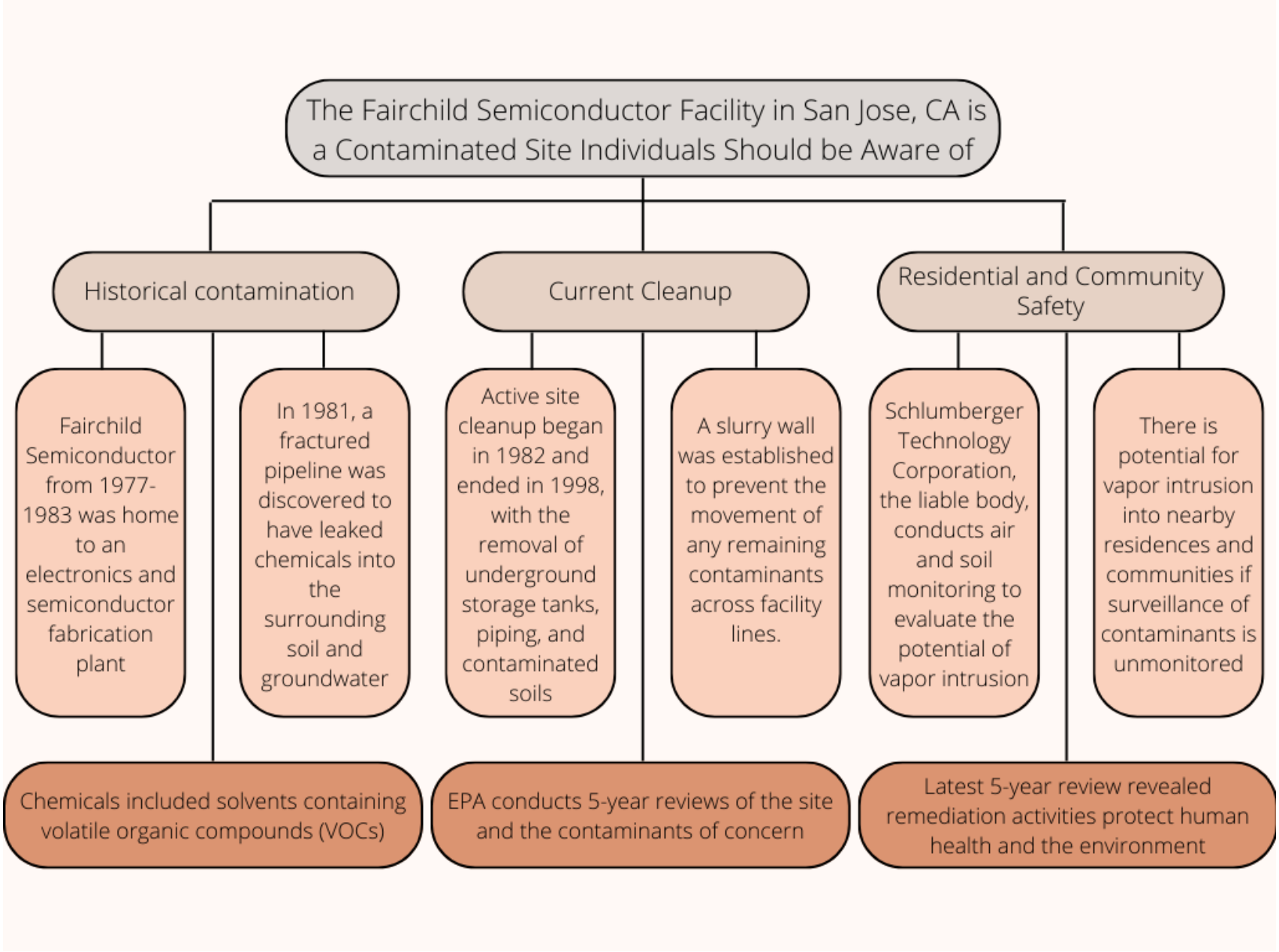
The group should submit a summary of the results of their quantitative risk analysis and the conclusions that can be drawn from the information (i.e., are these risks "acceptable"). A statement of public health actions that could be taken to address the potential risks (if any) should also be provided. Students should prepare a message map (see risk communication lecture for more information if needed) that includes key messages that you think should be presented to the community.

EPA Risk Calculator : https://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search

Exposure Scenario	Media	Concentration (µg/L)	Total? Cancer Risk	Cancer Risk Acceptability	Non-Cancer Risk	Non-Cancer Risk Acceptability
Default (Adult Resident)	Tap Water	1,1-DCA: 1700 1,2-DCA: 6.1 1,1-DCE: 5400 cisc-1,2-DCE: 43 1,4-Dioxane: 1300 Isopropanol: 1000 TCE: 6 Vinyl Chloride: 8.1	4×10^{-3}	Unacceptable Risk	5×10^{1}	Unacceptable Risk
Default (Child Resident)	Tap Water	1,1-DCA: 1700 1,2-DCA: 6.1 1,1-DCE: 5400 cisc-1,2-DCE: 43 1,4-Dioxane: 1300 Isopropanol: 1000 TCE: 6 Vinyl Chloride: 8.1	4×10^{-3}	Unacceptable Risk	5×10^{1}	Unacceptable Risk
Indoor Worker - ED: 25 years - EF: 250 days/year - ET: 8 hours	Soil	1,1-DCA: 1700 1,2-DCA: 6.1 1,1-DCE: 5400 cisc-1,2-DCE: 43 1,4-Dioxane: 1300 Isopropanol: 1000 TCE: 6 Vinyl Chloride: 8.1	TR = 1×10^{-6}	Acceptable Risk	THI = 1×10^{-1}	Acceptable Risk
Outdoor Worker - ED: 25 years - EF: 225 days/year - ET: 8 hours	Soil	1,1-DCA: 1700 1,2-DCA: 6.1 1,1-DCE: 5400 cisc-1,2-DCE: 43 1,4-Dioxane: 1300 Isopropanol: 1000 TCE: 6 Vinyl Chloride: 8.1	2×10^{-4}	Unacceptable Risk	6	Unacceptable Risk

Message Map:


The Fairchild Semiconductor Facility in San Jose, CA is a Contaminated Site Individuals Should be Aware of
Historical contamination
Current Cleanup
Residential and Community Safety
Fairchild Semiconductor from 1977-1983 was home to an electronics and semiconductor fabrication plant
In 1981, a fractured pipeline was discovered to have leaked chemicals into the surrounding soil and groundwater
Active site cleanup began in 1982 and ended in 1998, with the removal of underground storage tanks, piping, and contaminated soils
A slurry wall was established to prevent the movement of any remaining contaminants across facility lines.
Schlumberger Technology Corporation, the liable body, conducts air and soil monitoring to evaluate the potential of vapor intrusion
There is potential for vapor intrusion into nearby residences and communities if surveillance of contaminants is unmonitored
Chemicals included solvents containing volatile organic compounds (VOCs)
EPA conducts 5-year reviews of the site and the contaminants of concern
Latest 5-year review revealed remediation activities protect human health and the environment

- Main Message: Contaminated site at Fairchild Semiconductor Facility in San Jose, CA
    - Key Message 1: Historical contamination
        - Supporting Fact 1: A fractured pipeline was discovered in 1981.
        - Supporting Fact 2: Multiple chemicals were leaked out into the soil and groundwater
        - Supporting Fact 3: These chemicals are considered solvents and volatile organic compounds (VOCs), which can easily be emitted into the surrounding atmosphere.
    - Key Message 2: Current Cleanup Efforts in place
        - Supporting Fact 1: Active site cleanup began in 1982 and ended in 1998, with the removal of underground storage tanks, piping, and contaminated soils.
        - Supporting Fact 2: A slurry wall was established to prevent the movement of any remaining contaminants across facility lines.
        - Supporting Fact 3: EPA conducts 5-year reviews of the site and the contaminants of concern.
    - Key Message 3: Residential and community safety
        - Supporting Fact 1: EPA's last 5-year review revealed that the remediation activities protects human health and the environment.
        - Supporting Fact 2: There is potential for vapor intrusion into nearby residences and communities if surveillance of contaminants is unmonitored.
        - Supporting Fact 3: Schlumberger Technology Corporation, the liable body, conducts air and soil monitoring to evaluate the potential of vapor intrusion.