



MISSOURI HOUSE OF REPRESENTATIVES  
**WITNESS APPEARANCE FORM**

BILL NUMBER: <b>HCR 21</b>		DATE: <b>3/7/2023</b>	
COMMITTEE: <b>General Laws</b>			
<b>TESTIFYING:</b> <input checked="" type="checkbox"/> IN SUPPORT OF <input type="checkbox"/> IN OPPOSITION TO <input type="checkbox"/> FOR INFORMATIONAL PURPOSES			
<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>ANGELA HELBLING</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL:	ATTENDANCE:		SUBMIT DATE: <b>3/7/2023 12:00 AM</b>
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<b>WITNESS NAME</b>		
<b>INDIVIDUAL:</b>		
WITNESS NAME: <b>ARNIE C. "HONEST-ABE" DIENOFF-STATE PUBLIC ADVOCATE</b>		PHONE NUMBER:
BUSINESS/ORGANIZATION NAME:		TITLE:
ADDRESS:		
CITY:		STATE:                  ZIP:
EMAIL: <b>arniedienoff@yahoo.com</b>	ATTENDANCE: <b>Written</b>	SUBMIT DATE: <b>3/7/2023 11:59 PM</b>
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I am in Support of this Bill. There Needs to be Created an easily accessible Portal and Website on this Issue with all of the Documents being Publicly Disclosed and Transparent. I am in Favor of allowing the Missouri Attorney General, Department of Natural Resources and the Department of Public Health to Investigate these claims.



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<b>WITNESS NAME</b>			
<b>BUSINESS/ORGANIZATION:</b>			
WITNESS NAME: <b>ASHLEY BERNAUGH</b>		PHONE NUMBER: <b>812-457-2857</b>	
BUSINESS/ORGANIZATION NAME: <b>JANA ELEMENTARY PTA</b>		TITLE: <b>PRESIDENT</b>	
ADDRESS: <b>523 CHAPEL CROSS DR.</b>			
CITY: <b>FLORISSANT</b>		STATE: <b>MO</b>	ZIP: <b>63031</b>
EMAIL: <b>ashleybernaugh@gmail.com</b>	ATTENDANCE: <b>In-Person</b>	SUBMIT DATE: <b>3/7/2023 3:26 PM</b>	

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I share my personal and organizational perspective on the vast and legacy of radioactive contamination. Radioactive contamination has taken many lives and most recently taken our school, and exposed our children. But nothing I speak of is new, but rather decades and generations old. I offer to this committee information and notes that are reflective of the pervasiveness of the problem and the understood risks of such exposure. All of which are cited, linked, and provided via a google drive attachment to help aid your committee's important work. All documents cited provided for public documentation and access via this link,  
[https://drive.google.com/drive/folders/17T6b5OAJ6gE33faxPfipHopA\\_HrV0JjY?usp=sharing](https://drive.google.com/drive/folders/17T6b5OAJ6gE33faxPfipHopA_HrV0JjY?usp=sharing) Missouri Department of Natural Resources. 2002, May 13. "Reviewing the FUSRAP Proposed Cleanup Plan" (p. 4 - 8)  
[https://www.mvs.usace.army.mil/Portals/54/docs/fusrap/Admin\\_Records/NORCO/NCountySites\\_04.10\\_0003\\_a.PDF](https://www.mvs.usace.army.mil/Portals/54/docs/fusrap/Admin_Records/NORCO/NCountySites_04.10_0003_a.PDF) Link to document -  
<https://drive.google.com/file/d/1LA8mlhBkqo9MxNVuA06U5NFahECBBYkd/view?usp=sharing> Ashley Bernaugh, Ashley. 2018, March 2 through October 28 . Personal email correspondence with Army Corps of Engineers FUSRAP. Re: "Jana sampling" (p.1-3) Link to document -  
<https://drive.google.com/file/d/1OYyKrJPnYwwu6GVOahG8IMToW4g4SvKK/view?usp=sharing> Army Corps of Engineers FUSRAP. 2021, Nov. "Virtual Open House Meeting" transcript (p.1-3, 6-7) Link to document- <https://drive.google.com/file/d/12ezUKXuvihN3RB7wR4o4Qs1qBotRJvju/view?usp=sharing> Army Corps of Engineers FUSRAP. 2021, Dec. "Jana School Sample Locations" Received via FOIA by Ashley Bernaugh (p.1) Link to document -  
<https://drive.google.com/file/d/1EBO6Rqzs0JOK44dQ3GuYQyBC-l7zceSI/view?usp=sharing> Army Corps of Engineers FUSRAP. 2021, Dec. "Jana School Property Sample Locations" Received via FOIA by Missouri Coalition for the Environment (p.1) Link to document - [https://drive.google.com/file/d/1-6BA36Ywh42\\_3EGzSSqEO5r7fYN8xPUr/view?usp=share\\_link](https://drive.google.com/file/d/1-6BA36Ywh42_3EGzSSqEO5r7fYN8xPUr/view?usp=share_link) Army Corps of Engineers FUSRAP. 2022. "Jana School Property Sample Data - Data Summary" Received via FOIA by Missouri Coalition for the Environment. Notes and analysis by Ashley Bernaugh. Link to document -  
[https://drive.google.com/file/d/1ixSCwxRbT4zbGiXuYd0iwkDj1-qwTD0y/view?usp=share\\_link](https://drive.google.com/file/d/1ixSCwxRbT4zbGiXuYd0iwkDj1-qwTD0y/view?usp=share_link) Army Corps of Engineers FUSRAP. 2022. "Jana School Property Sample Data" Received via FOIA by Missouri Coalition for the Environment. Notes and analysis by Ashley Bernaugh. Link to document -  
<https://docs.google.com/spreadsheets/d/1PeGxhpsSqksXyxEMUVVvUVcWBEs4bA5s/edit?usp=sharing&oid=105691270485466515391&rtpof=true&sd=true> Jana PTA Leadership. 2022, July 29. "Letter to PTA Members and Community". (p.1-2) Link to document -  
[https://drive.google.com/file/d/1a9Z7boB3sQW6xScRRoGgHbS8KUVIpXra/view?usp=share\\_link](https://drive.google.com/file/d/1a9Z7boB3sQW6xScRRoGgHbS8KUVIpXra/view?usp=share_link) Jana PTA Leadership. 2022, October 14. "Jana Update Letter sent to PTA Members and Community". (p.1-2)

Link to document - [https://drive.google.com/file/d/1xOBpinzu7PdC\\_g1Gn7QPH097ilnghHJy/view?usp=share\\_link](https://drive.google.com/file/d/1xOBpinzu7PdC_g1Gn7QPH097ilnghHJy/view?usp=share_link)



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<b>WITNESS NAME</b>			
<b>BUSINESS/ORGANIZATION:</b>			
WITNESS NAME: <b>BENNETTE DIBBEN</b>		PHONE NUMBER: <b>816-447-7079</b>	
BUSINESS/ORGANIZATION NAME: <b>PEACE WORKS KANSAS CITY</b>		TITLE:	
ADDRESS: <b>4509 WALNUT</b>			
CITY: <b>KANSAS CITY</b>		STATE: <b>MO</b>	ZIP: <b>64111</b>
EMAIL:	ATTENDANCE:	SUBMIT DATE: <b>3/7/2023 12:00 AM</b>	
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<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>BETH BROOKSHIRE</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL:	ATTENDANCE:		SUBMIT DATE: <b>3/7/2023 12:00 AM</b>
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<b>WITNESS NAME</b>		
<b>INDIVIDUAL:</b>		
WITNESS NAME: <b>CASIE SCHINDLER</b>		PHONE NUMBER:
BUSINESS/ORGANIZATION NAME:		TITLE:
ADDRESS:		
CITY:		STATE:      ZIP:
EMAIL: <b>casieschindler01@gmail.com</b>	ATTENDANCE: <b>Written</b>	SUBMIT DATE: <b>3/6/2023 7:49 PM</b>

**THE INFORMATION ON THIS FORM IS PUBLIC RECORD UNDER CHAPTER 610, RSMo.**

Hello, I grew up in Florissant from 1982-1994 in Paddock Estates. As many children during this time I enjoyed playing outside and going around the neighborhood with my friends. One of the things we would do is ride our bikes to the edge of the golf course that backed up to our neighborhood and play in rain runoff areas and down to Coldwater Creek. We loved finding golf balls that we could play with. We also liked finding snakes and throwing them at each other. Plus the creek gave us a nice place to cool off on hot summer days. When not running around the neighborhood, I enjoyed playing in my own backyard. I loved to dig in the dirt to see how far down I could get with just a stick, and make mud pies. I always enjoyed helping my mom in the yard so I could dig up worms and scare her with them. At the time I had no idea how toxic the land was, and my parents didn't either. At 18 I started to have health problems. At 18 I had to have emergency surgery to remove an ovarian cyst that was the size of a lemon. At 20 I had to have surgery to remove another ovarian cyst and endometriosis. At that time they put me on strong medications to try to stop this from happening again. At age 22 I had to have surgery to remove my left ovary due to another large cyst, they also had to remove more endometriosis. Also at age 22 I started to have severe pain in my back, hips, and legs. I had to start walking with a cane while the doctors tried to figure out what was wrong with me. After 1 1/2 years of many tests, and trying different medications, I was diagnosed with fibromyalgia. The reason it took them so long to diagnose me with fibromyalgia is because of how young I was. I was lucky enough to have two children with just my one ovary at the ages of 25 and 26. At age 27 I had to go back on the strong medicines to try to control my endometriosis. At age 29 I had to have a hysterectomy due to more issues with endometriosis. At the age of 33 I had to have my right ovary taken out. The doctor said she couldn't believe how bad of shape it was in. Filled with several cysts and twisted. At 36 I was diagnosed with a Trigeminal Schwannoma. The doctor kept saying he doesn't see patients as young as me. He usually see patients in their sixties and seventies. At 37 I had to have the brain tumor removed. With that surgery I developed an infection and had to go in for another brain surgery 7 weeks after the first one. A week later I was in the hospital due to an infection due to the surgery again. I had to have a PICC line put it, and had that for 6 weeks. The tumor damaged the nerves in my brain, and left me with trigeminal neuralgia and migraines. I have to get a MRI yearly, and see the neurosurgeon yearly to make sure the tumor has not grown back. I also have to see a neurologist yearly to keep up my medicines to make me somewhat comfortable. A good day for me is when my pain is a 4 out of 10. Now at the age of 43 I have been diagnosed with rheumatoid arthritis. I am in constant, horrible pain. A good day for the pain I am in now is a 6 out of 10. I have to suffer in this pain until I can be seen by a rheumatologist. I feel lucky that I was able to get into one in three months, considering other ones I was looking at were an eight to ten month wait. The doctor was very confused by me considering no one in my family has rheumatoid arthritis. He also said he could not get over how high my blood tests were. He said he has never seen levels as high as mine are. I have gotten to the point where I'm always worried about what will be the

next illness to affect me. It seems that my exposure to the creek got passed onto my kids also. My oldest who is 17 has autism, adhd, and asthma. My youngest who is 16 has autism, asthma, food allergies, atopic dermatitis, and psoriasis. No one in our family has psoriasis. The doctor was confused how my youngest got psoriasis with no family history of it. Neither my husband or I have autism either. With all of the health struggles I have had, I've taken some time to look at maps of the area I grew up in. It was interesting to find that Coldwater Creek ran through my neighborhood before it was built. When they built the neighborhood they rerouted the creek. Where my house sat, was about where the creek was. I wish I could be in Jefferson City today to show my support, but I have a psychologist appointment that was hard to get to help me deal with having another illness diagnosed recently. I did not feel I could cancel the appointment to attend. I need to try to keep my mental health stable to still care for my family. Thank you for your time, Casie Schindler





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<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>CB CROYLE BUNTAINE</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL:	ATTENDANCE:		SUBMIT DATE: <b>3/7/2023 12:00 AM</b>
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<b>WITNESS NAME</b>			
<b>REGISTERED LOBBYIST:</b>			
WITNESS NAME: <b>CHARLES MILLER</b>		PHONE NUMBER: <b>314-399-8454</b>	
REPRESENTING: <b>MISSOURI CONFLUENCE WATERKEEPER</b>		TITLE: <b>POLICY MANAGER</b>	
ADDRESS: <b>3120 LOCUST STREET</b>			
CITY: <b>ST. LOUIS</b>		STATE: <b>MO</b>	ZIP: <b>63103</b>
EMAIL: <b>charles@mowaterkeeper.org</b>	ATTENDANCE: <b>In-Person</b>	SUBMIT DATE: <b>3/7/2023 12:29 PM</b>	

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Chair Riley and Members of the Committee, Missouri Confluence Waterkeeper is a grassroots, citizen-led conservation organization focused on clean water and dedicated to protecting fishable, swimmable water for all Missourians. Waterkeeper is a member of Waterkeeper Alliance, a global network of more than 340 independent clean water organizations across six continents, dedicated to protecting local waterways and defending right to fishable, swimmable, drinkable water. We strongly support HCR 21 and consider it an indispensable first step in justice for people in Bridgeton, Hazelwood, Florissant, and other communities in north St. Louis County. From the time this contamination was created until now, people who live in these communities have been failed by the companies that were responsible for this waste, and by their government, which has failed to hold those responsible accountable. The radioactive contamination of these communities is not widely known outside of Missouri. I consider myself a knowledgeable person when it comes to the environment and pollution, but before I moved here, I was completely unaware of the contamination of communities in the United States by Manhattan Project waste. It is a fact that has remained hidden for most of the country for too long. It is a travesty that in the richest country on earth, we have entire communities of people who do not know whether their homes are threatening to make them sick, whether they can safely take part in everyday activities in their neighborhoods, or whether their kids will be exposed to environmental toxins at school. The Army Corps often mentions that the radioactive contamination known to exist in Coldwater Creek and its floodplain is safe "in its current configuration." This might sound comforting, but when one investigates what the Army Corps means by "current configuration," it reveals that people living in the affected area cannot take part in some incredibly basic activities on their own property. Activities as fundamental as planting a tree or vegetable garden in your own backyard can change the "configuration," and expose families to radioactivity. The contamination of these communities started a cascading effect we see all too often when it comes to pollution. They not only face the consequences of the mishandling of this radioactive waste, but increased health risks from other forms of contamination. Communities in north St. Louis County face higher levels of numerous environmental health risks compared to the rest of our country. Hazelwood is in the 97th percentile of lifetime cancer risk from toxic air pollutants. Much of north County is in the 95th percentile of the EPA's air toxics hazard index, which accounts for impacts other than cancer. Hazelwood and surrounding areas are closer to facilities that handle dangerous chemicals than 90% of the United States. And nearly all of north St. Louis County is in the 99th percentile of EPA's wastewater dischargers indicator, which models the concentration of toxic pollutants in surface water like creeks, streams, rivers, and ponds. You can call this "disproportionate burden," you can call this an environmental justice issue, but whatever you call it, it is apparent that our neighbors in north St. Louis County are exposed to environmental contaminants at levels far beyond their fair share. Waterkeeper has also done testing for

some emerging contaminants, PFAS, in Coldwater Creek. These “forever chemicals” are associated with harm to the endocrine system, increased risk of cancer, and pre- and perinatal health impacts. This was part of a nationwide sampling effort undertaken by members of Waterkeeper Alliance. We found the highest level of total PFAS contaminants in the Midwest and some of the highest in the nation in Coldwater Creek. These contaminants are not associated with the Manhattan Project waste, and are coming from another source or sources. This underscores the fact that north St. Louis County has become a dumping ground for polluters. We plan to continue to conduct further sampling of the creek for these chemicals as well as radiological contamination later this year, in partnership with Missouri Coalition for the Environment. These environmental injustices alone would be bad enough, but the combination of multiple forms of pollution compounds the risks faced by residents of north St. Louis County. It is difficult enough to limit one’s exposure to contaminated soil, or polluted air or water. When all three are contaminated, it becomes impossible to do so. One of the standard maxims of tort law, or the law of accidents, is that the victims should be compensated in such a way that the impacts of the accident are minimal – so that they can be “made whole.” We hope that our testimony underscores the fact that it will take an incredible amount of resources to make the people who live or have lived in these communities whole. HCR 21 is a critical first step in that process. Finally, we would like to remind the committee that while the issues faced by people in north St. Louis County are unique, they are not alone in bearing a disproportionate burden of environmental contamination. There are numerous bills, including three from the sponsor of this concurrent resolution, that would address hazardous waste or pollution. We urge you to support those bills when they come before any committee you are a member of, or when they make it to the floor, just as we urge you to support this concurrent resolution.



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<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>CHERI PIERCE</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL: <b>cpierce8@gmail.com</b>		ATTENDANCE: <b>Written</b>	SUBMIT DATE: <b>3/5/2023 3:07 PM</b>

**THE INFORMATION ON THIS FORM IS PUBLIC RECORD UNDER CHAPTER 610, RSMo.**

I am in support of this Bill to include those of us affected by the radioactive waste dumped by our Government in North County and including Coldwater Creek and surrounding areas. I grew up and lived in Florissant Mo 63031 one street over from the creek at age 4 from 1967-1984 and then within a half mile of it from 1987-2002. As a child I played in the creek and nearby woods innumerable times. In 2001 I was diagnosed with Papillary Thyroid cancer that had spread into the lymph nodes in my neck. As a result I had my thyroid removed along with numerous cancerous lymph nodes that year, a partial radical neck dissection to remove more cancerous lymph nodes in 2004, and another surgery in 2010 to remove additional lymph nodes. As a result of this condition in addition to the surgeries I've lost the function of most salivary glands on the left side of my mouth. I've had 4 PETScans, have expensive bloodwork yearly, as well as ultrasounds to monitor and check for additional cancer and yearly appointments with an Endocrinologist. Since I no longer have a thyroid I take medication to replace the hormones that the body requires to function. These hormones have resulted in me now having Atrial Fibrillation which has resulted in 3 cardio conversions, 1 cardio ablation, and taking betablockers as well as blood thinners- all before the age of 60! I know 2 other people that have had this same Cancer as well as many, many more people who are either being treated for, or have lost their lives to cancer of breast, colon, lung, bile duct, kidney or leukemia. One friend alone lost her father when she was 14, and in later years her brother and sister-2 from lung, 1 from leukemia. Another lost his 2 sisters and mother to leukemia. My brother in law died from sarcoma of unknown origin within 1 month of diagnosis in 2015 and now his youngest brother is in the end stages of his own battle. This all HAS to be more than a coincidence!! We all grew up living near and playing in the creek and woods as children and are now reaping the consequences of our Governments action of dumping nuclear waste and by not living up to its duty to provide a safe environment. The Government needs to redress the pain and suffering it has inflicted on our citizens. Thank you for hearing my testimony. Cheri Pierce



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<b>WITNESS NAME</b>			
<b>BUSINESS/ORGANIZATION:</b>			
WITNESS NAME: <b>CHRISTEN COMMUSO</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME: <b>MISSOURI COALITION FOR THE ENVIRONMENT</b>		TITLE: <b>COMMUNITY OUTREACH SPECIALIST</b>	
ADDRESS:			
CITY: <b>ST. LOUIS</b>		STATE: <b>MO</b>	ZIP: <b>63130</b>
EMAIL: <b>ccommuso@moenvironment.org</b>	ATTENDANCE: <b>In-Person</b>	SUBMIT DATE: <b>3/7/2023 10:53 AM</b>	
<b>THE INFORMATION ON THIS FORM IS PUBLIC RECORD UNDER CHAPTER 610, RSMo.</b>			

March 07, 2023 Chairman Alex Riley General Laws Committee MO House of Representatives 201 W Capitol Ave., Hearing Rm. 7 Jefferson City, MO 65101 Dear Chairman Riley and Members of the Committee, Missouri Coalition for the Environment (MCE) is a statewide, advocacy nonprofit organization that works to empower Missourians to protect their environment and health. Our organization has been working on this issue for many decades dating as far back as our founding member, Mrs. Kay Drey. Kay was the first to sound the alarm on St. Louis' radioactive legacy and is invaluable to the cause. She sat on the 1996 St. Louis Sites Remediation Task Force, fought against a permanent storage facility at the St. Louis Airport, and helped secure an amended Record of Decision at the West Lake Landfill. In fact, many of us testifying today have gleaned from her many hours of research and massive library of documents. MCE supports HCR 21 because we believe St. Louisans deserve access to medical and financial resources to help address the high rates of illness associated with the radioactive weapons waste contamination. It is a chance to right some of the historic wrongs done to the unsuspecting citizens of the region. Over the last decade, there have been two public health studies conducted on the areas surrounding the radioactive weapons waste contamination in North St. Louis County. The cancer analysis by the Missouri Department of Health and Senior Services (MODHSS) and Public Health Assessment by the federal Agency for Toxic Substances and Disease Registry (ATSDR) concluded that those living amongst this waste show higher incidences of cancer compared to the rest of Missouri. What's telling is the type of cancers represented in those studies are the same cancers recognized by the federal health programs for uranium workers and those exposed to the atmospheric bomb testing in the western portion of the United States during the Manhattan Project and Cold War years. ATSDR, in addition to the public health assessment, released a Preventing Potential Exposures from Coldwater Creek Fact Sheet and recommendations for future sampling and signage along the creek. To date, the recommendations have not been accepted by the US Army Corps of Engineers (USACE) despite the former USACE Project Manager, Gerald Allen, admitting the radioactive weapons waste presents "a chronic, long-term risk" to public health. Further, Dr. Faisal Khan, the former St. Louis County Director of Public Health wrote a letter for residents to share with their physicians outlining their potential exposure and associated health risks. St. Louis County also has an Emergency Shelter in Place/Evacuation plan for the West Lake Landfill should the underground fire collide with the radioactive waste illegally dumped there. According to USACE, there are over 700 known contaminated properties along Coldwater Creek alone. This includes residential yards, schools, parks, and businesses. Please keep in mind, some properties have denied USACE access to test and inaccessible contaminated soils may remain at both the north county and downtown sites. This does not account for any contaminated soil that may have been spilled or used for construction or gardens

before the public was aware of the danger. One recent example came to light after contamination was confirmed on the property of Jana Elementary School in the Hazelwood School District. There is concern that potentially contaminated soil was moved to the Hazelwood Central High School to level out the football field. Without historical eyewitness knowledge from the last eighty years, we may never know exactly where all this waste ended up in our communities. It's also worth noting that the contamination levels that trigger a cleanup under the USACE North County Record of Decision are sometimes far greater than what we would find to naturally occur in the environment, or what is called background levels. Meaning, if the contamination doesn't meet their remedial goals, USACE can leave this contamination on a property even if it exists on the surface. For your reference, I've included what the naturally occurring background levels are for north county versus USACE remedial goals.

Background levels in NoCo (PDF pg. 96) Surface Soil (0–6 inches): Radium-226: 0.95 pCi/g Thorium-230: 1.49 pCi/g Uranium-238: 1.08 pCi/g Subsurface Soil (below 6 inches): Radium-226: 1.15 pCi/g Thorium-230: 1.83 pCi/g Uranium-238: 1.27 pCi/g USACE NoCo Remedial Goals (PDF pg. 95) Surface Soil: Radium-226: 5 pCi/g Thorium-230: 14 pCi/g Uranium-238: 50 pCi/g Subsurface Soil: Radium-226: 15 pCi/g Thorium-230: 15 pCi/g Uranium-238: 50 pCi/g Sediment in the Creek: Radium-226: 15 pCi/g Thorium-230: 43 pCi/g Uranium-238: 150 pCi/g

Adding to the exposure risk, the Environmental Protection Agency (EPA) recently discovered more on- and off-site contamination at the West Lake Landfill. Because of:

- the long, secretive history surrounding the Manhattan Project and Cold War uranium processing in the region
- the negligent transportation and storage of the waste
- USACE cleanup goals for north county allow waste to be left behind
- the fact that USACE estimates it will be another 15 years before they complete their cleanup plan in north county
- EPA will not begin the cleanup of West Lake Landfill until March 2024
- the underground fire in the adjacent section of the landfill still burns
- the state and federal health agencies' confirmation that residents in north county have a higher risk for developing cancers and other life-altering diseases
- the ignored recommendations, and
- the emergency action plans

MCE supports medical monitoring and compensation for those that have been harmed and ask that the members of this committee also support HCR 21. Thank you for your time. Sincerely, Christen Commuso

Community Outreach Specialist Missouri Coalition for the Environment  
ccommuso@moenvironment.org(314) 727-0600

REFERENCE LINKS: United Energy Workers Healthcare list of covered cancers under RECA & EEOICPA:  
<https://www.uewhealth.com/cancers-covered-eeoicpa-reca/2014> Missouri Department of Health & Senior Services Cancer Analysis:

<https://health.mo.gov/living/healthcondiseases/chronic/cancer/pdf/ccanalysisSept2014.pdf> 2019 Agency for Toxic Substances and Disease Registry (ATSDR) Coldwater Creek Reports and Resources:

[https://www.atsdr.cdc.gov/sites/coldwater\\_creek/resources.html](https://www.atsdr.cdc.gov/sites/coldwater_creek/resources.html) ATSDR Preventing Potential Exposures:

[https://www.atsdr.cdc.gov/sites/coldwater\\_creek/docs/coldwater\\_creek\\_factsheet\\_508.pdf](https://www.atsdr.cdc.gov/sites/coldwater_creek/docs/coldwater_creek_factsheet_508.pdf) ATSDR Key Findings and Recommendations: [https://www.atsdr.cdc.gov/sites/coldwater\\_creek/docs/CommunityFS-508.pdf](https://www.atsdr.cdc.gov/sites/coldwater_creek/docs/CommunityFS-508.pdf)

Video of former US Army Corps Project Manager stating a chronic, long-term risk exists:  
<https://drive.google.com/file/d/1szIEpQZAsHWjACQyLJSbZ7M9BmjK8E0Y/view?usp=sharing> Letter written By Faisal Khan, MBBS, MPH, Director, St. Louis County Department of Public Health regarding exposure to Coldwater Creek & the West Lake Landfill:

<https://drive.google.com/file/d/1QVQvm6uLXEqjsebcdehUKN9u4d5CBUi/view?usp=sharing> St. Louis County Emergency Management West Lake Landfill Shelter In Place/Evacuation Plan:

<https://drive.google.com/file/d/1m0WEA5TnAlcCgBXinhixhOZocGYnV6P9/view?usp=sharing> USACE 2005 North County Record of Decision:

[https://www.mvs.usace.army.mil/Portals/54/docs/fusrap/docs/Final\\_ROD\\_linked.pdf](https://www.mvs.usace.army.mil/Portals/54/docs/fusrap/docs/Final_ROD_linked.pdf) EPA West Lake Landfill Dashboard: <https://www.epa.gov/mo/west-lake-landfill-dashboard>

St. Louis Post Dispatch article: Concerns linger as completion date for Coldwater Creek cleanup pushed to 2038:

[https://www.stltoday.com/news/local/metro/concerns-linger-as-completion-date-for-coldwater-creek-cleanup-pushed-to-2038/article\\_45ee5915-7eff-59d6-a378-7ab4a27d75d7.html](https://www.stltoday.com/news/local/metro/concerns-linger-as-completion-date-for-coldwater-creek-cleanup-pushed-to-2038/article_45ee5915-7eff-59d6-a378-7ab4a27d75d7.html) ADDITIONAL PERSONAL TESTIMONY: Collateral Damage: A tale of becoming radioactive by Christen Commuso

The lights are low creating a soft yellow-orange glow. The room is cold, but the caring technician tucks me in with the warmest blankets the little electric warmer can offer. She attempts to comfort me with small talk and gentle direction. As she carefully guides the soundwaves into my neck, I feel the sudden shift in her demeanor. Her voice is no longer light and cheerful and with one sentence, I knew I was in trouble. "I'm going to go get the doctor," she said. This wasn't my first time on a cold, hard bed surrounded by magic machines and warm blankets. This was, however, the first time a doctor was being retrieved. As I lay in wait, my mind knew what my heart wasn't ready to accept. This short moment in time would lead me to the fury of 10 tiny needles and three words that would alter my life forever, "you have cancer." That call would come on St. Patrick's Day. "Lucky" for me, I was told it's the best cancer you can get. My scars from the months prior had barely begun to heal. Is this my new normal? I began to dread a trip to the doctor with the deepest part of my soul. A new diagnosis seemed to come standard with

each visit and I wasn't sure I could handle much more. In the 11 months between June 2012 and May 2013, I had my gallbladder removed, underwent a total hysterectomy, my left adrenal gland was removed, and was diagnosed with thyroid cancer (also removed). In 2014, doctors found a lesion in my liver and a tumor on my remaining right adrenal gland. The later two are still under close watch. As I recovered from the surgeries and underwent treatment, the reality of my home sweet toxic home became increasingly clear and we were beginning to discover what only a few had already known. It all began to hit me like a ton of radioactive bricks. My parents both grew up in Berkeley just downwind of the Airport and Latty Avenue sites, both would lose their fathers to cancer. Thus, denying me the privilege of ever knowing either. I was born in St. Ann where I would live until I was seven. It was the eighties - a time before gadgets and gizmos and neighborhood kids ran the streets until dark. Our house was just down the street from a park which set the backdrop for many of my earliest memories. Coldwater Creek would become a staple of most warm afternoons. We loved to search for golf balls that had been hit into the creek from the nearby golf course. Bright pink and yellow were my favorite finds. As we grew, my parents came to the realization that they needed a little more space for us. Wanting to stay in the school district, we moved to Maryland Heights less than 2 miles as the crow flies from West Lake Landfill. I would meet several friends that lived in Spanish Village. Everything I ever knew started to feel like one big lie. Was I just a government lab rat that was being left to die? The events that unfolded and the rise of social media would bring thousands of residents together. We all began to connect the dots and those dots became people, humans that had been left behind to suffer the consequences and mistakes of our government and military. We are unintended, yet not prevented, casualties of war. My newfound knowledge would catapult me into becoming an advocate for others and an activist fighting for restitution. I was thrust into what felt like a bad science fiction movie, but the truth is, our reality was much worse than anyone could have imagined. The next five years of my life would be consumed with letters and testimony to Congress, community meetings, protest, and enough tears to fill the potentially contaminated Missouri and Mississippi Rivers. I would also begin working closely with Just Moms STL providing any help or support I could offer. These amazing moms started a movement that garnered the attention of our local, state, federal representatives, news outlets from around the world, and filmmakers that would share our stories on the big screen. Five long years of constant effort and sacrifice has culminated in an amended final remedy for the West Lake Landfill, but we mustn't stop there. The road is still long and I cannot, and neither should you, sit idly by when our people are crying out for help. This legacy must end with us. I've come to conclude that it may be too late for me, but it's never too late to protect the future. So, when my time on earth comes to an end, at least I can go knowing that I did all I could to save the city that killed me. ...This was written in 2018. I have since positioned myself professionally to continue fighting for the community and I intend to do so until I can no longer. But the truth is, I'm tired. I am in constant pain from all the surgeries, I fight through hormone dysfunction, massive brain fog and fatigue, intense feelings of stress and anxiety caused by the tumor on my remaining adrenal gland, and I have since developed a growth in one of my breasts that appears to be benign, but given my history, I have been required to get mammograms every year. Every six months I have to go to the hospital to monitor my bloodwork and every couple of years I am supposed to have adrenal and liver scans. All of this is not only emotionally draining and scary, but it's also a huge financial burden. There have been times that the cost becomes too great and I skip important visits or scans. Not to forget the cost of my monthly medications. I tell you this because I need the committee to understand that for each one of us here today, there are probably twenty back home facing the same challenges, or worse. That's why I'm here asking you to stand with us; help ease some of our burden and fight for the medical monitoring and compensation this region deserves. Now is the time for the people and the state to work together. St. Louis stepped up to save the nation, now it's time the nation stepped up to save St. Louis. I urge the committee to support HCR 21.



MISSOURI HOUSE OF REPRESENTATIVES  
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COMMITTEE: <b>General Laws</b>			
<b>TESTIFYING:</b> <input checked="" type="checkbox"/> IN SUPPORT OF <input type="checkbox"/> IN OPPOSITION TO <input type="checkbox"/> FOR INFORMATIONAL PURPOSES			
<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>CHRISTIE MILLER LANDHOLT</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL:	ATTENDANCE:		SUBMIT DATE: <b>3/7/2023 12:00 AM</b>
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<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>CINDY RYDBERG</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL:	ATTENDANCE:	SUBMIT DATE: <b>3/7/2023 12:00 AM</b>	
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<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>CLARISSE TEEPE-FRYREAR</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL: <b>twothewoods@hotmail.com</b>		ATTENDANCE: <b>Written</b>	SUBMIT DATE: <b>3/6/2023 7:58 PM</b>
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Please support HCR 21.



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<b>WITNESS NAME</b>			
<b>BUSINESS/ORGANIZATION:</b>			
WITNESS NAME: <b>DANIELLE SPRADLEY</b>		PHONE NUMBER: <b>314-797-0395</b>	
BUSINESS/ORGANIZATION NAME: <b>OFFICE OF CONGRESSWOMAN CORI BUSH</b>		TITLE: <b>OUTREACH DIRECTOR</b>	
ADDRESS: <b>6724 PAGE AVE.</b>			
CITY: <b>ST. LOUIS</b>		STATE: <b>MO</b>	ZIP:
EMAIL:	ATTENDANCE:	SUBMIT DATE: <b>3/7/2023 12:00 AM</b>	
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<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>DAWN CHAPMAN</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL:	ATTENDANCE:	SUBMIT DATE: <b>3/7/2023 12:00 AM</b>	
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<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>DEBI DISSER</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL:	ATTENDANCE:		SUBMIT DATE: <b>3/7/2023 12:00 AM</b>
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<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>DEBRA VOLZ</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL:	ATTENDANCE:	SUBMIT DATE: <b>3/7/2023 12:00 AM</b>	
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<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>DR. KIMBERLY M. VISINTINE</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL:	ATTENDANCE:	SUBMIT DATE: <b>3/7/2023 12:00 AM</b>	
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<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>GWENDOLYN VERHOFF</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL:	ATTENDANCE:	SUBMIT DATE: <b>3/7/2023 12:00 AM</b>	
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<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>HARVEY FERDMAN</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL:	ATTENDANCE:		SUBMIT DATE: <b>3/7/2023 12:00 AM</b>
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<b>WITNESS NAME</b>		
<b>INDIVIDUAL:</b>		
WITNESS NAME: <b>HILARY BILLMAN</b>		PHONE NUMBER:
BUSINESS/ORGANIZATION NAME:		TITLE:
ADDRESS:		
CITY:		STATE:      ZIP:
EMAIL: <b>billmanhilary@gmail.com</b>	ATTENDANCE: <b>Written</b>	SUBMIT DATE: <b>3/5/2023 4:49 PM</b>
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My name is Hilary Billman and I am writing on behalf of my brother Andrew, who died of a rare cancer caused by nuclear waste in north county St. Louis. My family has no history of cancer on either side of our family. In 1968, my parents (who had a 10 month old and a 2 1/2 year old) signed a lease on a rental house at 277 Palm Drive in Hazlewood, MO. I was born in 1969 and we moved out of the house in 1970. For those two years on Palm Drive, my brother, Andrew Barton, spent all of his time outside. He was a hyperactive kid and loved playing in the dirt, leaves, and water. St. Cin Park is about 100 yards--13 houses--away from 277 Palm Drive, at the end of the dead-end street. Coldwater Creek runs through the park and behind the fences in a couple of the back yards closest to the park. The other houses, including 277, have a ditch at the back end of the yards that floods with creek water. My mom remembers the creek flooding and water lapping into our vegetable garden and into the basements of the houses on Palm Drive. All the time Andrew was outside playing, he was breathing dust from the nuclear waste in the creek. He ate dirt and played in the water, and the nuclear waste slowly formed into a tumor that was discovered when he was 48 years old. Andrew was diagnosed with Stage 4 Synovial Sarcoma in February 2014. This type of cancer is very rare in adults. In November of 2013, doctors thought Andrew had pneumonia. At the end of December in 2013, he was sick again and an x-ray showed something on his lung that wasn't fluid. By February, he had a lump on his neck that he thought was from a car accident years ago biopsied. It was a tumor. Andrew had surgery to remove the tumor from the soft tissue and muscles of his cervical and thoracic vertebra. The tumor had spidered into his muscles and spine and the surgery was difficult. Over the next 4 years, Andrew would endure over 9 different types of chemotherapy and clinical trials, most of which made living difficult. Andrew died on January 24, 2018. We miss him terribly. My family, especially Andrew's parents and his children, wants you to know Andrew's story because he was taken from us far too soon. We believe victims of nuclear waste in St. Louis and St. Charles Counties should receive compensation from the United States government. This legislation will do nothing to help with the grief but it will help to know that the government is finally taking accountability for this tragedy that has affected so many families.



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<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>IZZABELLA ANNE RICHMOND</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL:	ATTENDANCE:	SUBMIT DATE: <b>3/7/2023 12:00 AM</b>	
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<b>WITNESS NAME</b>		
<b>INDIVIDUAL:</b>		
WITNESS NAME: <b>JAN M REGNIER</b>		PHONE NUMBER:
BUSINESS/ORGANIZATION NAME:		TITLE:
ADDRESS:		
CITY:		STATE:      ZIP:
EMAIL: <b>janregnier@gmail.com</b>	ATTENDANCE: <b>Written</b>	SUBMIT DATE: <b>3/4/2023 1:31 PM</b>
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I have several autoimmune diseases, Rheumatoid Arthritis, Sjogren's Syndrome, Raynaud's Syndrome, possible Lupus. I had breast cancer and received successful treatment having caught it early. I have gastrointestinal issues involving three stomach surgeries. My mother died from cancer of the uterus. My father died from dementia. We lived in Florissant on Parakeet Lane from approximately 1961 to 1971. We lived in Florissant on Langholm Drive with the creek in our backyard from 1971 to 1981. I worked at Cross Keys McDonalds, Swam at the Wedgewood Pool, played softball at Saint Ferdinand Park, Worked at McDonnell Douglas on McDonnell Blvd for just under 10 years in the 1980's. I played in the creek most summers walking to see how far we could go and exploring it. I do have health issues that I do believe are attributed to the long exposure to the toxic waste in the creek and would like to see help from this.



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<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>JENELL WRIGHT (RODDEN)</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL:	ATTENDANCE:	SUBMIT DATE: <b>3/7/2023 12:00 AM</b>	
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<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>JILL MARIE GOLDMAN</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL: <b>jgold100@aol.com</b>	ATTENDANCE: <b>Written</b>	SUBMIT DATE: <b>3/4/2023 2:33 PM</b>	
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<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>JOSEPH F. MUDROVIC</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL:	ATTENDANCE:		SUBMIT DATE: <b>3/7/2023 12:00 AM</b>
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<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>KAREN NICKEL</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL:	ATTENDANCE:	SUBMIT DATE: <b>3/7/2023 12:00 AM</b>	
<b>THE INFORMATION ON THIS FORM IS PUBLIC RECORD UNDER CHAPTER 610, RSMo.</b>			





MISSOURI HOUSE OF REPRESENTATIVES  
**WITNESS APPEARANCE FORM**

BILL NUMBER: <b>HCR 21</b>		DATE: <b>3/7/2023</b>
COMMITTEE: <b>General Laws</b>		
<b>TESTIFYING:</b> <input checked="" type="checkbox"/> IN SUPPORT OF <input type="checkbox"/> IN OPPOSITION TO <input type="checkbox"/> FOR INFORMATIONAL PURPOSES		
<b>WITNESS NAME</b>		
<b>INDIVIDUAL:</b>		
WITNESS NAME: <b>KAREN THEIS</b>		PHONE NUMBER:
BUSINESS/ORGANIZATION NAME:		TITLE:
ADDRESS:		
CITY:		STATE:      ZIP:
EMAIL: <b>karentheis55@gmail.com</b>	ATTENDANCE: <b>Written</b>	SUBMIT DATE: <b>3/7/2023 7:38 AM</b>
<b>THE INFORMATION ON THIS FORM IS PUBLIC RECORD UNDER CHAPTER 610, RSMo.</b>		

**My husband Thaddeus (Ted) Theis lived 75 yards from Coldwater Creek and Jana elementary school was his backyard. Ted was 57 years old he was diagnosed with metastatic Neuroendocrine tumors. He passed away August 5, 2022.**



MISSOURI HOUSE OF REPRESENTATIVES  
**WITNESS APPEARANCE FORM**

BILL NUMBER: <b>HCR 21</b>		DATE: <b>3/7/2023</b>	
COMMITTEE: <b>General Laws</b>			
<b>TESTIFYING:</b> <input checked="" type="checkbox"/> IN SUPPORT OF <input type="checkbox"/> IN OPPOSITION TO <input type="checkbox"/> FOR INFORMATIONAL PURPOSES			
<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>KELLI BUNTAINE</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL:	ATTENDANCE:		SUBMIT DATE: <b>3/7/2023 12:00 AM</b>
<b>THE INFORMATION ON THIS FORM IS PUBLIC RECORD UNDER CHAPTER 610, RSMo.</b>			



MISSOURI HOUSE OF REPRESENTATIVES  
**WITNESS APPEARANCE FORM**

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COMMITTEE: <b>General Laws</b>			
<b>TESTIFYING:</b> <input checked="" type="checkbox"/> IN SUPPORT OF <input type="checkbox"/> IN OPPOSITION TO <input type="checkbox"/> FOR INFORMATIONAL PURPOSES			
<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>KIM LAMBRECHTS</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL:	ATTENDANCE:	SUBMIT DATE: <b>3/7/2023 12:00 AM</b>	
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COMMITTEE: <b>General Laws</b>		
<b>TESTIFYING:</b> <input checked="" type="checkbox"/> IN SUPPORT OF <input type="checkbox"/> IN OPPOSITION TO <input type="checkbox"/> FOR INFORMATIONAL PURPOSES		
<b>WITNESS NAME</b>		
<b>INDIVIDUAL:</b>		
WITNESS NAME: <b>KIMBERLY LYNNE LAMBRECHTS</b>		PHONE NUMBER:
BUSINESS/ORGANIZATION NAME:		TITLE:
ADDRESS:		
CITY:		STATE:      ZIP:
EMAIL: <b>lambrex0134@charter.net</b>	ATTENDANCE: <b>Written</b>	SUBMIT DATE: <b>3/7/2023 1:27 PM</b>
<b>THE INFORMATION ON THIS FORM IS PUBLIC RECORD UNDER CHAPTER 610, RSMo.</b>		



MISSOURI HOUSE OF REPRESENTATIVES  
**WITNESS APPEARANCE FORM**

BILL NUMBER: <b>HCR 21</b>		DATE: <b>3/7/2023</b>
COMMITTEE: <b>General Laws</b>		
<b>TESTIFYING:</b> <input checked="" type="checkbox"/> IN SUPPORT OF <input type="checkbox"/> IN OPPOSITION TO <input type="checkbox"/> FOR INFORMATIONAL PURPOSES		
<b>WITNESS NAME</b>		
<b>INDIVIDUAL:</b>		
WITNESS NAME: <b>KIMBERLY RENETZKY</b>		PHONE NUMBER:
BUSINESS/ORGANIZATION NAME:		TITLE:
ADDRESS:		
CITY:		STATE:                  ZIP:
EMAIL: <b>kirenetzky@gmail.com</b>	ATTENDANCE: <b>In-Person</b>	SUBMIT DATE: <b>3/7/2023 3:06 PM</b>
<b>THE INFORMATION ON THIS FORM IS PUBLIC RECORD UNDER CHAPTER 610, RSMo.</b>		

My husband and I lived in Florissant along with our extended family. We grew up a just miles from Coldwater Creek. My husband attended the recently closed Jana Elementary school near the creek within the Hazelwood School district. We lived in this area until we we graduated from college and married at the age of 22. At the age of 47 on March 13, 2020 my husband was diagnosed with a stage four brain tumor. The tumor was only discovered after stroke-like symptoms began. Within 48 hours, he had emergency surgery to remove the malignant tumor in the left frontal lobe of his brain. The tumor was defined as rare and nonhereditary in nature. ( anaplastic Oligodendroglioma) He had a craniotomy, radiation, and two rounds of chemotherapy. He continues to struggle with attention, speech and short-term memory. This medical tragedy has effected our family financially, emotionally, and physically. It continues to ripple throughout our lives impacting our daily life. This otherwise healthy Ironman athlete continues to receive quarterly MRIs and bloodwork. When our parents moved to the area in the 1970s there was no disclosure, signage or testing taking place on or around the creek.



MISSOURI HOUSE OF REPRESENTATIVES  
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COMMITTEE: <b>General Laws</b>			
<b>TESTIFYING:</b> <input checked="" type="checkbox"/> IN SUPPORT OF <input type="checkbox"/> IN OPPOSITION TO <input type="checkbox"/> FOR INFORMATIONAL PURPOSES			
<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>KRISTIE WEBER</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL:	ATTENDANCE:		SUBMIT DATE: <b>3/7/2023 12:00 AM</b>
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MISSOURI HOUSE OF REPRESENTATIVES  
**WITNESS APPEARANCE FORM**

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COMMITTEE: <b>General Laws</b>		
<b>TESTIFYING:</b> <input checked="" type="checkbox"/> IN SUPPORT OF <input type="checkbox"/> IN OPPOSITION TO <input type="checkbox"/> FOR INFORMATIONAL PURPOSES		
<b>WITNESS NAME</b>		
<b>INDIVIDUAL:</b>		
WITNESS NAME: <b>MEGAN ALLEN</b>		PHONE NUMBER:
BUSINESS/ORGANIZATION NAME:		TITLE:
ADDRESS:		
CITY:		STATE:                  ZIP:
EMAIL: <b>megancallen2016@gmail.com</b>	ATTENDANCE: <b>Written</b>	SUBMIT DATE: <b>3/3/2023 8:10 PM</b>
<b>THE INFORMATION ON THIS FORM IS PUBLIC RECORD UNDER CHAPTER 610, RSMo.</b>		

I grew up playing in Saint Ferdinand Park, where the creek rinds behind the playground and the pond. We LOVED playing at the park and I took my son there in 2005 when he was born to make memories. In the spring and summer storms, Cold Water Creek would sometimes fill up often breaching it's creek bed. The excess water made its way into Saint Ferdinand park contaminating the fields and the little brook the was behind the Pavilion. Many decades saw the creek flooding over and over sharing the radioactive waste. The soil that was contaminated was often the scene of picnics, children playing, families fishing, little league games, adult league games. For 80 years, all over, contamination filled our community exposing many generations to Radioactive Toxins.I myself at the age of 30 had breast cancer. There are no genetic markers or family history, but I had it. Many women who were born in the 1980's, lived near the creek are now mothers. Many of whom have a child on the Autism Spectrum. I myself have a rare genetic mutation that contributes to a condition called Beta Thalassemia Minor. I was diagnosed late pregnancy and no one in my family has any Thalassemia traits. The consequences being paid are by many innocent families with many more severe illnesses than mine. It is time to hold those accountable and get us, the citizens the medical help we deserve. The medical help that isn't at a cost of our own. It belongs on the people who carelessly left this mess for us to suffer with.



MISSOURI HOUSE OF REPRESENTATIVES  
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<b>TESTIFYING:</b> <input checked="" type="checkbox"/> IN SUPPORT OF <input type="checkbox"/> IN OPPOSITION TO <input type="checkbox"/> FOR INFORMATIONAL PURPOSES			
<b>WITNESS NAME</b>			
<b>REGISTERED LOBBYIST:</b>			
WITNESS NAME: <b>MICHAEL BERG</b>		PHONE NUMBER: <b>314-644-1011</b>	
REPRESENTING: <b>SIERRA CLUB MISSOURI CHAPTER</b>		TITLE: <b>POLITICAL DIRECTOR MISSOURI SIERRA CLUB</b>	
ADDRESS: <b>PO BOX 432010</b>			
CITY: <b>SAINT LOUIS</b>		STATE: <b>MO</b>	ZIP: <b>63143</b>
EMAIL: <b>Michael.Berg@sierraclub.org</b>	ATTENDANCE: <b>Written</b>	SUBMIT DATE: <b>3/6/2023 12:27 PM</b>	
<b>THE INFORMATION ON THIS FORM IS PUBLIC RECORD UNDER CHAPTER 610, RSMo.</b>			

On behalf of our over 11,000 members statewide, the Sierra Club Missouri Chapter supports House Concurrent Resolution 21. The Resolution presents accurate information about the history of nuclear waste in the greater St. Louis area and recommends a process for fair compensation for those affected.





MISSOURI HOUSE OF REPRESENTATIVES  
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<b>TESTIFYING:</b> <input checked="" type="checkbox"/> IN SUPPORT OF <input type="checkbox"/> IN OPPOSITION TO <input type="checkbox"/> FOR INFORMATIONAL PURPOSES			
<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>MICHELLE MOELLER</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL:	ATTENDANCE:		SUBMIT DATE: <b>3/7/2023 12:00 AM</b>
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COMMITTEE: <b>General Laws</b>			
<b>TESTIFYING:</b> <input checked="" type="checkbox"/> IN SUPPORT OF <input type="checkbox"/> IN OPPOSITION TO <input type="checkbox"/> FOR INFORMATIONAL PURPOSES			
<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>MICHELLE WALKER</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL:	ATTENDANCE:	SUBMIT DATE: <b>3/7/2023 12:00 AM</b>	
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COMMITTEE: <b>General Laws</b>			
<b>TESTIFYING:</b> <input checked="" type="checkbox"/> IN SUPPORT OF <input type="checkbox"/> IN OPPOSITION TO <input type="checkbox"/> FOR INFORMATIONAL PURPOSES			
<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>PATRICK DARREN TOTTEN</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL:	ATTENDANCE:	SUBMIT DATE: <b>3/7/2023 12:00 AM</b>	
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COMMITTEE: <b>General Laws</b>			
<b>TESTIFYING:</b> <input checked="" type="checkbox"/> IN SUPPORT OF <input type="checkbox"/> IN OPPOSITION TO <input type="checkbox"/> FOR INFORMATIONAL PURPOSES			
<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>PERRY BLACK SR.</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL:	ATTENDANCE:		SUBMIT DATE: <b>3/7/2023 12:00 AM</b>
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MISSOURI HOUSE OF REPRESENTATIVES  
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COMMITTEE: <b>General Laws</b>		
<b>TESTIFYING:</b> <input checked="" type="checkbox"/> IN SUPPORT OF <input type="checkbox"/> IN OPPOSITION TO <input type="checkbox"/> FOR INFORMATIONAL PURPOSES		
<b>WITNESS NAME</b>		
<b>INDIVIDUAL:</b>		
WITNESS NAME: <b>REENIE DAVIS HALE</b>		PHONE NUMBER:
BUSINESS/ORGANIZATION NAME:		TITLE:
ADDRESS:		
CITY:		STATE:      ZIP:
EMAIL: <b>plant.lady@hotmail.com</b>	ATTENDANCE: <b>In-Person</b>	SUBMIT DATE: <b>3/4/2023 8:48 AM</b>
<b>THE INFORMATION ON THIS FORM IS PUBLIC RECORD UNDER CHAPTER 610, RSMo.</b>		

I was born in 1962, in Florissant, MO, blocks from Coldwater Creek. As the Wedgewood subdivisions were being built, my young friends and I always played in the freshly dug basement holes, for a new house. 10'-12' down, where the radiation layer was exposed. We played and dug walls into the side of the creek, to make a fortress. Hundreds of children in our neighborhood did! I and almost all the kids I played with, would frequently get nose bleeds while sitting perfectly still in class, at the dinner table, etc. We all thought it was a normal part of your body growing. NO, IT WAS RADIATION POISONING!! became aware of the radiation poisoning in the 1980s. I attended public hearings, testified, heard the terrifying stories of other attendees, and prayed something would be done quickly. I moved out of the area in 1990, as no immediate action was being taken to remediate these issues. In 2000, I was diagnosed with hypothyroidism. Forward to 2012, age 49, when I was diagnosed with Hashimoto's autoimmune disease & osteoporosis, which was caused by a giant tumor grown on my parathyroid. It was removed, but have felt like an 80 year old, at 50 ever since. I have not recovered. My sister suffered miscarriages, and the child she did have, suffers from a lifetime of several immune diseases and epilepsy. My stepdad was an avid gardener. We produced tons of food we ingested. He died of a rare cancer. My sister-in-law grew up across the street from the radiated Berkeley ballfields. She died of a very long and painful cancer, as did my aunt who lived off Mullanphy in Florissant. I know so many people adversely effected. Please fix this problem or make the entire infected St. Louis area a permanent uninhabitable area for the safety of American citizens you are elected to serve.



MISSOURI HOUSE OF REPRESENTATIVES  
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COMMITTEE: <b>General Laws</b>		
<b>TESTIFYING:</b> <input checked="" type="checkbox"/> IN SUPPORT OF <input type="checkbox"/> IN OPPOSITION TO <input type="checkbox"/> FOR INFORMATIONAL PURPOSES		
<b>WITNESS NAME</b>		
<b>INDIVIDUAL:</b>		
WITNESS NAME: <b>RENE REESE</b>		PHONE NUMBER:
BUSINESS/ORGANIZATION NAME:		TITLE:
ADDRESS:		
CITY:		STATE:      ZIP:
EMAIL: <b>renereese@hotmail.com</b>	ATTENDANCE: <b>Written</b>	SUBMIT DATE: <b>3/7/2023 7:12 AM</b>
<b>THE INFORMATION ON THIS FORM IS PUBLIC RECORD UNDER CHAPTER 610, RSMo.</b>		

This has gone on long enough! Citizens are still being affected by the poor cleanup of radioactive materials. There are so many people I grew up with that have died or are currently in the process. Help is needed to pay for medical testing & treatments for these cancers. My husband passed away in 2015 of Soft tissue metastatic carcinoma. When we received the diagnosis I asked the doctor, Dr. Valentine, if it was related to ionized radiation & his jaw literally dropped. He told us that we had a better chance of winning the lottery than having him for a Dr., the cancer was that rare. My mother in law had breast & bone cancer which killed her. My sister had Thyroid cancer & her thyroid was removed. My other sister has autoimmune disease & Hoshimotos. My uncle had an overactive thyroid which was killed off by getting radiation. My brother in law is in the process of dying from stage 4 colon cancer that has also gone to his bladder & liver. He has another 2-4 weeks of life left before it kills him. My sister in law is currently battling stage 4 bile duct cancer. Both of my children have developmental issues which is now effecting my grandchildren as well. Everyone listed here lived, worked & played in the Coldwater creek area. I was diagnosed with DCIS last year which required a surgery. People are having to spend their life savings to get medical treatment for cancers that are directly related to ionized radiation. It is past time to put something in place to assist families that have to deal with the governments poor handling of the radioactive materials. We need HELP!!



MISSOURI HOUSE OF REPRESENTATIVES  
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<b>TESTIFYING:</b> <input checked="" type="checkbox"/> IN SUPPORT OF <input type="checkbox"/> IN OPPOSITION TO <input type="checkbox"/> FOR INFORMATIONAL PURPOSES			
<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>SHAWN BEGLEY</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL:	ATTENDANCE:		SUBMIT DATE: <b>3/7/2023 12:00 AM</b>
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<b>TESTIFYING:</b> <input checked="" type="checkbox"/> IN SUPPORT OF <input type="checkbox"/> IN OPPOSITION TO <input type="checkbox"/> FOR INFORMATIONAL PURPOSES			
<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>STACEY SCHIMPF</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL:	ATTENDANCE:		SUBMIT DATE: <b>3/7/2023 12:00 AM</b>
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COMMITTEE: <b>General Laws</b>			
<b>TESTIFYING:</b> <input checked="" type="checkbox"/> IN SUPPORT OF <input type="checkbox"/> IN OPPOSITION TO <input type="checkbox"/> FOR INFORMATIONAL PURPOSES			
<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>SUSAN GAFFNEY</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL:	ATTENDANCE:		SUBMIT DATE: <b>3/7/2023 12:00 AM</b>
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COMMITTEE: <b>General Laws</b>			
<b>TESTIFYING:</b> <input checked="" type="checkbox"/> IN SUPPORT OF <input type="checkbox"/> IN OPPOSITION TO <input type="checkbox"/> FOR INFORMATIONAL PURPOSES			
<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>TARA CALDWELL</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL: <b>t_moran27@yahoo.com</b>	ATTENDANCE: <b>Written</b>	SUBMIT DATE: <b>3/6/2023 7:02 PM</b>	

**THE INFORMATION ON THIS FORM IS PUBLIC RECORD UNDER CHAPTER 610, RSMo.**

I grew up in Spanish Lake, MO. One if my fondest memories was going to the "quarry" as my mom would call it. It was pretty much the end of Cold Water Creek at Hwy 367 and Lindbergh. We would spend entire days there, enjoying picnics and swimming in that water, building dams, catching crayfish, like I said one of my fondest childhood memories. How was I to know that years later those fond memories would turn into a living nightmare? At age 40 I was diagnosed with Lupus, an autoimmune disease that led to constant medication and blood draws. Just 3 weeks ago at age 47, I was diagnosed with an extremely rare cancer, Chondrosarcoma of my larnyx. Is it coincidence? I see the map of autoimmune diseases and cancer in pockets all over north county. I am utterly shocked in the fact that children of the 70's and 80's who grew up in these parts and played in that creek are dropping like flies. It's beyond me how the government would think they could get away with this secret. The fact that my parents and so many others weren't merely warned of the water and soil so their children could stay safe. There was NEVER any talk of the waste traveling through our neighborhoods, not a sign at the banks, NOTHING!!!! Now the children of that era are left to suffer the consequences and our parents are left with GUILT because we are ailing, we are dying and it's all because of our GOVERNMENT, an entity that is supposed to protect it's citizens. What will you do now?



MISSOURI HOUSE OF REPRESENTATIVES  
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<b>TESTIFYING:</b> <input checked="" type="checkbox"/> IN SUPPORT OF <input type="checkbox"/> IN OPPOSITION TO <input type="checkbox"/> FOR INFORMATIONAL PURPOSES			
<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>THOMAS WHELAN</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL:	ATTENDANCE:		SUBMIT DATE: <b>3/7/2023 12:00 AM</b>
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<b>TESTIFYING:</b> <input checked="" type="checkbox"/> IN SUPPORT OF <input type="checkbox"/> IN OPPOSITION TO <input type="checkbox"/> FOR INFORMATIONAL PURPOSES			
<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>VICTOR IMGARTEN</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL:	ATTENDANCE:	SUBMIT DATE: <b>3/7/2023 12:00 AM</b>	
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<b>TESTIFYING:</b> <input type="checkbox"/> IN SUPPORT OF <input type="checkbox"/> IN OPPOSITION TO <input checked="" type="checkbox"/> FOR INFORMATIONAL PURPOSES		
<b>WITNESS NAME</b>		
<b>INDIVIDUAL:</b>		
WITNESS NAME: <b>BETH BROOKSHIRE</b>		PHONE NUMBER:
BUSINESS/ORGANIZATION NAME:		TITLE:
ADDRESS:		
CITY:		STATE:      ZIP:
EMAIL: <b>bdhickorygrove@netscape.net</b>	ATTENDANCE: <b>In-Person</b>	SUBMIT DATE: <b>3/7/2023 1:19 PM</b>
<b>THE INFORMATION ON THIS FORM IS PUBLIC RECORD UNDER CHAPTER 610, RSMo.</b>		

I grew up in Ferguson in the 50s and 60s on Hudson Road, by what is now Florissant Valley Community College. There was a large creek that ran through the woods behind our house and we spent many hours playing in it and digging for arrowheads. There were 5 full siblings in my family. 3 of my siblings have multiple sclerosis, one of my brothers passed away at age 56 from an extremely rare and aggressive trichilemmal cancer, and I have a very rare autoimmune disease called primary biliary cholangitis which may eventually require a liver transplant. 5 children in the same household, and all developed an autoimmune condition or cancer with no family history of these illnesses. I have been told by physicians that they have never heard of 3 siblings in the same family with multiple sclerosis. My late husband and his family grew up in Ferguson and later moved to Berkeley. Where they lived in Ferguson (off South Florissant Road), there was a large creek behind their house. My husband passed away from multiple myeloma and one of his brothers has a condition known as Rip Van Winkle syndrome which doctors have never seen in a person of his age (70). A sister-in-law who grew up in the same area of Ferguson has lupus. My late husband's father worked at McDonnell Douglas for most of his career. My brothers and I and my late husband played on church baseball teams and would sometimes play in the area near McDonnell Douglas.



MISSOURI HOUSE OF REPRESENTATIVES  
**WITNESS APPEARANCE FORM**

BILL NUMBER: <b>HCR 21</b>		DATE: <b>3/7/2023</b>
COMMITTEE: <b>General Laws</b>		
<b>TESTIFYING:</b> <input type="checkbox"/> IN SUPPORT OF <input type="checkbox"/> IN OPPOSITION TO <input checked="" type="checkbox"/> FOR INFORMATIONAL PURPOSES		
<b>WITNESS NAME</b>		
<b>INDIVIDUAL:</b>		
WITNESS NAME: <b>CATHERINE HUNT</b>		PHONE NUMBER:
BUSINESS/ORGANIZATION NAME:		TITLE:
ADDRESS:		
CITY:		STATE:      ZIP:
EMAIL: <b>cathuntseattle@yahoo.com</b>	ATTENDANCE: <b>Written</b>	SUBMIT DATE: <b>3/4/2023 11:04 AM</b>
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My father died of prostate cancer metastasized to spine and brain, age 77. Mother had thyroid cancer, age 80. A sister with Graves disease, a thyroid condition. Another sister with breast cancer and total mastectomy. Another sister with Multiple Myeloma and genetic mutation, a type of blood cancer. I have thyroid cysts and nodules. We all lived in Florissant and played softball, fed the ducks, and walked in St. Ferdinand Park where Coldwater Creek runs as a park boundary. Neighbors and classmates from McClure North H.S. have died young and with unusual cancers. Also went to Cross Keys Jr. High where there was a cinder track for running that might have been contaminated.



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<b>WITNESS NAME</b>		
<b>INDIVIDUAL:</b>		
WITNESS NAME: <b>DAVID TREMAIN</b>		PHONE NUMBER:
BUSINESS/ORGANIZATION NAME:		TITLE:
ADDRESS:		
CITY:		STATE:      ZIP:
EMAIL: <b>cypresssprings@yahoo.com</b>	ATTENDANCE: <b>Written</b>	SUBMIT DATE: <b>3/6/2023 9:50 PM</b>

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When it comes to the history of the WWII Manhattan Project, Saint Louis MO, has it's legacy which seems like a never ending and recurring nightmare, especially to citizens, who have lived or are living in north Saint Louis county areas surrounding Cold Water Creek. Of course "we" want to be certain and know the causes for the illnesses people have acquired over the decades, as it relates to this WWII bomb project, which has been and remains a massive undertaking, to remediate. Is this remediation (FUSRAP) the approach the best, or only way to bring conclusion to the public and to take away all their fears from this situation? It's apparent by now, from looking and listening to testimonies for many decades that people want, answers and relief to know they can be safe(er) and out and away from being under the environmental risks they sense, which they associate, correlate or even assign cause. What level of radioactive and non radioactive (chemical) risk should be acceptable? It's reported in pages of thousands of documents the findings which provide information on chemicals used from the processing of materials, the materials themselves and those wastes as well. Getting to the bottom of what is a health hazard and risk is certainly a lengthy & maybe even unattainable task, especially to unequivocally be able to assign cause to specific toxins for a whole range of illnesses, which citizen are laying blame to. And Yet, Using radioactive measuring devices and sampling methods are useful to, inform, alert and advise individuals who need to know the hazards and potential degrees of radiation risks to human health, especially as a result from unacceptable radioactive levels. Although being able to confirm certainty of harm to humans - is provided in levels of acceptable or unacceptable. Yet specifically from a wide range of radiation levels found from the waste tailings, and not any enrichment but separating from the ore body. These continue remaining in the soil but do change over time becoming less radioactive (unlike chemicals of non-radioactive types e.g. benzene, and arsenic) uranium thorium and radionuclides from the Manhattan WWII weapons program. So to know how illnesses relate to these radioactive elements, would it not be beneficial if not a requirement, to investigate and pair up health records from those who sense harm to see a correlation or maybe cause from materials be analyzed? Also, should there not also be a need for comprehensive accountability, which includes other non-radioactive chemicals found, in the same geographical vicinity as the Manhattan project's wastes? whether they were or are, from WWII activities. These would need to be collected and presented to fully evaluate the best estimates for human toxicity and compared and or contrasted for toxicity and related health impacts. I would like to see the inclusion other non-radioactive debris metals or chemicals presently on site known ~ and potentially, yet to be discovered in these wastes accumulation(s) in the soil or groundwater. (Old data of collections may been done and available) And, what about the chemical migration ( not the radioactive materials) along the stream bed and bank that has been moving nearly 70 yrs, is this even possible to account for the many health risks in any meaningful measure? Could that help provide answers pertaining to association, correlation or even causation to past illnesses ? If we had that, it might. How are these questions to be answered and

then put into some meaningful summary for individuals to understand why their loved ones or even themselves were harmed specifically being exposed from over what time period(s)? So a simple question, was it radioactive materials or other non radioactive chemical(s) or metal(s) or both or none? We should be trying to discern and discriminate among these different materials to get at causes of illnesses in the very best way. We should not take the easy or fastest way unless that might also be the properly decided way. SO Who decides, and under what reasons or methodology are these important decisions relegated under what authority? People who care about the health justice for others and themselves, should be willing to understand what evidence is needed to show cause. This means reliable, and valid data must be used. The level of radiation risk to humans is based on a questionable hypothesis, one that has been established and adopted under false & even potentially criminal pretenses. It is called the 'LNT' model. This is a linear no threshold approach showing risk levels of radiation to humans. And here is what is.... SAYs starting, at zero on a graph for radiation exposure and above; all exposures above this point, at any and all levels, even the smallest measurement is a risk to health of humans. The data from which this was established, came from experiments using 200 million times background levels of radiation, which were measured and had adverse effects on small flies. At that point on the graph, being 200 million times background a straight line was drawn to zero. Hence, the non or no threshold meaning, that all levels even low levels of radiation are harmful, and with this model, it has been accepted for use worldwide for nearly 70 years. Holding that there are no safe levels of radiation exposure. (or dose) So just in reference to this one concept! the "LNT" model, it would seem highly improbable.....and you have to ask yourself does this seem plausible or even sensible? To base a 100% cause of peoples illnesses solely on the radioactive wastes from the separation of natural uranium, thorium and associated radionuclides, because their levels are not high enough, and records exist that make these claims using accepted measurements. (even conforming to the widely used LNT guidance) Using these separated waste tailings (and subsequent dumping) found near the Cold Water Creek and surrounding areas from the WWII Manhattan project AS the exclusive data for health illnesses as their causes would be an unscientific finding. And it would be, without much doubt, to do so further imply danger and even promote the addition of unfounded fears, & yet at the same time avoid the true nature, of what radiation is at such levels found here at sites along CWC, which are highly unlikely and incapable for causing the current harm believed by some. So I believe, Instead, our focus; must be to seek out health risks from all cause toxicity, which albeit a much broader scope, it's not the easiest or quickest way certainly to discover cause, but in this case (only using radioactive material as the health culprit) the easy way could be the way to deception. David Tremain 550 Flintlock Lane Saint Louis, MO 63129-5004





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<b>WITNESS NAME</b>		
<b>INDIVIDUAL:</b>		
WITNESS NAME: <b>JANET E JOHNSON</b>		PHONE NUMBER:
BUSINESS/ORGANIZATION NAME:		TITLE:
ADDRESS:		
CITY:	STATE:	ZIP:
EMAIL: <b>cliffordwoman@gmail.com</b>	ATTENDANCE: <b>Written</b>	SUBMIT DATE: <b>3/5/2023 10:51 AM</b>
<b>THE INFORMATION ON THIS FORM IS PUBLIC RECORD UNDER CHAPTER 610, RSMo.</b>		

My father bought a home in a new subdivision in January 1968. I loved the woods and water ways and spent my summers exploring and hiking along Cold Water Creek. I came home muddy and dirty every day. I graduated from Hazelwood Central High School in 1976. After I had children, I took my children and their cousins hiking along the same routes I enjoyed as a child. I found out about the radiation in the 1980's and stopped hiking in the area. My father, who had been healthy his entire life, was diagnosed with esophageal cancer in February 2005. He was unable to eat and withered away in a few months. He passed in November 2005. My daughter was diagnosed with uterine cancer in her 30's and had to have a hysterectomy. My oldest sister has had multiple cancers throughout her life and has withered to under 100 pounds. Another sister was diagnosed with glioblastoma a few years ago. It is inoperable. She has gone through chemo treatments, but it continues to spread through her brain. My 40 year old nephew, who I took hiking along the creek frequently, started having chest pains during the height of the COVID pandemic. At first, the doctors thought it was his heart but found a massive tumor in his chest. They had a difficult time identifying the source of the cancer, but finally determined it was thymic carcinoma. He had chemo treatments without success. Due to the pandemic, he was quarantined most of the time. He realized he did not have much time left and wanted to see all of his loved ones, so we had a family gathering in July 2022. I was horrified when I saw him. The tumor had encircled his neck and shoulders, preventing proper blood flow. His head was swelled and had turned purple from the blood pooling above the tumor. The tumor strangled him and he lost his battle in October 2022, at the age of 42. I have not had cancer like my father, sisters, daughter and nephew, but I will live the rest of my life wondering if I exposed my loved ones to radiation from the creek causing these rare cancers. It is a heavy burden to bear.



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<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>MARIA CHAPPELLE-NADAL</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL: <b>maria.chappellenadal@gmail.com</b>		ATTENDANCE: <b>In-Person</b>	SUBMIT DATE: <b>3/6/2023 4:55 PM</b>
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<b>WITNESS NAME</b>		
<b>INDIVIDUAL:</b>		
WITNESS NAME: <b>MARIA SANNER PFITZINGER</b>		PHONE NUMBER:
BUSINESS/ORGANIZATION NAME:		TITLE:
ADDRESS:		
CITY:		STATE:      ZIP:
EMAIL: <b>mdpfitz@gmail.com</b>	ATTENDANCE: <b>Written</b>	SUBMIT DATE: <b>3/6/2023 5:55 PM</b>
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**My sister Marsha Sanner Koeller lived at 3122 Wintergreen Dr. Next door to Jim and Susan Gaffney. She was diagnosed with a glioblastoma in 2006 and passed on January 20, 2009. She was 45. My parents built that house in 1966 and she and my brother and I played in Coldwater creek and Wedgwood Park often. I firmly believe her cause of cancer was exposure to the toxic waste. We had no family history of cancer.**



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<b>WITNESS NAME</b>			
<b>INDIVIDUAL:</b>			
WITNESS NAME: <b>MICHELLE HELENE NINON WENIGER</b>		PHONE NUMBER:	
BUSINESS/ORGANIZATION NAME:		TITLE:	
ADDRESS:			
CITY:		STATE:	ZIP:
EMAIL: <b>shell152@hotmail.com</b>	ATTENDANCE: <b>Written</b>	SUBMIT DATE: <b>3/6/2023 11:46 PM</b>	
<b>THE INFORMATION ON THIS FORM IS PUBLIC RECORD UNDER CHAPTER 610, RSMo.</b>			

I am a 71 year old female, who spent most of her childhood in and around cold water creek. We used to play in it and my mom had strawberries growing on the hill leading into the creek that we used to eat in the summertime. My family, which consisted of my mom born in august 1924, my dad born in September 1918 my sister born in June 1950, my self born in January 1952, my brother born in February 1955 and my younger brother born in June 1962.we lived in Paddock Hills at 2635 Narragansett drive in Florissant, Mo. We lived there from 1959-1970 my dad lived there till 1972. We had a lot of cancer on our block as I can remember. Two houses down a 12 year old boy died of leukemia, next door the father had a brain cancer tumor possibly a glioblastoma and died, across the street the father had colon cancer and in my own childhood home my mom died in 1967 of breast cancer after giving birth to my youngest brother who was 2 years old at the time of her death. After I moved from there I too developed breast cancer twice once in 2004 and once in 2015 which eventually ended with cancer treatments and a bilateral mastectomy. My dad on the other hand developed throats cancer, bladder and prostate cancer along with colon cancer (appendiceal cancer) He died soon after with a massive heart attack. My youngest brother developed prostate cancer at age 58 in 2020 and had a radical Prostatectomy along with medication therapy and radiation and chemo therapy. So as you can see I have a lot of history with the Big Cancer. I have been tested for BRCA gene both 1 & 2 and as of today it is negative until further improvements and new test become available. I did this test because of family history as you can see I have a daughter born in 1982 who has had lumps in her breast. I like to be proactive in health treatments. I am very saddened that the US government can not take on responsibility for this storm fire of cancer occurrences. It really needs to be documented and cleaned up. Not to make it another persons problem but really cleaned up along with west lake dump off highway 70 We had a Creek right behind our house in paddock hills that we used to play in as child that connected with cold water creek We had a plastic boat that we used to play in that creek with along with swimming. In my life time I personally have had two heart attacks, a pacemaker implanted, two breast surgeries, one was my left Breast 1/4 was removed following with 31 treatments of radiation then cancer came knocking at my door again this time I had both breast removed even though the cancer came back only on the left side with not one but three spots on my left breast. So I decided at that point to remove both and have a mastectomy only two sentinel nodes were found and thank goodness they were both negative. Since then I have been diagnosed with Parkinson's disease and psoriatic arthritis along with osteoarthritis. I am also blind in my left eye from a corneal transplant. I had in 3rd grade. I am old enough to know that through my life experiences that if you make a mess you need to clean it up, but you need to know where to put the mess before you make the problem appear. Please think about the 100's of citizens that this impacts. And for once do the right thing and clean the mess up not transfer it to some place else where it becomes some one else's problem. If you have further questions please feel free to contact me with the info below. Thank you for your time in

this matter.Michelle H. N. Weniger160 Woodbury place CircleO'Fallon, Mo.  
63366Shell152@hotmail.com314-541-4653



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<b>WITNESS NAME</b>		
<b>INDIVIDUAL:</b>		
WITNESS NAME: <b>NORMA COOPER</b>		PHONE NUMBER:
BUSINESS/ORGANIZATION NAME:		TITLE:
ADDRESS:		
CITY:		STATE:      ZIP:
EMAIL: <b>coopertroopr@gmail.com</b>	ATTENDANCE: <b>Written</b>	SUBMIT DATE: <b>3/7/2023 8:13 AM</b>
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I have suffered for over 15 years with miscellaneous health conditions including arthritis, djd, Lupus and fibromyalgia. I have now had tongue cancer with removal of part of my tongue and lymph nodes. I have never smoked don't drink, or do nonprescription drugs. As a child I played in the creek for hours daily. This contamination is slowly killing me. To the point i am now on disability.