

#### **Senate Bill 96 Report to EQC**

July 20, 2016 Meeting (data as of June 23, 2016)



Characterizing abandoned (unknown waste) drum site, Black Eagle (April 2016)

#### **Background:**

SB96 allows DEQ to use orphan share account funds to take remedial actions to address risks to human health or the environment at hazardous substance/petroleum sites where there is no readily apparent potentially liable person that is financially viable. SB96 also allows DEQ to use the funds to monitor the performance of remedial actions as well as to assess sites and collect data with a goal of closing those sites. Not more than 20% of the funds may be used for that purpose. SB96 was effective July 1, 2015.

#### **Progress since July 2015:**

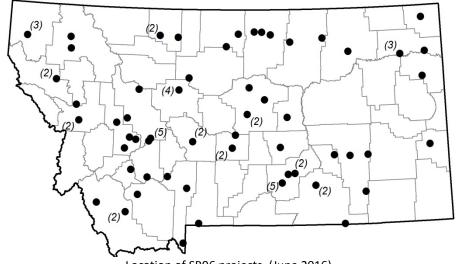
DEQ has initiated contracts or begun work at 82 project sites.

- Approved scopes of work \$6,987,392
  - o Hazardous Substance or Water Quality Act \$5,289,357 (17 sites)
  - o Petroleum Tank Release \$1,412,962 (64 sites)
  - o Mine Waste \$285,073 (1 site)
- Contracts in place \$5,201,883
- Expended funds \$1,999,537

Although funds allocated to approved projects are approaching the entire \$7,000,000 appropriated amount, we anticipate that some of these projects may come in under budget. This will allow other sites to be funded.

Five petroleum releases have been resolved and several more are being reviewed for closure. Several additional releases are expected to be resolved when the data is received that demonstrates contamination is below screening levels.

For additional information contact Jenny Chambers at JChambers@mt.gov or 406-444-6383.



Location of SB96 projects. (June 2016)



Former wood treating facility, Lewistown (Feb. 2016)



Drilling in "tight quarters" at former Unionville Schoolhouse (March 2016)



Testing soil for petroleum near residence, Lewistown (May 2016)



Test pit to locate potential buried pesticide at wildlife refuge, Roy. Missouri River in background(Mar. 2016)

Project Name	Location	Project Scope & Status	Cleanup	Assessment	Total	Leveraged Funds
Milwaukee Roundhouse CECRA Cleanup	Deer Lodge	Approximately 17,000 tons of petroleum and metals contaminated soil, and 50 gallons of petroleum free product have been removed so far. Day care play area cleaned up, and cleanup of a proposed county park area that allows the county to use its grant funding to develop the park. Vapor intrusion sampling occurred and residential yard removals are complete. Additional excavation near surface water body in July 2016.	\$1,840,545	\$23,400	\$1,863,945	~\$4 million – EPA (Emergency Removal) \$200,000 EPA (Brownfields) ~\$690,00- DNRC (RDG) - Powell County ~\$700,000- DEQ (EQPF) ~\$60,000 - DEQ (Brownfields) Possible future \$1,000,000 DNRC (RDG) [2018/2019]
Milwaukee Roundhouse CECRA Cleanup - Phase 2 (Grid L18)	Deer Lodge	Excavate lead contaminated soil in an active industrial area.	\$135,000		\$135,000	See Above
Milwaukee Roundhouse CECRA Cleanup - Phase 2 (Bunker C)	Deer Lodge	Excavate lead and petroleum contaminated soils that are a source for groundwater contamination.	\$380,000		\$380,000	See Above
Bolke Residence Heating Oil Release WQA Cleanup	Plentywood	Confirmation sampling of groundwater, soil at landfarm, indoor air, and proper abandonment of 3 monitoring wells.		\$15,567	\$15,567	\$6,500 - DEQ (PPG)
Meagher County Shop WQA Cleanup	White Sulphur Springs	Excavation of petroleum contaminated soils.	\$200,000		\$200,000	\$3,800 - DEQ (PPG); \$12,000 Meagher County (In- kind)
Diamond P Ranch CECRA Cleanup	West Yellowstone	Pre-design sampling for excavation and disposal of pentachlorophenol, petroleum, and dioxins completed. Excavation is scheduled for early July 2016.	\$388,758		\$388,758	None
Roxy's Cleaners CECRA Cleanup	Havre	Soil vapor extraction system installed and operating. Bioremediation injections completed. Ongoing operation and maintenance of system through 2017.	\$491,150		\$491,150	None
Whitefish Solvent Site CECRA Cleanup	Whitefish	Preliminary design work is complete and will assist with installation of the soil vapor extraction system and implemention of the enhanced bioremediation system that is estimated to begin August 2016.	\$495,395	\$8,500	\$503,895	\$278,914 - EPA (CERCLA Site Assessment)
Helena Solvent Site WQA Cleanup	Helena	Preliminary design work will begin in July 2016. SVE system will be installed late summer or early fall 2016 to address solvent contaminated vapors and soils.	\$350,007		\$350,007	\$175,000 - Hustads
Ruth Graham Property LUST	Great Falls	Soil and groundwater samples were collected in Oct 2015 that demonstrate contamination has reduced to concentrations below screening levels.  Release will be reviewed for closure in summer 2016.		\$16,500	\$16,500	Petro Fund after Co-Pay
Ehlert Brothers Service LUST	Winifred	Excavation completed in April 2016. If excavation successful and groundwater contamination drops below screening levels, release may be resolved in 2017.	\$156,322		\$156,322	Ineligible for PTRCF

Project Name	Location	Project Scope & Status	Cleanup	Assessment	Total	Leveraged Funds
Hot Springs School LUST	Hot Springs	Injection wells installed and in-situ oxidation chemicals injected in October/November 2016 and appears to be working well. If future groundwater results indicate the treatment is successful, release will be resolved after 2017.	\$30,475		\$30,475	Ineligible for PTRCF
Pine Hills Country Store LUST	Billings	Soil borings to determine if contamination remained in the soil. Samples indicated no contamination remained above screening levels. This release was resolved 2/9/2016.		\$7,741	\$7,741	None
4-U Husky LUST	Plevna	Confirmation sampling completed in February 2016 identified contamination needing cleanup. Additional site work will be completed using Petro Funds.		\$19,431	\$19,431	Petro Fund after Co-Pay
Cary Residence LUST	Helena	Confirmation sampling completed in February 2016. Results indicate that this release can be resolved. Release will be reviewed for closure in summer 2016.		\$13,399	\$13,399	Petro Fund after Co-Pay
GS Oil Co. LUST	Winnett	Confirmation sampling completed in March 2016 identified contamination needing cleanup. Additional site work will be completed using Petro Funds.		\$11,370	\$11,370	Petro Fund after Co-Pay
Songers Exxon Service LUST	Judith Gap	Confirmation sampling completed in March 2016. Results indicate that this release can be resolved. Release will be reviewed for closure in summer 2016.		\$25,158	\$25,158	Petro Fund after Co-Pay
Post Office (private) LUST	Augusta	Confirmation sampling completed in January 2016. Results indicate that this release can be resolved. This release was resolved 6/8/2016.		\$18,699	\$18,699	~\$10,000 LUST Trust
Sanders General Store LUST	Sanders	Confirmation sampling of soil and groundwater completed in March 2016 identified contamination needing cleanup. Additional site work including review of appropriate cleanup alternatives and cleanup selection will be required. Funding for additional work will be provided by the responsible party and the Petro Fund.		\$10,911	\$10,911	Petro Fund after Co-Pay
Stoners Stage Stop LUST	Lincoln	Confirmation sampling completed in January 2016. Results indicate that this release can be resolved. Release will be reviewed for closure in summer 2016.		\$14,592	\$14,592	Petro Fund after Co-Pay
McMillon Residence LUST	Helena	Confirmation sampling completed in January 2016. Results indicate that this release can be resolved. This release has been approved for closure 6/15/2016.		\$12,699	\$12,699	Petro Fund after Co-Pay
Chriss Repair LUST	Lincoln	Confirmation sampling completed in January 2016. Results indicate that this release can be resolved. This release has been approved for closure 6/1/2016.		\$14,840	\$14,840	Ineligible for PTRCF
Macintyre's, Inc. LUST	Billings	Confirmation sampling completed in January 2016. Results indicate that this release can be resolved. Release will be reviewed for closure in summer 2016.		\$11,123	\$11,123	Petro Fund after Co-Pay

Project Name	Location	Project Scope & Status	Cleanup	Assessment	Total	Leveraged Funds
Avon General Merchandise LUST	Avon	Confirmatory sampling completed in January 2016 identified contamination needing cleanup. Additional site work including review of appropriate cleanup alternatives and cleanup selection will be required in summer 2016. LUST Trust funds will be used to address the cleanup.		\$12,157	\$12,157	~ \$11,700 LUST Trust
Camp Custer Service LUST	Hardin	Soil excavation occurred in April 2016. If excavation successfully removes all contaminated soil and groundwater contamination responds favorably, the release will be resolved in 2017 or 2018.	\$14,682		\$14,682	Petro Fund after Co-Pay
Former K & L Grocery LUST	Dodson	Confirmatory sampling completed in May 2016. Potential to resolve site will depend on results.		\$24,996	\$24,996	Ineligible for PTRCF
Westland Service Station LUST	Glasgow	Confirmatory sampling completed in May 2016. Potential to resolve site will depend on results.		\$26,515	\$26,515	Potentially Eligible for PTRCF
Saco Conoco LUST	Saco	Confirmatory sampling completed in May 2016. Potential to resolve site will depend on results.		\$17,421	\$17,421	Petro Fund after Co-Pay
Osterholm Residence LUST	Lewistown	Confirmation sampling completed in Spring 2016. All results were below screening levels and release will be closed in Summer 2016.		\$17,793	\$17,793	Potentially Eligible for PTRCF
LaSalle Residence LUST	Helena	Confirmation sampling scheduled for summer 2016. If results are below screening levels, this release will be resolved in fall/winter 2016/2017.		\$21,345	\$21,345	Petro Fund after Co-Pay
Wolfe Brothers Ranch LUST	Shelby	Confirmation sampling scheduled for summer 2016. If results are below screening levels, this release will be resolved in fall/winter 2016/2017.		\$22,478	\$22,478	Potentially Eligible for PTRCF
Montana Children's Center LUST	Twin Bridges	Confirmation sampling occurred in June 2016. Potential to resolve site will depend on results.		\$8,101	\$8,101	Petro Fund after Co-Pay
Pepco Station LUST	Roundup	Monitoring wells were replaced in June 2016. Additional contamination was identified. Additional site work including review of appropriate cleanup alternatives and cleanup selection.		\$20,407	\$20,407	\$324,498 LUST Trust; Ineligible for PTRCF
Orelup Residence	Billings	Confirmation sampling scheduled for Summer 2016. Potential to resolve		\$12,856	\$12,856	Petro Fund after Co-Pay
LUST Bud Hayes Exxon LUST	Great Falls	site will depend on results.  Confirmation sampling scheduled for summer 2016. Potential to resolve site will depend on results.		\$21,141	\$21,141	Ineligible for PTRCF
Adsit Farm LUST	Decker	Confirmation sampling scheduled for Summer 2016. Potential to resolve site will depend on results.		\$22,568	\$22,568	Potentially eligible for PTRCF

Project Name	Location	cation Project Scope & Status	Cleanup Asso	Assessment	Total	Leveraged Funds
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Hardin Auto	Hardin	Confirmation sampling scheduled for Summer 2016. Potential to resolve		\$21,692	\$21,692	Petro Fund after Co-Pay
LUST		site will depend on results.				
Yellowstone Boys & Girls	Billings	Confirmation sampling scheduled for Summer 2016. Potential to resolve		\$7,127	\$7,127	Petro Fund after Co-Pay
Ranch LUST		site will depend on results.				
Reinertson's Garage LUST	Hot Springs	Confirmation sampling scheduled for Summer 2016. Potential to resolve		\$25,081	\$25,081	Petro Fund after Co-Pay
		site will depend on results.				
LeDuc Motors	Kalispell	Confirmation sampling scheduled for Summer 2016. Potential to resolve		\$30,326	\$30,326	Potentially Eligible for PTRCF
LUST		site will depend on results.				
Hoyt Residence	Arlee	Confirmation sampling scheduled for Summer 2016. Potential to resolve		\$20,035	\$20,035	Potentially Eligible for PTRCF
LUST		site will depend on results.				
Laird Residence	Zurich	Confirmation sampling scheduled for Summer 2016. Potential to resolve		\$16,747	\$16,747	Potentially eligible for the PTRCF
LUST		site will depend on results.				
Shepherd's Garage	Jackson	Confirmation sampling scheduled for Summer 2016. Potential to resolve		\$17,043	\$17,043	Ineligible for PTRCF
LUST		site will depend on results.				
TJ's Quick Stop	Poplar	Confirmation sampling scheduled for Summer 2016. Potential to resolve		\$18,480	\$18,480	Ineligible for PTRCF
LUST		site will depend on results.				
School District 24	Worden	Confirmation sampling occurred in June 2016. Potential to resolve site will		\$12,866	\$12,866	Potentially eligible for PTRCF
LUST		depend on results.				
Gardiner House LUST	Gardiner	Confirmation sampling scheduled for Summer 2016. Potential to resolve		\$3,642	\$3,642	Petro Fund after Co-Pay
		site will depend on results.				
Ostrem Farm	Galata	Confirmation sampling scheduled for Summer 2016. Potential to resolve		\$18,454	\$18,454	Potentially Eligible for PTRCF
LUST		site will depend on results.				
Rocky Boy School	Box Elder	Confirmation sampling scheduled for Summer 2016. Potential to resolve		\$25,754	\$25,754	Potentially eligible for PTRCF
LUST		site will depend on results.				
Bryans Auto Repair	Shelby	Confirmation sampling scheduled for Summer 2016. Potential to resolve		\$12,742	\$12,742	Petro Fund after Co-Pay
LUST		site will depend on results.				
Parkway Motel	Billings	Confirmation sampling scheduled for Summer 2016. Potential to resolve		\$27,320	\$27,320	Potentially eligible for PTRCF
LUST		site will depend on results.				
First Presbyterian Church	Helena	Confirmation sampling scheduled for Summer 2016. Potential to resolve		\$7,500	\$7,500	Potentially eligible for PTRCF
LUST		site will depend on results.				
Project Mercantile	Worden	Confirmation sampling scheduled for Summer 2016. Potential to resolve		\$13,176	\$13,176	Potentially eligible for PTRCF
LUST		site will depend on results.				
Powell County Shop	Helmville	Confirmation sampling scheduled for Summer 2016. Potential to resolve		\$15,437	\$15,437	Potentially Eligible for PTRCF
LUST		site will depend on results.				
Walker Residence	Lincoln	Confirmation sampling scheduled for Summer 2016. Potential to resolve		\$13,285	\$13,285	Potentially eligible for PTRCF
LUST		site will depend on results.				
Cattaneo Farm	Culbertson	Confirmation sampling scheduled for Summer 2016. Potential to resolve		\$11,223	\$11,223	Potentially eligible for the PTRCF
LUST		site will depend on results.				
Taylor Residence	Dillon	Confirmation sampling scheduled for Summer 2016. Potential to resolve		\$21,187	\$21,187	Potentially eligible for PTRCF
LUST		site will depend on results.				
ergeson Residence LUST	Dillon	Confirmation sampling scheduled for Summer 2016. Potential to resolve		\$15,600	\$15,600	Potentially eligible for the PTRCF
		site will depend on results.				
M&W Service	Forsyth	Confirmation sampling scheduled for Summer 2016. Potential to resolve		\$12,500	\$12,500	Potentially eligible for the PTRCF
LUST		site will depend on results.				
St. Labre Indian School	Ashland	Confirmation sampling scheduled for Summer 2016. Potential to resolve		\$19,760	\$19,760	Potentially eligible for the PTRCF
LUST		site will depend on results.		4		
Hakert Ranch	Shepherd	Confirmation sampling scheduled for Summer 2016. Potential to resolve		\$13,000	\$13,000	Potentially Eligible for PTRCF
LUST		site will depend on results.				

Project Name	Location	Project Scope & Status	Cleanup	Assessment	Total	Leveraged Funds
Qualley Farm LUST	Lambert	Confirmation sampling scheduled for Summer 2016. Potential to resolve site will depend on results.		\$25,000	\$25,000	Potentially Eligible for PTRCF
Nordwick Residence LUST	Poplar	Confirmation sampling scheduled for Summer 2016. Potential to resolve site will depend on results.		\$17,000	\$17,000	Petro Fund after Co-Pay
Johnson Residence LUST	Poplar	Confirmation sampling scheduled for Summer 2016. Potential to resolve site will depend on results.		\$15,600	\$15,600	Potentially eligible for the PTRCF
Split Diamond Ranch LUST	Whitehall	Confirmation sampling scheduled for Summer 2016. Potential to resolve site will depend on results.		\$10,400	\$10,400	Potentially eligible for the PTRCF
Ballard Residence LUST	Floweree	Confirmation sampling scheduled for Summer 2016. Potential to resolve site will depend on results.		\$23,834	\$23,834	Potentially eligible for the PTRCF
Christofferson Logliners LUST	Missoula	Confirmation sampling scheduled for Summer 2016. Potential to resolve site will depend on results.		\$10,000	\$10,000	Potentially eligible for PTRCF
Dedrick Residence LUST	Libby	Confirmation sampling scheduled for Summer 2016. Potential to resolve site will depend on results.		\$6,760	\$6,760	Potentially eligible for PTRCF
Phillips Residence LUST	Three Forks	Confirmation sampling scheduled for Summer 2016. Potential to resolve site will depend on results.		\$15,600	\$15,600	Potentially eligible for PTRCF
Bundtrocks Miracle Mile LUST	Great Falls	Soil excavation scheduled for Summer/Fall 2016. If excavation successfully removes all contaminated soil and groundwater contamination responds favorably, the release will be resolved in 2017 or 2018.	\$6,900		\$6,900	Potentially eligible for PTRCF
Inman Property LUST	Chinook	Soil excavation scheduled for Summer/Fall 2016. If excavation successfully removes all contaminated soil and groundwater contamination responds favorably, the release will be resolved in 2017 or 2018.	\$106,000		\$106,000	\$50,000 LUST Trust Fund Potentially eligible for PTRCF
Hathaway Bar LUST	Hathaway	Soil excavation scheduled for Summer/Fall 2016.	\$120,000		\$120,000	\$40,000 LUST Trust Fund Potentially eligible for PTRCF
Harlowton Round House CECRA Cleanup (interim action)	Harlowton	Free product recovery system to be installed near former refueling operations in Summer of 2016. The laser induced florescence (LIF) investigation (leveraged with other funding) facilitated the design of this phase of SB96 work.	\$220,911		\$220,911	\$50,000 - DNRC (RDG-Planning). \$10,000 - DEQ Brownfields Possible future City of Harlowton \$300,000 DNRC (RDG) [2018/2019]
Harlowton Round House CECRA Cleanup (Soil Removal)	Harlowton	Free product and contaminated soil near oil/water separator scheduled to be excavated in the summer 2016. In addition, waste drums and barrels will also be removed from the site.	\$200,000		\$200,000	See Above
Charles M Russell Refuge CECRA (potential de-list)	Roy	Geophysical work (electromagnetic investigation) completed fall 2015 identified two potential target areas of buried pesticide. Target areas excavated and sampled in March 2016. Preliminary information show no signs of contamination. If final results indicate pesticides are not present, the site will be proposed for delisting in 2016.		\$35,030	\$35,030	Backhoe and backhoe operator provided for the March 2016 excvation. This in-kind cost is estimated to be approximately \$2,000.
Chandelle Lane Barrel Site CECRA (potential de-list)	Black Eagle	Drums and broken barrels are still present with contamination in both surface and subsurface soils. Surface and Subsurface soil sampling completed March 2016. As it was discovered that the likely origin of these barrels was Malmstrom Airforce Base, the contamination will be addresssed by DOD.		\$20,789	\$20,789	DOD will conduct further work to cleanup site.

Project Name	Location	Project Scope & Status	Cleanup	Assessment	Total	Leveraged Funds
Developmental Technology CECRA (potential de-list)	Bozeman	Monitoring wells installed in fall 2015, and low-water level samples were below screening levels. High-water samples were collected in June 2016. If results are also below screening levels, site will be proposed for delisting in 2016/2017.		\$33,346	\$33,346	\$3,900 - DEQ Brownfields
Unionville School LUST	Unionville	A half-buried heating oil storage tank was removed in March 2016 and soil investigated. Laboratory results confirm a release has occurred; however, Tier II screening levels were not exceeded. Site will be routed for closure in July 2016.	\$32,672		\$32,672	Potentially eligible for PTRCF
Office Stop LUST	Butte	Health Center and Youth Center owned by North American Indian Alliance. Initial sampling identified petroleum vapors that may be originating from gasoline tanks formerly on site, however results inconclusive due to indoor sources present. Additional vapor and subsurface assessment are ongoing.		\$17,500	\$17,500	Petro Fund after Co-Pay
Central Post and Treating Co CECRA Cleanup	Lewistown	Investigated former wood treating facility located on older dump site for pentachlorophenol and other contaminants in February 2016. Results indicate the majority of contamination is in the upper 4 feet and the penta contamination exceeds screening levels in the former wood treating area. Next steps include design sampling, the completion of an EA VCP and bid prep for the excavation of the penta contamination and capping of the site.		\$230,959	\$230,959	\$35,000 - DNRC (RDG-Planning). City has applied for \$475,000 through a 2018/2019 RDG grant.
Lee Gordon House	Missoula	Remove lead contaminated soils along drip line of building after Non-profit abates and deconstructs building.		\$20,000	\$20,000	North Missoula Community Development Corporation is using a subgrant from the City of Missoula's Brownfields RLF to cover the cost of the abatment and deconstruction fo the existing building. This is estimated at \$75,000 - \$100,000.
Equity Co-op	Harlem	In-situ chemical oxidation of contamination under the Hwy and an irrigation ditch that could not be excavated during the RDG Cleanup.	\$ 200,000		\$200,000	Bear Paw EDA has agreed to use their Brownfields RLF to subgrant the city to cover any follow-up oxidation injections as well as long term monitoring. They are estimating approximately \$100,000 in leveraged funds.
Lily/Orphan Boy Abandoned Mine	Elliston	DEQ has entered into a partnership with multiple entities to reclaim this abandoned mine site. SB96 funds will remove waste rock and tailings from Telegraph Creek in the Little Blackfoot Watershed. Work leveraged through other funds includes: Completion of Engineering Analysis to reclaim the site, development of the Metals Watershed Restoration Plan, restoration of Tramway Creek and the floodplain. Work scheduled for summer 2016.			\$285,073 \$6,987,392	\$110,911 - Federal Abandoned Mine Land grant (DEQ) \$40,000 - RDG Grant to Trout Unlimited \$32,000 - DEQ 319 Non-Point Source Program Restoration Grant Funds \$30,000 - FWP Future Fisheries

Data as of June 23, 2016

#### Senate Bill 96 Acronym/Terminology List

CECRA Comprehensive Environmental Cleanup and Responsibility Act - also known as

State Superfund

Co-Pay PTRCF Co-Payment

DEQ Department of Environmental Quality

DNRC Department of Natural Resources and Conservation – manages a grant program

that is a potential source of funding that could be leveraged for SB96 projects

DOD U.S. Department of Defense

EPA U.S. Environmental Protection Agency – manages grant programs that are a

potential source of funding that could be leveraged for SB96 projects

EQPF Environmental Quality Protection Fund

FWP Fish Wildlife and Parks Department

LUST Leaking Underground Storage Tank

LUST Trust Federal funds used to cleanup LUST sites

MUSTA Montana Underground Storage Tank Act

N/A Not Applicable (no funds leveraged)

PPG Performance Partnership Grant (EPA grant)

PTRCB Petroleum Tank Release Compensation Board (also called "Petro Board")

PTRCF Petroleum Tank Release Cleanup Fund (also called "Petro Fund")

RDG Resource Development Grant – managed by DNRC

WQA Water Quality Act

#### Terminology used when a site is "Closed"

Delist For State Superfund facilities, this means that the criteria identified in ARM

17.55.114 are met. For SB96 projects, this may mean additional information indicates a historic site does not need to remain listed because there is no contamination that poses an unacceptable risk to human health or the

environment. It may also mean that cleanup was completed and is protective of

human health and the environment.

Resolved For petroleum tank release sites, this is defined in section 75-11-521(5)(c), MCA,

as a determination by DEQ that all cleanup requirements have been met and that conditions at the site ensure present and long-term protection of human health and

the environment.