Butte-Silver Bow Planning Board

November 10, 2016

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RE: October 2016 Monthly Report of Activities
Butte Priority Soils Operable Unit
Unilateral Administrative Order (UAO) – EPA Docket No. CERCLA-08-2011-0011

Ladies and Gentlemen:

Pursuant to Paragraph 42 of the above referenced Order, Butte-Silver Bow submits the attached Monthly Report for activities performed at the Silver Bow Creek/Butte Area Superfund Site, as part and on behalf of the Group 1 Respondents. This monthly report covers work activities for October 2016.

Please contact me (497-6264) if you have any questions about the information in the report or need additional information about Butte-Silver Bow's work activities. Thank you.

Sincerely,

Julia Crain
Superfund Program
Butte-Silver Bow Planning Department

Attachment: Monthly Report

CC: Loren Burmeister, AR Project Manager
BSB Personnel
E-Mail version sent to List-Serve

Monthly Report – October 2016
Butte Priority Soils Operable Unit
Silver Bow Creek/Butte Area Superfund Site
Unilateral Administrative Order (EPA Docket No. CERCLA-08-2011-0011)

As directed by Paragraph No. 42 of the *Unilateral Administrative Order for Partial Remedial Design/Remedial Action Implementation and Certain Operation and Maintenance at the Butte Priority Soils Operable Unit/Butte Site (hereinafter, the Order)*, the City and County of Butte-Silver Bow provides this monthly report on work activities under the Order. The work activities described in this report are consistent with the directives contained in the Order/Remedial Action Work Plan, and cover those efforts performed by Butte-Silver Bow as part of the Group 1 Respondents, during October 2016.

I. Operations and Maintenance Activities

A. Source Areas/Butte Reclamation Evaluation System (BRES)

Routine O&M. In October of 2016, Source Area maintenance crews continued maintenance of sites throughout the Butte Hill. Crews completed routine O&M on sites including trash pickup and hauling, fence repairs, stormwater infrastructure cleanouts (sediment basins, culverts, inlets, etc.) and removing dead or decaying trees in various locations. Specifically:

- Applied seed and fertilizer to sites prepared before the seed application date (October 15th). Descriptions for site preparation are in previous monthly reports. Sites CB-9, 2310, 155, CB-8, 132, 136, 78, 52, 181, 60 and 60A were disked and seed was applied in accordance with the Butte Hill Re-vegetation Specification.
- Site 2310 – Constructed an access road to the existing sampler and to the inlet to the storm drain to prevent future damage to vegetated areas due to access. The road was constructed with 24 cubic yards of road mix.
- Site 71N – Removed trash and debris.

BRES Program. In October of 2016 O&M Crews completed O&M tasks prompted by 2015 Field Evaluations. The majority of construction was concluded in September, and final vegetative improvements, specifically seeding, were completed by October 15th.

Vegetation and Weed Controls. No specific activities to report for October 2016.

Native Plants. Butte-Silver Bow has completed its obligations to the Tree Program for 2016. Butte-Silver Bow developed a list of potential planting sites during the 2016 BRES Evaluations. Butte-Silver Bow and Montana Tech set a planting planning meeting for November 10, 2016, to begin discussing planting targets for spring 2017.

Excavation Review and Oversight. BSB personnel continue to monitor excavation and dirt-moving activities throughout the basin, including multiple Permits already issued. Coordination with multiple Contractors requires continued coordination for access to the Mine Waste Repository. BSB personnel issued 36 Excavation and Dirt-Moving Permits during October 2016; 12 permits were issued for properties in BPSOU:

- **409 N. Alaska St.** – Excavation for house addition
- **1150 Steele St.** – Utility repairs and maintenance
- **540 S. Main St.** – Excavation for sidewalk construction
- **1601 Steele St.** – Excavation for house footings/foundation, driveway, and fence

- **Alleyways; 800 block of W. Copper St., Caledonia St., and 400 block of N. Alabama St.** – Utility repairs and maintenance
- **Alleyways; 1000 block of W. Galena St., W. Mercury St., 100 block of S. Emmett St., and 100 block of Girard St.** – Utility repairs and maintenance
- **Alleyways; 1000 block of W. Woolman St., Antimony St., and 600 block of N. Emmett St.** – Utility repairs and maintenance
- **Alleyways; 700 block of W. Granite St., W. Broadway St., and 100 block of N. Alabama St.** – Utility repairs and maintenance.
- **Alleyways; 900 block of W. Copper St. and W. Quartz St.** – Utility repairs and maintenance
- **NE corner of 2nd and Dakota Streets** – Utility repairs and maintenance
- **200 block of Ophir St.** – Utility repairs and maintenance
- **Western and W. Granite Streets Alleyway** – Excavation for posts/poles, utility repairs and maintenance

Institutional Controls (ICs). Butte-Silver Bow continues to manage its responsibilities to the Institutional Controls Program. Butte-Silver Bow is working with permit recipients to educate the permit holders on Best Management Practices, stormwater controls, sediment controls, excavation of hazardous waste, and access to the Mine Waste Repository. B-SB personnel continue to work closely with local utility companies (NWE, telephone, cable and others) to coordinate Street Opening permits, Excavation & Dirt-Moving permits and others.

Mine Waste Repository Maintenance. The Mine Waste Repository continued operation with all active dumping directed to the lower, eastern bench which continues to be monitored and maintained on a regular basis.

- Removed materials from and re-graded the lower deck of the repository using a D7 dozer.

B. Storm Water Operations and Maintenance Activities

During the reporting period, standard and routine work activities were performed. Crews were out inspecting and monitoring various facilities, and completed several cleanouts within the BPSOU site as needed. October maintenance activities include:

- Continuous monitoring of Syndicate Pit, CB8, CB9 and HDDs;
- Cleaned by-pass grate and sediment traps at CB8 on multiple dates;
- Repaired damage and removed 8 cubic yards of sediment caused by a rain event that overwhelmed the Webster Garfield HDD. The storm caused erosion in the access area and adjacent to the man holes to the HDD.
- Removed 32 cubic yards of sediment from the fore bay at CB-8 using the skid steer and removed 30 cubic yards from the bypass man holes. Sediments were placed and the drying beds and then removed and transferred to the repository.
- Removed 5 cubic yards of sediment from existing drop inlets (2) on the west side of Excelsior Street adjacent to the walking trail parking lot.
- Repaired erosion damage by covering a soil area at the corner of Excelsior and Waukesha with 25 cubic yards of recycled asphalts to prevent sediment loading to the above mentioned drop inlets.
- Removed 4 cubic yards of sediment from the upper storm water ditches at the repository and removed accumulated sediment around the parking area of the Granite Mountain Memorial.
- Constructed a storm water ditch on the south side of Empire Street on BRES Site 72 to direct storm water from the street to the existing sediment trap on the corner of Empire and Boardman. The new ditch was excavated and armored with 24 cubic yards of 6 inch minus material.

- Repaired erosion damage adjacent to the existing stream on BRES Site 120. The stream reports to the fore bay and by pass system at CB-8. 24 cubic yards of road mix was used to repair damage to existing access road and 6 inch minus was used to armor area adjacent to the culvert.
- Repaired erosion damage to the area at the outfall of the CB-8 fore bay. Large rock and 6 inch minus were placed to direct storm water to the existing ditch.
- Repaired disturbed area adjacent to BRES Site 2310 along George Street to prevent sediment loading in the storm drain. The area was disked and seed and fertilizer were applied with the hydro-seeded in accordance with Butte Hill Re-vegetation specification.
- Installed an asphalt berm adjacent to Montana Street to direct storm water to an existing ditch adjacent to the BA&P walking trail.
- Received a storm water complaint from the Walkerville maintenance staff regarding a drop inlet on the corner of the Ryan Road and George Street. An existing drop inlet was overwhelmed by sediment. 4 cubic yards were removed from the drop inlet utilizing the vac-truck. After the sediment was removed, it was determined that the drop inlet reported to a surface structure west of George Street through an existing 12 inch pipe. A ditch was constructed from the end of the pipe to the surface structure and armored with 6 inch minus.
- Prepared the approved snow storage areas by re-establishing BMPs.

Superfund Storm Water Structures Inspections: BSB personnel continue routine inspections of storm water facilities, storm water features and storm water structures.

Superfund Storm Water Structures Operations and Maintenance Plan: This plan has received final comments and is being prepared for submittal to the Agencies in November 2016.

MPDES Storm Water Permit Assistance & Monitoring – MS4: MPDES Storm Water Permit Assistance & Monitoring – MS4: Butte-Silver Bow and its consultants continue to implement requirements of its Municipal Separate Storm Sewer System (MS4) permit. The MS4 permit requires the BSB develop a Storm Water Management Program (SWMP) that addresses six control measures: public education, public involvement, illicit discharge detection and elimination (IDDE), construction site storm water control, post-construction site storm water control, and pollution prevention/good housekeeping. Activities completed under each control measure are detailed below:

- BSB completed the annual MS4 report as required in Section I under Part IV. Monitoring, Recording and Reporting Requirements for the General Permit.
- Butte-Silver Bow Public Works and its consultants provide engineering support and assistance in reviewing storm water design plans for proposed developments in Butte, as required by the City-County Storm Water Ordinance. Assistance regarding storm water requirements was provided to potential developers as requested.
- MDEQ has decided to administratively extend the existing MS4 permit for the years 2015-2016 while a working group conducts meetings develops new permit requirements. BSB and its consultant WET have participated in multiple permittee-stakeholder meetings on this topic and will take part in the working group meetings.
- BSB began meeting with the other MS4 Cities to develop a MS4 permit that is acceptable to the cities and DEQ.

C. Water Quality District Activities

- Attended weekly coordination meetings between the Water Quality District, Superfund and Metro.
- Attended meeting regarding domestic well sampling program.
    - Meeting involved Butte-Silver Bow, DEQ, EPA, Montana Bureau of Mines and Geology, and Atlantic Richfield Staff

- Discussed current program activities and what needs to occur moving forward
- Received list of wells within and surrounding BPSOU where well use is in question and the use must be determined
    - Determined that a collaborative effort between agencies will be made to identify the wells
- Currently working to identify and review previous studies regarding an irrigation well report
    - Some wells may have been previously sampled during this study
- Discussed potential future activities of the Domestic Well Sampling Program
- Future activities discussed the Montana Bureau Of Mines and Geology having sampling duties, and Butte-Silver Bow having Education and Data Storage responsibilities

D. GIS Activities

Primary work in the reporting period included:

- Monthly review of ArcGIS Online for O&M and Stormwater Inspection data was performed. Upon review, data was input into the BRES O&M Database; spatial data was downloaded for QA/QC and archival on the BSB GIS system.
- Received Granite Mountain Memorial area as-built data from Pioneer Technical and uploaded as a file geodatabase to the BSB GIS Server.
- Received 3rd cycle BMP as-built database from Pioneer Technical and uploaded as file geodatabase to the BSB GIS Server.
- Plotted 1955 aerial photography and associated parcels for customer interested in history of parcels located in the vicinity of Boardman and Agate Streets.
- Provided the Butte Priority Soils Operable Unit boundary shapefile to Montana Tech student.
- Provided Montana Tech Student with DEM of Silver Bow County and BRES Site shapefiles for mapping project to determine slope and aspect of BRES Sites.

II. Residential Metals Abatement Program

There are a number of standard work activities that are on-going and addressed each month:

- Identifying soil, attic and cap protection projects.
- Data base and GIS tracking system; progress and annual reports
- Completion statements and deed attachments for projects completed
- Re-insulating properties previously abated
- Paint inspections
- Residential soil/basement sampling
- Residential attic sampling
- Residential interior dust sampling
- Provide use of HEPA vacuums
- Provide blood lead sampling through WIC clinic and establish database for blood lead results

Projects in Progress (November 2016)
3001 Princeton – Attic
1932 Oregon – Attic
935 Zarelda – Soil

Projects Completed: (October 2016)
310 S. Jackson – Attic
629 S. Main – Attic

1207 W. Platinum – Attic
911 Waukesha – Attic
1133 Porphyry – Attic
1919 Aberdeen – Attic
815 W. Copper – Attic
3154 S. Montana – Soil
832 W. Quartz – Soil
45 W. Woolman – Soil
622 W. Granite – Soil

Upcoming projects:
2023 Wall – Attic
1032 W. Gold – Attic
2123 Princeton – Attic
2017 George – Attic
49 E. LaPlatte – Soil
1115 E. Second – Soil
1012 W. Quartz – Basement
450 N. Idaho – Basement

Projects Completed to date (2016) – 106
Properties Sampled to date (2016) – 224
Property Requests to Access for Sampling (2016) – 750