

Montana Tech Library

Digital Commons @ Montana Tech

Silver Bow Creek/Butte Area Superfund Site

Montana Superfund

Fall 11-23-2021

**Butte Reduction Works (BRW) Smelter Area Mine Waste
Remediation and Contaminated Groundwater Hydraulic Control
Site Quality Assurance Project Plan for Microbial Analysis and
Biotreatability Study**

Josh Bryson

Follow this and additional works at: https://digitalcommons.mtech.edu/superfund_silverbowbutte



Part of the [Environmental Health and Protection Commons](#), [Environmental Indicators and Impact Assessment Commons](#), and the [Environmental Monitoring Commons](#)

Atlantic Richfield Company

Josh Bryson
Liability Manager

317 Anaconda Road
Butte MT 59701
Direct (406) 782-9964
Fax (406) 782-9980

November 23, 2021

Nikia Greene
Remedial Project Manager
US EPA – Montana Office
Baucus Federal Building
10 West 15th Street, Suite 3200
Helena, Montana 59626

Erin Agee
Senior Assistant Regional Counsel
US EPA Region 8 Office of Regional Counsel
CERCLA Enforcement Section
1595 Wynkoop Street
Denver, CO 80202
Mail Code: 8ORC-C

Daryl Reed
DEQ Project Officer
P.O. Box 200901
Helena, Montana 59620-0901

Jonathan Morgan, Esq.
DEQ, Legal Counsel
P.O. Box 200901
Helena, Montana 59620-0901

RE: Butte Reduction Works (BRW) Smelter Area Mine Waste Remediation and Contaminated Groundwater Hydraulic Control Site Quality Assurance Project Plan for Microbial Analysis and Biotreatability Study

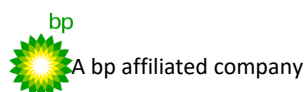
Agency Representatives:

I am writing you on behalf of Atlantic Richfield Company to submit the *Final Butte Reduction Works (BRW) Smelter Area Mine Waste Remediation and Contaminated Groundwater Hydraulic Control Site Quality Assurance Project Plan (QAPP) for Microbial Analysis and Biotreatability (BRW Biotreatability Study QAPP)* for your review and approval. In short, the BRW Biotreatability Study QAPP provides the sampling and analytical procedures and protocols necessary to conduct a bench-scale biotreatability study, including microbial analysis, as part of the overall remedial design effort for the BRW Site. Fieldwork is anticipated to begin in January 2022, pending Agency approval. A proposed schedule is included in the BRW Biotreatability Study QAPP.

Included with the BRW Biotreatability Study QAPP is Atlantic Richfield's response to Agency comments received on September 27, 2021. Per Agency request, the *Draft Final BRW Smelter Area Mine Waste Remediation and Contaminated Groundwater Hydraulic Control Site Field Sampling Plan for Microbial Analysis and Biotreatability* was modified and reissued as a standalone QAPP (this document).

Per Agencies' request, the following documents are included with this submittal:

1. Word Document QAPP Crosswalk.
2. Word Document of BRW Biotreatability Study QAPP with redline text indicating edits from previous version submitted to Agencies.
3. Complete PDF of BRW Biotreatability Study QAPP.



Atlantic Richfield Company

Josh Bryson
Liability Manager

317 Anaconda Road
Butte MT 59701
Direct (406) 782-9964
Fax (406) 782-9980

The documents may be downloaded at the following link:

<https://pioneertechnicalservices.sharepoint.com/:f/s/submitted/Eq8V299dd7NEo0pcXuehKI4B740IAVup9ddyY5RK5ktOAQ>

If you have any questions or comments, please call me at (406) 723-1834.

Sincerely,



Josh Bryson, PE, PMP
Liability Manager
Remediation Management Services Company
An affiliate of **Atlantic Richfield Company**

Cc: Patricia Gallery / Atlantic Richfield - email
Chris Greco / Atlantic Richfield – email
Mike Mc Anulty / Atlantic Richfield - email
Loren Burmeister / Atlantic Richfield – email
Dave Griffis / Atlantic Richfield - email
Jean Martin / Atlantic Richfield - email
Irene Montero / Atlantic Richfield - email
David A. Gratson / Environmental Standards / email
Mave Gasaway / DGS - email
John Davis / PRR - email
Joe Vranka / EPA - email
David Shanight / CDM - email
Curt Coover / CDM - email
James Freeman / DOJ - email
John Sither / DOJ - email
Jenny Chambers / DEQ - email
Dave Bowers / DEQ - email
Carolina Balliew / DEQ - email
Matthew Dorrington / DEQ - email
Jim Ford / NRDP - email
Ray Vinkey / NRDP - email
Harley Harris / NRDP - email
Katherine Hausrath / NRDP - email

Meranda Flugge / NRDP - email
Ted Duaine / MBMG - email
Gary Icopini / MBMG - email
Becky Summerville / MR - email
Kristen Stevens / UP - email
Robert Bylsma / UP - email
John Gilmour / Kelley Drye - email
Leo Berry / BNSF - email
Robert Lowry / BNSF - email
Brooke Kuhl / BNSF – email
Mark Engdahl / BNSF - email
Jeremie Maehr / Kennedy Jenks - email
Annika Silverman / Kennedy Jenks - email
Matthew Mavrincac / RARUS - email
Harrison Roughton / RARUS - email
Brad Gordon / RARUS - email
Mark Neary / BSB - email
Eric Hassler / BSB - email
Julia Crain / BSB - email
Chad Anderson / BSB - email
Brandon Warner / BSB – email
Abigail Peltomaa / BSB - email
Eileen Joyce / BSB – email
Sean Peterson/BSB – email
Gordon Hart / BSB – email
Jeremy Grotbo / BSB – email
Josh Vincent / WET - email
Craig Deeney / TREC - email
Scott Bradshaw / TREC - email
Brad Archibald / Pioneer - email
Pat Sampson / Pioneer - email
Mike Borduin / Pioneer - email
Joe McElroy / Pioneer – email
Andy Dare / Pioneer – email
Karen Helfrich / Pioneer - email
Leesla Jonart / Pioneer - email
Connie Logan/ Pioneer – email
Ian Magruder/ CTEC- email
CTEC of Butte / email
Scott Juskiewicz / Montana Tech – email

File: MiningSharePoint@bp.com - email
BPSOU SharePoint - upload