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(BMESD) BLACKBIRD MINE - BLACKBIRD MINE EXPLANATION OF SIGNIFICANT DIFFERENCES

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(BMESD) BLACKBIRD MINE - BLACKBIRD MINE EXPLANATION OF SIGNIFICANT DIFFERENCES

HEADING: 3.0 Record of Decision (ROD)

SUB-HEAD: 3.3 Vol. 1 Explanation of Significant Difference

Date: 7/27/2007 Explanation of Significant Difference for the Record of Decision for the Blackbird Mine Lemhi
DOCID: 1259649 County, Idaho.

Pages: 6

Releasable

Authors:

Daniel Opalski / EPA

Addressee(s):

Unknown

(BMESD) BLACKBIRD MINE - BLACKBIRD MINE EXPLANATION OF SIGNIFICANT DIFFERENCES

HEADING: 5.0 REMEDIAL DESIGN

SUB-HEAD: 5.1 Vol. 1 Correspondence

Date: 2/14/2003 Letter regarding issues raised in a 01/16/03 meeting.

DOCID: 1244168

Pages: 2

Releasable

Authors:

L. John Iani / EPA

Addressee(s):

Theodore Garrett / Covington & Burling

Bruce Smith / Moore Smith Buxton & Turcke

Date: 6/26/2003 Letter regarding Considerations for Cobalt Toxicity Testing, with a list of items for consideration during discussions of cobalt toxicity testing on 06/26/03.

DOCID: 1244169

Pages: 5

Releasable

Authors:

Carolyn Fordham / CH2M Hill, Inc.

Addressee(s):

Fran Allans / EPA

Date: 10/22/2003 Review of "Cobalt Toxicity Testing Workplan" for Panther Creek cleanup targets, Summary of recommendations.

DOCID: 1244170

Pages: 5

Releasable

Authors:

Chris Mebane / NOAA

Addressee(s):

Unknown

Date: 10/23/2003 Memorandum regarding the Review of the "Cobalt Toxicity Testing Workplan" for development of a site-specific cleanup level for cobalt in Panther Creek.

DOCID: 1244171

Pages: 1

Releasable

Authors:

Jeffrey Fromm / Idaho Dept. of Environmental Quality

Addressee(s):

Elton Modroo / Idaho Dept. of Environmental Quality

Troy Saffle / Idaho Dept. of Environmental Quality

Date: 11/10/2003 Letter transmitting comments on the Draft Cobalt Toxicity Testing Workplan, prepared for the BMSG by Stantec Consulting, Ltd., 10/9/03.

DOCID: 1176442

Pages: 11

Releasable

Authors:

Fran Allans / EPA

Addressee(s):

David Jackson / David E. Jackson and Associates, Inc.

Daniel Myers / Noranda Minerals, Inc.

(BMESD) BLACKBIRD MINE - BLACKBIRD MINE EXPLANATION OF SIGNIFICANT DIFFERENCES

SUB-HEAD: 5.1 Vol. 1

Correspondence

Date: 11/21/2003

DOCID: 1176443

Pages: 22

Releasable

Blackbird Mine Site Group response to 11/7/03 EPA comments on the BMSG, Draft Cobalt Toxicity Workplan, dated 10/9/03.

Authors:

S. R. Hansen & Associates

Stantec Consulting, Ltd.

Addressee(s):

EPA

Date: 11/21/2003

DOCID: 1244174

Pages: 2

Releasable

Letter transmitting the Blackbird Mine Site Group's response to EPA comments dated 11/07/03 on the 10/09/03 draft workplan on cobalt toxicity testing (less attachment).

Authors:

David Jackson / Blackbird Mine Site Group

Dan Myers / Blackbird Mine Site Group

Addressee(s):

Fran Allans / EPA

Date: 1/28/2004

DOCID: 1244175

Pages: 3

Releasable

Letter transmitting Stratus Consulting's comments on the Revised Cobalt Toxicity Testing Work Plan, and requesting that they be incorporated as the Forest Service Comments.

Authors:

Russ Bjorklund / Salmon-Challis National Forest

Addressee(s):

Fran Allans / EPA

Date: 2/4/2004

DOCID: 1176449

Pages: 4

Releasable

Letter transmitting EPA Comments on the Cobalt Toxicity Testing Workplan, prepared for the BMSG by Stantec Consulting Ltd., 1/16/04.

Authors:

Fran Allans / EPA

Addressee(s):

David Jackson / David E. Jackson and Associates, Inc.

Daniel Myers / Noranda Minerals, Inc.

Date: 2/17/2004

DOCID: 1244176

Pages: 6

Releasable

Letter transmitting BMSG's responses to EPA and Trustee comments, dated 02/03/04 on the revised Cobalt Toxicity Work Plan.

Authors:

David Jackson / Blackbird Mine Site Group

Dan Myers / Blackbird Mine Site Group

Addressee(s):

Fran Allans / EPA

(BMESD) BLACKBIRD MINE - BLACKBIRD MINE EXPLANATION OF SIGNIFICANT DIFFERENCES

SUB-HEAD: 5.1 Vol. 1 Correspondence

Date: 3/8/2004 Letter transmitting BMSG proposed replacement language for Section 10.3 of the Cobalt
DOCID: 1244177 Toxicity Testing Work Plan (pursuant to a 03/03/04 conference call).

Pages: 3
Releasable

Authors:
David Jackson / Blackbird Mine Site Group
Dan Myers / Blackbird Mine Site Group

Addressee(s):
Fran Allans / EPA

Date: 4/5/2004 Additional comments to the Cobalt Toxicity Testing Workplan, prepared for the BMSG by
DOCID: 1176455 Stantec Consulting, Ltd., 1/16/04.

Pages: 2
Releasable

Authors:
Fran Allans / EPA

Addressee(s):
David Jackson / David E. Jackson and Associates, Inc.
Daniel Myers / Noranda Minerals, Inc.

Date: 4/21/2004 Letter approving the Final, Cobalt Toxicity Workplan, prepared for the BMSG by Stantec
DOCID: 1176524 Consulting and S. R. Hansen and Associates, 4/6/04.

Pages: 1
Releasable

Authors:
Fran Allans / EPA

Addressee(s):
David Jackson / David E. Jackson and Associates, Inc.
Daniel Myers / Noranda Minerals, Inc.

Date: 6/10/2004 EPA and Trustees comments regarding the Draft, Sampling and Analysis Plan for the Cobalt
DOCID: 1176534 Toxicity Testing Work Plan, prepared for the BMSG by S. R. Hansen Associates, and Stantec
Consultants, Ltd., 5/18/04.

Pages: 8
Releasable

Authors:
Fran Allans / EPA

Addressee(s):
David Jackson / David E. Jackson and Associates, Inc.
Daniel Myers / Noranda Minerals, Inc.

Date: 6/16/2004 Blackbird Mine - Response to 6/9/04, agency comments on the Draft Sampling and Analysis
DOCID: 1176536 Plan for Cobalt Toxicity Testing, dated 5/18/04.

Pages: 2
Releasable

Authors:
David Jackson / Blackbird Mine Site Group
Dan Myers / Blackbird Mine Site Group

Addressee(s):
Fran Allans / EPA

(BMESD) BLACKBIRD MINE - BLACKBIRD MINE EXPLANATION OF SIGNIFICANT DIFFERENCES

SUB-HEAD: 5.1 Vol. 1

Correspondence

Date: 6/28/2004
DOCID: 1244178
Pages: 1
Releasable

Email approving use of the Pacific Ecorisk Lab for the cobalt toxicity study, after the 06/25/04 site visit (additional addressees).

Authors:

Fran Allans / EPA

Addressee(s):

David Jackson / Blackbird Mine Site Group

Paul McKee / Stantec Consulting, Ltd.

Michael Patterson / Blackbird Mine Site Group

Date: 7/1/2004
DOCID: 1176832
Pages: 2
Releasable

Letter addressing issues remaining from the 6/24/04 teleconference regarding the Draft, Sampling and Analysis Plan for the Cobalt Toxicity Testing Workplan, prepared for the BMSG by S. R. Hansen & Associates and Stantec Consulting, Ltd., 5/18/04.

Authors:

Fran Allans / EPA

Addressee(s):

David Jackson / David E. Jackson and Associates, Inc.

Daniel Myers / Noranda Minerals, Inc.

Date: 7/21/2004
DOCID: 1244179
Pages: 1
Releasable

Letter transmitting comments on the Final, Sampling and Analysis Plan for the Cobalt Toxicity Testing Work Plan, prepared for the BMSG by S.R. Hansen Associates, and Stantec Consultants, Ltd., 07/16/04.

Authors:

John Lincoln / CH2M Hill, Inc.

Addressee(s):

Fran Allans / EPA

Date: 7/22/2004
DOCID: 1176834
Pages: 1
Releasable

Letter providing contingent approval on the Final, Sampling and Analysis Plan for the Cobalt Toxicity Testing Work Plan, prepared for the BMSG by S. R. Hansen Associates, and Stantec Consultants, Ltd., 7/16/04.

Authors:

Fran Allans / EPA

Addressee(s):

David Jackson / David E. Jackson and Associates, Inc.

Daniel Myers / Noranda Minerals, Inc.

Date: 3/14/2005
DOCID: 1206279
Pages: 8
Releasable

Comments regarding the Draft, Calculation of a Cobalt Clean-up Value for Panther Creek Based on 2004 Site-specific Toxicity Testing, 2/6/05; and Draft, Evaluation of the Acute Toxicity of Cobalt in Panther Creek Water to Three Resident Invertebrate Species and the Acute and Chronic Toxicity of Cobalt in Panther Creek Water to Chironomus tentans and Oncorhynchus mykiss, 2/3/05.

Authors:

Fran Allans / EPA

Addressee(s):

David Jackson / David E. Jackson and Associates, Inc.

Daniel Myers / Noranda Minerals, Inc.

(BMESD) BLACKBIRD MINE - BLACKBIRD MINE EXPLANATION OF SIGNIFICANT DIFFERENCES

SUB-HEAD: 5.1 Vol. 1

Correspondence

Date: 4/8/2005
DOCID: 1244180
Pages: 11
Releasable

Response to Comments Concerning the Calculation of a Cobalt Clean-Up Value for Panther Creek.

Authors:

Stephen Hansen / S. R. Hansen & Associates
Paul McKee / Stantec Consulting, Ltd.

Addressee(s):

Blackbird Mine Site Group

Date: 4/21/2005
DOCID: 1206321
Pages: 16
Releasable

Letter regarding the Analysis and Recommendations for the Calculation of a Cobalt LC50 for the Mayfly *Centroptilum conturbatum*, with Table 1 and 4/18/05 memo from Erickson to Dillon regarding Analysis of Definitive *Centroptilum* Toxicity Test.

Authors:

Fran Allans / EPA

Addressee(s):

David Jackson / David E. Jackson and Associates, Inc.
Daniel Myers / Noranda Minerals, Inc.

Date: 5/4/2005
DOCID: 1244181
Pages: 4
Releasable

Memorandum transmitting Analysis and Recommendations for the Calculation of a Cobalt LC50 for the Mayfly *Centroptilum conturbatum* and Cleanup Value for Cobalt Panther Creek.

Authors:

Stephen Hansen / S. R. Hansen & Associates
Paul McKee / Stantec Consulting, Ltd.

Addressee(s):

David Jackson / Blackbird Mine Site Group

Date: 5/23/2005
DOCID: 1222193
Pages: 3
Releasable

Letter regarding Blackbird Mine Site, Calculation of a Cobalt LC50 for the Mayfly *Centroptilum conturbatum* and the Clean-up Value for Cobalt.

Authors:

Fran Allans / EPA

Addressee(s):

David Jackson / David E. Jackson and Associates, Inc.
Dan Myers / Noranda Mining, Inc.

Date: 10/20/2005
DOCID: 1222535
Pages: 4
Releasable

Letter transmitting 10/4/05 memorandum from Erickson to Allans clarifying a 4/18/05 memorandum regarding Blackbird Mine Site, Cobalt LC 50.

Authors:

Fran Allans / EPA

Addressee(s):

David Jackson / Blackbird Mine Site Group
Dan Myers / Noranda Mining, Inc.

(BMESD) BLACKBIRD MINE - BLACKBIRD MINE EXPLANATION OF SIGNIFICANT DIFFERENCES

SUB-HEAD: 5.1 Vol. 1 Correspondence

Date: 2/15/2006 Response from Hansen, SR Hansen & Assoc., and McKee, EcoMetrix Inc., to Erickson's
DOCID: 1222573 10/20/05 memorandum.

Pages: 7
Releasable

Authors:
David Jackson / Blackbird Mine Site Group
Dan Myers / Blackbird Mine Site Group

Addressee(s):
Fran Allans / EPA

Date: 9/8/2006 Letter confirming Idaho DEQ's review of the Explanation of Significant Difference for the
DOCID: 1244182 Record of Decision for the Blackbird Mine Lemhi County, Idaho dated August 2006.

Pages: 1
Releasable

Authors:
James Johnston / Idaho Dept. of Environmental Quality

Addressee(s):
Fran Allans / EPA

Date: 9/11/2006 Letter acknowledging that the Trustees have reviewed and concur with the Explanation of
DOCID: 1244183 Significan Difference (ESD).

Pages: 1
Releasable

Authors:
Russ Bjorklund / Salmon-Challis National Forest

Addressee(s):
Fran Allans / EPA

SUB-HEAD: 5.2 Vol. 1 Remedial Design Documents

Date: 1/25/2005 Letter transmitting the Blackbird Mine, Calculation of a Cobalt Cleanup Value for Panther
DOCID: 1206287 Creek Based on the 2004 Site-Specific Toxicity Testing.

Pages: 12
Releasable

Authors:
David Jackson / Blackbird Mine Site Group
Dan Myers / Blackbird Mine Site Group

Addressee(s):
Fran Allans / EPA

Date: 2/3/2005 An Evaluation of the Acute Toxicity of Cobalt in Panther Creek Water to Three Resident
DOCID: 1206289 Invertebrate Species and the Acute and Chronic Toxicity of Cobalt in Panther Creek Water to
Pages: 112 Chironomus tentans and Oncorhynchus mykiss, with CD version of Volumes 1-3. Volumes
Releasable 1-3 on the CD ROM include all appendices.

Authors:
Pacific EcoRisk

Addressee(s):
Blackbird Mine Site Group

(BMESD) BLACKBIRD MINE - BLACKBIRD MINE EXPLANATION OF SIGNIFICANT DIFFERENCES

SUB-HEAD: 5.2 Vol. 1 **Remedial Design Documents**
Date: 2/7/2005 Letter transmitting the Blackbird Mine, Calculation of a Cobalt Cleanup Value for Panther
DOCID: 1206290 Creek Based on the 2004 Site-Specific Toxicity Testing, and the 8/27/04 USGS report on
Pages: 19 Cobalt testing with sculpin.
Releasable

Authors:
David Jackson / Blackbird Mine Site Group
Dan Myers / Blackbird Mine Site Group
Addressee(s):
Fran Allans / EPA

SUB-HEAD: 5.3 Vol. 1 **Sampling and Analysis Plans**
Date: 4/6/2004 Cobalt Toxicity Testing Workplan with attached CD ROM.
DOCID: 1244185
Pages: 21
Releasable

Authors:
S. R. Hansen & Associates
Stantec Consulting, Ltd.
Addressee(s):
Blackbird Mine Site Group

Date: 6/16/2004 Blackbird Mine Site Group, Response to 6/9/04 Comments on Draft Sampling and Analysis
DOCID: 1176545 Plan for the Blackbird Mine Cobalt Toxicity Testing Work Plan, dated 5/18/04.
Pages: 24
Releasable

Authors:
Stephen Hansen / S. R. Hansen & Associates
Paul McKee / Stantec Consulting, Ltd.
Addressee(s):
Blackbird Mine Site Group

Date: 7/16/2004 Draft Sampling and Analysis Plan for Fall 2004, Blackbird Mine Site, Lemhi County, Idaho,
DOCID: 1176851 with transmittal letter.
Pages: 13
Releasable

Authors:
Golder Associates, Inc.
Addressee(s):
Blackbird Mine Site Group

Date: 8/18/2004 Sampling and Analysis Plan for the Cobalt Toxicity Testing Workplan (dated 04/06/04).
DOCID: 1244184
Pages: 68
Releasable

Authors:
S. R. Hansen & Associates
Stantec Consulting, Ltd.
Addressee(s):
Blackbird Mine Site Group

SUB-HEAD: 5.3 Vol. 1 Sampling and Analysis Plans

SUB-HEAD: 5.4 Vol. 1 Work Plans

Date: 10/9/2003 Cobalt Toxicity Testing Workplan.

DOCID: 1176113

Pages: 431

Releasable

Authors:

S. R. Hansen & Associates

Stantec Consulting, Ltd.

Addressee(s):

Blackbird Mine Site Group

Date: 1/16/2004 Cobalt Toxicity Testing Workplan. CD ROM version of this report is document 1176464.

DOCID: 1176465

Pages: 20

Releasable

Authors:

S. R. Hansen & Associates

Stantec Consulting, Ltd.

Addressee(s):

Blackbird Mine Site Group

(BMESD) BLACKBIRD MINE - BLACKBIRD MINE EXPLANATION OF SIGNIFICANT DIFFERENCES

HEADING: 6.0 Remedial Action

SUB-HEAD: 6.1 Vol. 1 Correspondence

Date: 11/6/2006 Letter regarding Biological Assessment of the Effects of the Remedial Activities for the Blackbird Mine, dated 10/16/03, and Change of Cobalt Cleanup Level.
DOCID: 1259131
Pages: 3
Releasable

Authors:
Fran Allans / EPA

Addressee(s):
David Mabe / Idaho Dept. of Environmental Quality
Damien Miller / U. S. Fish and Wildlife Service

Date: 12/6/2006 Letter regarding the Request for Change of Cobalt Cleanup Level from the 10/16/03 Biological Assessment of Effects of Remedial Activities for the Blackbird Mine, Idaho-Concurrence File # 1050.5101.
DOCID: 1259132
Pages: 2
Releasable

Authors:
Damien Miller / U. S. Fish and Wildlife Service

Addressee(s):
Fran Allans / EPA

Date: 3/1/2007 Letter regarding Endangered Species Act section 7 Informal Consultation and Mangnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Consultation for Remedial Activities for the Blacbird Mine HUC #17060203
DOCID: 1259133
Pages: 27
Releasable

Authors:
D. Robert Lohn / U. S. National Marine Fisheries Service

Addressee(s):
Fran Allans / EPA

Date: 6/5/2007 Letter regarding Proposed Revision to Cleanup Plan for Blackbird Mine, Lemhi County, Idaho with attached draft Explanation of Significant Difference for the Record of Decision.
DOCID: 1259648
Pages: 8
Releasable

Authors:
Daniel Opalski / EPA

Addressee(s):
Arnold Appeney / Shoshone-Bannock Tribes