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COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD (AGWAR)

July 12, 2001

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HEADING: 0. 0. . . TABLE OF CONTENTS/INDEX

HEADING: 2. 0. . . REMEDIAL INVESTIGATION/FEASIBILITY STUDY

SUB-HEAD: 2. 1. . . Vol. 1 - Correspondence

SUB-HEAD: 2. 1. 1. . Vol. 1 - Formal Correspondence

2. 1. 1. . Vol. 1 - 1029346 DOC ID: 41786
DATE: 2/21/1995 PAGES: 4
AUTHOR(S): Robert J. Miller/Hydrometrics, Inc. ADDRESSEE(S):
Piper L. Peterson/EPA

DESCRIPTION: Surface water sampling standard operating procedure.

2. 1. 1. . Vol. 1 - 1029347 DOC ID: 41765
DATE: 3/6/1995 PAGES: 3
AUTHOR(S): Piper L. Peterson/EPA ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION: Letter proposes a format for the Post Remedial Investigation Long-Term Groundwater Monitoring Report.

2. 1. 1. . Vol. 1 - 1029945 DOC ID: 41764
DATE: 4/27/1995 PAGES: 1
AUTHOR(S): Thomas L. Aldrich/Asarco, Inc. ADDRESSEE(S):
Bernard Zavala/EPA

DESCRIPTION: Letter transmits the Long-Term June and September 1994 Groundwater Monitoring Results. (Less enclosures)

2. 1. 1. . Vol. 1 - 1029946 DOC ID: 41769
DATE: 6/22/1995 PAGES: 29
AUTHOR(S): Piper L. Peterson-Lee/EPA ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION: Letter comments on the Long-Term June and September 1994 Groundwater Monitoring Report.

2. 1. 1. . Vol. 1 - 1029842 DOC ID: 41070
DATE: 7/20/1995 PAGES: 2
AUTHOR(S): ADDRESSEE(S):

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

Piper L. Peterson-Lee/EPA

Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION:

Letter discusses revision of the Long-Term June and September 1994 Groundwater Monitoring Results Report.

2. 1. 1. . Vol. 1 - 1029948 DOC ID: 41778
DATE: 7/25/1995 PAGES: 1

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Bruce A. Cochran/Washington State Dept. of Ecology

DESCRIPTION:

Responds to comment 43 of EPA's June 22, 1995 comment letter on the Long-Term June and September 1994 Groundwater Monitoring Report.

2. 1. 1. . Vol. 1 - 1029843 DOC ID: 41071
DATE: 9/28/1995 PAGES: 3

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:

Letter transmits and discusses the Long-Term Monitoring Data Report, March 1995 Sampling Event. (Less enclosure)

2. 1. 1. . Vol. 1 - 1029824 DOC ID: 41052
DATE: 3/4/1996 PAGES: 6

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:

Transmits proposed sampling schedule for the upcoming groundwater and surface water sampling event.

2. 1. 1. . Vol. 1 - 1029839 DOC ID: 41067
DATE: 3/28/1996 PAGES: 1

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:

Letter transmits the Long-Term Monitoring Data Report, September 1995 Sampling Event. (Less enclosures)

2. 1. 1. . Vol. 1 - 1029840 DOC ID: 41068
DATE: 3/28/1996 PAGES: 1

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:

Letter transmits the draft Summary and Interpretation of 1994/95 Post Remedial Investigation Long-Term Monitoring Results. (Less enclosures)

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2. 1. 1. . Vol. 1 - 1029825 DOC ID: 41053
DATE: 4/2/1996 PAGES: 38

AUTHOR(S):
Robert J. Miller/Hydrometrics, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:
Discusses use of an inductively coupled plasma-mass spectrometry instrument for analysis of long-term monitoring samples.

2. 1. 1. . Vol. 1 - 1029841 DOC ID: 41069
DATE: 4/3/1996 PAGES: 1

AUTHOR(S):
Dave Nation/Hydrometrics, Inc.

ADDRESSEE(S):
Bruce A. Cochran/Washington State Dept. of Ecology
Kevan Sharp/CH2M Hill, Inc.

Piper L. Peterson-Lee/EPA

DESCRIPTION:
Letter transmits replacement cover page for the Long-Term Monitoring Data Report. (Less enclosure)

2. 1. 1. . Vol. 1 - 1029826 DOC ID: 41054
DATE: 4/4/1996 PAGES: 1

AUTHOR(S):
Tami Thomas/CH2M Hill, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:
Transmits finalized Quality Assurance Project Plan for Oversight Sample Analysis. (Less enclosures)

2. 1. 1. . Vol. 1 - 1029828 DOC ID: 41056
DATE: 4/10/1996 PAGES: 1

AUTHOR(S):
Piper L. Peterson-Lee/EPA

ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION:
Approves use of inductively coupled plasma-mass spectrometry for analysis of groundwater monitoring samples.

2. 1. 1. . Vol. 1 - 1029845 DOC ID: 41073
DATE: 4/10/1996 PAGES: 2

AUTHOR(S):
Piper L. Peterson-Lee/EPA

ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION:
Discusses the spring 1996 groundwater and surface water sampling activities.

2. 1. 1. . Vol. 1 - 1029829 DOC ID: 41057
DATE: 4/19/1996 PAGES: 2

AUTHOR(S):
Tami Thomas/CH2M Hill, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

DESCRIPTION:

Transmits addendum to the source area verification Quality Assurance Project Plan for the arsenic kitchens and tunnel borings program.

2. 1. 1. . Vol. 1 - 1029830 DOC ID: 41058
DATE: 4/19/1996 PAGES: 1

AUTHOR(S): Tami Thomas/CH2M Hill, Inc. ADDRESSEE(S): Piper L. Peterson-Lee/EPA

DESCRIPTION:

Transmits the Quality Assurance Project Plan addendum. (Less enclosures)

2. 1. 1. . Vol. 1 - 1029831 DOC ID: 41059
DATE: 4/22/1996 PAGES: 3

AUTHOR(S): Peter Rubenstein/EPA ADDRESSEE(S): Artemis Antipas/CH2M Hill, Inc.

DESCRIPTION:

Requests that CH2M HILL procure additional laboratory support.

2. 1. 1. . Vol. 1 - 1044170 DOC ID: 66085
DATE: 4/25/1996 PAGES: 4

AUTHOR(S): Thomas L. Aldrich/Asarco, Inc. ADDRESSEE(S): Piper L. Peterson-Lee/EPA

DESCRIPTION:

Letter responds to EPA comment 50, Long-Term June and September 1994 Groundwater Monitoring Results.

2. 1. 1. . Vol. 1 - 1044171 DOC ID: 66087
DATE: 4/29/1996 PAGES: 1

AUTHOR(S): Kevan Sharp/CH2M Hill, Inc. ADDRESSEE(S): Piper L. Peterson-Lee/EPA

DESCRIPTION:

Transmits the Remedial Planning Plan; Quality Assurance Project Plan; ASARCO Tacoma Smelter Oversight Post Remedial Investigation Source Area Verification; Long-Term Monitoring; 1996 (April 4, 1996). (Less enclosures)

2. 1. 1. . Vol. 1 - 1044172 DOC ID: 66091
DATE: 5/1/1996 PAGES: 6

AUTHOR(S): Bruce A. Cochran/Washington State Dept. of Ecology ADDRESSEE(S): Piper L. Peterson-Lee/EPA

DESCRIPTION:

Letter comments on Hydrometrics draft Summary and Interpretation of 1994 and 1995 Post Remedial Investigation, Long-Term Monitoring Results for groundwater.

2. 1. 1. . Vol. 1 - 1044173 DOC ID: 66097
DATE: 5/28/1996 PAGES: 1

AUTHOR(S): ADDRESSEE(S):

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

Piper L. Peterson-Lee/EPA

Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION:

Responds to EPA comment 50, Long-Term June and September 1994 Groundwater Monitoring Results.

2. 1. 1. . Vol. 1 - 1044174 DOC ID: 66098
DATE: 6/4/1996 PAGES: 17

AUTHOR(S):
Piper L. Peterson-Lee/EPA

ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION:

Letter comments on Asarco's report titled Summary and Interpretation of 1994 and 1995 Post Remedial Investigation, Long-Term Monitoring Results.

2. 1. 1. . Vol. 1 - 1044175 DOC ID: 66099
DATE: 6/28/1996 PAGES: 2

AUTHOR(S):
Bernard Zavala/EPA

ADDRESSEE(S):
Dave Nation/Hydrometrics, Inc.

DESCRIPTION:

Memo clarifies monitoring well designations associated with specific source areas.

2. 1. 1. . Vol. 1 - 1044176 DOC ID: 66100
DATE: 7/3/1996 PAGES: 2

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:

Letter transmits responses to EPA comments regarding the Summary and Interpretive Report (March 1996) Post Remedial Investigation, Long-Term Monitoring Program. (Less enclosures)

2. 1. 1. . Vol. 1 - 1044177 DOC ID: 66109
DATE: 7/3/1996 PAGES: 27

AUTHOR(S):
Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:

Post Remedial Investigation, Long-Term Monitoring comment responses.

2. 1. 1. . Vol. 1 - 1044178 DOC ID: 66110
DATE: 7/16/1996 PAGES: 1

AUTHOR(S):
Piper L. Peterson-Lee/EPA

ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION:

Discusses production well sampling.

2. 1. 1. . Vol. 1 - 1105903 DOC ID: 66111
DATE: 8/6/1996 PAGES: 2

AUTHOR(S):

ADDRESSEE(S):

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

Tami Thomas/CH2M Hill, Inc.

Piper L. Peterson-Lee/EPA

Kevan Sharp/CH2M Hill, Inc.

DESCRIPTION:

Memo discusses the task of evaluating the feasibility of a barrier wall for use at the site.

2. 1. 1. . Vol. 1 - 1044157 DOC ID: 66112
DATE: 8/9/1996 PAGES: 7

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:

Transmits and discusses the draft Production Well Abandonment Action-Specific Sampling and Analysis Plan, Post Remedial Investigation, Long-Term Monitoring Project.

2. 1. 1. . Vol. 1 - 1044158 DOC ID: 66113
DATE: 8/9/1996 PAGES: 1

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Bruce A. Cochran/Washington State Dept. of Ecology

DESCRIPTION:

Transmits information regarding monitoring wells. (Less enclosure)

2. 1. 1. . Vol. 1 - 1044605 DOC ID: 67525
DATE: 8/13/1996 PAGES: 5

AUTHOR(S):
Piper L. Peterson-Lee/EPA

ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION:

Discusses results of the EPA review of the revisions to the Summary and Interpretation of 1994 and 1995 Long-Term Monitoring Results and Post Remedial Investigation, Long-Term Monitoring comment responses.

2. 1. 1. . Vol. 1 - 1044160 DOC ID: 66115
DATE: 8/19/1996 PAGES: 18

AUTHOR(S):
Piper L. Peterson-Lee/EPA

ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION:

Discusses the Sampling and Analysis Plan revision (July 1996).

2. 1. 1. . Vol. 1 - 1044604 DOC ID: 67526
DATE: 8/19/1996 PAGES: 7

AUTHOR(S):
Bruce A. Woods/EPA

ADDRESSEE(S):
Artemis Antipas/CH2M Hill, Inc.

DESCRIPTION:

Requests that CH2M Hill procure laboratory support to conduct groundwater sample analyses.

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

2. 1. 1. . Vol. 1 - 1044607 DOC ID: 67527
DATE: 8/28/1996 PAGES: 1

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:

Letter transmits draft replacement pages to the Draft Revision 1 Summary and Interpretation of 1994 and 1995 Long-Term Monitoring Results. (Less enclosures)

Note: Replacement pages were inserted into the referenced document.

2. 1. 1. . Vol. 1 - 1044608 DOC ID: 67528
DATE: 8/30/1996 PAGES: 3

AUTHOR(S):
Piper L. Peterson-Lee/EPA

ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION:

Discusses proposed changes to the Production Well Sampling and Analysis Plan.

2. 1. 1. . Vol. 1 - 1044602 DOC ID: 67529
DATE: 9/4/1996 PAGES: 3

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:

Comment responses to the Sampling and Analysis Plan, July 1996 revision, Post Remedial Investigation, Long-Term Monitoring Program.

2. 1. 1. . Vol. 1 - 1044613 DOC ID: 67530
DATE: 9/27/1996 PAGES: 2

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:

Letter transmits Long-Term Monitoring Data Reports: Spring, 1996 Sampling Event, and July, 1996 Production Well Sampling Event. (Less enclosures)

2. 1. 1. . Vol. 1 - 1044603 DOC ID: 67531
DATE: 10/1/1996 PAGES: 2

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:

Transmits redline revisions to the Post Remedial Investigation, Long-Term Monitoring Sampling and Analysis Plan. (Less enclosures)

2. 1. 1. . Vol. 1 - 1044801 DOC ID: 67664
DATE: 12/2/1996 PAGES: 1

AUTHOR(S):
Donald Matheny/EPA

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:

Reviews the March 1996 Data Report; Post-Remedial Investigation, Long-Term Monitoring Program, Appendix A, Data Validation Reports.

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2. 1. 1. . Vol. 1 - 1044803 DOC ID: 67666
DATE: 12/10/1996 PAGES: 2
AUTHOR(S):
Piper L. Peterson-Lee/EPA

ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION:
Approves the modifications in the redlined version of the Post-Remedial Investigation, Long-Term Monitoring Plan, and approves the Production Well Sampling and Analysis Plan.

2. 1. 1. . Vol. 1 - 1044804 DOC ID: 67667
DATE: 12/30/1996 PAGES: 1
AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:
Transmits Revision 1, Post-Remedial Investigation, Long-Term Monitoring Sampling and Analysis Plan. (Less attachments)

2. 1. 1. . Vol. 1 - 1048402 DOC ID: 71510
DATE: 1/28/1997 PAGES: 1
AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:
Transmits and discusses the Long-Term Monitoring Data Report: September, 1996 Production Well Sampling Event. (Less enclosure)

2. 1. 1. . Vol. 1 - 1048403 DOC ID: 71511
DATE: 2/5/1997 PAGES: 1
AUTHOR(S):
Unknown

ADDRESSEE(S):
Unknown

DESCRIPTION:
Draft topical agenda for the Production Well and Long-Term Monitoring Interpretive Report.

Note: For the Administrative Record, this document contains preliminary information or data currently relied upon by EPA. At a later date this document may be replaced by an updated version.

2. 1. 1. . Vol. 1 - 1048404 DOC ID: 71512
DATE: 2/14/1997 PAGES: 4
AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:
Transmits and discusses the Long-Term Monitoring Data Report: December, 1996 Production Well Sampling Event. (Less enclosure)

2. 1. 1. . Vol. 1 - 1048405 DOC ID: 71513
DATE: 2/18/1997 PAGES: 7
AUTHOR(S):
Piper L. Peterson-Lee/EPA

ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

DESCRIPTION: Memorializes decisions and agreements made regarding the Long-Term Groundwater Monitoring Program.

2. 1. 1. . Vol. 1 - 1048406 DOC ID: 71514
DATE: 3/3/1997 PAGES: 3
AUTHOR(S): Piper L. Peterson-Lee/EPA
ADDRESSEE(S): Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION: Discusses review of the Preliminary Fall 1996 Data Submittal for the Post Remedial Investigation, Long-Term Groundwater Monitoring Program.

2. 1. 1. . Vol. 1 - 1048449 DOC ID: 71515
DATE: 3/14/1997 PAGES: 1
AUTHOR(S): Thomas L. Aldrich/Asarco, Inc.
ADDRESSEE(S): Piper L. Peterson-Lee/EPA

DESCRIPTION: Transmits replacement pages for the Summary and Interpretation of 1994 and 1995 Long-Term Groundwater Monitoring Results, Draft Revision 1 - July 1996. (Less enclosure)

Note: Replacement pages were inserted into the referenced document.

2. 1. 1. . Vol. 1 - 1048408 DOC ID: 71516
DATE: 3/17/1997 PAGES: 1
AUTHOR(S): Piper L. Peterson-Lee/EPA
ADDRESSEE(S): Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION: Approves the revised replacement pages for the Summary and Interpretation of 1994 and 1995 Long-Term Groundwater Monitoring Results, Revision 1.

2. 1. 1. . Vol. 1 - 1048409 DOC ID: 71517
DATE: 3/31/1997 PAGES: 4
AUTHOR(S): Thomas L. Aldrich/Asarco, Inc.
ADDRESSEE(S): Piper L. Peterson-Lee/EPA

DESCRIPTION: Transmits and discusses the September 1996 Data Report for the Post-Remedial Investigation, Long-Term Monitoring Program. (Less enclosure)

2. 1. 1. . Vol. 1 - 1048410 DOC ID: 71518
DATE: 3/31/1997 PAGES: 4
AUTHOR(S): Thomas L. Aldrich/Asarco, Inc.
ADDRESSEE(S): Piper L. Peterson-Lee/EPA

DESCRIPTION: Transmits comment responses/revisions to the Preliminary Fall 1996 Data Submittal for the Post-Remedial Investigation, Long-Term Monitoring Program.

2. 1. 1. . Vol. 1 - 1048411 DOC ID: 71519
DATE: 3/31/1997 PAGES: 1
AUTHOR(S):
ADDRESSEE(S):

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

Thomas L. Aldrich/Asarco, Inc.

Piper L. Peterson-Lee/EPA

DESCRIPTION:

Transmits and discusses the Draft Summary and Interpretation of 1994, 1995, and 1996 Post-Remedial Investigation, Long-Term Monitoring Results. (Less enclosure)

2. 1. 1. . Vol. 1 - 1048412 DOC ID: 71520
DATE: 4/16/1997 PAGES: 1

AUTHOR(S):
Piper L. Peterson-Lee/EPA

ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION:

Discusses posting the 1995 and 1996 groundwater data report on the Internet.

2. 1. 1. . Vol. 1 - 1048413 DOC ID: 71521
DATE: 4/29/1997 PAGES: 5

AUTHOR(S):
Bruce A. Cochran/Washington State Dept. of Ecology

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:

Comments regarding the Draft Summary and Interpretation of 1994, 1995, and 1996 Post-Remedial Investigation, Long-Term Monitoring Results.

2. 1. 1. . Vol. 1 - 1048414 DOC ID: 71522
DATE: 5/15/1997 PAGES: 12

AUTHOR(S):
Piper L. Peterson-Lee/EPA

ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION:

Discusses review of the Draft September 1996 Data Report and the Draft Summary and Interpretation of 1994, 1995, and 1996 Post-Remedial Investigation, Long-Term Monitoring Results.

2. 1. 1. . Vol. 1 - 1048415 DOC ID: 71523
DATE: 5/21/1997 PAGES: 6

AUTHOR(S):
Piper L. Peterson-Lee/EPA

ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION:

Transmits correct pages of enclosure to letter dated May 15, 1997.

2. 1. 1. . Vol. 1 - 1105271 DOC ID: 128382
DATE: 9/23/1997 PAGES: 1

AUTHOR(S):
Dave Nation/Hydrometrics, Inc.

ADDRESSEE(S):
Lee Marshall/EPA

DESCRIPTION:

Memo discusses a list of field items agreed upon at the last Sediments meeting.

2. 1. 1. . Vol. 1 - 1105268 DOC ID: 128375
DATE: 9/30/1997 PAGES: 1

AUTHOR(S):
ADDRESSEE(S):

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

Thomas L. Aldrich/Asarco, Inc.

Lee Marshall/EPA

DESCRIPTION:

Letter transmits the March 1997 Data Report; Post-Remedial Investigation Long-Term Monitoring Program. (Less enclosures)

2. 1. 1. . Vol. 1 - 1047973 DOC ID: 104981
DATE: 12/3/1997 PAGES: 4

AUTHOR(S):
Kevan Sharp/CH2M Hill, Inc.

ADDRESSEE(S):
Kevin L. Rochlin/EPA

DESCRIPTION:

Letter comments on the March 1997 Data Report; Post-Remedial Investigation Long-Term Monitoring Program.

2. 1. 1. . Vol. 1 - 1105277 DOC ID: 124195
DATE: 3/6/1998 PAGES: 2

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Lee Marshall/EPA

DESCRIPTION:

Letter transmits and discusses revisions to the December 1996, Revision 1 Post-Remedial Investigation/Feasibility Study Long-Term Monitoring Program. (Less enclosure)

Note: The March 5, 1998 Addendum 1 and revised pages for Section 1 have been inserted into the referenced document.

2. 1. 1. . Vol. 1 - 1105281 DOC ID: 128570
DATE: 3/18/1998 PAGES: 12

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Lee Marshall/EPA

DESCRIPTION:

Letter discusses the evaluation of an alternative method for determining arsenic speciation in water samples.

2. 1. 1. . Vol. 1 - 1105260 DOC ID: 128319
DATE: 3/19/1998 PAGES: 3

AUTHOR(S):
Lee Marshall/EPA

ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION:

Letter transmits a review of the unvalidated data submittal for the Fall 1997 Post-Remedial Investigation Long-Term Monitoring Program.

2. 1. 1. . Vol. 1 - 1105269 DOC ID: 128378
DATE: 3/30/1998 PAGES: 1

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Lee Marshall/EPA

DESCRIPTION:

Letter transmits the September 1997 Data Report, and the Summary and Interpretation of 1994, 1995, 1996, and 1997 Long-Term Monitoring Results. (Less enclosures)

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

2. 1. 1. . Vol. 1 - 1047877 DOC ID: 104810
DATE: 6/30/1998 PAGES: 5

AUTHOR(S):
Kevan Sharp/CH2M Hill, Inc.

ADDRESSEE(S):
Lee Marshall/EPA

Kevin L. Rochlin/EPA

DESCRIPTION:
Letter comments on the September 1997 Data Report, and the draft Summary and Interpretation of 1994, 1995, 1996, and 1997 Post-Remedial Investigation Long-Term Monitoring Results.

2. 1. 1. . Vol. 1 - 1072517 DOC ID: 108285
DATE: 12/18/1998 PAGES: 4

AUTHOR(S):
Lee Marshall/EPA

ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION:
Letter comments on the review of the March 1998 Data Report; Post-Remedial Investigation Long-Term Monitoring Program.

2. 1. 1. . Vol. 1 - 1105270 DOC ID: 128380
DATE: 1/20/1999 PAGES: 5

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Lee Marshall/EPA

DESCRIPTION:
Letter transmits responses to EPA's comment letter dated December 18, 1998 concerning the March 1998 Data Report; and provides replacement pages for the March 1998 Data Report. (Less enclosures)

Note: Replacement pages have been inserted into the referenced document per instructions.

2. 1. 1. . Vol. 1 - 1105272 DOC ID: 128383
DATE: 3/19/1999 PAGES: 1

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Kevin L. Rochlin/EPA

DESCRIPTION:
Letter submits for review and approval the March 1999 Supplemental Work Plan for Geotechnical and Groundwater Evaluations.

2. 1. 1. . Vol. 1 - 1105273 DOC ID: 128384
DATE: 4/15/1999 PAGES: 3

AUTHOR(S):
Lee Marshall/EPA

ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION:
Letter comments on the March 1999 Supplemental Work Plan for Geotechnical and Groundwater Evaluations.

2. 1. 1. . Vol. 1 - 1105276 DOC ID: 128418
DATE: 9/30/1999 PAGES: 2

AUTHOR(S):

ADDRESSEE(S):

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

Thomas L. Aldrich/Asarco, Inc.

Lee Marshall/EPA

DESCRIPTION:

Letter transmits the March 1999 Data Report for the Long-Term Remedial Action Monitoring Plan. (Less enclosures)

Note: Data diskette, Doc ID 137721, is associated with this report.

2. 1. 1. . Vol. 1 - 1124409 DOC ID: 148848

DATE: 3/2/2000 PAGES: 7

AUTHOR(S):
Lee Marshall/EPA

ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION:

Letter comments on two Asarco documents: Draft Historical Summary of the Evaluations of Groundwater Remedial Alternatives, and Draft Analysis of Cost and Benefits of Groundwater Controls in Addition to the Upland Remedy.

Note: the Analysis of Cost and Benefits of Groundwater Controls in Addition to the Upland Remedy is included as Appendix A of the Revised Historical Summary of the Evaluations of Groundwater Remedial Alternatives. (See Groundwater AR Section 2.8.1, Vol. 16, DocID 139557)

2. 1. 1. . Vol. 1 - 1124424 DOC ID: 148876

DATE: 3/2/2000 PAGES: 3

AUTHOR(S):
Lee Marshall/EPA

ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION:

Letter comments on the Draft Summary of Groundwater Evaluations Conducted in Accordance with the March 1999 Supplemental Work Plan for Geotechnical and Groundwater Evaluations.

SUB-HEAD: 2. 2. . . Vol. 1 - Work Plan

2. 2. . . Vol. 1 - 1105274 DOC ID: 128385

DATE: 3/1/1999 PAGES: 30

AUTHOR(S):
Hydrometrics, Inc.

ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION:

Draft March 1999 Supplemental Work Plan for Geotechnical and Groundwater Evaluations.

Note: For the Administrative Record, this document contains preliminary information or data currently relied upon by EPA. At a later date this document may be replaced by an updated version.

SUB-HEAD: 2. 3. . . Vol. 1 - Sampling and Analysis/Quality Assurance Project Plan

SUB-HEAD: 2. 3. 1. . Vol. 1 - SAP/QAPP

2. 3. 1. . Vol. 1 - 1047627 DOC ID: 67532

DATE: 8/22/1994 PAGES: 2

AUTHOR(S):

ADDRESSEE(S):

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

Bernard Zavala/EPA

Piper L. Peterson/EPA

DESCRIPTION:

QAPjP addendum form to Post-Remedial Investigation, Long-Term Monitoring Groundwater Sampling Event, Fall 1994.

2. 3. 1. . Vol. 1 - 1013938 DOC ID: 28593
DATE: 10/5/1994 PAGES: 110

AUTHOR(S):
Hydrometrics, Inc.

ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION:

Post-Remedial Investigation, Long-Term Monitoring Sampling and Analysis Plan.

2. 3. 1. . Vol. 1 - 1029836 DOC ID: 41064
DATE: 3/29/1996 PAGES: 25

AUTHOR(S):
Tami Thomas/CH2M Hill, Inc.

ADDRESSEE(S):
Piper L. Peterson/EPA

DESCRIPTION:

Draft Remedial Planning Plan; Quality Assurance Project Plan for Source Area Verification Oversight and Groundwater Long-Term Monitoring Oversight Split Samples.

Note: For the Administrative Record, this document contains preliminary information or data currently relied upon by EPA. At a later date this document may be replaced by an updated version.

2. 3. 1. . Vol. 1 - 1047624 DOC ID: 66117
DATE: 4/4/1996 PAGES: 24

AUTHOR(S):
Kevan Sharp/CH2M Hill, Inc.

ADDRESSEE(S):
EPA

DESCRIPTION:

Remedial Planning Plan; Quality Assurance Project Plan; Oversight Post-Remedial Investigation Source Area Verification Long-Term Monitoring 1996.

2. 3. 1. . Vol. 1 - 1044168 DOC ID: 66116
DATE: 7/3/1996 PAGES: 107

AUTHOR(S):
Hydrometrics, Inc.

ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION:

Post Remedial Investigation, Long-Term Monitoring Sampling and Analysis Plan revising the October 1994 plan.

2. 3. 1. . Vol. 1 - 1044808 DOC ID: 67671
DATE: 12/1/1996 PAGES: 204

AUTHOR(S):
Hydrometrics, Inc.

ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

DESCRIPTION:

Post-Remedial Investigation, Long-Term Monitoring Sampling and Analysis Plan (December 1996 Revision 1).

Note: The March 5, 1998 Addendum 1 and revised pages have been inserted into the referenced document.

2. 3. 1. . Vol. 1 - 1105264 DOC ID: 128329
DATE: 1/23/1998 PAGES: 26

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Lee Marshall/EPA

DESCRIPTION:

Letter discusses modifications to the Long-Term Monitoring Program Sampling and Analysis Plan; and additional groundwater monitoring conducted in September 1997.

2. 3. 1. . Vol. 1 - 1105265 DOC ID: 128331
DATE: 2/4/1998 PAGES: 21

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Lee Marshall/EPA

DESCRIPTION:

Letter discusses proposed revisions to the 1998 Post-Remedial Investigation Long-Term Monitoring Program.

SUB-HEAD: 2. 3. 2. . Vol. 1 - Sample Locations

2. 3. 2. . Vol. 1 - 1029351 DOC ID: 41753
DATE: 3/10/1995 PAGES: 7

AUTHOR(S):
Allan W. Nye/Hydrometrics, Inc.

ADDRESSEE(S):
Piper L. Peterson/EPA

DESCRIPTION:

Letter transmits summaries of coordinates and elevations taken at monitoring well and bore hole locations.

SUB-HEAD: 2. 3. 3. . Vol. 1 - Schedules

2. 3. 3. . Vol. 1 - 1029947 DOC ID: 41775
DATE: 3/9/1995 PAGES: 2

AUTHOR(S):
Jeff Cross/Hydrometrics, Inc.

ADDRESSEE(S):
Robert J. Miller/Hydrometrics, Inc.

DESCRIPTION:

Proposed monitoring schedule for the March 1995 groundwater sampling event.

2. 3. 3. . Vol. 1 - 1029832 DOC ID: 41060
DATE: 9/15/1995 PAGES: 2

AUTHOR(S):
Jeff Cross/Hydrometrics, Inc.

ADDRESSEE(S):
Dave Nation/Hydrometrics, Inc.

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

DESCRIPTION:

Proposed monitoring schedule for the September 1995 groundwater monitoring event.

2. 3. 3. . Vol. 1 - 1105713 DOC ID: 66124
DATE: 7/26/1996 PAGES: 1

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:

Letter discusses proposed sampling schedule; production well action-specific monitoring.

2. 3. 3. . Vol. 1 - 1105714 DOC ID: 67533
DATE: 8/27/1996 PAGES: 3

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:

Proposed sampling schedule for the upcoming groundwater and surface water sampling event.

2. 3. 3. . Vol. 1 - 1105217 DOC ID: 67665
DATE: 12/3/1996 PAGES: 1

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:

Letter discusses the Proposed Sampling Schedule - Production Well Action Specific Monitoring, Post-Remedial Investigation, Long-Term Monitoring Program.

2. 3. 3. . Vol. 1 - 1105717 DOC ID: 71542
DATE: 2/20/1997 PAGES: 2

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:

Proposed schedule for the March groundwater and surface water sampling event.

2. 3. 3. . Vol. 1 - 1105718 DOC ID: 71543
DATE: 2/27/1997 PAGES: 2

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:

Revised schedule for the March groundwater and surface water sampling event.

2. 3. 3. . Vol. 1 - 1105261 DOC ID: 128321
DATE: 2/23/1998 PAGES: 1

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Lee Marshall/EPA

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

DESCRIPTION:

Letter transmits the March 1998 sampling schedule for the Post-Remedial Investigation Long-Term Monitoring upcoming groundwater and surface water sampling event. (Less attachment)

2. 3. 3. . Vol. 1 - 1105262 DOC ID: 128323
DATE: 8/31/1998 PAGES: 2

AUTHOR(S): Thomas L. Aldrich/Asarco, Inc. ADDRESSEE(S): Lee Marshall/EPA

DESCRIPTION:

Letter transmits the September 1998 sampling schedule for the Post-Remedial Investigation Long-Term Monitoring upcoming groundwater and surface water sampling event.

2. 3. 3. . Vol. 1 - 1105231 DOC ID: 124364
DATE: 3/3/1999 PAGES: 2

AUTHOR(S): Thomas L. Aldrich/Asarco, Inc. ADDRESSEE(S): Lee Marshall/EPA

DESCRIPTION:

Letter transmits the March 1999 Sampling Schedule, Spring Remedial Action Monitoring, for the upcoming groundwater and surface water sampling event.

2. 3. 3. . Vol. 1 - 1105263 DOC ID: 128325
DATE: 9/13/1999 PAGES: 2

AUTHOR(S): Thomas L. Aldrich/Asarco, Inc. ADDRESSEE(S): Lee Marshall/EPA

DESCRIPTION:

Letter transmits the September 1999 sampling schedule for the Fall Remedial Action Monitoring upcoming groundwater and surface water sampling event.

SUB-HEAD: 2. 4. . . Vol. 1 - Sampling & Analysis Data Summaries/Results

SUB-HEAD: 2. 4. 1. . Vol. 1 - Results/Chain of Custody//Validation

2. 4. 1. . Vol. 1 - 1029352 DOC ID: 41756
DATE: 10/26/1994 PAGES: 51

AUTHOR(S): Robert J. Miller/Hydrometrics, Inc. ADDRESSEE(S): Piper L. Peterson/EPA

DESCRIPTION:

Preliminary results from the June 1994 Post-Remedial Investigation, Long-Term Monitoring.

2. 4. 1. . Vol. 1 - 1029944 DOC ID: 41755
DATE: 12/7/1994 PAGES: 30

AUTHOR(S): ADDRESSEE(S):

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

EPA

DESCRIPTION: Sample Final Report; liquid total.

2. 4. 1. . Vol. 1 - 1029348 DOC ID: 41754
DATE: 1/10/1995 PAGES: 9
AUTHOR(S): Thomas L. Aldrich/Asarco, Inc. ADDRESSEE(S):
EPA

DESCRIPTION: Discharge Monitoring Report for the three outfalls.

2. 4. 1. . Vol. 1 - 1029349 DOC ID: 41757
DATE: 2/10/1995 PAGES: 9
AUTHOR(S): Thomas L. Aldrich/Asarco, Inc. ADDRESSEE(S):
EPA

DESCRIPTION: Discharge Monitoring Report for the three outfalls.

2. 4. 1. . Vol. 1 - 1029345 DOC ID: 41759
DATE: 3/1/1995 PAGES: 27
AUTHOR(S): Robert J. Miller/Hydrometrics, Inc. ADDRESSEE(S):
Piper L. Peterson/EPA

DESCRIPTION: Data Evaluation Report for Semivolatile Organics from Surface Water Outfalls.

2. 4. 1. . Vol. 1 - 1029350 DOC ID: 41762
DATE: 3/13/1995 PAGES: 9
AUTHOR(S): Thomas L. Aldrich/Asarco, Inc. ADDRESSEE(S):
EPA

DESCRIPTION: Discharge Monitoring Report for the three outfalls.

2. 4. 1. . Vol. 1 - 1029725 DOC ID: 41758
DATE: 4/13/1995 PAGES: 9
AUTHOR(S): Thomas L. Aldrich/Asarco, Inc. ADDRESSEE(S):
EPA

DESCRIPTION: Discharge Monitoring Report for the three outfalls.

2. 4. 1. . Vol. 1 - 1029728 DOC ID: 41760
DATE: 5/16/1995 PAGES: 9
AUTHOR(S): Thomas L. Aldrich/Asarco, Inc. ADDRESSEE(S):
EPA

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

DESCRIPTION:

Final monthly outfall report submitted under NPDES permit no. WA-000064-7.

2. 4. 1. . Vol. 1 - 1029727 DOC ID: 41761
DATE: 6/28/1995 PAGES: 6

AUTHOR(S): Thomas L. Aldrich/Asarco, Inc. ADDRESSEE(S): Piper L. Peterson-Lee/EPA

DESCRIPTION:

First monthly summary report for the three outfalls.

2. 4. 1. . Vol. 1 - 1029726 DOC ID: 41462
DATE: 7/26/1995 PAGES: 6

AUTHOR(S): Thomas L. Aldrich/Asarco, Inc. ADDRESSEE(S): Piper L. Peterson-Lee/EPA

DESCRIPTION:

June 1995 monthly summary report for the three outfalls.

2. 4. 1. . Vol. 1 - 1029850 DOC ID: 41461
DATE: 7/28/1995 PAGES: 47

AUTHOR(S): Thomas L. Aldrich/Asarco, Inc. ADDRESSEE(S): Piper L. Peterson-Lee/EPA

DESCRIPTION:

Post-Remedial Investigation Monitoring - ASTA13, Un-Validated Data Submittal-March 1995. (Less computer diskette)

Note: For the Administrative Record, this document contains preliminary information or data currently relied upon by EPA. At a later date this document may be replaced by an updated version.

2. 4. 1. . Vol. 1 - 1029849 DOC ID: 41460
DATE: 7/31/1995 PAGES: 1

AUTHOR(S): Kris Downs/Hydrometrics, Inc. ADDRESSEE(S): Kim Jones/Hydrometrics, Inc.

DESCRIPTION:

Revision to the March 1995 Post-Remedial Investigation database for specific dissolved manganese samples.

2. 4. 1. . Vol. 1 - 1047175 DOC ID: 66125
DATE: 8/28/1995 PAGES: 6

AUTHOR(S): Thomas L. Aldrich/Asarco, Inc. ADDRESSEE(S): Piper L. Peterson-Lee/EPA

DESCRIPTION:

July 1995 monthly summary report for the three outfalls.

2. 4. 1. . Vol. 1 - 1047176 DOC ID: 66126
DATE: 9/22/1995 PAGES: 6

AUTHOR(S): Thomas L. Aldrich/Asarco, Inc. ADDRESSEE(S): Piper L. Peterson-Lee/EPA

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

DESCRIPTION:

August 1995 monthly summary report for the three outfalls.

2. 4. 1. . Vol. 1 - 1044182 DOC ID: 66134
DATE: 9/29/1995 PAGES: 11
AUTHOR(S):
Fred Fleming/Environmental Services Assistance Team
(ESAT)

ADDRESSEE(S):
Matthew Gubitosa/EPA

Gerald Muth/EPA

DESCRIPTION:

Report on the evaluation, formatting and storage of groundwater data.

2. 4. 1. . Vol. 1 - 1029833 DOC ID: 41061
DATE: 10/26/1995 PAGES: 6
AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:

September 1995 monthly summary report for the three outfalls.

2. 4. 1. . Vol. 1 - 1047177 DOC ID: 66127
DATE: 11/22/1995 PAGES: 6
AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:

October 1995 monthly summary report for the three outfalls.

2. 4. 1. . Vol. 1 - 1047574 DOC ID: 66128
DATE: 12/27/1995 PAGES: 6
AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:

November 1995 monthly summary report for the three outfalls.

2. 4. 1. . Vol. 1 - 1047600 DOC ID: 66135
DATE: 1/26/1996 PAGES: 28
AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:

Unvalidated data for the September 1995 Post-Remedial Investigation Monitoring Event.
(Less computer diskette)

Note: For the Administrative Record, this document contains preliminary information or data currently relied upon by EPA. At a later date this document may be replaced by an updated version.

2. 4. 1. . Vol. 1 - 1047178 DOC ID: 66129
DATE: 1/30/1996 PAGES: 7
AUTHOR(S):

ADDRESSEE(S):

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

Thomas L. Aldrich/Asarco, Inc.

Piper L. Peterson-Lee/EPA

DESCRIPTION:

December 1995 monthly summary report for the three outfalls.

2. 4. 1. . Vol. 1 - 1029834 DOC ID: 41062
DATE: 2/26/1996 PAGES: 6

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:

January 1996 monthly summary report for the three outfalls.

2. 4. 1. . Vol. 1 - 1044187 DOC ID: 66136
DATE: 3/21/1996 PAGES: 1

AUTHOR(S):
Tami Thomas/CH2M Hill, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:

Discusses custody of split-samples collected during the long-term monitoring and source area verification oversight.

2. 4. 1. . Vol. 1 - 1029835 DOC ID: 41063
DATE: 3/25/1996 PAGES: 5

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:

February 1996 monthly summary report for the three outfalls.

2. 4. 1. . Vol. 1 - 1047179 DOC ID: 66130
DATE: 4/30/1996 PAGES: 5

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:

March 1996 monthly summary report for the three outfalls.

2. 4. 1. . Vol. 1 - 1047180 DOC ID: 66131
DATE: 5/31/1996 PAGES: 5

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:

April 1996 monthly summary report for the three outfalls.

2. 4. 1. . Vol. 1 - 1047181 DOC ID: 66137
DATE: 6/12/1996 PAGES: 5

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

DESCRIPTION:

September 1996 monthly summary report for the three outfalls.

2. 4. 1. . Vol. 1 - 1047188 DOC ID: 67668
DATE: 11/23/1996 PAGES: 5
AUTHOR(S): Thomas L. Aldrich/Asarco, Inc. ADDRESSEE(S): Piper L. Peterson-Lee/EPA

DESCRIPTION:

October 1996 monthly summary report for the three outfalls.

2. 4. 1. . Vol. 1 - 1047189 DOC ID: 67669
DATE: 11/27/1996 PAGES: 2
AUTHOR(S): Thomas L. Aldrich/Asarco, Inc. ADDRESSEE(S): Piper L. Peterson-Lee/EPA

DESCRIPTION:

Corrected page for the north outfall from the October 1996 report.

2. 4. 1. . Vol. 1 - 1047190 DOC ID: 67670
DATE: 12/26/1996 PAGES: 5
AUTHOR(S): Thomas L. Aldrich/Asarco, Inc. ADDRESSEE(S): Piper L. Peterson-Lee/EPA

DESCRIPTION:

November 1996 monthly summary report for the three outfalls.

SUB-HEAD: 2. 4. 1. . Vol. 2 - Results/Chain of Custody//Validation

2. 4. 1. . Vol. 2 - 1047191 DOC ID: 71544
DATE: 1/15/1997 PAGES: 2
AUTHOR(S): Thomas L. Aldrich/Asarco, Inc. ADDRESSEE(S): Piper L. Peterson-Lee/EPA

DESCRIPTION:

Corrected page for the PH report for the November 1996 report.

2. 4. 1. . Vol. 2 - 1047192 DOC ID: 71545
DATE: 1/27/1997 PAGES: 5
AUTHOR(S): Thomas L. Aldrich/Asarco, Inc. ADDRESSEE(S): Piper L. Peterson-Lee/EPA

DESCRIPTION:

December 1996 monthly summary report for the three outfalls.

2. 4. 1. . Vol. 2 - 1047607 DOC ID: 69221
DATE: 1/30/1997 PAGES: 592
AUTHOR(S): Thomas L. Aldrich/Asarco, Inc. ADDRESSEE(S): Piper L. Peterson-Lee/EPA

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

DESCRIPTION:

Unvalidated data for the Fall 1996 Post-Remedial Investigation sampling event. (Less computer diskette)

Note: For the Administrative Record, this document contains preliminary information or data currently relied upon by EPA. At a later date this document may be replaced by an updated version.

2. 4. 1. . Vol. 2 - 1047194 DOC ID: 71546
DATE: 3/26/1997 PAGES: 5

AUTHOR(S): Thomas L. Aldrich/Asarco, Inc. ADDRESSEE(S): Piper L. Peterson-Lee/EPA

DESCRIPTION:

February 1997 monthly summary report for the three outfalls.

2. 4. 1. . Vol. 2 - 1047195 DOC ID: 71547
DATE: 4/30/1997 PAGES: 5

AUTHOR(S): Thomas L. Aldrich/Asarco, Inc. ADDRESSEE(S): Piper L. Peterson-Lee/EPA

DESCRIPTION:

March 1997 monthly summary report for the three outfalls.

2. 4. 1. . Vol. 2 - 1047196 DOC ID: 71548
DATE: 5/30/1997 PAGES: 5

AUTHOR(S): Thomas L. Aldrich/Asarco, Inc. ADDRESSEE(S): Piper L. Peterson-Lee/EPA

DESCRIPTION:

April 1997 monthly summary report for the three outfalls.

2. 4. 1. . Vol. 2 - 1047197 DOC ID: 71549
DATE: 6/12/1997 PAGES: 2

AUTHOR(S): Thomas L. Aldrich/Asarco, Inc. ADDRESSEE(S): Piper L. Peterson-Lee/EPA

DESCRIPTION:

Corrected page for the south outfall for the April 1997 report.

2. 4. 1. . Vol. 2 - 1047198 DOC ID: 97780
DATE: 6/30/1997 PAGES: 5

AUTHOR(S): Thomas L. Aldrich/Asarco, Inc. ADDRESSEE(S): Piper L. Peterson-Lee/EPA

DESCRIPTION:

May 1997 monthly summary report for the three outfalls.

2. 4. 1. . Vol. 2 - 1047199 DOC ID: 97787
DATE: 7/3/1997 PAGES: 13

AUTHOR(S): Thomas L. Aldrich/Asarco, Inc. ADDRESSEE(S): Piper L. Peterson-Lee/EPA

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

DESCRIPTION:

Revised monthly outfall reports for June 1996 through March 1997.

2. 4. 1. . Vol. 2 - 1047200 DOC ID: 97790
DATE: 7/29/1997 PAGES: 5

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:

June 1997 monthly summary report for the three outfalls.

2. 4. 1. . Vol. 2 - 1062979 DOC ID: 96820
DATE: 7/30/1997 PAGES: 38

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:

Unvalidated data for the spring 1997 Post-Remedial Investigation sampling event. (Less computer diskette)

Note: For the Administrative Record, this document contains preliminary information or data currently relied upon by EPA. At a later date this document may be replaced by an updated version.

2. 4. 1. . Vol. 2 - 1047201 DOC ID: 97791
DATE: 8/28/1997 PAGES: 5

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:

July 1997 monthly summary report for the three outfalls.

2. 4. 1. . Vol. 2 - 1105266 DOC ID: 128340
DATE: 1/27/1999 PAGES: 35

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Lee Marshall/EPA

DESCRIPTION:

Letter transmits unvalidated data from the fall 1998 Post-Remedial Investigation sampling event.

Note: For the Administrative Record, this document contains preliminary information or data currently relied upon by EPA. At a later date this document may be replaced by an updated version.

2. 4. 1. . Vol. 2 - 1105267 DOC ID: 128347
DATE: 8/19/1999 PAGES: 65

AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Lee Marshall/EPA

DESCRIPTION:

Letter transmits unvalidated data from the spring 1999 Remedial Action Groundwater Monitoring Program sampling event.

Note: For the Administrative Record, this document contains preliminary information or data currently relied upon by EPA. At a later date this document may be replaced by an updated version.

SUB-HEAD: 2. 4. 2. . Vol. 1 - Field Oversight Reports

2. 4. 2. . Vol. 1 - 1029353 DOC ID: 41763
DATE: 10/11/1994 PAGES: 8

AUTHOR(S):
David P. Corbett/CH2M Hill, Inc.

ADDRESSEE(S):
Piper L. Peterson/EPA

DESCRIPTION:
Oversight report for the groundwater monitoring event conducted September 15 through September 22, 1994.

2. 4. 2. . Vol. 1 - 1029748 DOC ID: 40921
DATE: 11/28/1994 PAGES: 37

AUTHOR(S):
Donald Matheny/EPA

ADDRESSEE(S):
Piper L. Peterson/EPA

DESCRIPTION:
Environmental Service Assistance Team quality assurance review for the Post-Remedial Investigation Long-Term Groundwater Monitoring samples.

2. 4. 2. . Vol. 1 - 1029837 DOC ID: 41065
DATE: 3/27/1996 PAGES: 4

AUTHOR(S):
Tami Thomas/CH2M Hill, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION:
Results of source area verification and groundwater long-term monitoring for the week ending March 22, 1996.

2. 4. 2. . Vol. 1 - 1029838 DOC ID: 41066
DATE: 4/1/1996 PAGES: 3

AUTHOR(S):
Tami Thomas/CH2M Hill, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

Kevan Sharp/CH2M Hill, Inc.

DESCRIPTION:
Results of source area verification and groundwater long-term monitoring for the week ending March 29, 1996.

2. 4. 2. . Vol. 1 - 1029827 DOC ID: 41055
DATE: 4/8/1996 PAGES: 1

AUTHOR(S):
Tami Thomas/CH2M Hill, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

Kevan Sharp/CH2M Hill, Inc.

DESCRIPTION:
Results of source area verification and groundwater long-term monitoring for the week ending April 5, 1996.

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

2. 4. 2. . Vol. 1 - 1044164 DOC ID: 66146
DATE: 4/26/1996 PAGES: 2

AUTHOR(S):
Tami Thomas/CH2M Hill, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

Kevan Sharp/CH2M Hill, Inc.

DESCRIPTION: Results of source area verification and groundwater long-term monitoring for the week ending April 19, 1996.

2. 4. 2. . Vol. 1 - 1044165 DOC ID: 66147
DATE: 5/8/1996 PAGES: 1

AUTHOR(S):
Waymon Gay/CH2M Hill, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

Kevan Sharp/CH2M Hill, Inc.

DESCRIPTION: Results of source area verification for the week ending May 3, 1996.

2. 4. 2. . Vol. 1 - 1044192 DOC ID: 66148
DATE: 5/14/1996 PAGES: 2

AUTHOR(S):
Waymon Gay/CH2M Hill, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

Kevan Sharp/CH2M Hill, Inc.

DESCRIPTION: Results of source area verification for the week ending May 10, 1996.

2. 4. 2. . Vol. 1 - 1044610 DOC ID: 67537
DATE: 9/16/1996 PAGES: 2

AUTHOR(S):
Douglas B. Holsten/CH2M Hill, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION: Results of the review of the preliminary March/April 1996 data submittal for the long-term monitoring program.

2. 4. 2. . Vol. 1 - 1044612 DOC ID: 67538
DATE: 9/23/1996 PAGES: 1

AUTHOR(S):
Tami Thomas/CH2M Hill, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

Kevan Sharp/CH2M Hill, Inc.

DESCRIPTION: Results of source area verification and groundwater long-term monitoring for weeks ending September 20, 1996.

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

2. 4. 2. . . Vol. 1 - 1048424 DOC ID: 71550
DATE: 1/17/1997 PAGES: 2

AUTHOR(S):
Tami Thomas/CH2M Hill, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

Kevan Sharp/CH2M Hill, Inc.

DESCRIPTION: Results of source area verification and groundwater long-term monitoring for week ending
January 25, 1996.

SUB-HEAD: 2. 7. . . Vol. 1 - Remedial Investigation/Feasibility Study Reports

SUB-HEAD: 2. 7. 9. . Vol. 1 - Refinement of Options

2. 7. 9. . . Vol. 1 - 1115955 DOC ID: 139520
DATE: 1/1/2000 PAGES: 176

AUTHOR(S):
Parametrix, Inc.

ADDRESSEE(S):
Asarco, Inc.

DESCRIPTION: Refinement of the Proposed Remedy; includes EPA comments and Asarco's errata sheet.

SUB-HEAD: 2. 8. . . Vol. 1 - Other Technical Reports

SUB-HEAD: 2. 8. 1. . Vol. 1 - Groundwater, Summary, and Interpretation Reports

2. 8. 1. . . Vol. 1 - 1029846 DOC ID: 41075
DATE: 4/1/1995 PAGES: 315

AUTHOR(S):
Hydrometrics, Inc.

ADDRESSEE(S):
Asarco, Inc.

DESCRIPTION: Volume I, Long-Term June and September 1994 Groundwater Monitoring Results.

SUB-HEAD: 2. 8. 1. . Vol. 2 - Groundwater, Summary, and Interpretation Reports

2. 8. 1. . . Vol. 2 - 1029847 DOC ID: 41076
DATE: 4/1/1995 PAGES: 311

AUTHOR(S):
Hydrometrics, Inc.

ADDRESSEE(S):
Asarco, Inc.

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

DESCRIPTION: Volume II, Long-Term June and September 1994 Groundwater Monitoring Results.

SUB-HEAD: 2. 8. 1. . Vol. 3 - Groundwater, Summary, and Interpretation Reports

2. 8. 1. . Vol. 3 - 1029848 DOC ID: 41077
DATE: 4/1/1995 PAGES: 444
AUTHOR(S): Hydrometrics, Inc. ADDRESSEE(S): Asarco, Inc.

DESCRIPTION: Volume III, Long-Term June and September 1994 Groundwater Monitoring Results.

SUB-HEAD: 2. 8. 1. . Vol. 4 - Groundwater, Summary, and Interpretation Reports

2. 8. 1. . Vol. 4 - 1029954 DOC ID: 41795
DATE: 9/1/1995 PAGES: 817
AUTHOR(S): Hydrometrics, Inc. ADDRESSEE(S): Asarco, Inc.

DESCRIPTION: March 1995 Data Report; Post-Remedial Investigation, Long-Term Monitoring Program.

SUB-HEAD: 2. 8. 1. . Vol. 5 - Groundwater, Summary, and Interpretation Reports

2. 8. 1. . Vol. 5 - 1029818 DOC ID: 41791
DATE: 3/29/1996 PAGES: 122
AUTHOR(S): Hydrometrics, Inc. ADDRESSEE(S): Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION: Draft Summary and Interpretation of 1994 and 1995 Post-Remedial Investigation, Long-Term Monitoring Results.

Note: For the Administrative Record, this document contains preliminary information or data currently relied upon by EPA. At a later date this document may be replaced by an updated version.

SUB-HEAD: 2. 8. 1. . Vol. 6 - Groundwater, Summary, and Interpretation Reports

2. 8. 1. . Vol. 6 - 1029819 DOC ID: 41793
DATE: 3/1/1996 PAGES: 432
AUTHOR(S): Hydrometrics, Inc. ADDRESSEE(S): Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION: September 1995 Data Report; Post-Remedial Investigation, Long-Term Monitoring Program.

SUB-HEAD: 2. 8. 1. . Vol. 7 - Groundwater, Summary, and Interpretation Reports

2. 8. 1. . Vol. 7 - 1044169 DOC ID: 66150
DATE: 3/5/1997 PAGES: 560
AUTHOR(S): ADDRESSEE(S):

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

Hydrometrics, Inc.

Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION:

Draft Revision 1; Summary and Interpretation of 1994 and 1995 Post-Remedial Investigation, Long-Term Monitoring Results.

Note: For the Administrative Record, this document contains preliminary information or data currently relied upon by EPA. At a later date this document may be replaced by an updated version.

SUB-HEAD: 2. 8. 1. . Vol. 8 - Groundwater, Summary, and Interpretation Reports

2. 8. 1. . Vol. 8 - 1044800 DOC ID: 67663
DATE: 9/24/1996 PAGES: 566

AUTHOR(S): Hydrometrics, Inc. ADDRESSEE(S): Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION:

March 1996 Data Report; Post Remedial Investigation, Long-Term Monitoring Program.

SUB-HEAD: 2. 8. 1. . Vol. 9 - Groundwater, Summary, and Interpretation Reports

2. 8. 1. . Vol. 9 - 1048252 DOC ID: 69962
DATE: 3/5/1997 PAGES: 714

AUTHOR(S): Hydrometrics, Inc. ADDRESSEE(S): Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION:

September 1996 Data Report; Post Remedial Investigation, Long-Term Monitoring Program.

2. 8. 1. . Vol. 9 - 1048251 DOC ID: 69957
DATE: 3/31/1997 PAGES: 3

AUTHOR(S): Hydrometrics, Inc. ADDRESSEE(S): EPA

DESCRIPTION:

Attachment 1; Asarco's responses to the unvalidated data submittal, fall 1996 sampling event.

2. 8. 1. . Vol. 9 - 1063000 DOC ID: 96834
DATE: 6/20/1997 PAGES: 6

AUTHOR(S): Hydrometrics, Inc. ADDRESSEE(S): Unknown

DESCRIPTION:

Response to EPA's comments on the September 1996 Data Report, and Summary and Interpretation of 1994, 1995, and 1996 Post Remedial Investigation Long-Term Monitoring Results.

SUB-HEAD: 2. 8. 1. . Vol. 10 - Groundwater, Summary, and Interpretation Reports

2. 8. 1. . Vol. 10 - 1048265 DOC ID: 70148
DATE: 3/27/1997 PAGES: 738

AUTHOR(S): ADDRESSEE(S):

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

Hydrometrics, Inc.

Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION:

Draft Summary and Interpretation of 1994, 1995, and 1996 Post-Remedial Investigation, Long-Term Monitoring Results.

Note: For the Administrative Record, this document contains preliminary information or data currently relied upon by EPA. At a later date this document may be replaced by an updated version.

SUB-HEAD: 2. 8. 1. . Vol. 11 - Groundwater, Summary, and Interpretation Reports

2. 8. 1. . Vol. 11 - 1047319 DOC ID: 98873
DATE: 9/1/1997 PAGES: 722

AUTHOR(S):
Hydrometrics, Inc.

ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION:

March 1997 Data Report; Post-Remedial Investigation Long-Term Monitoring Program.

SUB-HEAD: 2. 8. 1. . Vol. 12 - Groundwater, Summary, and Interpretation Reports

2. 8. 1. . Vol. 12 - 1047316 DOC ID: 98876
DATE: 3/1/1998 PAGES: 804

AUTHOR(S):
Hydrometrics, Inc.

ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION:

September 1997 Data Report; Post-Remedial Investigation Long-Term Monitoring Program.

SUB-HEAD: 2. 8. 1. . Vol. 13 - Groundwater, Summary, and Interpretation Reports

2. 8. 1. . Vol. 13 - 1101414 DOC ID: 121316
DATE: 9/1/1998 PAGES: 693

AUTHOR(S):
Hydrometrics, Inc.

ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION:

March 1998 Data Report; Post-Remedial Investigation Long-Term Monitoring Program.

SUB-HEAD: 2. 8. 1. . Vol. 14 - Groundwater, Summary, and Interpretation Reports

2. 8. 1. . Vol. 14 - 1101417 DOC ID: 121317
DATE: 3/1/1999 PAGES: 679

AUTHOR(S):
Hydrometrics, Inc.

ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION:

September 1998 Data Report; Post-Remedial Investigation Long-Term Monitoring Program.

SUB-HEAD: 2. 8. 1. . Vol. 15 - Groundwater, Summary, and Interpretation Reports

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

2. 8. 1. . Vol. 15 - 1105233 DOC ID: 128211
DATE: 9/1/1999 PAGES: 646

AUTHOR(S):
Hydrometrics, Inc.

ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION: March 1999 Data Report; Long-Term Remedial Action Monitoring Plan.

Note: Data diskette, Doc ID 137721, is associated with this report.

SUB-HEAD: 2. 8. 1. . Vol. 16 - Groundwater, Summary, and Interpretation Reports

2. 8. 1. . Vol. 16 - 1105296 DOC ID: 128722
DATE: 12/1/1999 PAGES: 45

AUTHOR(S):
Hydrometrics, Inc.

ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION: Draft Historical Summary of the Evaluation of Groundwater Remedial Alternatives.

Note: For the Administrative Record, this document contains preliminary information or data currently relied upon by EPA. At a later date this document may be replaced by an updated version.

2. 8. 1. . Vol. 16 - 1115949 DOC ID: 139487
DATE: 3/1/2000 PAGES: 433

AUTHOR(S):
Hydrometrics, Inc.

ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION: September 1999 Data and Annual Report, Long-Term Remedial Action Monitoring Plan.

2. 8. 1. . Vol. 16 - 1124440 DOC ID: 148943
DATE: 5/1/2000 PAGES: 231

AUTHOR(S):
Hydrometrics, Inc.

ADDRESSEE(S):
Thomas E. Martin/Asarco, Inc.

DESCRIPTION: Revised Final Summary of Groundwater Evaluations Conducted in Accordance with the March 1999 Supplemental Work Plan for Geotechnical and Groundwater Evaluations.

2. 8. 1. . Vol. 16 - 1115974 DOC ID: 139557
DATE: 6/6/2000 PAGES: 118

AUTHOR(S):
Thomas E. Martin/Asarco, Inc.

ADDRESSEE(S):
Lee Marshall/EPA

DESCRIPTION: Revised Historical Summary of the Evaluation of Groundwater Remedial Alternatives.

SUB-HEAD: 2. 8. 2. . Vol. 1 - Action-Specific Monitoring Reports

2. 8. 2. . Vol. 1 - 1105952 DOC ID: 67662
DATE: 9/26/1996 PAGES: 68

AUTHOR(S):
Hydrometrics, Inc.

ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

DESCRIPTION: July 1996 Data Report; Production Well Abandonment, Action-Specific Monitoring Results.

2. 8. 2. . Vol. 1 - 1105953 DOC ID: 71551
DATE: 1/17/1997 PAGES: 71

AUTHOR(S): Hydrometrics, Inc. ADDRESSEE(S): Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION: September 1996 Data Report; Production Well Abandonment, Action-Specific Monitoring Results.

2. 8. 2. . Vol. 1 - 1105954 DOC ID: 71552
DATE: 2/10/1997 PAGES: 75

AUTHOR(S): Hydrometrics, Inc. ADDRESSEE(S): Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION: December 1996 Data Report; Production Well Abandonment, Action-Specific Monitoring Results.

2. 8. 2. . Vol. 1 - 1062997 DOC ID: 96130
DATE: 6/3/1998 PAGES: 316

AUTHOR(S): Hydrometrics, Inc. ADDRESSEE(S): Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION: Summary and Interpretation of Production Well Abandonment Action-Specific Monitoring Results.

SUB-HEAD: 2. 8. 6. . Vol. 1 - Marine Copper Study

2. 8. 6. . Vol. 1 - 1115952 DOC ID: 139497
DATE: 6/1/1999 PAGES: 53

AUTHOR(S): Parametrix, Inc. ADDRESSEE(S): Asarco, Inc.

DESCRIPTION: Technical Memorandum: Copper In Nearshore Marine Water.

2. 8. 6. . Vol. 1 - 1105439 DOC ID: 129044
DATE: 8/3/1999 PAGES: 4

AUTHOR(S): Lee Marshall/EPA ADDRESSEE(S): Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION: Letter transmits comments regarding sampling for the copper in the nearshore marine water project.

2. 8. 6. . Vol. 1 - 1115954 DOC ID: 139513
DATE: 6/1/2000 PAGES: 45

AUTHOR(S): ADDRESSEE(S):

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

Parametrix, Inc.

Asarco, Inc.

DESCRIPTION: Technical Memorandum: Copper In Nearshore Marine Water.

SUB-HEAD: 2. 9. . . Vol. 1 - Proposed Plan/Comments

2. 9. . . Vol. 1 - 1105607 DOC ID: 129812
DATE: 1/21/2000 PAGES: 39
AUTHOR(S): EPA ADDRESSEE(S):
Unknown

DESCRIPTION: Proposed Plan for the Sediments/Groundwater Operable Unit.

2. 9. . . Vol. 1 - 1124410 DOC ID: 148849
DATE: 2/4/2000 PAGES: 1
AUTHOR(S): Amy Kurtenbach/Washington State Dept. of Natural Resources ADDRESSEE(S):
Lee Marshall/EPA

DESCRIPTION: Letter comments on the Proposed Plan for the Sediments/Groundwater Operable Unit.

2. 9. . . Vol. 1 - 1124411 DOC ID: 148850
DATE: 2/4/2000 PAGES: 2
AUTHOR(S): Dave Gaughnour/Unknown ADDRESSEE(S):
Lee Marshall/EPA

DESCRIPTION: Letter comments on the Proposed Plan for the Sediments/Groundwater Operable Unit.

2. 9. . . Vol. 1 - 1124412 DOC ID: 148852
DATE: 2/17/2000 PAGES: 1
AUTHOR(S): Valerie Anderson/Unknown ADDRESSEE(S):
Lee Marshall/EPA

DESCRIPTION: Letter comments on the Proposed Plan for the Sediments/Groundwater Operable Unit.

2. 9. . . Vol. 1 - 1124413 DOC ID: 148853
DATE: 2/24/2000 PAGES: 2
AUTHOR(S): Joseph A. Lucas/Tacoma Yacht Club, Inc. ADDRESSEE(S):
EPA

DESCRIPTION: Handwritten note comments on the Proposed Plan for the Sediments/Groundwater Operable Unit.

2. 9. . . Vol. 1 - 1124414 DOC ID: 148855
DATE: 3/9/2000 PAGES: 1
AUTHOR(S): ADDRESSEE(S):

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

Wayne C. Taylor/Metalchemy, Inc.

Lee Marshall/EPA

DESCRIPTION: Letter comments on the Proposed Plan for the Sediments/Groundwater Operable Unit.

2. 9. . . . Vol. 1 - 1124415 DOC ID: 148857
DATE: 3/27/2000 PAGES: 16
AUTHOR(S): ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc. Lee Marshall/EPA

DESCRIPTION: Letter comments on the Proposed Plan for the Sediments/Groundwater Operable Unit.

2. 9. . . . Vol. 1 - 1124416 DOC ID: 148859
DATE: 3/27/2000 PAGES: 3
AUTHOR(S): ADDRESSEE(S):
Leslie Ann Rose/Citizens for a Healthy Bay Lee Marshall/EPA

DESCRIPTION: Letter comments on the Proposed Plan for the Sediments/Groundwater Operable Unit.

2. 9. . . . Vol. 1 - 1124417 DOC ID: 148860
DATE: 3/27/2000 PAGES: 7
AUTHOR(S): ADDRESSEE(S):
Charley W. Turley/Washington State Dept. of Natural Resources Lee Marshall/EPA

DESCRIPTION: Letter comments on the Proposed Plan for the Sediments/Groundwater Operable Unit.

2. 9. . . . Vol. 1 - 1124418 DOC ID: 148861
DATE: 3/27/2000 PAGES: 8
AUTHOR(S): ADDRESSEE(S):
Helen Hillman/NOAA Lee Marshall/EPA

DESCRIPTION: Letter comments on the Proposed Plan for the Sediments/Groundwater Operable Unit.

HEADING: 3. 0. . . RECORD OF DECISION

SUB-HEAD: 3. 1. . . Vol. 1 - Correspondence

3. 1. . . Vol. 1 - 1116002 DOC ID: 139582
DATE: 7/14/2000 PAGES: 2
AUTHOR(S): Michelle Pirzadeh/EPA ADDRESSEE(S): Charles E. Findley/EPA

DESCRIPTION: Memo transmits the Record of Decision for the Groundwater/Sediments Operable Unit OU6.
(Less enclosure)

SUB-HEAD: 3. 2. . . Vol. 1 - Record of Decision

3. 2. . . Vol. 1 - 1115592 DOC ID: 137751
DATE: 7/14/2000 PAGES: 274
AUTHOR(S): EPA ADDRESSEE(S): Unknown

DESCRIPTION: Record of Decision for the Sediments/Groundwater Operable Unit 06.

HEADING: 8. 0. . . STATE COORDINATION

SUB-HEAD: 8. 1. . . Vol. 1 - Correspondence

8. 1. . . Vol. 1 - 1105259 DOC ID: 128314
DATE: 1/31/1994 PAGES: 3
AUTHOR(S): Bruce A. Cochran/Washington State Dept. of Ecology
ADDRESSEE(S): Piper L. Peterson/EPA

DESCRIPTION: Letter discusses the shoreline monitoring station as a point of compliance for groundwater.

8. 1. . . Vol. 1 - 1029844 DOC ID: 41072
DATE: 11/30/1995 PAGES: 9
AUTHOR(S): Bruce A. Cochran/Washington State Dept. of Ecology
ADDRESSEE(S): Piper L. Peterson-Lee/EPA

DESCRIPTION: Letter discusses reinjection of water generated at the smelter site.

8. 1. . . Vol. 1 - 1047840 DOC ID: 104592
DATE: 4/15/1998 PAGES: 4
AUTHOR(S): Bruce A. Cochran/Washington State Dept. of Ecology
ADDRESSEE(S): Lee Marshall/EPA
Kevin L. Rochlin/EPA

DESCRIPTION: Letter discusses groundwater capture and treatment.

8. 1. . . Vol. 1 - 1124422 DOC ID: 148874
DATE: 4/12/1999 PAGES: 2
AUTHOR(S): Bruce A. Cochran/Washington State Dept. of Ecology
ADDRESSEE(S): Lee Marshall/EPA

DESCRIPTION: Letter comments on the March 1999 Supplemental Work Plan for Geotechnical and Groundwater Evaluations.

8. 1. . . Vol. 1 - 1124407 DOC ID: 130522
DATE: 11/15/1999 PAGES: 3
AUTHOR(S): Bruce A. Cochran/Washington State Dept. of Ecology
ADDRESSEE(S): Lee Marshall/EPA
Kevin L. Rochlin/EPA

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

DESCRIPTION:

Letter reiterates author's thinking on groundwater criteria and remediation.

8. 1. . . . Vol. 1 - 1124419 DOC ID: 148864
DATE: 1/20/2000 PAGES: 11

AUTHOR(S):
Bruce A. Cochran/Washington State Dept. of Ecology

ADDRESSEE(S):
Lee Marshall/EPA

DESCRIPTION:

Letter comments on the Draft Final Proposed Plan for the Sediments/Groundwater Operable Unit.

8. 1. . . . Vol. 1 - 1124423 DOC ID: 148875
DATE: 2/7/2000 PAGES: 3

AUTHOR(S):
Bruce A. Cochran/Washington State Dept. of Ecology

ADDRESSEE(S):
Lee Marshall/EPA

DESCRIPTION:

Letter comments on the Draft Summary of Groundwater Evaluations Conducted in Accordance with the March 1999 Supplemental Work Plan for Geotechnical and Groundwater Evaluations.

8. 1. . . . Vol. 1 - 1124420 DOC ID: 148868
DATE: 2/9/2000 PAGES: 3

AUTHOR(S):
Bruce A. Cochran/Washington State Dept. of Ecology

ADDRESSEE(S):
Lee Marshall/EPA

DESCRIPTION:

Letter comments on the review of Asarco's "Analysis of Cost and Benefits of Groundwater Controls in Addition to the Upland Remedy."

HEADING: 9. 0. . . COORDINATION WITH OTHER AGENCIES

SUB-HEAD: 9. 1. . . Vol. 1 - Sediments/Groundwater Task Force

9. 1. . . Vol. 1 - 1048352 DOC ID: 68687
DATE: 1/13/1997 PAGES: 1
AUTHOR(S): Dave Nation/Hydrometrics, Inc. ADDRESSEE(S): Piper L. Peterson-Lee/EPA

DESCRIPTION: Reschedules meeting of the sediments/groundwater design group.

9. 1. . . Vol. 1 - 1062988 DOC ID: 96853
DATE: 4/25/1997 PAGES: 1
AUTHOR(S): EPA ADDRESSEE(S): Asarco Sediments/Ground Water Task Force

DESCRIPTION: Agenda for the Sediments/Groundwater Task Force meeting.

9. 1. . . Vol. 1 - 1062989 DOC ID: 96854
DATE: 5/20/1997 PAGES: 1
AUTHOR(S): Dave Nation/Hydrometrics, Inc. ADDRESSEE(S): Piper L. Peterson-Lee/EPA

DESCRIPTION: Reschedules the Sediments/Groundwater Task Force meeting.

Note: There are 15 addressees to this memorandum.

9. 1. . . Vol. 1 - 1062990 DOC ID: 96855
DATE: 6/27/1997 PAGES: 1
AUTHOR(S): Unknown ADDRESSEE(S): Asarco Sediments/Ground Water Task Force

DESCRIPTION: Agenda for the Sediments/Groundwater Task Force meeting.

9. 1. . . Vol. 1 - 1062991 DOC ID: 96856
DATE: 7/8/1997 PAGES: 1
AUTHOR(S): Piper L. Peterson-Lee/EPA ADDRESSEE(S): Asarco Sediments/Ground Water Task Force

DESCRIPTION: Transmits Section 8 of Asarco's draft Phase 2 Refinement of Options Report dated December 8, 1997 titled "Evaluation of Remedial Alternatives." (Less enclosure)

9. 1. . . Vol. 1 - 1062992 DOC ID: 96858
DATE: 7/18/1997 PAGES: 1
AUTHOR(S): ADDRESSEE(S):

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

Unknown

Asarco Sediments/Ground Water Task Force

DESCRIPTION:

Handwritten agenda for the Sediments/Groundwater Task Force Meeting.

9. 1. . . . Vol. 1 - 1101717 DOC ID: 124380
DATE: 10/1/1998 PAGES: 26

AUTHOR(S):
Parametrix, Inc.

ADDRESSEE(S):
Asarco Sediments/Ground Water Task Force

Roy F. Weston, Inc.

DESCRIPTION:

Objective #3, Draft Technical Memorandum, Asarco Sediments/Groundwater Task Force.

Note: For the Administrative Record, this document contains preliminary information or data currently relied upon by EPA. At a later date this document may be replaced by an updated version.

9. 1. . . . Vol. 1 - 1072504 DOC ID: 108263
DATE: 11/4/1998 PAGES: 56

AUTHOR(S):
CH2M Hill, Inc.

ADDRESSEE(S):
Asarco Sediments/Ground Water Task Force

EPA

Hydrometrics, Inc.

DESCRIPTION:

Technical Memorandum: Summary of "Group 1" Findings regarding groundwater discharge.

9. 1. . . . Vol. 1 - 1101718 DOC ID: 124381
DATE: 12/1/1998 PAGES: 239

AUTHOR(S):
Parametrix, Inc.

ADDRESSEE(S):
Asarco Sediments/Ground Water Task Force

Roy F. Weston, Inc.

DESCRIPTION:

Objective #2, Technical Memorandum for the Asarco Sediments/Groundwater Task Force.

9. 1. . . . Vol. 1 - 1101716 DOC ID: 124382
DATE: 1/1/1999 PAGES: 206

AUTHOR(S):
Bruce A. Cochran/Washington State Dept. of Ecology

ADDRESSEE(S):
Asarco Sediments/Ground Water Task Force

Gayle Garman/NOAA

Jim Good/Parametrix, Inc.

Douglas B. Holsten/CH2M Hill, Inc.

Scott Mason/Hydrometrics, Inc.

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

DESCRIPTION:

Objective #4, Technical Memorandum for the Asarco Sediments/Groundwater Task Force.

Note: There are eight authors of this document.

SUB-HEAD: 9. 1. . . Vol. 2 - Sediments/Groundwater Task Force

9. 1. . . Vol. 2 - 1101719 DOC ID: 124383
DATE: 3/1/1999 PAGES: 155

AUTHOR(S): Marian L. Abbett/Washington State Dept. of Ecology
ADDRESSEE(S): EPA

Gayle Garman/NOAA

Douglas B. Holsten/CH2M Hill, Inc.

Scott Mason/Hydrometrics, Inc.

Dave Nation/Hydrometrics, Inc.

DESCRIPTION:

Group 5, Technical Memorandum for the Asarco Sediments/Groundwater Task Force.

9. 1. . . Vol. 2 - 1124421 DOC ID: 148872
DATE: 6/22/1999 PAGES: 2

AUTHOR(S): Lee Marshall/EPA
ADDRESSEE(S): Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION:

Letter thanks addressee for participating in the Sediments/Groundwater Task Force.

HEADING: 12. 0. . . ENFORCEMENT

SUB-HEAD: 12. 1. . . Vol. 1 - Correspondence

12. 1. . . Vol. 1 - 1029354 DOC ID: 41781
DATE: 2/17/1995 PAGES: 2
AUTHOR(S): Thomas L. Aldrich/Asarco, Inc. ADDRESSEE(S):
Piper L. Peterson/EPA

DESCRIPTION: Follow-up to conversation about format for data reports for long-term monitoring.

12. 1. . . Vol. 1 - 1029355 DOC ID: 41752
DATE: 3/21/1995 PAGES: 2
AUTHOR(S): Piper L. Peterson/EPA ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION: Discusses validation of the post-remedial investigation long-term surface water monitoring data; semivolatile organics off-shore sediments.

12. 1. . . Vol. 1 - 1029356 DOC ID: 41787
DATE: 3/22/1995 PAGES: 3
AUTHOR(S): Piper L. Peterson/EPA ADDRESSEE(S):
Thomas L. Aldrich/Asarco, Inc.

DESCRIPTION: Discusses submittal date for the June and September 1994 long-term groundwater monitoring report.

12. 1. . . Vol. 1 - 1044623 DOC ID: 67333
DATE: 12/5/1995 PAGES: 1
AUTHOR(S): Linda R. Larson/Heller Ehrman White & McAullife ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION: Letter confirms financial assurance documents have been prepared for signature and will be sent in the next few days.

12. 1. . . Vol. 1 - 1029897 DOC ID: 41382
DATE: 12/7/1995 PAGES: 4
AUTHOR(S): Kevin R. Morano/Asarco, Inc. ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION: Letter confirms financial assurances for the Administrative Order on Consent for groundwater, surface water, soil and marine sediments monitoring and sampling.

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

12. 1. . . . Vol. 1 - 1101979 DOC ID: 66154
DATE: 6/19/1996 PAGES: 2
AUTHOR(S):
Thomas L. Aldrich/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION: Letter discusses meeting the objectives of the long-term monitoring program.

12. 1. . . . Vol. 1 - 1044194 DOC ID: 66155
DATE: 7/15/1996 PAGES: 1
AUTHOR(S):
Cara Steiner-Riley/EPA

ADDRESSEE(S):
Marcia Newlands/Heller Ehrman White &
McAullife

DESCRIPTION: Letter responds to Asarco's letter of June 19, 1996 regarding meeting the objectives of the long-term monitoring program.

12. 1. . . . Vol. 1 - 1044757 DOC ID: 67602
DATE: 12/2/1996 PAGES: 4
AUTHOR(S):
Michael O. Varner/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION: Letter provides financial assurances for the Tacoma Smelter Administrative Order on Consent for Tacoma sediments and long-term groundwater, monitoring and sampling.

12. 1. . . . Vol. 1 - 1062993 DOC ID: 96860
DATE: 11/26/1997 PAGES: 4
AUTHOR(S):
Augustus Kinsolving/Asarco, Inc.

ADDRESSEE(S):
Piper L. Peterson-Lee/EPA

DESCRIPTION: Financial assurances for Tacoma Smelter Administrative Order on Consent for Tacoma sediments and long-term groundwater monitoring and sampling.

12. 1. . . . Vol. 1 - 1116003 DOC ID: 139584
DATE: 5/31/2000 PAGES: 1
AUTHOR(S):
Thomas E. Martin/Asarco, Inc.

ADDRESSEE(S):
Lee Marshall/EPA

DESCRIPTION: Letter reports a change in marine sediments Project Coordinator.

SUB-HEAD: 12. 6. . . . Vol. 1 - Administrative Orders

12. 6. . . . Vol. 1 - 1013933 DOC ID: 28592
DATE: 9/1/1994 PAGES: 2
AUTHOR(S):
EPA

ADDRESSEE(S):
EPA

(AGWAR) COMMENCEMENT BAY NT - ASARCO GROUNDWATER ADMINISTRATIVE RECORD INDEX

DESCRIPTION:

Appendix III: Criteria For Financial Assurance, Administrative Order on Consent.

Note: Document date is estimated.

12. 6. . . . Vol. 1 - 1013932 DOC ID: 28627
DATE: 9/15/1994 PAGES: 41

AUTHOR(S):
EPA

ADDRESSEE(S):
Asarco, Inc.

DESCRIPTION:

Appendix I to the Administrative Order on Consent for Ground Water, Surface Water, Soil and Marine Sediments Monitoring and Sampling. (Expanded RI/FS Statement of Work)

12. 6. . . . Vol. 1 - 1029088 DOC ID: 30607
DATE: 10/3/1994 PAGES: 43 MICROFILM: ASF112 BEGIN: 197 END: 2

AUTHOR(S):
Carol A. Rushin/EPA

ADDRESSEE(S):
Michael O. Varner/Asarco, Inc.

DESCRIPTION:

Administrative Order on Consent for Ground Water, Surface Water, Soil and Marine Sediments Monitoring and Sampling.

Note: Appendix I, Statement of Work, Sediments, is in Folder 2.8.1, DocID 129488.

HEADING: 16. 0. . . PUBLIC PARTICIPATION

SUB-HEAD: 16. 4. . . Vol. 1 - Fact Sheets/Press Releases

16. 4. . . Vol. 1 - 1029900 DOC ID: 41386
DATE: 2/1/1996 PAGES: 8
AUTHOR(S): ADDRESSSEE(S):
EPA Unknown

DESCRIPTION: Superfund Fact Sheet: Update on hazardous waste cleanup projects, Tacoma, Washington.

16. 4. . . Vol. 1 - 1105578 DOC ID: 129923
DATE: 1/1/2000 PAGES: 6
AUTHOR(S): ADDRESSSEE(S):
EPA Unknown

DESCRIPTION: Superfund Fact Sheet: The EPA is inviting public comment on the Proposed Plan for cleanup of the sediments and groundwater at the former Asarco Smelter Facility.

SUB-HEAD: 16. 5. . . Vol. 1 - Public Meetings/Transcripts

16. 5. . . Vol. 1 - 1115989 DOC ID: 139564
DATE: 2/10/2000 PAGES: 59
AUTHOR(S): ADDRESSSEE(S):
Bonnie C. Jones/Northwest Court Reporters EPA

DESCRIPTION: Transcript of a public meeting regarding the Proposed Plan for the Cleanup of the Asarco Sediments/Groundwater Unit.