ASARCO AR REMEDIAL

ASA218

STATEMENT OF INTENT AND PURPOSE

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ADMINISTRATIVE RECORD

REMEDIAL SITE FILE

REMOVAL SITE FILE

The above records are described on the approved records disposition schedule applicable to EPA.

11/93
Date

Lynn Williams
CERCLA Records Management Coordinator
U.S. Environmental Protection Agency - Region 10
1200 Sixth Avenue
Seattle, WA 98101

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U.S. ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue
Seattle, Washington 98101

ADMINISTRATIVE RECORD INDEX

For

ASARCO INCORPORATED SUPERFUND SITE

Tacoma, Washington

September 30, 1993

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INDEX TO ADMINISTRATIVE RECORD FOR AMERICAN SMELTING & REFINING COMPANY, INC. (ASARCO)

SECTION 1.0 SITE IDENTIFICATION

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
1.1 Correspondence							
AR 1.1 0001	1.1 Correspondence	Uncontrolled hazardous waste site project at ASARCO	12/28/79	1	Roger Fuentes/EPA, Region X	Files/EPA	
AR 1.1 0002	1.1 Correspondence	Preliminary field investigation	2/25/85	1	Gary O'Neal/EPA	Alexandra Smith/EPA, Region X	
AR 1.1 0003	1.1 Correspondence	Hazard evaluation of the Tacoma, Washington, ASARCO Copper Smelter	1/31/74	1	James M. Everts/EPA	James L. Agee/EPA	
1.2 Background - National Pollution Discharge Elimination System (NPDES)							
1.2.1 Correspondence							
AR 1.2.1 0001	1.2.1 Correspondence	Letter/Required improvements to ASARCO waste treatment system	4/30/68	2	Roy Harris/Washington Department of Ecology (WDOE)	ASARCO	
AR 1.2.1 0002	1.2.1 Correspondence	Memorandum/Live box study with Silver Sea perch	8/8/68	1	Mike Palko/WDOE	Waite Dalrymple/WDOE	
AR 1.2.1 0003	1.2.1 Correspondence	Memorandum/Meeting with ASARCO plant engineer	8/22/68	1	Chuck Melville/WDOE	Waite Dalrymple and Files/WDOE	
AR 1.2.1 0004	1.2.1 Correspondence	Memorandum/Small acid waste and seawater mixing pond	11/15/68	1	Chuck Melville/WDOE	Files/WDOE	
AR 1.2.1 0005	1.2.1 Correspondence	Letter/Waste Discharge Permit #T-2827	1/7/69	1	R.E. Shinkoskey/ASARCO	James Behlke/WDOE	
AR 1.2.1 0006	1.2.1 Correspondence	Letter/Description of 3 outfalls serving ASARCO	5/27/69	1	Charles Randt/ASARCO	Chuck Melville/WDOE	
AR 1.2.1 0007	1.2.1 Correspondence	Memorandum/Status of Compliance	7/14/69	1	Chuck Melville/WDOE	Files/WDOE	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 1.2.1 0008	1.2.1 Correspondence	Memorandum/Engineering report	7/15/69	1	Chuck Melville/WDOE	Gene and Files/WDOE	
AR 1.2.1 0009	1.2.1 Correspondence	Letter/Engineering report	8/21/69	3	R.E. Shinkoskey/ASARCO	Chuck Melville/WDOE	
AR 1.2.1 0010	1.2.1 Correspondence	Cover letter/Resubmitted application for waste discharge permit, Exhibit 1, and Exhibit 2	2/20/70	5	R.E. Shinkoskey/ASARCO	James Behlke/WDOE	
AR 1.2.1 0011	1.2.1 Correspondence	Memorandum/Rust colored discharge in Commencement Bay	4/3/70	1	Ron Robinson/WDOE	Check Melville and Don Provost/WDOE	
AR 1.2.1 0012	1.2.1 Correspondence	Memorandum/Followup on rust colored discharge	6/17/70	1	Chuck Melville/WDOE	Ron Robinson/WDOE	
AR 1.2.1 0013	1.2.1 Correspondence	Memorandum/High copper content in Tacoma Yacht Club basin	7/22/70	1	Chuck Melville/WDOE	Ron and Gene/WDOE	
AR 1.2.1 0014	1.2.1 Correspondence	Letter/Request for full report regarding Tacoma Yacht Club basin	7/28/70	1	John Biggs/WDOE	Charles Randt/ASARCO	
AR 1.2.1 0015	1.2.1 Correspondence	Memorandum/Samples collected from acid dispersion pond	8/5/70	1	Chuck Melville/WDOE	Ron Robinson and Files/WDOE	
AR 1.2.1 0016	1.2.1 Correspondence	Letter/Report on Tacoma Yacht Club basin	8/24/70	1	R.E. Shinkoskey/ASARCO	Chuck Melville/WDOE	
AR 1.2.1 0017	1.2.1 Correspondence	Memorandum/Survey of all discharges	9/16/70	1	Chuck Melville/WDOE	Gene Asselstine and Mike Palko/WDOE	
AR 1.2.1 0018	1.2.1 Correspondence	Memorandum/Meeting with ASARCO to discuss their waste discharge problems	10/2/70	1	Chuck Melville/WDOE	Gene, George, Mike P., and Files/WDOE	
AR 1.2.1 0019	1.2.1 Correspondence	Letter/Confirmation of results of 10/2/70 meeting	10/5/70	1	John Biggs/WDOE	R.E. Shinkoskey/ASARCO	
AR 1.2.1 0020	1.2.1 Correspondence	Memorandum/Sampling of acid pond, middle and north outfalls	12/15/70	1	Ron Devitt/WDOE	George Houck and M. Palko/WDOE	
AR 1.2.1 0021	1.2.1 Correspondence	Application for Waste Discharge Permit	4/12/71	7	R.E. Shinkoskey/ASARCO	George Houck/WDOE	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 1.2.1 0022	1.2.1 Correspondence	Memorandum/Confirmation of 7/1/71 meeting	7/8/71	1	George Houck/WDOE	Gene Asselstine and File/WDOE	
AR 1.2.1 0023	1.2.1 Correspondence	Supplement to Application for Waste Discharge Permit	8/18/71	2	A.L. Labbe, Plant Manager/ASARCO	George Houck/WDOE	
AR 1.2.1 0024	1.2.1 Correspondence	Notes/Corps of Engineers Section 13 Permit	10/31/71	1	George Houck/WDOE	Files/WDOE	
AR 1.2.1 0025	1.2.1 Correspondence	Letter/Status of ASARCO's waste water discharges	11/4/71	2	C.H. Randt/ASARCO	George Houck/WDOE	
AR 1.2.1 0026	1.2.1 Correspondence	Memorandum/Heavy metals discharges	11/30/71	2	Ken Mosbaugh/EPA	Michael Price/WDOE	
AR 1.2.1 0027	1.2.1 Correspondence	Notes/ASARCO permit	12/6/71	1	George Houck/WDOE	Ken Mosbaugh/EPA	
AR 1.2.1 0028	1.2.1 Correspondence	Letter/Confirmation of request for additional information	12/21/71	1	George Houck/WDOE	Charles Randt/ASARCO	
AR 1.2.1 0029	1.2.1 Correspondence	Letter/Allowable limits on discharges	12/28/71	2	Lloyd Reed/EPA, Region X	A.L. Labbe/ASARCO	
AR 1.2.1 0030	1.2.1 Correspondence	Letter/EPA Form 7500-1 regarding information on discharge No. 006	2/15/72	3	C.H. Randt/ASARCO	W.E. Eldridge and Lloyd Reed/EPA and George Houck/WDOE	
AR 1.2.1 0031	1.2.1 Correspondence	Letter/Production of effluent water in the 2 to 2-1/2 ppm total metal ion range	5/16/72	2	C.H. Randt/ASARCO	George Houck/WDOE and Dan Robinson/EPA	
AR 1.2.1 0032	1.2.1 Correspondence	Letter/Approval of method for heavy metals analysis	10/26/72	1	C.H. Randt/ASARCO	Michael Price/WDOE	
AR 1.2.1 0033	1.2.1 Correspondence	Letter/Reduction of elimination analyses that show consistently low values	10/24/74	1	C.H. Randt/ASARCO	James Krull/WDOE	
AR 1.2.1 0034	1.2.1 Correspondence	Letter/Approval of initiation of public notice regarding Application No. WA-0064-7	11/20/74	3	Lyman Nielson/EPA L. Edwin Coate/EPA, Region X	Eugene Asselstine/WDOE John Biggs/WDOE	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 1.2.1 0035	1.2.1 Correspondence	Letter/Approval of changes in proposed NPDES permit	1/3/75	2	L. Edwin Coate/EPA	John Biggs/WDOE	
AR 1.2.1 0036	1.2.1 Correspondence	Letter/Discharge monitoring report for 6/1/75	7/15/75	1	Stanley Springer/WDOE	C.H. Randt/ASARCO	
AR 1.2.1 0037	1.2.1 Correspondence	Letter/Report required by 8/30/75 with attached sampling data	9/23/75	4	C.H. Randt/ASARCO	Stanley Springer/WDOE	
AR 1.2.1 0038	1.2.1 Correspondence	Letter/Plan for handling and disposing all solid waste generated	12/10/75	1	C.H. Randt/ASARCO	Stan Springer/WDOE	
AR 1.2.1 0039	1.2.1 Correspondence	Letter/Contradiction between Sections S2 and S3 of permit	12/16/75	1	C.H. Randt/ASARCO	Stanley Springer/WDOE	
AR 1.2.1 0040	1.2.1 Correspondence	Letter/Follow-up to 11/18/75 compliance inspection	2/6/76	3	Stanley Springer/WDOE	C.H. Randt/ASARCO	
AR 1.2.1 0041	1.2.1 Correspondence	Responses to compliance inspection comments with attached sampling data	3/19/76	3	C.H. Randt/ASARCO	Stanley Springer/WDOE	
AR 1.2.1 0042	1.2.1 Correspondence	Letter/Receiving water temperature	4/5/76	1	Stan Springer/WDOE	C.H. Randt/ASARCO	
AR 1.2.1 0043	1.2.1 Correspondence	Letter/Modifications to permit No. WA-0064-7	6/16/76	4	C.H. Randt/ASARCO	Stanley Springer/WDOE	
AR 1.2.1 0044	1.2.1 Correspondence	Letter/Revisions to S10 of permit	6/21/76	2	Stanley Springer/WDOE	Charles Randt/ASARCO	
AR 1.2.1 0045	1.2.1 Correspondence	Letter/Anode ponds inflows and outfalls	7/9/76	2	Dick Jackson/ASARCO	Charles Randt/ASARCO	
AR 1.2.1 0046	1.2.1 Correspondence	Letter/Plans for middle outfall oil and water separator	8/5/76	1	E.W. Asselstine/WDOE	C.H. Randt/ASARCO	
AR 1.2.1 0047	1.2.1 Correspondence	Letter/Modifications to permit	8/9/76	1	Stanley Springer/WDOE	Charles Randt/ASARCO	
AR 1.2.1 0048	1.2.1 Correspondence	Letter/Comments on modifications to permit	10/19/76	2	C.H. Randt/ASARCO	Stanley Springer/WDOE	
AR 1.2.1 0049	1.2.1 Correspondence	Letter/Approval of modification to permit	10/25/76	2	Stanley Springer/WDOE	Lyman Nielson/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 1.2.1 0050	1.2.1 Correspondence	Letter/Modification of permit	10/28/76	1	Stanley Springer/WDOE	C.H. Randt/ASARCO	
AR 1.2.1 0051	1.2.1 Correspondence	Memorandum/Phone call regarding anode casting water recycle	11/2/76	2	Stanley Springer/WDOE	Files/WDOE	
AR 1.2.1 0052	1.2.1 Correspondence	Letter/Plans for acid piping testing program	11/22/76	1	E.W. Asselstine/WDOE	Charles Randt/ASARCO	
AR 1.2.1 0053	1.2.1 Correspondence	Memorandum/Phone call regarding sidehill seepage above arsenic plant	11/22/76	1	Stan Springer/WDOE	Files/WDOE	
AR 1.2.1 0054	1.2.1 Correspondence	Letter/Disapproval of modifications to permit	11/23/76	2	Donald Dubois/EPA, Region X	John Biggs/WDOE	
AR 1.2.1 0055	1.2.1 Correspondence	Letter/Approval of modifications to permit	2/18/77	2	Lyman Nielson/EPA L. Edwin Coate/EPA	Eugene Asselstine/WDOE Wilber Hallauer/WDOE	
AR 1.2.1 0056	1.2.1 Correspondence	Letter/Present program for removing all process water from discharge	2/18/77	2	C.H. Randt/ASARCO	Stanley Springer/WDOE	
AR 1.2.1 0057	1.2.1 Correspondence	Letter/Plans for recycling process water from anode department	2/28/77	1	Stanley Springer/WDOE	C.H. Randt/ASARCO	
AR 1.2.1 0058	1.2.1 Correspondence	Letter/Order dated 11/16/76, Docket No. DE 76-241	4/11/77	2	C.H. Randt/ASARCO	Stanley Springer/WDOE	
AR 1.2.1 0059	1.2.1 Correspondence	Letter/Extension of completion date for acid pump tank spill	4/19/77	1	Stanley Springer/WDOE	Charles Randt/ASARCO	
AR 1.2.1 0060	1.2.1 Correspondence	Letter/Cessation of discharging process water	7/7/77	1	C.H. Randt/ASARCO	Stanley Springer/WDOE	
AR 1.2.1 0061	1.2.1 Correspondence	Letter/Modifications of Ph limitations	8/3/77	2	Stanley Springer/WDOE	C.H. Randt/ASARCO	
AR 1.2.1 0062	1.2.1 Correspondence	Letter/Spill containment around the acid plant pump tanks	12/13/77	2	C.H. Randt/ASARCO	Stanley Springer/WDOE	
AR 1.2.1 0063	1.2.1 Correspondence	Letter/Permit No. WA-0064-7, Draft Modification	2/28/78	2	Richard Greiling/WDOE	Charles Randt/ASARCO	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 1.2.1 0064	1.2.1 Correspondence	Letter/Proposed installation for scrubber blowdown water in the acid plant spray chamber	3/9/78	2	C.H. Randt/ASARCO	Richard Greiling/WDOE	
AR 1.2.1 0065	1.2.1 Correspondence	Letter/Acid scrubber blowdown spray system	4/5/78	1	E.W. Asselstine/WDOE	Charles Randt/ASARCO	
AR 1.2.1 0066	1.2.1 Correspondence	Letter/Proposed modifications to permit No. WA-0064-7 with attached copy of letter to Bruce Cameron/WDOE	4/18/78	3	Lyman Nielson/EPA	Eugene Asselstine/WDOE	
AR 1.2.1 0067	1.2.1 Correspondence	Letter/Proposed modifications to permit No. WA-0064-7 with attached copy of letter to Bruce Cameron/WDOE	5/4/78	2	Lyman Nielson/EPA	Eugene Asselstine/WDOE	
AR 1.2.1 0068	1.2.1 Correspondence	Letter/Pilot testing of hydraulic slag granulation	5/15/78	3	Rich Greiling/WDOE	A.B. Berg/Industrial Mineral Products (IMP)	
AR 1.2.1 0069	1.2.1 Correspondence	Letter/Balance between input and output for middle outfall	6/1/78	1	C.H. Randt/ASARCO	Richard Greiling/WDOE	
AR 1.2.1 0070	1.2.1 Correspondence	Letter/Results of inflow monitoring program	6/6/78	2	C.H. Randt/ASARCO	Richard Greiling/WDOE	
AR 1.2.1 0071	1.2.1 Correspondence	Letter/September report on scrubber blowdown	10/24/78	2	C.H. Randt/ASARCO	James Krull/WDOE	
AR 1.2.1 0072	1.2.1 Correspondence	Letter/Corrective action plan and schedule for storm water control with attached sampling data	11/1/78	3	C.H. Randt/ASARCO	WDOE	
AR 1.2.1 0073	1.2.1 Correspondence	Memorandum/Phone call regarding ASARCO oil spill	10/11/79	1	Richard Pierce/WDOE	Files/WDOE	
AR 1.2.1 0074	1.2.1 Correspondence	Memorandum/Audit of Class II DOE sampling compliance inspection	2/25/81	1	Ken Mosbaugh/EPA	Files/EPA	
AR 1.2.1 0075	1.2.1 Correspondence	Letter/Discharge monitoring report quality assurance program with attached evaluation report	5/27/81	3	Merley McCall/WDOE	C.E. Hochmuth/ASARCO	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 1.2.1 0076	1.2.1 Correspondence	Letter/Ph of south outfall	10/8/81	1	T.C. White/ASARCO	Richard Pierce/WDOE	
AR 1.2.1 0077	1.2.1 Correspondence	Letter/Review of middle outfall Ph reports	6/24/82	1	Kelly Bendixen/ASARCO	Richard Pierce/WDOE	
AR 1.2.1 0078	1.2.1 Correspondence	Letter/Request for modification of permit No. WA-0064-7 with attached EPA 40 CFR Part 401	7/28/82	7	L.W. Lindquist, Plant Manager/ASARCO	Richard Pierce/WDOE	
AR 1.2.1 0079	1.2.1 Correspondence	Letter/Oil leak in pump supplying the anode department with attached map	10/28/82	3	T.C. White/ASARCO	Richard Pierce/WDOE	
AR 1.2.1 0080	1.2.1 Correspondence	Letter/Leak in acid storage tank	12/6/82	2	T.C. White/ASARCO	Richard Pierce/WDOE	
AR 1.2.1 0081	1.2.1 Correspondence	Memorandum/Recommendation for Notice of Violation at ASARCO/IMP with attached sampling data	2/8/83	17	Richard Pierce/WDOE	Enforcement Officer/WDOE	
AR 1.2.1 0082	1.2.1 Correspondence	Letter/Notice of Violation, Docket No. DE 83-149	4/11/83	1	A.B. Berg/IMP	Gail Keyes/WDOE	
AR 1.2.1 0083	1.2.1 Correspondence	Letter/Notice of Violation Docket No. DE 83-149 with attached letters from Michael Thorp to Shara Stelling, from Donald Robbins to Michael Thorp, sampling data, and NOAA Technical Report NMFS SSRF-721 "National Marine Fisheries Service Survey of Trace Elements in the Fishery Resource"	4/20/83	35	L.W. Lindquist/ASARCO	Bruce Cameron/WDOE	
AR 1.2.1 0084	1.2.1 Correspondence	Letter/Notice of Violation, Docket No. DE 83-149	6/29/83	2	L.W. Lindquist/ASARCO	Bruce Cameron/WDOE	
AR 1.2.1 0085	1.2.1 Correspondence	Letter/Acid leak in line from coolers to absorbing tower with attached report by acid plant supervisor	6/30/83	3	L.W. Lindquist/ASARCO	Richard Pierce/WDOE	

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AR 1.2.1 0086	1.2.1 Correspondence	Letter/Notice of Violation, Docket No. DE 83-149 Slag Granulation	7/28/83	1	L.W. Lindquist/ASARCO	Bruce Cameron/WDOE	
AR 1.2.1 0087	1.2.1 Correspondence	Letter/Acid spill entering south outfall with attached report	8/19/83	6	L.W. Lindquist/ASARCO	Richard Pierce/WDOE	
AR 1.2.1 0088	1.2.1 Correspondence	Letter/Notice of Violation Docket No. DE 83-149 Slag Granulation	8/25/83	1	L.W. Lindquist/ASARCO	Bruce Cameron/WDOE	
AR 1.2.1 0089	1.2.1 Correspondence	Letter/Notice of Violation Docket No. DE 83-149 Slag Granulation	9/16/83	1	L.W. Lindquist/ASARCO	Bruce Cameron/WDOE	
AR 1.2.1 0090	1.2.1 Correspondence	Letter/Notice of Violation (DE 83-149), Slag Processing Operation	2/10/84	2	Richard Pierce/WDOE	Larry Lindquist/ASARCO	
AR 1.2.1 0091	1.2.1 Correspondence	Letter/Notice of Violation Docket No. DE 83-149	2/10/84	2	L.W. Lindquist/ASARCO	Bruce Cameron/WDOE	
AR 1.2.1 0092	1.2.1 Correspondence	Letter/Notice of Violation, Docket No. DE 83-149	2/24/84	5	L.W. Lindquist/ASARCO	John Spencer/WDOE	
AR 1.2.1 0093	1.2.1 Correspondence	Letter/Arsenic mass loading to Puget Sound with attached summary of priority pollutant data for point sources and sediment in inner Commencement Bay and sampling data	5/25/84	8	C.E. Dungey/ASARCO	L.W. Lindquist/ASARCO	
AR 1.2.1 0094	1.2.1 Correspondence	Letter/Permit WA-0064-7 Notice of Violation Order 83-149 dated 3/23/83 and Order No. DE 83-149 dated 5/23/83	8/23/84	2	L.W. Lindquist/ASARCO	Donald Dubois/WDOE	
AR 1.2.1 0095	1.2.1 Correspondence	Letter/Request for relief from Order No. DE 83-149	9/11/84	1	Joan Thomas/WDOE	L.W. Lindquist/ASARCO	
AR 1.2.1 0096	1.2.1 Correspondence	Letter/Request for relief from Order No. DE 83-149	11/9/84	1	Unknown/WDOE	L.W. Lindquist/ASARCO	
AR 1.2.1 0097	1.2.1 Correspondence	Letter/Modifications in monitoring requirements	4/5/85	3	Curtis Dungey/ASARCO	Tom Eaton/WDOE	

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AR 1.2.1 0098	1.2.1 Correspondence	Memorandum/Permit	2/28	1	Bill Balhus/EPA	Carol Thompson/EPA, Region X	
	1.2.2 Permits						
AR 1.2.2 0001	1.2.2 Permits	Permit No. 1762	8/7/62	2	Alfred Neale/WDOE	ASARCO	
AR 1.2.2 0002	1.2.2 Permits	Permit No. T-2827	12/9/68	4	WDOE	ASARCO	
AR 1.2.2 0003	1.2.2 Permits	Application for Permit With Attached Exhibits 1 and 2	4/12/71	6	R.E. Shinkoskey/ASARCO	WDOE	
AR 1.2.2 0004	1.2.2 Permits	Permit No. T-3947	9/12/72	7	R. Jerry Bollen/WDOE	ASARCO	
AR 1.2.2 0005	1.2.2 Permits	Permit No. WA-000064-7	1/6/75	8	Bruce Cameron/WDOE	ASARCO	
AR 1.2.2 0006	1.2.2 Permits	Modification of Permit No. WA-000064-7	3/7/77	8	Stanley Springer/WDOE	C.H. Randt/ASARCO	
AR 1.2.2 0007	1.2.2 Permits	Revisions to pages 2 and 5 of Permit No. WA-000064-7	5/16/78	3	Richard Greiling/WDOE	Charles Randt/ASARCO	
AR 1.2.2 0008	1.2.2 Permits	Puget Sound Source Ranking System	1/6/75	3	Unknown	Files/EPA	
AR 1.2.2 0009	1.2.2 Permits	EPA Application for Renewal of Permit	2/12/82	37	L.W. Lindquist/ASARCO	Richard Pierce/WDOE	
	1.2.3 Sampling Data						
AR 1.2.3 0001	1.2.3 Sampling Data	Effluent Surveillance at ASARCO	1/8/68	1	Unknown	Unknown	
AR 1.2.3 0002	1.2.3 Sampling Data	Effluent Surveillance - Permit #1762	7/8/68	4	Mike Palko/WDOE	Waite Dalrymple/WDOE	
AR 1.2.3 0003	1.2.3 Sampling Data	Middle and south outfall monitoring	10/22/69	2	Mike Palko/WDOE	Chuck Melville, Files/WDOE	
AR 1.2.3 0004	1.2.3 Sampling Data	Yacht Club Basin Water - Leak in Refinery collector	5/22/70-7/30/70	6	Unknown	Unknown	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 1.2.3 0005	1.2.3 Sampling Data	Analytical Report Sheet	7/22/70	1	E. DeNike/WDOE	Chuck Melville/WDOE	
AR 1.2.3 0006	1.2.3 Sampling Data	Sampling of south, middle, and north outfalls and domestic water	9/28/71	4	G. Houck/WDOE	Files/WDOE	
AR 1.2.3 0007	1.2.3 Sampling Data	Results of sampling survey conducted 9/16/70	10/1/70	2	Chuck Melville/WDOE	Files/WDOE	
AR 1.2.3 0008	1.2.3 Sampling Data	Analytical Report Sheet	10/2/70	1	Don Provost/WDOE	Chuck Melville/WDOE	
AR 1.2.3 0009	1.2.3 Sampling Data	Analytical Report Sheet	11/18/70	2	Don Provost/WDOE	M. Palko/WDOE	
AR 1.2.3 0010	1.2.3 Sampling Data	Results of sampling conducted 11/18/70	12/2/70	1	Ron Devitt/WDOE	Mike Palko and George Houck/WDOE	
AR 1.2.3 0011	1.2.3 Sampling Data	Results of sampling conducted 11/18/70	12/2/70	1	Ron Devitt/WDOE	Mike Palko and George Houck/WDOE	
AR 1.2.3 0012	1.2.3 Sampling Data	Analytical Report Sheet	12/3/70	1	Unknown/WDOE	Unknown/WDOE	
AR 1.2.3 0013	1.2.3 Sampling Data	Summary of data collected 12/3/70	12/15/70	2	Ronald Devitt and John Biggs/WDOE	C.H. Randt/ASARCO	
AR 1.2.3 0014	1.2.3 Sampling Data	Summary of data collected 12/29/70	1/5/71	1	Ronald Devitt and John Biggs/WDOE	C.H. Randt/ASARCO	
AR 1.2.3 0015	1.2.3 Sampling Data	Mercury data collected 9/16/70	3/23/71	1	Ronald Lee and John Biggs/WDOE	Gary O'Neil/EPA	
AR 1.2.3 0016	1.2.3 Sampling Data	Sampling data for 6/71 with attached data for 4/71, 2/71, and 11/70	6/19/71	4	C.H. Randt/ASARCO	WDOE	
AR 1.2.3 0017	1.2.3 Sampling Data	Analytical Report/Tacoma Water Samples	9/23/71	1	Unknown/ASARCO	Unknown/ASARCO	
AR 1.2.3 0018	1.2.3 Sampling Data	Analytical Report	9/27/71	1	E.S. Godsey/ASARCO	Unknown/ASARCO	
AR 1.2.3 0019	1.2.3 Sampling Data	Heavy metal testing	10/4/71	1	G. Houck/WDOE	Files/WDOE	
AR 1.2.3 0020	1.2.3 Sampling Data	Analysis of bay water sampled 10/19/71	10/19/71	2	Unknown	Unknown	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 1.2.3 0021	1.2.3 Sampling Data	Analytical Report Sheet	12/29/71	2	Pat Lee/WDOE	Ron Devitt/WDOE	
AR 1.2.3 0022	1.2.3 Sampling Data	Sampling data for January 1972 with attached memos regarding sampling conducted on 12/29/70	2/7/72	3	C.H. Randt/ASARCO	WDOE	
AR 1.2.3 0023	1.2.3 Sampling Data	Results of analysis of raw and treated water	2/22/72	2	C.H. Randt/ASARCO	Roy Nakatani/University of Washington	
AR 1.2.3 0024	1.2.3 Sampling Data	Analytical Report for Tacoma Granulator Discharge Water	3/17/72	12	Unknown/ASARCO	Unknown/ASARCO	
AR 1.2.3 0025	1.2.3 Sampling Data	Sampling data for July 1972	8/3/72	1	C.H. Randt/ASARCO	WDOE	
AR 1.2.3 0026	1.2.3 Sampling Data	Analyses of water effluent samples	4/9/75	1	Donald Robbins/ASARCO	C.E. Hochmuth/ASARCO	
AR 1.2.3 0027	1.2.3 Sampling Data	Water samples taken from 5 locations on 4/18/75	5/1/75	1	Unknown	Unknown	
AR 1.2.3 0028	1.2.3 Sampling Data	Water samples from outfalls	5/30/75	1	Unknown	Unknown	
AR 1.2.3 0029	1.2.3 Sampling Data	Analyses of water samples taken 5/24-30/75	7/2/75	1	Donald Robbins/ASARCO	C.E. Hochmuth/ASARCO	
AR 1.2.3 0030	1.2.3 Sampling Data	Storm sewer outfalls; temperature boundary plan; north, middle, and south outfalls	9/25/75	1	Dave Roberts/Unknown	Frank Weldon/Unknown	
AR 1.2.3 0031	1.2.3 Sampling Data	Storm sewer outfalls; temperature boundary plan	10/10/75	1	Dave Roberts/Unknown	Frank Weldon/Unknown	
AR 1.2.3 0032	1.2.3 Sampling Data	Data summary	12/19/75	1	G. Houck/WDOE	Files/WDOE	
AR 1.2.3 0033	1.2.3 Sampling Data	Storm sewer outfalls; temperature boundary plan; north, middle, and south outfalls	12/5/75	1	Dave Roberts/Unknown	Charles Randt/ASARCO	
AR 1.2.3 0034	1.2.3 Sampling Data	South outfall waters	1/14/76	23	C.E. Hochmuth/ASARCO	M.C. Tears/ASARCO	

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0038

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 1.2.3 0035	1.2.3 Sampling Data	Storm sewer outfalls; temperature boundary plan; north, middle, and south outfalls	3/5/76	1	Dave Roberts/Unknown	Charles Randt/ASARCO	
AR 1.2.3 0036	1.2.3 Sampling Data	Water samples from arsenic plant and roaster downspouts	5/10/76	1	Unknown	Unknown	
AR 1.2.3 0037	1.2.3 Sampling Data	Data summary	5/24/76	2	Stanley Springer/WDOE	Files/WDOE	
AR 1.2.3 0038	1.2.3 Sampling Data	Sampling of anode pond makeup water	5/28/76	1	Unknown	Unknown	
AR 1.2.3 0039	1.2.3 Sampling Data	Water inflow to anode pond	7/6/76	1	Dick Jackson/Unknown	Unknown	
AR 1.2.3 0040	1.2.3 Sampling Data	Water inflow to anode pond	7/6/76	1	Unknown	Unknown	
AR 1.2.3 0041	1.2.3 Sampling Data	Bay bottom and water leach solutions	8/16/76 7/29/76	1	Unknown	Unknown	
AR 1.2.3 0042	1.2.3 Sampling Data	Flue dewatering	12/6/76 8/13/76	1	C.H.R. (Dieter)/Unknown	Unknown	
AR 1.2.3 0043	1.2.3 Sampling Data	Waste water discharge	3/9/77	1	C.H. Randt/ASARCO	S.N. Kesten/ASARCO	
AR 1.2.3 0044	1.2.3 Sampling Data	Data summary of middle and north outfalls	7/7/77	1	R. Pritchard/WDOE	Files/WDOE	
AR 1.2.3 0045	1.2.3 Sampling Data	Water samples of north and middle outfalls taken during strike period	7/7/77 to 9/1/77	1	Unknown	Unknown	
AR 1.2.3 0046	1.2.3 Sampling Data	Water samples of middle outfall with attached analysis of contributory lines to outfall	12/7/77	2	Unknown	Unknown	
AR 1.2.3 0047	1.2.3 Sampling Data	Tacoma plant summary	3/78 and 4/78	1	Unknown/ASARCO	Unknown	
AR 1.2.3 0048	1.2.3 Sampling Data	Samples of Puget Sound waters	5/19/78	1	Unknown/ASARCO	Unknown	
AR 1.2.3 0049	1.2.3 Sampling Data	Analyses of 5 water samples from north, middle, and south outfalls	10/5/78	1	Donald Robbins/ASARCO	C.E. Hochmuth/ASARCO	

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0039

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 1.2.3 0050	1.2.3 Sampling Data	Samples of north, middle, and south outfalls	10/17/78	1	Unknown/ASARCO	Unknown	
AR 1.2.3 0051	1.2.3 Sampling Data	Fire Station #12 sampling	4/03/79 to 1/10/81	2	Unknown	Unknown	
AR 1.2.3 0052	1.2.3 Sampling Data	Analysis of water samples from south outfall	11/13/79	1	W.A. Millard/ASARCO	C. Hochmuth/ASARCO	
AR 1.2.3 0053	1.2.3 Sampling Data	Silver in water samples	12/17/79	1	C.E. Hochmuth/ASARCO	Unknown	
AR 1.2.3 0054	1.2.3 Sampling Data	Deleted - Duplicate of AR 1.2.3 0053					
AR 1.2.3 0055	1.2.3 Sampling Data	Metals comparison Tacoma/WDOE of north, middle, and south outfalls	2/81	1	Unknown	Unknown	
AR 1.2.3 0056	1.2.3 Sampling Data	Effluent Report	2/81	5	Unknown/ASARCO	Unknown	
AR 1.2.3 0057	1.2.3 Sampling Data	Sampling from ASARCO Lab No. 81-2030 with attached memo	4/10/81	2	Mike Fabbi/ASARCO	Larry Lindquist/ASARCO	
AR 1.2.3 0058	1.2.3 Sampling Data	South infall monitoring	1/10/82	1	Unknown	Unknown	
AR 1.2.3 0059	1.2.3 Sampling Data	South infall monitoring following a dust spill	1/14/82	2	L.W. Lindquist/ASARCO	Richard Pierce/WDOE	
AR 1.2.3 0060	1.2.3 Sampling Data	Analysis of WDOE outfall and infall inspection of ASARCO	5/10-14/82	4	Unknown/WDOE	Unknown	
AR 1.2.3 0061	1.2.3 Sampling Data	May 1982 Class I Inspection sampling results	7/22/82	4	Richard Pierce/WDOE	Tom White/ASARCO	
AR 1.2.3 0062	1.2.3 Sampling Data	Analyses of three samples obtained from outfalls	7/30/82	2	Kelly Bendixen/ASARCO	Rick Pierce/WDOE	
AR 1.2.3 0063	1.2.3 Sampling Data	Metals analyses of Commencement Bay	9/15/82	1	Rick Pierce/WDOE	Unknown/EPA	
AR 1.2.3 0064	1.2.3 Sampling Data	Data summary	9/15/82	3	Richard Pierce/WDOE	Unknown	

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0040

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 1.2.3 0065	1.2.3 Sampling Data	Samples of north, middle, and south outfalls, slag pond, and Commencement Bay split with WDOE	9/15/82	1	Unknown/WDOE	Unknown	
AR 1.2.3 0066	1.2.3 Sampling Data	Water sample test results for Industrial Mineral Products	3/1/83	3	Unknown/IMP	Unknown	
AR 1.2.3 0067	1.2.3 Sampling Data	Data summary	3/29/83	2	Richard Pierce/WDOE	Unknown	
AR 1.2.3 0068	1.2.3 Sampling Data	Water sampling of Commencement Bay	4/1-4/6/83	7	Kelly Bendixen/ASARCO	Unknown	
AR 1.2.3 0069	1.2.3 Sampling Data	Data summary	7/29/83	3	D. Anderson/WDOE	Rick Pierce and Will Abercrombie/WDOE	
AR 1.2.3 0070	1.2.3 Sampling Data	Salinity and Conductivity sampling	9/20/83	12	Unknown/WDOE	Unknown	
AR 1.2.3 0071	1.2.3 Sampling Data	Granulation pond and slag classifier pond samples	11/9/83	1	Unknown	Unknown	
AR 1.2.3 0072	1.2.3 Sampling Data	Slag classifier pond, runoff water, and granulation pond samples	11/9/83 and 5/9/84	1	Unknown	Unknown	
AR 1.2.3 0073	1.2.3 Sampling Data	Arsenic sampling of north, middle, and south outfalls for 1981, 1982, and 1983	1983	3	Unknown	Unknown	
AR 1.2.3 0074	1.2.3 Sampling Data	Yacht Club manhole water samples	1/4/84	1	C. Dungey/ASARCO	Unknown	
AR 1.2.3 0075	1.2.3 Sampling Data	Runoff water samples	5/9/84	1	Unknown	Unknown	
AR 1.2.3 0076	1.2.3 Sampling Data	Ph Report	9/84	1	Unknown/ASARCO	Unknown	
AR 1.2.3 0077	1.2.3 Sampling Data	Effluent Report	9/84	1	Unknown/ASARCO	Unknown	
AR 1.2.3 0078	1.2.3 Sampling Data	Heavy metals sampling from anode pond makeup water	9/84-12/84	15	Unknown	Unknown	
AR 1.2.3 0079	1.2.3 Sampling Data	Request for Analysis/Data Summary	11/15/84	3	Richard Pierce/WDOE	Files/WDOE	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 1.2.3 0080	1.2.3 Sampling Data	Data Summary	11/15/84	1	Richard Pierce/WDOE	Rick Pierce/WDOE	
AR 1.2.3 0081	1.2.3 Sampling Data	South and middle outfalls samples	11/15/84	1	Unknown	Unknown/WDOE	
AR 1.2.3 0082	1.2.3 Sampling Data	Data Summary	1/31/85	7	Richard Pierce/WDOE	W. Abercrombie and R. Pierce/WDOE	
AR 1.2.3 0083	1.2.3 Sampling Data	Runoff waters samples	2/4-13/85	1	Curtis Dungey/ASARCO and WDOE	Unknown	
AR 1.2.3 0084	1.2.3 Sampling Data	Waste and runoff waters	2/13/85 and 3/6/85	1	Curtis Dungey/ASARCO and WDOE	Unknown	
AR 1.2.3 0085	1.2.3 Sampling Data	Heavy metals from 5 test holes	3/6-20/85	16	Unknown	Unknown	
AR 1.2.3 0086	1.2.3 Sampling Data	Materials discharged to Commencement Bay for 1979-1984	8/6/85	28	Curtis Dungey/ASARCO	Tom Eaton/WDOE	
AR 1.2.3 0087	1.2.3 Sampling Data	Results of well water samples analysis	12/16/85	3	Gary Stanga/ASARCO	C.E. Dungey/ASARCO	
AR 1.2.3 0088	1.2.3 Sampling Data	Runoff sample analysis with attached table regarding composition of slag	Unknown	2	Unknown	Unknown	
AR 1.2.3 0089	1.2.3 Sampling Data	Sampling data from 12 locations	Unknown	2	Unknown	Unknown	
AR 1.2.3 0090	1.2.3 Sampling Data	Request for water assays for report to WDOE	Unknown	1	Unknown	Unknown	
	1.2.4 Inspection Reports						
AR 1.2.4 0001	1.2.4 Inspection Reports	WDOE Inspection Report	10/16/75	1	Jim Oberlander/WDOE	Files/WDOE	
AR 1.2.4 0002	1.2.4 Inspection Reports	WDOE Inspection Report	10/30/75	1	Jim Oberlander and Doug Houck/WDOE	Files/WDOE	
AR 1.2.4 0003	1.2.4 Inspection Reports	WDOE Class II Inspection	11/18/75	6	Stanley Springer/WDOE	Jim Krull and Ron Pine/WDOE	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 1.2.4 0004	1.2.4 Inspection Reports	WDOE Class II Inspection	5/7/76	3	Douglas Houck/WDOE	Stanley Springer/WDOE	
AR 1.2.4 0005	1.2.4 Inspection Reports	WDOE Inspection Report	7/28/76	1	Stanley Springer/WDOE	Files/WDOE	
AR 1.2.4 0006	1.2.4 Inspection Reports	WDOE Inspection Report	9/16/76	1	Stanley Springer/WDOE	Files/WDOE	
AR 1.2.4 0007	1.2.4 Inspection Reports	WDOE Inspection Report	9/9/77	2	Stanley Springer/WDOE	Files/WDOE	
AR 1.2.4 0008	1.2.4 Inspection Reports	WDOE Inspection Report	2/15/78	2	Rich Greiling/WDOE	Files/WDOE	
AR 1.2.4 0009	1.2.4 Inspection Reports	EPA Compliance Inspection Report	2/15/78	4	Richard Greiling/WDOE	Unknown/EPA	
AR 1.2.4 0010	1.2.4 Inspection Reports	WDOE Inspection Report	9/19/78	1	Richard Greiling/WDOE	Files/WDOE	
AR 1.2.4 0011	1.2.4 Inspection Reports	WDOE Class II Survey	4/19/79	12	Greg Cloud/WDOE	Rick Pierce/WDOE	
AR 1.2.4 0012	1.2.4 Inspection Reports	WDOE Inspection Report	10/17/80	1	Jim Oberlander/WDOE	Files/WDOE	
AR 1.2.4 0013	1.2.4 Inspection Reports	WDOE Inspection Report	6/25/81	2	Jim Oberlander/WDOE	Files/WDOE	
AR 1.2.4 0014	1.2.4 Inspection Reports	WDOE Class II Survey	12/7/81	21	Marc Heffner/WDOE	Rick Pierce/WDOE	
AR 1.2.4 0015	1.2.4 Inspection Reports	WDOE Inspection Report	1/13/82	7	Will Abercrombie/WDOE and Doug Pierce/TPCHD	Files/WDOE	
AR 1.2.4 0016	1.2.4 Inspection Reports	WDOE Inspection Report	1/21/82	4	D. Anderson/WDOE	Files (Rick Pierce)/WDOE	
AR 1.2.4 0017	1.2.4 Inspection Reports	WDOE inspection of acid bypass	4/27/82	7	Rick Pierce and Darrel Anderson/WDOE	Files/WDOE	

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00H3

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 1.2.4 0018	1.2.4 Inspection Reports	WDOE Inspection Report	5/10/82	18	Rick Pierce and D. Anderson/WDOE	Darrel Anderson, Frank Monahan, and Files/WDOE	
AR 1.2.4 0019	1.2.4 Inspection Reports	WDOE Inspection Report	6/24/82	3	Rick Pierce/WDOE	Files/WDOE	
AR 1.2.4 0020	1.2.4 Inspection Reports	WDOE Inspection Report	9/15/82	5	Anderson and Pierce/WDOE	Files/WDOE	
AR 1.2.4 0021	1.2.4 Inspection Reports	WDOE Inspection Report	9/28/82	3	D. Anderson/WDOE	Files/WDOE	
AR 1.2.4 0022	1.2.4 Inspection Reports	WDOE Inspection Report	12/9/82	1	J. Jewett and D. Anderson/WDOE	Rick Pierce and Files/WDOE	
AR 1.2.4 0023	1.2.4 Inspection Reports	WDOE Inspection Report	2/16/83	1	R. Pierce and D. Anderson/WDOE	Files/WDOE	
AR 1.2.4 0024	1.2.4 Inspection Reports	WDOE Inspection Report	6/10/83	13	D. Anderson/WDOE	Rick Pierce and Files/WDOE	
AR 1.2.4 0025	1.2.4 Inspection Reports	WDOE Inspection Report	7/29/83	5	W. Abercrombie and D. Anderson/WDOE	Rick Pierce and Files/WDOE	
AR 1.2.4 0026	1.2.4 Inspection Reports	WDOE Inspection Report	11/19/84	1	R. Pierce and Mary R./WDOE	Tom Eaton and Files/WDOE	
AR 1.2.4 0027	1.2.4 Inspection Reports	WDOE Inspection Report	4/19/85	1	R. Pierce, B. Kevit, and M. Ruckleshouse/WDOE	Files/WDOE	
AR 1.2.4 0028	1.2.4 Inspection Reports	WDOE Inspection Report	6/22	1	R. Pierce/WDOE	Files/WDOE	
AR 1.2.4 0029	1.2.4 Inspection Reports	Sections F-M of EPA Compliance Inspection Report	Unknown	3	Unknown	Unknown/EPA	
	1.2.5 Environmental Complaints						
AR 1.2.5 0001	1.2.5 Environmental Complaints	Arsenic spill into dispersion pond	6/27/75	3	Stanley Springer/WDOE	Files/WDOE	

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0044

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 1.2.5 0002	1.2.5 Environmental Complaints	Bunker "C" oil leak with attached letter regarding spill from ASARCO to WDOE	8/21/75	3	Sharon Jones/WDOE	Files/WDOE	
AR 1.2.5 0003	1.2.5 Environmental Complaints	Water supply reservoir receiving fallout from stack	3/5/76	2	Jim Krull/WDOE	Files/WDOE	
AR 1.2.5 0004	1.2.5 Environmental Complaints	Green color in Puget Sound adjacent to smelter	5/19/76	2	Ron Robinson/WDOE	Files/WDOE	
AR 1.2.5 0005	1.2.5 Environmental Complaints	Spill from acid plant into dispersion pond	5/24/76	2	Stan Springer/WDOE	Files/WDOE	
AR 1.2.5 0006	1.2.5 Environmental Complaints	Green film in bay	5/26/76	2	Dean Wood/WDOE	Files/WDOE	
AR 1.2.5 0007	1.2.5 Environmental Complaints	Drop of Ph to 1.6 for 21 hours	6/26/79	2	Jim Oberlander/WDOE	Files/WDOE	
AR 1.2.5 0008	1.2.5 Environmental Complaints	Ph of 2.4 at south outfall	12/18/80	2	Richard Pierce/WDOE	Files/WDOE	
AR 1.2.5 0009	1.2.5 Environmental Complaints	Sulfuric acid spill on Tacoma shoreline	1/22/81	1	Unknown/WDOE	Files/WDOE	
AR 1.2.5 0010	1.2.5 Environmental Complaints	Arsenic spill of 250 gallons	1/22/81	2	Frank Monahan/WDOE	Files/WDOE	
AR 1.2.5 0011	1.2.5 Environmental Complaints	"HM" dumped two years previously causing health problems	2/4/81	3	Unknown/WDOE	Files/WDOE	
AR 1.2.5 0012	1.2.5 Environmental Complaints	Scrubber plant wash water	6/10/82	2	Will Abercrombie/WDOE	Files/WDOE	
AR 1.2.5 0013	1.2.5 Environmental Complaints	Slag slipping into bay	8/21/82	1	Jim Oberlander and D. Anderson/WDOE	Files/WDOE	
AR 1.2.5 0014	1.2.5 Environmental Complaints	Unknown	10/4/82	1	R. Pierce/WDOE	Files/WDOE	

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0045

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 1.2.5 0015	1.2.5 Environmental Complaints	Oil spill from damaged seals on pump station	10/18/82	3	R. Pierce/WDOE	Files/WDOE	
AR 1.2.5 0016	1.2.5 Environmental Complaints	Leaking and derailed railroad car	7/6/83	1	Unknown/WDOE	Files/WDOE	
AR 1.2.5 0017	1.2.5 Environmental Complaints	Sulfuric acid leak	7/29/83	2	Brett Bets/WDOE	Files/WDOE	
AR 1.2.5 0018	1.2.5 Environmental Complaints	Bunker "C" leak	1/3/84	1	Unknown/WDOE	Files/WDOE	
	1.2.6 Violations/Orders						
AR 1.2.6 0001	1.2.6 Violations/Orders	Notice of Violation Docket No. DE 76-241 regarding acid spill	6/16/76	2	Bruce Cameron/WDOE	ASARCO	
AR 1.2.6 0002	1.2.6 Violations/Orders	Letter/Steps to control waste and pollution	7/30/76	2	C.H. Randt/ASARCO	Lloyd Taylor/WDOE	
AR 1.2.6 0003	1.2.6 Violations/Orders	Order Docket No. DE 76-241 regarding completion of approved acid plant	11/10/76	1	Bruce Cameron/WDOE	ASARCO	
AR 1.2.6 0004	1.2.6 Violations/Orders	Order Docket No. DE 76-241 First Amendment	3/23/78	1	Bruce Cameron/WDOE	ASARCO	
AR 1.2.6 0005	1.2.6 Violations/Orders	Notice of Penalty Incurred and due Docket No. DE 82-469 regarding discharged process water	8/16/82	1	Bruce Cameron/WDOE	ASARCO	
AR 1.2.6 0006	1.2.6 Violations/Orders	Application for Relief from Penalty Docket No. DE 82-469	8/26/82	3	L.W. Lindquist/ASARCO	WDOE	
AR 1.2.6 0007	1.2.6 Violations/Orders	Acknowledgment of Service Docket No. DE 83-149 with attached Notice of Violation regarding illegal discharging of liquid waste to state waters	3/24/83	3	Bruce Cameron/WDOE	ASARCO and IMP	

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0046

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 1.2.6 0008	1.2.6 Violations/Orders	Order Docket No. DE 83-149 regarding engineering report with attached Acknowledgment of Service	5/23/84	3	Dennis Lundblad/WDOE	ASARCO	
AR 1.2.6 0009	1.2.6 Violations/Orders	Notice of Disposition Upon Application for Relief From Penalty Docket No. DE 82-469	6/17/83	1	Bruce Cameron/WDOE	ASARCO	
	1.2.7 Log Sort Yards						
AR 1.2.7 0001	1.2.7 Log Sort Yards	Leachability Study	2/25/81	12	Richard Pierce/WDOE	Dennis Skeie/IMP	
AR 1.2.7 0002	1.2.7 Log Sort Yards	Log Sort Yard Survey Results, Sort Yard #2 with attached sampling data	2/25/81	15	Richard Pierce/WDOE	Louis Miller/Murray-Pacific Corporation	
AR 1.2.7 0003	1.2.7 Log Sort Yards	Sampling procedure to prepare slag samples	3/27/81	2	T.C. White/ASARCO	Richard Pierce/WDOE	
AR 1.2.7 0004	1.2.7 Log Sort Yards	Log Yard Inspection Report	4/21/81	5	D. Anderson/WDOE	Files/WDOE	
AR 1.2.7 0005	1.2.7 Log Sort Yards	Report of results of various leach tests on slag	5/15/81	9	T.C. White/ASARCO	Richard Pierce/WDOE	
AR 1.2.7 0006	1.2.7 Log Sort Yards	Heavy metals discharge to receiving waters from slag ballast	5/29/81	3	Darrel Anderson/WDOE	Louis Miller/Murray Pacific Corporation	
AR 1.2.7 0007	1.2.7 Log Sort Yards	Heavy metals discharge to receiving waters from slag ballast	5/29/81	4	Darrel Anderson/WDOE	Pat Williams/Dunlap Towing Company	
AR 1.2.7 0008	1.2.7 Log Sort Yards	Heavy metals discharge to receiving waters from slag ballast	5/29/81	5	Darrel Anderson/WDOE	Bruce Amstreal/Wasser & Winters	
AR 1.2.7 0009	1.2.7 Log Sort Yards	B & L Waste Site sampling data	1/19/82	6	G. Cloud/WDOE	Files/WDOE	
AR 1.2.7 0010	1.2.7 Log Sort Yards	B & L Woodwaste Fill, sampling data	5/20/82	1	G. Cloud/WDOE	Files/WDOE	
AR 1.2.7 0011	1.2.7 Log Sort Yards	Investigation Report of ASARCO slag	12/22/82	28	Richard Pierce and Darrel Anderson/WDOE	Unknown/WDOE	
AR 1.2.7 0012	1.2.7 Log Sort Yards	Memorandum/Phone call regarding BN Timberlands use of ASARCO slag	6/7/83	1	D. Anderson/WDOE	Rick Pierce/WDOE	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 1.2.7 0013	1.2.7 Log Sort Yards	Environmental problems due to leaching of arsenic and other metals	2/14/84	2	Frank Monahan/WDOE	Larry Lindquist/ASARCO	
AR 1.2.7 0014	1.2.7 Log Sort Yards	Memorandum/WDOE meeting on slag use with attached sampling data	2/27/84	6	C.E. Dungey/ASARCO	M.O. Varner/ASARCO	
AR 1.2.7 0015	1.2.7 Log Sort Yards	Sampling of water draining from logging storage pads	4/3/84	2	ASARCO and WDOE	Unknown	
AR 1.2.7 0016	1.2.7 Log Sort Yards	Metal discharges to Puget Sound	5/2/84	3	C.E. Dungey/ASARCO	D.A. Robbins/ASARCO	
AR 1.2.7 0017	1.2.7 Log Sort Yards	Data summary of Tacoma sort yards	6/14/84	10	Dale Norton/WDOE	Files/WDOE	
AR 1.2.7 0018	1.2.7 Log Sort Yards	Assessment of log sort yards as metals sources to Commencement Bay	2/27/85	52	Dale Norton and Art Johnson/WDOE	Jim Krull/WDOE	
	1.2.8 Discharge Monitoring Reports						
AR 1.2.8 0001	1.2.8 Discharge Monitoring Reports	Reports for June, July, and August	1969	6	A.L. Labbe/ASARCO	Unknown/EPA	
AR 1.2.8 0002	1.2.8 Discharge Monitoring Reports	pH and effluent reports for January through December	1975	73	Unknown/ASARCO	Unknown/EPA	
AR 1.2.8 0003	1.2.8 Discharge Monitoring Reports	Report for December	12/76	7	Unknown/ASARCO	Unknown/EPA	
AR 1.2.8 0004	1.2.8 Discharge Monitoring Reports	Reports for January through December	1977	123	C.H. Randt/ASARCO	Unknown/EPA	
AR 1.2.8 0005	1.2.8 Discharge Monitoring Reports	Reports for January through December	1978	155	C.H. Randt/ASARCO	Unknown/EPA	
AR 1.2.8 0006	1.2.8 Discharge Monitoring Reports	Reports for January through December	1979	141	L.W. Lindquist/ASARCO	Unknown/EPA	
AR 1.2.8 0007	1.2.8 Discharge Monitoring Reports	Reports for January through December	1980	87	A.L. Labbe/ASARCO	Unknown/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 1.2.8 0008	1.2.8 Discharge Monitoring Reports	Reports for January through December	1981	150	L.W. Lindquist/ASARCO	Unknown/EPA	
AR 1.2.8 0009	1.2.8 Discharge Monitoring Reports	Reports for January through December	1982	135	L.W. Lindquist/ASARCO	Unknown/EPA	
AR 1.2.8 0010	1.2.8 Discharge Monitoring Reports	Reports for January through December	1983	137	L.W. Lindquist/ASARCO	Unknown/EPA	
AR 1.2.8 0011	1.2.8 Discharge Monitoring Reports	Reports for January through December	1984	129	L.W. Lindquist/ASARCO	Unknown/EPA	
AR 1.2.8 0012	1.2.8 Discharge Monitoring Reports	Reports for January through December	1985	131	L.W. Lindquist/ASARCO	Unknown/EPA	
AR 1.2.8 0013	1.2.8 Discharge Monitoring Reports	Reports for January - March	1986	11	L.W. Lindquist/ASARCO	Unknown/EPA	
AR 1.2.8 0014	1.2.8 Discharge Monitoring Reports	Reports for October and November	1987	20	L.W. Lindquist/ASARCO	Unknown/EPA	
1.3 Background - Shoreline Management Act							
1.3.1 Correspondence							
AR 1.3.1 0001	1.3.1 Correspondence	Notice NPS 71-81 regarding repair and preservation of existing slag fill and proposed extension of new slag fill	3/3/71	4	R.R. Ekstrom/Corps of Engineers (COE)	Public agencies	
AR 1.3.1 0002	1.3.1 Correspondence	Comments on Notice NPS 71-81	3/11/71	1	John Ward/State of Washington Department of Game	Files/WDOE	
AR 1.3.1 0003	1.3.1 Correspondence	Comments on Notice NPS 71-81	3/10/71	1	John Biggs/WDOE	W.O. Glundbert/ Metropolitan Park District of Tacoma	
AR 1.3.1 0004	1.3.1 Correspondence	Comments on Notice NPS 71-81	3/25/71	1	Lloyd Reed/EPA	R.R. Ekstrom/COE	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 1.3.1 0005	1.3.1 Correspondence	Comments on Notice NPS 71-81	3/29/71	1	Unknown/Washington Department of Fisheries	Files/WDOE	
AR 1.3.1 0006	1.3.1 Correspondence	Comments on Notice NPS 71-81	4/15/71	1	John Biggs/WDOE	R.R. Ekstrom/COE	
AR 1.3.1 0007	1.3.1 Correspondence	Comments on Notice NPS 71-81	6/9/71	4	L.B. Day/U.S. Department of Interior	R.R. Ekstrom/COE	
AR 1.3.1 0008	1.3.1 Correspondence	Memorandum/Phone call regarding withdrawal of approval of NPS 71-81 by Lloyd Taylor	10/8/71	1	G. Houck/WDOE	Files/WDOE	
AR 1.3.1 0009	1.3.1 Correspondence	Letter/Revised Application No. 071-OYB-1-001714	3/11/75	5	A.L. Labbe/ASARCO	Unknown/COE	
AR 1.3.1 0010	1.3.1 Correspondence	Letter/Revised Application No. 071-OYB-1-001714	3/24/75	1	Raymond Eineigl/COE	A.L. Labbe/ASARCO	
AR 1.3.1 0011	1.3.1 Correspondence	Letter/Cessation of processing of Application No. 071-OYB-1-001714 with attached letter to ASARCO from COE	3/24/75	2	Raymond Eineigl/COE	Unknown/Metropolitan Park District of Tacoma	
AR 1.3.1 0012	1.3.1 Correspondence	Revised drawings regarding Application No. 071-OYB-2-007168	3/10/81	5	R.F. Sylvanus/ASARCO	Norman Hansen/COE	
AR 1.3.1 0013	1.3.1 Correspondence	Notice regarding Application No. 071-OYB-2-007167 for permit to discharge waters	3/12/81	4	Unknown/COE	Public Agencies	
AR 1.3.1 0014	1.3.1 Correspondence	Notice of Application for Water Quality Certification No. 071-OYB-2-007168	4/2/81	1	Unknown/WDOE	Public Agencies	
AR 1.3.1 0015	1.3.1 Correspondence	Letter/Comments on Application No. 071-OYB-2-007167 by WDOE, City of Tacoma, EPA, and U.S. Department of Interior	4/16/81	5	Gerald Keller/COE	L.W. Lindquist/ASARCO	
AR 1.3.1 0016	1.3.1 Correspondence	Comments on Application No. 071-OYB-2-007168	5/7/81	1	George Hoivik/City of Tacoma	Gerald Keller/COE	

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0050

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 1.3.1 0017	1.3.1 Correspondence	Comments on Application No. 071-OYB-2-007167	5/8/81	1	George Hoivik/City of Tacoma	Gerald Keller/COE	
AR 1.3.1 0018	1.3.1 Correspondence	Exemption from Shoreline Management Act substantial development permit requirement	5/12/81	1	George Hoivik/City of Tacoma	L.W. Lindquist/ASARCO	
AR 1.3.1 0019	1.3.1 Correspondence	Letter/Comments on Application No. 071-OYB--007168 by Puyallup Nation, WDOE, National Oceanic Atmospheric Administration, U.S. Department of Interior, and EPA	5/13/81	7	Gerald Keller/COE	L.W. Lindquist/ASARCO	
AR 1.3.1 0020	1.3.1 Correspondence	Letter/Comments on Application No. 071-OYB-2-007167 by WDOE and U.S. Department of Interior	9/28/81	4	Gerald Keller/COE	L.W. Lindquist/ASARCO	
AR 1.3.1 0021	1.3.1 Correspondence	Letter/Comments on Application No. 071-OYB-2-007168 by WDOE	11/9/81	3	Gerald Keller/COE	L.W. Lindquist/ASARCO	
AR 1.3.1 0022	1.3.1 Correspondence	Status Report on Application No. 071-OYB-2-007167	4/28/82	2	Shara Stelling/WDOE	District Engineer/COE	
AR 1.3.1 0023	1.3.1 Correspondence	Letter/Legal representation for ASARCO regarding Applications No. 071-OYB-2-007167 and 071-OYB-2-007168	6/15/82	1	Michael Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	Gerald Keller/COE	
AR 1.3.1 0024	1.3.1 Correspondence	Letter/Nonhazardous status of reverberatory furnace slag with attached data and reports	6/23/82	21	Donald Robbins/ASARCO	M.R. Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	
AR 1.3.1 0025	1.3.1 Correspondence	Letter/Requesting completion of review process for Applications No. 071-OYB-2-007167 and 071-OYB-2-007168	7/20/82	3	Michael Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	Shara Stelling/WDOE	
AR 1.3.1 0026	1.3.1 Correspondence	Letter/Reports on slag by Roy Nakatani with attached reports	8/11/82	48	Michael Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	Richard Pierce/WDOE	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 1.3.1 0027	1.3.1 Correspondence	Letter/Review of status of Application No. 071-OYB-2-007168 and discussion of merits	12/13/82	11	Michael Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	Planning Department/City of Tacoma	
AR 1.3.1 0028	1.3.1 Correspondence	Comments on Application No. 071-OYB-2-007167 and 071-OYB-2-007168 with attached data and reports	12/23/82	28	Richard Pierce/WDOE	Pat Bucknell/WDOE	
AR 1.3.1 0029	1.3.1 Correspondence	Comments on Applications No. 071-OYB-2-007167 and 071-OYB-2-007168	1/4/83	2	Robert Burd/EPA, Region X	District Engineer/COE	
AR 1.3.1 0030	1.3.1 Correspondence	Response to comments on Applications No. 071-OYB-2-007167 and 071-OYB-2-0071678	1/27/83	9	Michael Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	Pat Bucknell/WDOE	
AR 1.3.1 0031	1.3.1 Correspondence	Revised drawing regarding type of material to be placed in proposed fill	7/26/83	2	Stephen Wright/COE	Land Resources and Liaison Section/WDOE	
AR 1.3.1 0032	1.3.1 Correspondence	Letter/Use of slag for fill and "rip rap"	8/24/83	1	Bud Nicola/TPCHD	George Hoivik/City of Tacoma	
	1.3.2 Permits						
AR 1.3.2 0001	1.3.2 Permits	Partial Application No. 071-OYB-2-000016	4/11/72	80	L.W. Lindquest/ASARCO	Unknown/COE	
AR 1.3.2 0002	1.3.2 Permits	Application for permit to perform riprapping on slag	2/19/81	8	L.W. Lindquist/ASARCO	Russ McCutcheon/COE	
AR 1.3.2 0003	1.3.2 Permits	Acknowledgment of receipt of application for permit to perform riprapping on slag	2/24/81	1	Gerald Keller/COE	L.W. Lindquist/ASARCO	
AR 1.3.2 0004	1.3.2 Permits	Certification of Consistency with the Washington Coastal Zone Management Program	3/3/81	1	L.W. Lindquist/ASARCO	WDOE	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
	1.3.3 Slag Studies						
AR 1.3.3 0001	1.3.3 Slag Studies	Preliminary Report of Bioassay of Tacoma Smelter Slag Fragments to Juvenile Chum Salmon	8/72	2	R.E. Nakatani, D. Beyer, and R.D. Cardwell/University of Washington	ASARCO	
AR 1.3.3 0002	1.3.3 Slag Studies	Preliminary Report Biological Survey of Marine Organisms Inhabiting Tacoma Smelter Slag Fill	6/73	14	Roy Nakatani, Dave Mayer, Hal Beattie, and Don Beyer/ University of Washington	ASARCO	
AR 1.3.3 0003	1.3.3 Slag Studies	Biological Survey of Marine Organisms at the Proposed Tacoma Smelter Slag Fill Site	10/73	27	Roy Nakatani, Charles Simenstad, Charles O'Clair, and Donald Beyer/University of Washington	ASARCO	
AR 1.3.3 0004	1.3.3 Slag Studies	Report on the Suitability of Granulated Slag for Dumping in Puget Sound Waters	10/19/73	3	Laucks Testing Laboratories	ASARCO	
AR 1.3.3 0005	1.3.3 Slag Studies	Environmental Impact Statement regarding filling Defiance Mill Site with slag	3/75	349	Tacoma Planning Department/City of Tacoma	WDOE	
AR 1.3.3 0006	1.3.3 Slag Studies	Letter/Leachability of slag with attached data	1/4/78	6	S. Norman Kesten/ASARCO	M.O. Varner/ASARCO	
AR 1.3.3 0007	1.3.3 Slag Studies	Letter/Existing literature on toxicity of slag with attached report	8/20/82	5	Donald Robbins/ASARCO	T.C. White/ASARCO	
AR 1.3.3 0008	1.3.3 Slag Studies	Investigation report on smelter slag	12/23/82	27	Richard Pierce/WDOE	Unknown/WDOE	
AR 1.3.3 0009	1.3.3 Slag Studies	Results of leach test performed on IMP slag	6/21/83	3	L.W. Lindquist/ASARCO	A.L. Labbe/ASARCO	
	1.4 Background-City of Tacoma Water Sampling/Violations						
AR 1.4 0001	1.4 Background-City of Tacoma Water Sampling/Violations	Memorandum/Sampling of Tacoma water supply	3/1/78	1	Daniel Tangarone/EPA	Ronald Kreizenbeck/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 1.4 0002	1.4 Background-City of Tacoma Water Sampling/Violations	Memorandum/Tacoma water supply sampling trip	3/13/78	1	Bill Schmidt/EPA	Mark Hooper/EPA, Region X	
AR 1.4 0003	1.4 Background-City of Tacoma Water Sampling/Violations	City of Tacoma sewer sampling data	3/27/79	6	ASARCO and City of Tacoma	Unknown	
AR 1.4 0004	1.4 Background-City of Tacoma Water Sampling/Violations	Report on arsenic content in sewage	6/20/80	3	C.E. Hochmuth/ASARCO	Unknown	
AR 1.4 0005	1.4 Background-City of Tacoma Water Sampling/Violations	Assay of water samples taken by City of Tacoma	7/22-24/81	1	Unknown/City of Tacoma	Unknown	
AR 1.4 0006	1.4 Background-City of Tacoma Water Sampling/Violations	Report of Analysis	Summer 1982	4	Unknown/City of Tacoma	Unknown	
AR 1.4 0007	1.4 Background-City of Tacoma Water Sampling/Violations	Assay of water samples taken by City of Tacoma	5/10-12/83	3	Unknown/City of Tacoma	Unknown	
AR 1.4 0008	1.4 Background-City of Tacoma Water Sampling/Violations	Letter/Heavy metals analysis	7/20/83	2	Michael Price/City of Tacoma	Unknown/ASARCO	
AR 1.4 0009	1.4 Background-City of Tacoma Water Sampling/Violations	Sewer water, sewage holding tank, and effluent outfall sampling data	1981-1984	9	City of Tacoma and ASARCO	Unknown	
AR 1.4 0010	1.4 Background-City of Tacoma Water Sampling/Violations	Heavy metals analysis	11/3/83	1	Christopher Getchell/City of Tacoma	Chandler Odell/City of Tacoma	
AR 1.4 0011	1.4 Background-City of Tacoma Water Sampling/Violations	Analysis of Tacoma city water with attached sampling data	Unknown	5	Unknown	Unknown	

1.5 Background - Shoreline Dangerous Waste/Resource Conservation and Recovery Act (RCRA)

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
	1.5.1 Correspondence						
AR 1.5.1 0001	1.5.1 Correspondence	Memorandum/Information on solid waste given to contractor for OSWMP headquarters	4/24/74	1	Tobias Hegdahl/EPA	Douglas Hansen/EPA	
AR 1.5.1 0002	1.5.1 Correspondence	Memorandum/Uncontrolled hazardous waste site project	12/28/79	1	Roger Fuentes/EPA	Files/EPA	
AR 1.5.1 0003	1.5.1 Correspondence	Letter/Disposal of 60 drums of asbestos roof coating with attached photographs	11/7/80	6	Jim Oberlander/WDOE	Larry Lindquist/ASARCO	
AR 1.5.1 0004	1.5.1 Correspondence	Letter/Cost of closure and post-closure care and liability insurance	7/13/82	2	James Woods/ASARCO	Carrie Adams/EPA	
AR 1.5.1 0005	1.5.1 Correspondence	Letter/ASARCO's current status under RCRA regulations and #WAD0101876 Part A Application	8/20/82	2	Tobias Hegdahl/EPA	James Woods/ASARCO	
AR 1.5.1 0006	1.5.1 Correspondence	Notes/RCRA inspection	3/29/83	2	Unknown	Unknown	
AR 1.5.1 0007	1.5.1 Correspondence	Letter/RCRA and State Dangerous Waste Interim Status Standards Inspection	6/8/83	4	Will Abercrombie/WDOE	C.H. Bendixen/ASARCO	
AR 1.5.1 0008	1.5.1 Correspondence	Letter/Applicability of WDOE Dangerous Waste Regulations	6/29/83	6	L.W. Lindquist/ASARCO	Bruce Cameron/WDOE	
AR 1.5.1 0009	1.5.1 Correspondence	Letter/Demolition and removal of buildings and equipment at smelter	11/15/84	3	L.W. Lindquist/ASARCO	Frank Monahan/WDOE	
AR 1.5.1 0010	1.5.1 Correspondence	Memorandum/Phone call regarding unanswered questions during dangerous waste inspection on 1/31/85	2/1/85	1	Will Abercrombie/WDOE	Files/WDOE	
AR 1.5.1 0011	1.5.1 Correspondence	Letter Report/Dangerous Waste Interim Status Standards Compliance Inspection	3/29/85	40	Will Abercrombie/WDOE	Curtis Dungey/ASARCO	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 1.5.1 0012	1.5.1 Correspondence	Letter/Dangerous waste inspection conducted on 1/31/85	4/15/85	8	Curtis Dungey/ASARCO	Will Abercrombie/WDOE	
AR 1.5.1 0013	1.5.1 Correspondence	Letter/Will Abercrombie letter/inspection report dated 3/29/85	4/17/85	2	C. John Newlands/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	Mark Horton/WDOE	
AR 1.5.1 0014	1.5.1 Correspondence	Letter/WDOE (Will Abercrombie) letter dated 3/29/85	4/30/85	6	Curtis Dungey/ASARCO	Will Abercrombie/WDOE	
AR 1.5.1 0015	1.5.1 Correspondence	Letter/Resolution of environmental problems surrounding plant shutdown	5/1/85	2	Mark Horton/WDOE	C. John Newlands/ Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	
AR 1.5.1 0016	1.5.1 Correspondence	Letter/Shipment of furnace bottoms and shell slag	5/9/85	2	Michael Levanger/ASARCO	Will Abercrombie/WDOE	
AR 1.5.1 0017	1.5.1 Correspondence	Letter/Sampling plan for influent to the foul water evaporation system with attached Notification of Dangerous Waste Activities and letter to Lynda Brothers/WDOE from C.E. Dungey/ASARCO dated 5/9/85	5/15/85	5	Curtis Dungey/ASARCO	Will Abercrombie/WDOE	
AR 1.5.1 0018	1.5.1 Correspondence	Letter/Shipment of furnace bottoms and shell slag	5/16/85	1	Richard Pierce/WDOE	Michael Levanger/ASARCO	
AR 1.5.1 0019	1.5.1 Correspondence	Letter/WDOE (Will Abercrombie) to ASARCO dated 3/29/85	5/31/85	3	Curtis Dungey/ASARCO	Will Abercrombie/WDOE	
AR 1.5.1 0020	1.5.1 Correspondence	Letter/Shipment of furnace bottoms and shell slag	6/8/85	1	M.R. Levanger/ASARCO	Richard Pierce/WDOE	
AR 1.5.1 0021	1.5.1 Correspondence	Letter/Shipment of furnace bottoms and shell slag	7/19/85	2	Richard Pierce/WDOE	Michael Levanger/ASARCO	
AR 1.5.1 0022	1.5.1 Correspondence	Letter/PCB inspection conducted at ASARCO	9/19/85	1	Gil Haselberger/EPA	Curtis Dungey/ASARCO	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 1.5.1 0023	1.5.1 Correspondence	Letter/Shipment of furnace by-products	11/5/85	2	Curtis Dungey/ASARCO	Will Abercrombie/WDOE	
AR 1.5.1 0024	1.5.1 Correspondence	Letter/Shipment of scrap steel	11/14/85	2	Curtis Dungey/ASARCO	Will Abercrombie/WDOE	
AR 1.5.1 0025	1.5.1 Correspondence	Letter/Transport of dangerous waste materials with attached letter from Anthony Paulson/NOAA to Howard Steely/WDOE and report entitled "Dissolved Trace Metals in the Surface Waters of Puget Sound"	11/19/85	14	Curtis Dungey/ASARCO	Will Abercrombie/WDOE	
AR 1.5.1 0026	1.5.1 Correspondence	Letter/Exceedance of EP toxicity for arsenic at smelter and attached sampling data	4/9/86	3	Dom Reale/WDOE	Curtis Dungey/ASARCO	
	1.5.2 Permits						
AR 1.5.2 0001	1.5.2 Permits	Notification of Hazardous Waste Activity with attached report by ASARCO	8/15/80	11	Armand Labbe/ASARCO	Unknown/EPA	
AR 1.5.2 0002	1.5.2 Permits	Part A of Application for Hazardous Waste Permit with attached letter from ASARCO to EPA and maps	11/19/80	11	K.D. Loughridge/ASARCO	RCRA Activities/EPA	
AR 1.5.2 0003	1.5.2 Permits	Part A of Application for Hazardous Waste Permit	2/4/82	2	A.L. Labbe/ASARCO	RCRA Activities/EPA	
	1.5.3 Sampling Data						
AR 1.5.3 0001	1.5.3 Sampling Data	Dimethylaniline samples	10/20/82	4	D. Huntamer/WDOE	Merley McCall/WDOE	
AR 1.5.3 0002	1.5.3 Sampling Data	Dimethylaniline information	4/20/83	1	Will Abercrombie/WDOE	Files/WDOE	
AR 1.5.3 0003	1.5.3 Sampling Data	Data summary on heavy metals	1/12/84	1	R. Pierce/WDOE	Files/WDOE	
AR 1.5.3 0004	1.5.3 Sampling Data	Data summary on heavy metals	11/15/84	3	R. Pierce/WDOE	Files/WDOE	
AR 1.5.3 0005	1.5.3 Sampling Data	Data summaries on heavy metals with Request for Analysis	2/5/85	8	R. Pierce/WDOE	Files/WDOE	

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ASA218

0051

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 1.5.3 0006	1.5.3 Sampling Data	Data summaries on heavy metals with Request for Analysis	2/5/85	17	R. Pierce/WDOE	Files/WDOE	
AR 1.5.3 0007	1.5.3 Sampling Data	Data summaries on heavy metals with Request for Analysis	3/8/85	26	R. Pierce/WDOE	Files/WDOE	
AR 1.5.3 0008	1.5.3 Sampling Data	Analysis of ASARCO soil and water samples	5/29/85	4	Dick Huntamer/WDOE	Will Abercrombie and Rick Pierce/WDOE	
AR 1.5.3 0009	1.5.3 Sampling Data	Data summaries on heavy metals	2/3/86	6	Dom Reale/WDOE	Files/WDOE	
AR 1.5.3 0010	1.5.3 Sampling Data	Data summaries on heavy metals	2/3/86	6	Dom Reale/WDOE	Files/WDOE	
AR 1.5.3 0011	1.5.3 Sampling Data	Granulated slag blasting material	Unknown	1	Eric Crecelius/Battelle	Unknown	
AR 1.5.3 0012	1.5.3 Sampling Data	Request for Analysis and Chain-of-Custody Sheets	2/5/86	3	Dom Reale/WDOE	Files/WDOE	
	1.5.4 Site Inspection Reports						
AR 1.5.4 0001	1.5.4 Site Inspection Reports	Determine existence and status of hazardous wastes and brief history of plant	10/17/79	2	Ben Eusebio/EPA	Larry Sims/EPA	
AR 1.5.4 0002	1.5.4 Site Inspection Reports	Potential Hazardous Waste Site Inspection Report	12/28/79	11	Roger Fuentes/EPA	Files/EPA	
AR 1.5.4 0003	1.5.4 Site Inspection Reports	Pre-RCRA inspection tour of facility	3/4/83	1	Norm Glenn, Darrel Anderson, and Will Abercrombie/WDOE	Files/WDOE	
AR 1.5.4 0004	1.5.4 Site Inspection Reports	Update on effort to keep uncontaminated storm water out of outfalls	11/15/84	7	R. Pierce and Mary R./WDOE	Files/WDOE	
AR 1.5.4 0005	1.5.4 Site Inspection Reports	Site contamination issues	1/31/85	39	W. Abercrombie and R. Pierce/WDOE	Files/WDOE	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 1.5.4 0006	1.5.4 Site Inspection Reports	Air emissions	7/25/85	3	Will Abercrombie/WDOE, Carol Thompson/EPA, and Jim Noland and Jim Harris/PSAPCA	Files/WDOE	
	1.5.5 Generator Annual Dangerous Waste Reports						
AR 1.5.5 0001	1.5.5 Generator Annual Dangerous Waste Reports	Generator Annual Dangerous Waste Report for 1982	2/25/83	3	L.W. Lindquist/ASARCO	WDOE	
AR 1.5.5 0002	1.5.5 Generator Annual Dangerous Waste Reports	Generator Annual Dangerous Waste Report for 1983	2/15/84	2	L.W. Lindquist/ASARCO	WDOE	
AR 1.5.5 0003	1.5.5 Generator Annual Dangerous Waste Reports	Generator Annual Dangerous Waste Report for 1985	2/28/86	9	Curtis Dungey/ASARCO	WDOE	
	1.5.6 Compliance Checklist/Questionnaire						
AR 1.5.6 0001	1.5.6 Compliance Checklist/Questionnaire	Compliance checklist with attached inspection report dated 3/29/83	3/29/83	10	Will Abercrombie and Rick Pierce/WDOE and Dave Tetta/EPA	Files/WDOE	
AR 1.5.6 0002	1.5.6 Compliance Checklist/Questionnaire	Compliance checklist/questionnaire	1/31/85	25	Will Abercrombie and Rick Pierce/WDOE	Files/WDOE	
AR 1.5.6 0003	1.5.6 Compliance Checklist/Questionnaire	Compliance checklist/questionnaire	1/31/85	27	Unknown/WDOE	Files/WDOE	
	1.5.7 Violations						
AR 1.5.7 0001	1.5.7 Violations	RCRA Violation Assessment with attached inspection report	3/29/83	19	Will Abercrombie/WDOE and Dave Tetta/EPA	Unknown/WDOE	

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0059

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
1.6 Preliminary Assessment Report							
AR 1.6 0001	1.6 Preliminary Assessment Report	Potential Hazardous Waste Site Identification and Preliminary Assessment	7/79	4	J.W. Fey/EPA	Files/EPA	
AR 1.6 0002	1.6 Preliminary Assessment Report	Potential Hazardous Waste Site Identification and Preliminary Assessment	12/27/79	4	Roger Fuentes/EPA	Files/EPA	
AR 1.6 0003	1.6 Preliminary Assessments Report	Inventory-Possible Sources of Hazardous Waste	Unknown	2	Unknown/EPA	Files/EPA	
AR 1.6 0004	1.6 Preliminary Assessments Report	Hazardous Waste Sites Evaluation of Section 311 Cleanup Requirements - Environmental Emergency Section	2/25/80	2	R. Rullner/TATL	EPA	

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ASA218

0040

SECTION 2.0 OFFSITE RESPONSE ACTION - STATE LEAD REMEDIAL INVESTIGATION (RI)/RUSTON-VASHON TASK

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
2.1	Correspondence						
AR 2.1 0001	2.1 Correspondence	Letter/Requests for local agencies to serve on Commencement Bay Air Work Group (Air Work Group)	12/9/81	4	Clark Gaulding/EPA, Region X	Peter Hildebrant/ Washington Department of Ecology (WDOE), Arthur Dammkoehler, Air Pollution Control Officer/Puget Sound Air Pollution Control Agency (PSAPCA), and Don Oliver/Tacoma Pierce County Health Department (TPCHD)	
AR 2.1 0002	2.1 Correspondence	Letter/Service on Air Work Group	12/16/81	1	Arthur Dammkoehler/PSAPCA	Clark Gaulding/EPA	
AR 2.1 0003	2.1 Correspondence	Letter/Service on Air Work Group	12/24/81	1	Donald Oliver/TPCHD	Clark Gaulding/EPA	
AR 2.1 0004	2.1 Correspondence	Letter/Toxic wastes concerns with attached tabulation of toxic metals	2/25/82	33	A.R. Dammkoehler/PSAPCA	Clark Gaulding/EPA	
AR 2.1 0005	2.1 Correspondence	Letter/Identification of sources and locations of deposits of hazardous materials with attached list of chemicals to be reviewed	4/9/82	2	G.A. Erickson/Infometrix	Unknown	
AR 2.1 0006	2.1 Correspondence	Memorandum/Implications of past and present air emissions	11/3/82	3	Courtney Reardon/EPA	John Spencer/EPA, Region X	
AR 2.1 0007	2.1 Correspondence	Memorandum/Description of issues at ASARCO	2/9/83	14	Mark Hooper/EPA, Region X	Chuck Findley/EPA, Region X	
AR 2.1 0008	2.1 Correspondence	Memorandum/Phone call regarding the use of arsenical pesticides near ASARCO	3/24/83	1	Dana Davoli/EPA, Region X	Files/EPA	

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0041

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Loca
AR 2.1 0009	2.1 Correspondence	Memorandum/Review of materials on ASARCO	4/6/83	5	Medical Epidemiologist/ Public Health Service Centers for Disease Control (CDC)	Georgi Jones/EPA	
AR 2.1 0010	2.1 Correspondence	Letter/Support for the analysis of urinary arsenic levels of children	5/24/83	1	Arthur Dammkoehler/PSAPCA	L. Edwin Coate/EPA, Region X	
AR 2.1 0011	2.1 Correspondence	Letter/Support for the analysis of urinary arsenic levels of children	6/14/83	2	L. Edwin Coate/EPA	Arthur Dammkoehler/ PSAPCA	
AR 2.1 0012	2.1 Correspondence	Letter/Analysis of arsenic data from soil sampling and pertinent factors in designing new soil study with attached sampling data	8/24/83	7	Jeanne Simpson/Battelle	Gregory Glass/Dames and Moore	
AR 2.1 0013	2.1 Correspondence	Comments on press release and data received at 8/23/83 meeting	8/30/83	3	Alexandra Smith/EPA, Region X	John Beare/Washington Division of Safety and Health Services (DSHS)	
AR 2.1 0014	2.1 Correspondence	Letter/Arsenic contamination of soil and crops	9/26/83	2	Edwin Woolson/U.S. Department of Agriculture	Dana Davoli/EPA	
AR 2.1 0015	2.1 Correspondence	Letter/Deposition monitoring for heavy metals	12/29/83	3	Alexandra Smith/EPA	Herbert Volchok/U.S. Department of Energy	
AR 2.1 0016	2.1 Correspondence	Memorandum/Request for assistance with laboratory procedures	2/9/84	2	Glenn Schweitzer/EPA	Alexandra Smith/EPA	
AR 2.1 0017	2.1 Correspondence	Memorandum/Basic direction of Ruston-Vashon studies	4/9/84	2	Chuck Kleeberg/EPA	Files/EPA	CONFIDENTIAL - located at EPA Region 10, Seattle WA
AR 2.1 0018	2.1 Correspondence	Notes/Review of Air Work Group studies	12/13/84	7	Unknown	Files/EPA	
AR 2.1 0019	2.1 Correspondence	Memorandum/Request for CDC review of monitoring requirements and health protection levels	7/12/85	1	Carol Thompson/EPA, Region X	Georgi Jones/CDC	

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0042

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Loca
AR 2.1 0020	2.1 Correspondence	Letter/Proposed analysis of Tacoma area men regarding smoking and lung cancer with attached analysis of data regarding Tacoma area women	9/16/85	6	Floyd Frost/DSHS	Joel Mulder/EPA	
AR 2.1 0021	2.1 Correspondence	Letter/Slag use in residential areas and attached sampling data	1/14/86	3	Doug Pierce/TPCHD	Dana Davoli/EPA	
AR 2.1 0022	2.1 Correspondence	Notes/Urine sampling	6/20/86	2	Unknown/EPA	Files/EPA	
AR 2.1 0023	2.1 Correspondence	Memorandum/Radon levels at Tacoma Yacht Club	12/9/86	2	Gordon Ziegler/DSHS	Robert Mooney/DSHS	
AR 2.1 0024	2.1 Correspondence	Letter/Report on radon study at Tacoma Yacht Club	5/26/87	5	Robert Mooney/DSHS	Curtis Dungey/ASARCO	
AR 2.1 0025	2.1 Correspondence	Notes/Lecture by Sam Milham regarding arsenic studies	Unknown	5	Unknown	Files/EPA	
2.2	Sampling Protocol						
AR 2.2 0001	2.2 Sampling Protocol	Description of methodology used to analyze plant materials for arsenic and cadmium	8/3/83	2	Mike Nelson/Laucks Testing Laboratories	Tom Rogers/TPCHD	
AR 2.2 0002	2.2 Sampling Protocol	Protocols for sampling particulate materials	3/1/86	18	Robert Barrick/Tetra Tech, Inc.	Jim Krull/WDOE	
AR 2.2 0003	2.2 Sampling Protocol	Collection of surficial sediments for physical and chemical variables	3/86	5	EPA	Unknown	
AR 2.2 0004	2.2 Sampling Protocol	Grab sampling	Unknown	9	EPA	Unknown	
AR 2.2 0005	2.2 Sampling Protocol	Colorimetric Determination of Arsenic	Unknown	6	Unknown	Unknown	
2.3	Sampling Data						
AR 2.3 0001	2.3 Sampling Data	Ambient air arsenic monitoring data	1977-1982	27	Unknown	Unknown	

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E900

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Loca
AR 2.3 0002	2.3 Sampling Data	Memorandum/ASARCO data and related projects with attached data sheets and report on baghouse roaster	1979	7	Arnold Gahler/EPA	Dana Davoli/EPA	CONFIDENTIAL - located at EPA Region 10, Seattle WA
AR 2.3 0003	2.3 Sampling Data	Soil analysis data on arsenic, copper, and zinc values	9/15/82	19	A.R. Halvorson/Cooperative Extension Washington State University	Kim Lowrey/TPCHD	CONFIDENTIAL - located at EPA Region 10, Seattle WA
AR 2.3 0004	2.3 Sampling Data	Analysis of garden vegetables	3/31/83	3	Ann Bailey/AT Inc.	Jane Lee/King County Health Department (KCHD)	
AR 2.3 0005	2.3 Sampling Data	Analysis of Tacoma soil samples	4/29/83	4	Vincent Keller/ASARCO	Don Robbins/ASARCO	
AR 2.3 0006	2.3 Sampling Data	Arsenic and cadmium results from Vashon study	6/29/83	4	James Carr/ J.R.Carr/Associates	Greg Glass/Dames and Moore	
AR 2.3 0007	2.3 Sampling Data	Schoolchildren urinary arsenic levels	8/83	13	Unknown	Unknown	CONFIDENTIAL - located at EPA Region 10, Seattle WA
AR 2.3 0008	2.3 Sampling Data	Analysis of garden vegetables	8/18/83	2	AT Inc	Valerie Winslow/Hill and Knowlton	
AR 2.3 0009	2.3 Sampling Data	Preliminary results of 9/83 sampling at ASARCO	10/19/83	2	Mark Hooper/EPA	Mike Johnston/EPA	
AR 2.3 0010	2.3 Sampling Data	Urinary arsenic results for Tacoma area children	11/28/83	41	Donald Robbins/ASARCO	Doug Pierce/TPCHD	CONFIDENTIAL - located at EPA Region 10, Seattle WA
AR 2.3 0011	2.3 Sampling Data	Soil sampling results of Vashon Island property	2/7/84	1	Unknown	Unknown	

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0064

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Loca
AR 2.3 0012	2.3 Sampling Data	Reference used in developing maps of soil sample results with attached sampling data	4/20/84	7	James Mullins/EPA	Dana Davoli/EPA	
AR 2.3 0013	2.3 Sampling Data	Soil sampling analysis report	6/8/84	1	John Blunt/AT	Confidential	CONFIDENTIAL - located at EPA Region 10, Seattle WA
AR 2.3 0014	2.3 Sampling Data	Urinary arsenic data	8/6/84	4	Unknown	Unknown	CONFIDENTIAL - located at EPA Region 10, Seattle WA
AR 2.3 0015	2.3 Sampling Data	96-hour bioassay information	4/15/85	2	Don Kjosness/WDOE	Rick Pierce/WDOE	
AR 2.3 0016	2.3 Sampling Data	Soil sampling data	7/2/86	1	Unknown	Unknown	
AR 2.3 0017	2.3 Sampling Data	Receiving water sampling data	Unknown	3	Unknown/EPA	Unknown	
AR 2.3 0018	2.3 Sampling Data	Arsenic, lead, and cadmium sampling data	Unknown	1	Unknown	Unknown	CONFIDENTIAL - located at EPA Region 10, Seattle WA
AR 2.3 0019	2.3 Sampling Data	Urinary arsenic levels after seafood ingestion	Unknown	10	Unknown	Unknown	
2.4 Reviews of Available Data							
2.4.1 Summary of Information on Arsenic and Cadmium							
AR 2.4.1 0001	2.4.1 Summary of Information on Arsenic and Cadmium	Air Work Group Summary of Information on Arsenic and Cadmium Relative to Tacoma, WA	Post-1982	22	Kimberly Lowry/TPCHD, Gerald Erickson and Terri Silver/Infometrix	Air Work Group	
2.4.2 Cadmium Data Assessments							
AR 2.4.2 0001	2.4.2 Cadmium Data Assessments	Assessment of available environmental and biological cadmium data	Post-1982	24	Unknown/TPCHD	Unknown/WDOE	

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0045

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Loca
AR 2.4.2 0002	2.4.2 Cadmium Data Assessments	Cadmium in the Puget Sound area	Post-1982	12	Unknown	Unknown	
	2.4.3 Lead Data Assessments						
AR 2.4.3 0001	2.4.3 Lead Data Assessments	Review of available lead data in the vicinity of the smelter	11/30/84	14	Greg Glass/Dames & Moore	Air Work Group	
	2.4.4 Historical Data Review						
AR 2.4.4 0001	2.4.4 Historical Data Review	Review of historical data regarding Tacoma area	5/15/84	78	Lincoln Polissar/University of Washington	Air Work Group	
	2.4.5 Urinary Arsenic Levels of ASARCO-Area Residents						
AR 2.4.5 0001	2.4.5 Urinary Arsenic Levels of ASARCO-Area Residents	Schoolchildren urinary arsenic values	6/19/75	1	M.O. Varner/ASARCO	A.L. Labbe, Plant Manger/ASARCO	
AR 2.4.5 0002	2.4.5 Urinary Arsenic Levels of ASARCO-Area Residents	Schoolchildren urinary arsenic values	6/23/75	2	Rodwell Watson/ASARCO	M.O. Varner/ASARCO	
AR 2.4.5 0003	2.4.5 Urinary Arsenic Levels of ASARCO-Area Residents	Schoolchildren urinary arsenic values	8/4/75	1	Rodwell Watson/ASARCO	M.O. Varner/ASARCO	
AR 2.4.5 0004	2.4.5 Urinary Arsenic Levels of ASARCO-Area Residents	Schoolchildren urinary arsenic values	9/8/75	6	M.O. Varner/ASARCO	Stuart Peoples/ University of California	CONFIDENTIAL - located at EPA Region 10 Seattle WA
AR 2.4.5 0005	2.4.5 Urinary Arsenic Levels of ASARCO-Area Residents	Schoolchildren urinary arsenic values	4/15/76	5	M.O. Varner/ASARCO	A.L. Labbe/ASARCO	
AR 2.4.5 0006	2.4.5 Urinary Arsenic Levels of ASARCO-Area Residents	Schoolchildren urinary arsenic values	5/20/76	2	Albert Robbins and Stan Comer/DSHS	Terry Strong/DSHS	CONFIDENTIAL - located at EPA Region 10 Seattle WA

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Loca
AR 2.4.5 0007	2.4.5 Urinary Arsenic Levels of ASARCO-Area Residents	Schoolchildren urinary arsenic values	8/25/76	5	Unknown	Unknown	
AR 2.4.5 0008	2.4.5 Urinary Arsenic Levels of ASARCO-Area Residents	Schoolchildren urinary arsenic values	8/27/76	2	T.R. Strong/DSHS	A.L. Labbe/ASARCO	CONFIDENTIAL - located at EPA Region 10 Seattle WA
AR 2.4.5 0009	2.4.5 Urinary Arsenic Levels of ASARCO-Area Residents	Schoolchildren urinary arsenic values	6/23/77	1	Rodwell Watson/ASARCO	M.O. Varner/ASARCO	
AR 2.4.5 0010	2.4.5 Urinary Arsenic Levels of ASARCO-Area Residents	Schoolchildren urinary arsenic values	6/27/77	1	Curtis Dungey/ASARCO	A.L. Labbe/ASARCO	
AR 2.4.5 0011	2.4.5 Urinary Arsenic Levels of ASARCO-Area Residents	Mean urinary arsenic level of children under 10 years of age	8/12/77	1	C.E. Dungey/ASARCO	A.L. Labbe/ASARCO	
AR 2.4.5 0012	2.4.5 Urinary Arsenic Levels of ASARCO-Area Residents	Analysis of urine sample	10/26/77	2	Confidential	Curtis Dungey/ASARCO	CONFIDENTIAL - located at EPA Region 10 Seattle WA
AR 2.4.5 0013	2.4.5 Urinary Arsenic Levels of ASARCO-Area Residents	Tacoma schoolchildren urinary arsenic excretion	7/23/80	7	Rodwell Watson/ASARCO	M.O. Varner/ASARCO	CONFIDENTIAL - located at EPA Region 10 Seattle WA
AR 2.4.5 0014	2.4.5 Urinary Arsenic Levels of ASARCO-Area Residents	Tacoma Schoolchildren urinary arsenic excretion	6/30/81	11	John Kane/ASARCO	M.O. Varner/ASARCO	CONFIDENTIAL - located at EPA Region 10 Seattle WA
AR 2.4.5 0015	2.4.5 Urinary Arsenic Levels of ASARCO-Area Residents	Corrected urinary arsenic data for schoolchildren	7/7/82	1	Ken Nelson/ASARCO	Samuel Milham/DSHS	

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0041

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Loca
AR 2.4.5 0016	2.4.5 Urinary Arsenic Levels of ASARCO-Area Residents	Corrected urinary arsenic data for schoolchildren who ate seafood with attached letter from Samuel Milham to Ken Nelson dated 7/1/82	7/7/82	2	John Kane/ASARCO	M.O. Varner/ASARCO	
AR 2.4.5 0017	2.4.5 Urinary Arsenic Levels of ASARCO-Area Residents	Urinary arsenic levels of Ruston Elementary schoolchildren	11/19/82	3	Samuel Milham/DSHS	Michael Varner/ASARCO	
AR 2.4.5 0018	2.4.5 Urinary Arsenic Levels of ASARCO-Area Residents	Memorandum/Urinary arsenic levels in Ruston elementary schoolchildren with attached sampling data	11/29/82	7	A.R. Dammkoehler/PSAPCA	Michael Johnston/EPA, Region X	
AR 2.4.5 0019	2.4.5 Urinary Arsenic Levels of ASARCO-Area Residents	Memorandum/Historical urinary arsenic analyses	9/7/83	3	Floyd Frost and Kristine Wicklund/DSHS	Jim Krull/WDOE	
AR 2.4.5 0020	2.4.5 Urinary Arsenic Levels of ASARCO-Area Residents	Memorandum/Scope of Work for Historical Urinary Arsenic Analyses	9/16/83	2	Jim Krull/WDOE	Floyd Frost and Kristine Wicklund/DSHS	
AR 2.4.5 0021	2.4.5 Urinary Arsenic Levels of ASARCO-Area Residents	Study entitled "Urinary Arsenic Levels of Residents Living Near the ASARCO Smelter, Tacoma From 1972-1983"	Post-1983	40	Kristine Wicklund and Lucy Harter/DSHS	Air Work Group	
2.5 Position Paper (Air Work Group)							
AR 2.5 0001	2.5 Position Paper (Air Work Group)	Position paper regarding arsenic and cadmium in the Tacoma Region	Post-1982	3	Air Work Group	Air Work Group	
2.6 Assessment of ASARCO Studies and Identification of Potential Investigations							
AR 2.6 0001	2.6 Assessment of ASARCO Studies and Identification of Potential Investigations	Study/Community Arsenic and Cadmium Exposures and Health: Assessment of Existing Tacoma Copper Smelter Studies and Identification of Potential Investigations	6/20/83	58	Gregory Glass/Dames and Moore and Kimberly Lowry/TPCHD	Air Work Group	
2.7 Conceptual Design Review							

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0048

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Loca
AR 2.7 0001	2.7 Conceptual Design Review	Study entitled "Commencement Bay Superfund Investigations, Ruston Task: Conceptual Design Review"	11/83	20	Gregory Glass/Dames and Moore	Air Work Group	
2.8 Boundary Studies							
AR 2.8 0001	2.8 Boundary Studies	Tacoma area isopleth study and boundary study Statement of Work	6/19/83	3	Unknown/Dames and Moore	Air Work Group	
AR 2.8 0002	2.8 Boundary Studies	Study/ASARCO Tacoma Smelter: Superfund Study Area Determination	11/83	16	Gregory Glass/Dames and Moore	Air Work Group	
AR 2.8 0003	2.8 Boundary Studies	Study/Geographic Areas for Study/Potential Remedial Action: Issues and Options	4/30/84	25	Gregory Glass/Dames and Moore	Air Work Group	
2.9 Air Monitoring Program							
2.9.1 Air Quality Analysis and Mapping of Heavy Metals							
AR 2.9.1 0001	2.9 Air Quality Analysis and Mapping of Heavy Metals	Report on air quality analysis and mapping of lead, arsenic and cadmium with attached transmittal letter from Department of Housing and Urban Development to EPA	10/80	30	G. Bradford Shea and Randy Arnold/Northwest Environmental Consultants	Department of Housing and Urban Development - Region X	
AR 2.9.1 0002	2.9 Air Quality Analysis and Mapping of Heavy Metals	Letter/Ambient heavy metals data and methodology with attached sampling data	9/13/83	8	Phil Nelson/WDOE	John Richardson/ASARCO	
2.9.2 Scope of Work (PSAPCA)							
AR 2.9.2 0001	2.9.2 Scope of Work	Letter/Prospective sampling sites with attached Scope of Work	7/1/83	5	Arthur Dammkoehler/PSAPCA	Bob Goodman/WDOE	
AR 2.9.2 0002	2.9.2 Scope of Work	Memorandum/Additional locations of air monitoring sites	7/18/83	2	Bob Goodman/WDOE	Air Work Group	
AR 2.9.2 0003	2.9.2 Scope of Work	Letter/Additional ambient air monitoring	8/4/83	2	Dana Davoli/EPA	Arthur Dammkoehler/PSAPCA	

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0049

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Loca
AR 2.9.2 0004	2.9.2 Scope of Work	Revised Scope of Work	8/8/83	4	A.R. Dammkoehler/PSAPCA	Dana Davoli/EPA	
	2.9.3 Critique of ASARCO Air Monitoring						
AR 2.9.3 0001	2.9.3 Critique of ASARCO Air Monitoring	Review of ASARCO ambient arsenic sampling program with attached transmittal letter from ASARCO to Kim Lowry of Air Work Group	1/3/84	41	Jon Schweiss/EPA, Region X	Dean Wilson/EPA	
2.10 Soil and Garden Studies							
	2.10.1 U.S. Urban Soil Monitoring Studies (1973/79)						
AR 2.10.1 0001	2.10.1 U.S. Urban Soil Monitoring Studies	Materials on soil concentrations of arsenic, mercury, cadmium, and lead in Tacoma soils requested by Dana Davoli with attached memorandum dated 1/10/83 from Ann Carey	1980/81	50	Ann Carey/EPA	Dana Davoli/EPA-Air Work Group	
AR 2.10.1 0002	2.10.1 U.S. Urban Soil Monitoring Studies	Records for Tacoma sites sampled in 1979 with attached letter from Ann Carey of EPA	8/9/83	6	Ann Carey/EPA	Gregory Glass/Dames and Moore	
AR 2.10.1 0003	2.10.1 U.S. Urban Soil Monitoring Studies	Memorandum/Analyses by EPA St. Louis Laboratory of Tacoma soil samples	8/23/83	3	Alexandra Smith/EPA	Edwin Johnson/EPA	
AR 2.10.1 0004	2.10.1 U.S. Urban Soil Monitoring Studies	Memorandum/Analyses by EPA St. Louis Laboratory of Tacoma soil samples	12/30/83	1	Edwin Johnson/EPA	Alexandra Smith/EPA	
AR 2.10.1 0005	2.10.1 U.S. Urban Soil Monitoring Studies	Memorandum/Analyses by EPA St. Louis Laboratory of Tacoma soil samples	10/11/84	11	Steven Schatzow/EPA	Charles Findley/EPA	
AR 2.10.1 0006	2.10.1 U.S. Urban Soil Monitoring Studies	Memorandum/Completion of analyses by EPA St. Louis Laboratory of Tacoma soil samples	10/23/84	11	Edwin Johnson/EPA	Alexandra Smith/EPA	
AR 2.10.1 0007	2.10.1 U.S. Urban Soil Monitoring Studies	Memorandum/Analyses by EPA St. Louis Laboratory of Tacoma soil samples	11/30/84	1	Chuck Findley/EPA	Steven Schatzow/EPA	
AR 2.10.1 0008	2.10.1 U.S. Urban Soil Monitoring Studies	Memorandum/Assessment of soil time trend data	12/10/84	11	Greg Glass/Dames and Moore	Doug Pierce/TPCHD	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Loca
AR 2.10.1 0009	2.10.1 U.S. Urban Soil Monitoring Studies	Study/Heavy Metal Concentrations in Soils in Five United States Cities, 1972 Urban Soils Monitoring Program	Unknown	21	Ann Carey, Jeanne Gowen, Terrell Forehand, Han Tai, and G. Bruce Wiersma	Unknown	
AR 2.10.1 0010	2.10.1 U.S. Urban Soil Monitoring Studies	Memorandum/Cadmium and arsenic analyses of Tacoma soil samples	1984	12	Jim Hughes/Unknown	Kim Lowry/Air Work Group	
AR 2.10.1 0011	2.10.1 U.S. Urban Soil Monitoring Studies	Study/Metals in Soils: A Brief Summary	Unknown	11	Ellen Barrett/EPA	Unknown	
AR 2.10.1 0012	2.10.1 U.S. Urban Soil Monitoring Studies	Concentrations of cadmium in urban soil	1973-76	2	EPA	EPA	
AR 2.10.1 0013	2.10.1 U.S. Urban Soil Monitoring Studies	National soils monitoring program data by site	1973	41	EPA	EPA	
AR 2.10.1 0014	2.10.1 U.S. Urban Soil Monitoring Studies	Results of samples collected in 1979 plotted on a base map	1988	1	Black & Veatch	EPA	
AR 2.10.1 0015	2.10.1 U.S. Urban Soil Monitoring Studies	Results of samples collected in 1979 plotted on a base map	1988	1	Black & Veatch	EPA	
	2.10.2 Arsenic and Cadmium Levels in Garden Soils (TPCHD)						
AR 2.10.2 0001	2.10.2 Arsenic and Cadmium Levels in Garden Soils	Study/Arsenic and Cadmium Levels Found in Garden Soils in Tacoma, WA	4/83	16	Kimberly Lowry/TPCHD	Air Work Group	
	2.10.3 Evaluation of Movement of Heavy Metals in Tacoma Soil Profiles (TPCHD)						
AR 2.10.3 0001	2.10.3 Evaluation of Movement of Heavy Metals in Tacoma Soil Profiles	Statement of Work/Fate of soil arsenic initial evaluation of leaching	1/3/84	9	Unknown	Unknown	
AR 2.10.3 0002	2.10.3 Evaluation of Movement of Heavy Metals in Tacoma Soil Profiles	Study/Evaluation of the Movement of Arsenic, Cadmium, and Lead in Tacoma Soil Profiles	1/85	19	E.A. Crecelius, C.W. Apts, and O.A. Cotter/Battelle	Air Work Group - TPCHD	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Loca
2.11 Arsenic Ingestion Studies							
AR 2.11 0001	2.11 Arsenic Ingestion Studies	Letter report discussing contribution of seafood to urinary arsenic	12/18/86	8	David Kalman/University of Washington	David Bradley/WDOE	
AR 2.11 0002	2.11 Arsenic Ingestion Studies	Study/Preliminary Arsenic Exposure Assessment Ruston/Vashon	6/30/87	16	Rick Branchflower/TPCHD	Air Work Group	
AR 2.11 0003	2.11 Arsenic Ingestion Studies	Study/Urinary Arsenic Survey North Tacoma, WA	5/88	50	Unknown/Black and Veatch and TPCHD	Air Work Group and WDOE	
2.12 Miscellaneous Studies							
AR 2.12 0001	2.12 Miscellaneous Studies	Network biological monitoring using honey bees study with attached report on goals and objectives	9/82	73	Unknown/Corvallis Environmental Research Laboratory	Unknown/EPA	
AR 2.12 0002	2.12. Miscellaneous Studies	Letter to bee keepers discussing bee monitoring	11/22/82	10	Jerry Bromenshenk/ University of Montana	Beekeepers	
AR 2.12 0003	2.12. Miscellaneous Studies	Memorandum/Phone call regarding funding for bee monitoring	3/18/83	2	Dana Davoli/EPA	Files/EPA	
AR 2.12 0004	2.12 Miscellaneous Studies	Letter/Investigations of heavy metals in bees in Puget Sound	3/20/83	6	Jerry Bromenshenk/ University of Montana	Dana Davoli/EPA	
AR 2.12 0005	2.12. Miscellaneous Studies	Letter/Bee monitoring with attached proposal for study	4/4/83	4	Jerry Bromenshenk/ University of Montana	Dana Davoli/EPA	
AR 2.12 0006	2.12. Miscellaneous Studies	Memorandum/Funding for proposed bee study	5/11/83	1	Alexandra Smith/EPA	Rufus Morison/EPA	
AR 2.12 0007	2.12 Miscellaneous Studies	Statement of Work for arsenic speciation study	10/83	12	Unknown	Air Work Group	
AR 2.12 0008	2.12 Miscellaneous Studies	Pollution Monitoring of Puget Sound with Honey Bees	11/7/83	3	J.J. Bromenshenk and S.R. Carlson/University of Montana and J.C. Simpson and J.M. Thomas/Pacific Northwest Laboratory	Air Work Group	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Loca
AR 2.12 0009	2.12 Miscellaneous Studies	Potential Arsenic Emissions From Road and Field Dust	2/84	25	Jay Willenberg and Alan Butler/Unknown	Air Work Group and WDOE	
AR 2.12 0010	2.12 Miscellaneous Studies	Memorandum/Additional funds for bee monitoring	6/8/84	1	Rufus Morison/EPA	David Osterman/EPA	
AR 2.12 0011	2.12 Miscellaneous Studies	Concentration and Speciation of Arsenic in Biota	2/85	18	E.A Crecelius and C.W. Apts/Battelle	Air Work Group and TPCHD	
AR 2.12 0012	2.12 Miscellaneous Studies	Bee monitoring data	2/4/85	26	Jerry Bromenshenk/ University of Montana	Air Work Group	
AR 2.12 0013	2.12 Miscellaneous Studies	Memorandum/Report on slag use in residential areas with attached letter from TPCHD to Tacoma city manager discussing report and memorandum regarding agenda of meeting	8/20/85	9	Michael Price/City of Tacoma	Robert Sparling/City of Tacoma	
AR 2.12 0014	2.12 Miscellaneous Studies	Memorandum/Development of work plan and postponement of slag study with attached proposed design phase and sampling data	9/26/86	27	Doug Pierce/TPCHD	Slag Study Advisory Committee/Air Work Group	
AR 2.12 0015	2.12 Miscellaneous Studies	Metals Concentrations in ASARCO Discharges and Receiving Waters Following Plant Closure	8/87	29	Dale Norton and Margaret Stinson/WDOE	WDOE	
AR 2.12 0016	2.12 Miscellaneous Studies	Vashon/N.E. Tacoma drinking water survey	Unknown	4	Unknown	Air Work Group	
AR 2.12 0017	2.12 Miscellaneous Studies	Arsenic Speciation Screening in Water, Soil, Dust, Vegetables, and Fish	Unknown	31	R.M. Nicola and Doug Pierce/TPCHD	Air Work Group and WDOE	
AR 2.12 0018	2.12 Miscellaneous Studies	Arsenic in Pollen: Environmental Monitoring and Human Health	Unknown	16	J.J. Bromenshenk and M.L. Dewart/University of Montana and J.M. Thomas/Pacific Northwest Laboratory	Unknown/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Loca
AR 2.12 0019	2.12 Miscellaneous Studies	Pollution Monitoring in Puget Sound Using Honey Bees	Unknown	15	J.J. Bromenshenk and S.R. Carlson/University of Montana and J.C. Simpson and J.M. Thomas/Pacific Northwest Laboratory	Unknown/EPA	
AR 2.12 0020	2.12 Miscellaneous Studies	BEES--A Program for Using Brood Survival for Environmental Assessment	Unknown	35	Jerry Bromenshenk, Mark Dewart, John Thomas, and Marji Cochran/University of Montana	Unknown	
AR 2.12 0021	2.12 Miscellaneous Studies	Pollution Monitoring Using Networks of Honey Bees	Unknown	4	J.J. Bromenshenk, M.L. Dewart/University of Montana and J.M. Thomas/Battelle	Air Work Group	
AR 2.12 0022	2.12 Miscellaneous Studies	Memorandum/Network biological monitoring using honey bees	Unknown	2	University of Montana	Air Work Group	
2.13 Exposure Pathways Study							
2.13.1 Correspondence							
AR 2.13.1 0001	2.13.1 Correspondence	Memorandum/Superfund enforcement support with attached memorandum discussing history of ASARCO	2/9/83	4	Madeline Nawar/EPA	Robert Poss/EPA	
AR 2.13.1 0002	2.13.1 Correspondence	Memorandum/Request for exposure assessment	2/23/83	1	Gene Lucero/EPA	Elizabeth Anderson/EPA	
AR 2.13.1 0003	2.13.1 Correspondence	Memorandum/Phone call regarding interest of CDC in exposure assessment	7/13/83	2	Dana Davoli/EPA	Files/EPA	
AR 2.13.1 0004	2.13.1 Correspondence	Letter/Interest and technical abilities of School of Public Health regarding exposure assessment	7/20/83	2	Dana Davoli/EPA and Greg Glass/Dames & Moore	Gil Omen/University of Washington	
AR 2.13.1 0005	2.13.1 Correspondence	Letter/Review of Air Work Group studies and proposed exposure assessment	9/14/83	2	Ernesta Barnes/EPA, Region X	Vernon Houk/CDC	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Loca
AR 2.13.1 0006	2.13.1 Correspondence	Letter/Review of Air Work Group studies and proposed exposure assessment	9/23/83	1	Vernon Houk/CDC	Ernesta Barnes/EPA	
AR 2.13.1 0007	2.13.1 Correspondence	Memorandum/Conclusions and recommendations regarding possible studies of community arsenic exposures	10/4/83	3	Medical epidemiologist/CDC	Files/CDC	
AR 2.13.1 0008	2.13.1 Correspondence	Letter/Funding and support from CDC for exposure assessment	10/5/83	2	Alexandra Smith/EPA	Paul Wiesner/CDC	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 2.13.1 0009	2.13.1 Correspondence	Letter/Funding and support from CDC for exposure assessment	10/17/83	2	Paul Weisner/CDC	Alexandra Smith/EPA	
AR 2.13.1 0010	2.13.1 Correspondence	Letter/Request for CDC assistant to identify studies and develop designs	10/28/83	1	Jack Allard/DSHS	David Sokal/CDC	
AR 2.13.1 0011	2.13.1 Correspondence	Notes/Arsenic monitoring techniques and data	11/12/83	2	Unknown/EPA	Files/EPA	
AR 2.13.1 0012	2.13.1 Correspondence	Memorandum/Design phase of exposure assessment commencement by University of Washington	12/5/83	2	Kim Lowry/University of Washington	Air Work Group	
AR 2.13.1 0013	2.13.1 Correspondence	Request for CDC assistance for exposure assessment	12/20/83	1	Rebecca Schilling/CDC	Jack Allard/DSHS	
AR 2.13.1 0014	2.13.1 Correspondence	Comments on draft proposal for exposure assessment	3/21/84	11	Project officer/CDC	Lincoln Polissar/ University of Washington	
AR 2.13.1 0015	2.13.1 Correspondence	Letter/Needs of EPA regarding ruling on arsenic standard	5/29/84	2	Lincoln Polissar/University of Washington	Bernard Goldstein/EPA	
AR 2.13.1 0016	2.13.1 Correspondence	Letter/Review of documents received from ASARCO	6/21/85	1	Kim Lowry/University of Washington	Dana Davoli/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Loca
	2.13.2 Meetings						
AR 2.13.2 0001	2.13.2 Meetings	Monthly meeting of Air Work Group-discussed scope-of-work outline, hazardous materials, and deposition patterns of cadmium and arsenic around ASARCO	4/9/82	1	Unknown	Files/Unknown	
AR 2.13.2 0002	2.13.2 Meetings	Discussion of Air Work studies, CDC visit, and soil and air data with attached list of names and telephone numbers of all Air Work Group members	9/30/83	8	Unknown	Files/Unknown	
AR 2.13.2 0003	2.13.2 Meetings	Discussion of Air Work Group studies and ASARCO demolition	9/25/84	5	Unknown	Files/Unknown	
AR 2.13.2 0004	2.13.2 Meetings	Discussion of analysis of vegetable samples, "problem" database, chemical signature, and creatinine	1/7/86	1	Unknown	Files/Unknown	
AR 2.13.2 0005	2.13.2 Meetings	Discussion of boundaries, comprehensive remedial investigation report, and significance of results to public health	4/18/86	5	Unknown	Files/Unknown	
AR 2.13.2 0006	2.13.2 Meetings	Discussion of descriptive analyses, path analyses, cloinearity analyses, and creatinine	8/27	2	Kim Lowry/University of Washington	Files/University of Washington	
	2.13.3 Quarterly Reports						
AR 2.13.3 0001	2.13.3 Quarterly Reports	Report for 10/84-12/84	Unknown	6	Unknown	Unknown	
AR 2.13.3 0002	2.13.3 Quarterly Reports	Report for 1/85-3/85	Unknown	6	Unknown	Unknown	
	2.13.4 Statement of Work						

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Loca
AR 2.13.4 0001	2.13.4 Statement of Work	Letter of transmittal from J.D. Krull to Donald Allen with attached Statement of Work as Appendix A	11/28/83	8	J.D. Krull/WDOE	Donald Allen/University of Washington	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
	2.13.5 Design Study						
AR 2.13.5 0001	2.13.5 Design Study	Project overview and proposed design phase of exposure assessment	9/19/83	22	Lincoln Polissar, David Kalman, Kim Lowry, N. Karle Mottet, and Gerald van Belle/University of Washington	Air Work Group	
AR 2.13.5 0002	2.13.5 Design Study	Letter/Request for review and comments	3/19/84	1	J.D. Krull/WDOE	Larry Lindquist, Plant Manger/ASARCO	
AR 2.13.5 0003	2.13.5 Design Study	Responses to comments on draft design study	7/12/84	6	Lincoln Polissar/University of Washington	Dana Davoli/EPA	
	2.13.6 Compilation and Review of Data on Arsenic						
AR 2.13.6 0001	2.13.6 Compilation and Review of Data on Arsenic	Study/Review of data on arsenic levels in the Tacoma community	2/2/84	57	Kimberly Lowry/University of Washington	Air Work Group	
	2.13.7 Effects of Smelter Closure						
AR 2.13.7 0001	2.13.7 Effects of Smelter Closure	Memorandum/Effect of smelter closure on exposure assessment	7/12/84	5	Lincoln Polissar/University of Washington	Dana Davoli/EPA	
	2.13.8 Quality Assurance (QA) Reviews						
AR 2.13.8 0001	2.13.8 QA Reviews	Memorandum/Onsite visits to NEA Laboratories and University of Washington	12/28/84	2	Arnold Gahler/EPA	Dana Davoli/EPA	
AR 2.13.8 0002	2.13.8 QA Reviews	Letter/Audits of NEA Laboratories and University of Washington	1/7/85	2	Larry Needham/CDC	Larry Butler/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Loca
AR 2.13.8 0003	2.13.8 QA Reviews	Memorandum/Site inspections at NEA Laboratories and University of Washington	2/1/85	2	Robert Laidlaw/EPA	Larry Butler/EPA	
AR 2.13.8 0004	2.13.8 QA Reviews	Memorandum/Onsite laboratory evaluation of NEA Laboratories and University of Washington	2/21/85	58	Larry Butler/EPA	Dana Davoli/EPA	
AR 2.13.8 0005	2.13.8 QA Reviews	Onsite sampling evaluation for North Tacoma Operations Center	6/85	55	Unknown/EPA	Unknown/EPA	
AR 2.13.8 0006	2.13.8 QA Reviews	Memorandum/Onsite sampling evaluation for North Tacoma Operations Center	7/8/85	2	Kenneth Brown/EPA	Dana Davoli/EPA	
AR 2.13.8 0007	2.13.8 QA Reviews	Memorandum/Onsite laboratory evaluation of University of Washington	7/8/85	55	Larry Butler/EPA	Dana Davoli/EPA	
	2.13.9 Final Report - Draft						
AR 2.13.9 0001	2.13.9 Final Report - Draft	Executive Summary	3/84	12	University of Washington	Air Work Group	
AR 2.13.9 0002	2.13.9 Final Report - Draft	Draft Final Report	7/25/86	223	University of Washington	Air Work Group	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Loca
	2.13.10 Final Report						
AR 2.13.10 0001	2.13.10 Final Report	Executive Summary	3/31/87	2	Lincoln Polissar/University of Washington	Air Work Group	
AR 2.13.10 0002	2.13.10 Final Report	Final Report	3/31/87	166	Lincoln Polissar/University of Washington	Air Work Group	
2.14 Commencement Bay Nearshore/Tideflats Remedial Investigation/Feasibility Study (RI/FS)							
	2.14.1 Potential Remedial Technologies for RI						
AR 2.14.1 0001	2.14.1 Potential Remedial Technologies for RI	Study/Potential Remedial Technologies	8/85	142	Tetra Tech, Inc.	James Krull/WDOE	
	2.14.2 Summary Report for RI						
AR 2.14.2 0001	2.14.2 Summary Report for RI	Summary Report	8/85	98	Tetra Tech, Inc.	James Krull/WDOE	
	2.14.3 Executive Summary for Feasibility Study (FS)						
AR 2.14.3 0001	2.14.3 Executive Summary for FS	(Reserved)					

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SECTION 3.0 OFFSITE RLSPONSE ACTION - STATE LEAD REMEDIAL INVESTIGATION (RI)/EXPEDITED RESPONSE ACTION (ERA)

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
3.1 Correspondence							
AR 3.1 0001	3.1 Correspondence	Letter/Report of soil arsenic concentrations in Ruston with attached sampling data	5/19/88	5	Charles Douthwaite/ Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	Allan Bakalian/EPA, Region X	
AR 3.1 0002	3.1 Correspondence	Letter/Soil arsenic concentrations in Ruston	5/88	2	Allan Bakalian/EPA	Charles Douthwaite/ Eisenhower, Carlson, Newlands, Reha & Quinn	
3.2 Meetings							
AR 3.2 0001	3.2 Meetings	Discussion of Black and Veatch contract, engineering evaluation and cost analysis, and sampling data	5/27/88	2	Unknown/EPA	Files/EPA	
3.3 Sampling Data							
AR 3.3 0001	3.3 Sampling Data	Soils data evaluation	5/25/88	3	Unknown/EPA	Files/EPA	
AR 3.3 0002	3.3 Sampling Data	Chain of Custody Record	3/30/88	36	Randy Rose/ Black & Veatch		
3.4 Quality Assurance/Quality Control (QA/QC) (Reserved)							
3.5 Engineering Evaluation/Cost Analysis (EE/CA)							
3.5.1 EE/CA - Draft							
AR 3.5.1 0001	3.5.1 EE/CA - Draft	Draft EE/CA of removal action alternatives for Ruston/Vashon Island (See AR 3.6.0003 for Final EE/CA)	1/26/88	96	Black & Veatch	Washington Department of Ecology (WDOE)	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
3.6	Endangerment Assessment						
AR 3.6 0001	3.6 Endangerment Assessment	Draft Endangerment Assessment for Ruston/Vashon Island	1/88	114	Black & Veatch	WDOE	
AR 3.6 0002	3.6 Endangerment Assessment	Final Endangerment Assessment for Ruston/Vashon Island, Volume I: Final Endangerment Assessment	9/88	289	Black & Veatch	WDOE	
AR 3.6 0003	3.6 Endangerment Assessment	Final Endangerment Assessment for Ruston/Vashon Island, Volume II: Final Field Investigation Report (Contains Final EE/CA)	9/88	354	Black & Veatch	WDOE	

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4.0 OFFSITE RESPONSE ACTION - PRP LEAD/EXPEDITED RESPONSE ACTION

4.1 Consent Order

AR 4.1.1 0001	4.1.1 Correspondence	Letter/Cover letter for draft Administrative Order	5/17/88	1	Allan B. Bakalian/EPA	Michael R. Thorpe/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	
AR 4.1.1 0002	4.1.1 Correspondence	Memorandum/Extension of negotiation deadline for the Ruston Expedited Response Consent Order	7/1/88	1	Charles Findley/EPA	Robie G. Russell/EPA	
AR 4.1.1 0003	4.1.1 Correspondence	Letter/Cover letter for original and annotated copy of CERCLA Consent Order	8/23/88	2	Allan Bakalian/EPA	Michael R. Thorpe & Charles K. Douthwaite/Eisenhower, Carlson, Newlands, Reha, Henriott, & Quinn	
AR 4.1.1 0004	4.1.1 Correspondence	Letter/Letter asking for confirmation of the additional sampling Consent Order agreement between EPA and ASARCO	10/11/88	2	Michael R. Thorpe/Eisenhower, Carlson, Newlands, Reha, Henriott, & Quinn	Keith Rose/EPA	
AR 4.1.1 0005	4.1.1 Correspondence	Letter/Notification of necessity to modify certain provisions of the Consent Order	11/23/88	1	Allan Bakalian/EPA	Michael R. Thorpe/Eisenhower, Carlson, Newlands, Reha, Henriott, & Quinn	
AR 4.1.1 0006	4.1.1 Correspondence	Letter/Reiteration of ASARCO's position concerning the Consent Order	3/8/89	6	Michael R. Thorp/ Eisenhower, Carlson, Newlands, Reha, Henriott & Quinn	Keith A. Rose/EPA	
AR 4.1.1 0007	4.1.1 Correspondence	Letter/Payment regarding the Ruston Expedited Response Action	3/10/89	2	Michael R. Thorp/Eisenhower, Carlson, Newlands, Reha, Henriott & Quinn	Mellon Bank/EPA	
AR 4.1.1 0008	4.1.1 Correspondence	Letter/Discussing agreement between EPA and ASARCO concerning implementation of the recently executed Consent Order	3/13/89	2	Michael R. Thorp/Eisenhower, Carlson, Newlands, Reha, Henriott & Quinn	Allan B. Bakalian/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 4.1.1 0009	4.1.1 Correspondence	Letter/Concerning disposal of contaminated soils from the sites after the smelter cleanup is completed	5/2/89	1	James J. Mason/James J Mason Attorney at Law	Keith Rose/EPA	
AR 4.1.1 0010	4.1.1 Correspondence	Letter/Regarding the status of long-term access agreements for the Ruston ERA	5/30/89	5	Michael R. Thorp/Heller, Ehrman, White & McAuliffe	Keith Rose/EPA	
AR 4.1.1 0011	4.1.1 Correspondence	Letter/Status of attempts to obtain access agreements	6/27/89	3	Polly A. Lord/Heller, Ehrman, White & McAuliffe	Keith Rose/EPA	
AR 4.1.1 0012	4.1.1 Correspondence	Letter/Clarification of EPA's intent with respect to the Ruston ERA, Ruston RI/FS, and the ASARCO Smelter cleanup	7/11/89	5	Charles E. Findley/EPA	Mayor Pudlo/Ruston Town Council	
AR 4.1.1 0013	4.1.1 Correspondence	Letter/Cover letter and executed access agreement	7/18/89	5	James J. Mason	Michael R. Thorp/Attorney at Law	
AR 4.1.1 0014	4.1.1 Correspondence	Letter/Response to 7/18/89 letter and proposed access agreement	7/24/89	2	Michael R. Thorp/Heller, Ehrman, White & McAuliffe	James J. Mason/Attorney at Law	
AR 4.1.1 0015	4.1.1 Correspondence	Letter/Discussion of access agreement	8/2/89	4	Charles E. Findley/EPA	George Anderson/ASARCO, Inc.	
AR 4.1.1 0016	4.1.1 Correspondence	Letter/Discussion of access for Ruston Expedited Response Action (ERA)	8/2/89	2	Allan B. Bakalian/EPA	James J. Mason/Attorney at Law	
AR 4.1.1 0017	4.1.1 Correspondence	Letter/Regarding revisions of ERA Consent Decree	9/22/88	1	Allan Bakalian/EPA	Michael R. Thorp/ Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	
AR 4.1.1 0018	4.1.1 Correspondence	Letter/Regarding modifications to Consent Decree due to public comment period	11/29/88	1	Allan Bakalian/EPA	Michael R. Thorp/ Eisenhower, et al.	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 4.1.1 0019	4.1.1 Correspondence	Letter/Response to 11/29/88 letter notifying EPA that Asarco does not agree to all the modifications of the Consent Decree suggested by EPA	1/4/89	3	Michael R. Thorp/ Eisenhower, et al.	Allan Bakalian/EPA	
AR 4.1.2 0001	4.1.2 Consent Order	Consent Order/Administrative Order on Consent for Ruston Expedited Response Action at publicly accessible locations	9/29/88	41	Charles Findley/EPA	ASARCO Incorporated	
AR 4.1.2 0002	4.1.2 Consent Order	Consent Order/Administrative Order on Consent for Ruston Expedited Response Action at publicly accessible locations	3/8/89	16	Charles E. Findley/EPA	ASARCO, Inc.	
AR 4.1.3 0001	4.1.3 Amendments	First Amendment to Administrative Order on Consent for Action at Publicly Accessible Locations	7/5/90	3	Curtis E. Dungey/Asarco and Charles E. Findley/EPA	ASARCO and EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
	4.2 ASARCO's ERA Proposal						
AR 4.2.1 0001	4.2.1 ASARCO's Comments Regarding EPA's Proposed Ruston ERA	ASARCO's comments regarding EPA's proposed Ruston ERA	5/27/88	39	G. W. Anderson/ASARCO	Charles E. Findley/EPA	
AR 4.2.1 0002	4.2.1 ASARCO's Comments Regarding EPA's Proposed Ruston ERA	Letter/ASARCO's comments regarding EPA's proposed Ruston Expedited Response Action	7/15/88	625	ASARCO	-	
AR 4.2.2 0001	4.2.2 Field Reconnaissance Report - Public Assess Areas	Report/ASARCO Appendix Document #1, Field Reconnaissance Report - Public Access Areas. Proposed Expedited Response Action Ruston/North Tacoma, Washington	5/26/88	373	Nathan A. Graves/Kennedy, Links, & Chilton	George W. Anderson/EPA	
AR 4.2.3 0001	4.2.3 Assessment of EE/CA	Report/ASARCO Appendix Document #2, Assessment of Engineering Evaluation/Cost Analysis of Removal Action Alternatives for Ruston/Vashon Island	5/26/88	65	Nathan A. Graves/Kennedy, Links, & Chilton	George W. Anderson/EPA	
AR 4.2.3 0002	4.2.3 Assessment of EE/CA and Endangerment Assessment	Review of Final Field Investigation and Engineering/Cost Analysis Reports for Ruston/Vashon Island Area	2/14/89	20	Nathan A Graves/Kennedy, Jenks, Chilton	Michael Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	
AR 4.2.3 0003	4.2.3 Assessment of EE/CA and Endangerment Assessment	Review and comments on Final Endangerment Assessment: Ruston/Vashon Island Area	2/24/89	31	Compliance Services International	-	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 4.2.4 0001	4.2.4 Appendix to ASARCO's Response to Special Notice	Reports/Appendix to ASARCO Incorporated's Response to Special Notice regarding EPA's Proposed Ruston Expedited Response Action	-	625	ASARCO	-	
AR 4.2.5 0001	4.2.5 Evaluations	Letter & Report/Evaluation of EPA's proposed ERA's for Ruston/North Tacoma, Washington	7/18/88	61	Nathan A. Graves/Kennedy, Links, & Chilton	Michael R. Thorpe/Eisenhower, Carlson, Newlands, Reha, Henriott, & Quinn	
AR 4.2.5 0002	4.2.5 Evaluations	Site Evaluation Plan Expedited Response Actions - High Use Sites Ruston/North Tacoma, Washington	10/88	12	Kennedy/Jenks/Chilton	ASARCO, Inc	
AR 4.2.6 0001	4.2.6 Preliminary Report - Soil Investigation	Preliminary Report - Soil Investigation - Expedited Response Actions - High Use Sites Ruston/North Tacoma, Washington	11/88	28	Kennedy/Jenks/Chilton	ASARCO, Inc	
AR 4.2.6 0002	4.2.6 Preliminary Report - Soil Investigation	Appendix A Laboratory Report - Preliminary Report - Soil Investigation Expedited Response Actions - High Use Sites Ruston/North Tacoma, Washington	11/88	314	Kennedy/Jenks/Chilton	ASARCO, Inc	
AR 4.2.7 0001	4.2.7 Response Action Plan	Expedited Response Action Plan - Ruston/North Tacoma, Washington	4/89	228	Kennedy/Jenks/Chilton	ASARCO, Inc	
AR 4.2.7 0002	4.2.7 Response Action Plan	Response to EPA comments on Expedited Response Action Plan Ruston/North Tacoma, Washington	Unknown	9	Kennedy/Jenks/Chilton	EPA	
	4.3 Property Owners						
AR 4.3.1 0001	4.3.1 Notice Letters	Notice Letter/Notice letter of proposed Ruston Expedited Response Action (ERA)	8/4/88	2	Phillip G. Millan/EPA	Mayor Robert Pudlo/Town of Ruston	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 4.3.1 0002	4.3.1 Notice Letters	Notice Letter/Access to Property to Perform Ruston ERA	3/16/89	3	Philip G. Millam/EPA	Rena Jane Deverna	
AR 4.3.1 0003	4.3.1 Notice Letters	Notice Letter/Notification of meeting concerning access agreement	6/8/89	1	Keith Rose/EPA	Robert Benum	
AR 4.3.1 0004	4.3.1 Notice Letters	Notice Letter/Notification of meeting concerning access agreement	6/8/89	1	Keith Rose/EPA	Rena Jane DeVerna	
AR 4.3.1 0005	4.3.1 Notice Letters	Notice Letter/Notification of meeting concerning access agreement	6/8/89	1	Keith Rose/EPA	Gary Levias	
AR 4.3.1 0006	4.3.1 Notice Letters	Notice Letter/Notification of meeting concerning access agreement	6/8/89	1	Keith Rose/EPA	A.E. Lively	
AR 4.3.1 0007	4.3.1 Notice Letters	Notice Letter/Notification of meeting concerning access agreement	6/8/89	1	Keith Rose/EPA	Lawrence G. Mussig	
AR 4.3.1 0008	4.3.1 Notice Letters	Notice Letter/Notification of meeting concerning access agreement	6/8/89	1	Keith Rose/EPA	Daniel L. Wombacher	
AR 4.3.1 0009	4.3.1 Notice Letters	Notice Letter/Notification of meeting concerning access agreement	6/8/89	1	Keith Rose/EPA	Robert Gower/City of Tacoma	
AR 4.3.1 0010	4.3.1 Notice Letters	Notice Letter/Notification of meeting concerning access agreement	6/8/89	1	Keith Rose/EPA	Jo Pegg/First Interstate Bank of Washington	
AR 4.3.1 0011	4.3.1 Notice Letters	Notice Letter/Notification of meeting concerning access agreement	6/8/89	1	Keith Rose/EPA	Jan Bostick/Glacier Park Company	
AR 4.3.1 0012	4.3.1 Notice Letters	Notice Letter/Notification of meeting concerning access agreement	6/8/89	1	Keith Rose/EPA	Robert Dick/Pierce County Tax Title	
AR 4.3.1 0013	4.3.1 Notice Letters	Notice Letter/Notification of meeting concerning access agreement	6/8/89	1	Keith Rose/EPA	Puyallup Valley Bank	

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0081

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 4.3.2 0001	4.3.2 List of Property Owners	List/List of Ruston Public access property owners	10/19/88	12	Michael R. Thorpe/Eisenhower, Carlson, Newlands, Reha, Henriott, & Quinn	Allan Bakalian/EPA	
	4.4 General Correspondence						
AR 4.4 0001	4.4 General Correspondence	Letter/Comments on proposed clean up strategy for the residential area around the Asarco site	7/19/88	4	Louis A. Dooley/TPCHD	Keith Rose/EPA	
AR 4.4 0002	4.4 General Correspondence	Letter/Recommendations concerning preliminary off-property Asarco clean-up plans	8/26/88	2	Doug Pierce/TPCHD	Keith Rose/EPA	
AR 4.4 0003	4.4 General Correspondence	Letter/Comments on EE/CA of Removal Action Alternatives for the area surrounding the Asarco Superfund Site	9/16/88	5	Anita J. Frankel/PSAPCA	Keith A. Rose/EPA	
AR 4.4 0004	4.4 General Correspondence	Letter/Information on soil sampling results from Point Defiance Elementary and Sherman Elementary Schools	11/2/88	3	Doug Pierce/TPCHD	Terry Palmer/Tacoma Public Schools	
AR 4.4 0005	4.4 General Correspondence	Letter/Comments on impact of EPA Docket No. 108-03-18-106	11/3/88	3	Terry Palmer/Tacoma Public Schools	Keith Rose/EPA	
AR 4.4 0006	4.4 General Correspondence	Letter/Response to 8/26/88 letter which listed the concerns of Tacoma school officials about the proposed cleanup	11/18/88	2	Keith A. Rose/EPA	Doug Pierce/TPCHD	
AR 4.4 0007	4.4 General Correspondence	Letter/Notice that results of TPCHD soil samples show levels of arsenic in school soils below the cleanup action level	11/18/88	1	Keith A. Rose/EPA	Terry Palmer/Tacoma Public Schools	
AR 4.4 0008	4.4 General Correspondence	Letter/Statement of needs for the rehabilitation of the Ruston Playfield	3/27/89	8	Charlene Hagen/Town of Ruston	Curtis Dungey/Asarco	

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0088

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 4.4 0009	4.4 General Correspondence	Letter/Copy of results of dust samples taken on Commercial Street	9/18/89	1	Keith Rose/EPA	Daniel L. Wombacher	
AR 4.4 0010	4.4 General Correspondence	Letter/Memorandum containing documentation on field and air monitoring activities performed for the Asarco ERA in Ruston	3/22/90	10	Dave Corbett/SAIC	Janet O'Hara/EPA	
AR 4.4 0011	4.4 General Correspondence	Letter/Summary of points made during 3/27/90 meeting between Asarco and EPA concerning the ERA	4/3/90	2	Janet B. O'Hara/EPA	Curtis Dungey/Asarco	
AR 4.4 0012	4.4 General Correspondence	Letter/Clarification of two points made in 4/3/90 letter concerning Ruston ERA	4/9/90	2	Linda R. Larson/Heller, Ehrman, White & McAuliffe	Janet O'Hara/EPA	
AR 4.4 0013	4.4 General Correspondence	Letter/Conditional approval of final Response Action Plans for ERA Sites 1, 3, 5, 6, 16 and 17	4/11/90	2	Janet B. O'Hara/EPA	C.E. Dungey/Asarco	
AR 4.4 0014	4.4 General Correspondence	Letter/Response to 4/11/90 letter containing comments on Ruston ERA	5/7/90	2	Curtis E. Dungey/Asarco	Jeff Webb/EPA	
AR 4.4 0015	4.4 General Correspondence	Letter/Request for letter of concurrence regarding Asarco's responses of 5/7/90 and request for signature on amendment	6/1/90	1	Curtis E. Dungey/Asarco	Jeff Webb/EPA	
AR 4.4 0016	4.4 General Correspondence	Response to 6/1/90 letter containing revised proposed amendment	6/15/90	4	Ed Kowalski/EPA	Curtis Dungey/Asarco	
AR 4.4 0017	4.4 General Correspondence	Response to request for guidelines Letter from DLI attached (includes WAC regulations)	10/17/90	34	Mary Kay Voytilla/EPA	Robert Pudlo/Ruston	

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0089

SECTION 5.0 ONSITE RESPONSE ACTION - POTENTIALLY RESPONSIBLE PARTY (PRP) LEAD/SITE STABILIZATION

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
5.1	Correspondence						
AR 5.1 0001	5.1 Correspondence	Memorandum/Potential PCB contamination at smelter	2/3/86	4	Gil Haselberger/EPA	Carol Thompson/EPA, Region X	
AR 5.1 0002	5.1 Correspondence	Memorandum/Preliminary visit to ASARCO demolition site	6/10/86	1	Mark Hooper/EPA, Region X	Rick White/EPA, Region X	
AR 5.1 0003	5.1 Correspondence	Memorandum/Phone call regarding Jim Nolan's comments on plans for monitoring	6/17/86	1	Unknown/EPA	Files/EPA	
AR 5.1 0004	5.1 Correspondence	Memorandum/Tour of ASARCO facility on 6/24/86	6/27/86	4	Mark Hooper/EPA	Files/EPA	
AR 5.1 0005	5.1 Correspondence	Memorandum/Site visit to ASARCO	6/27/86	1	Unknown	Unknown	
AR 5.1 0006	5.1 Correspondence	Memorandum/Discussion with Curtis Dungey regarding opportunity to review demolition plan	10/22/86	1	Rick White/EPA	Carol Thompson/EPA	
AR 5.1 0007	5.1 Correspondence	Memorandum/Leak test for main conduit for surface water drainage located beneath railroad tracks adjacent to Godfrey roasters	12/30/86	5	Richard White/EPA	Carol Thompson/EPA	
AR 5.1 0008	5.1 Correspondence	Memorandum/Leak test for main conduit for surface water drainage located beneath railroad tracks adjacent to Godfrey roasters	1/2/87	2	Richard White/EPA	Carol Thompson/EPA	
AR 5.1 0009	5.1 Correspondence	Letter/Leak test for surface water drainage system adjacent to arsenic plant	1/8/87	1	Curtis Dungey/ASARCO	Richard White/EPA	
AR 5.1 0010	5.1 Correspondence	Letter/Revised demolition schedule	1/29/87	6	C.E. Dungey/ASARCO	Rick White/EPA	
AR 5.1 0011	5.1 Correspondence	Letter/Log of wind speed and direction	2/6/87	1	Rick White/EPA	Curt Dungey/ASARCO	

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0090

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 5.1 0012	5.1 Correspondence	Memorandum/Treater building inspection	2/6/87	2	R.F. White/EPA	Curt Dungey/ASARCO	
AR 5.1 0013	5.1 Correspondence	Memorandum/Request for approval of alternative methods for removal of asbestos	2/7/87	1	Richard White/EPA	Gary O'Neal/EPA	
AR 5.1 0014	5.1 Correspondence	Memorandum/Cessation of non-asbestos related demolition activity	2/7/87	1	Richard White/EPA	Curtis Dungey/ASARCO	
AR 5.1 0015	5.1 Correspondence	Memorandum/Agreement between EPA and ASARCO regarding resumption of non-asbestos related demolition commensurate with the conduct of a thorough asbestos survey	2/7/87	1	Richard White/EPA	Curtis Dungey/ASARCO	
AR 5.1 0016	5.1 Correspondence	Letter/Agreement between EPA and ASARCO regarding areas to be sampled for asbestos	2/10/87	2	Rick White/EPA	Curt Dungey/ASARCO	
AR 5.1 0017	5.1 Correspondence	Letter/Inspection of treater buildings	2/10/87	2	C.E. Dungey/ASARCO	R.F. White/EPA	
AR 5.1 0018	5.1 Correspondence	Material tracking form	2/23/87	2	Unknown	ASARCO	
AR 5.1 0019	5.1 Correspondence	Memorandum/Dismantling plate treater No. 2 and the associated south end brick arches	2/26/87	2	R.F. White/EPA	Dick Gribbon/Puget Sound Air Pollution Control Commission (PSAPCA)	
AR 5.1 0020	5.1 Correspondence	Letter/Agreement to purchase scrap steel	3/17/87	1	Samuel Friedman/General Metals of Tacoma	Jay Schwall/Invirex Demolition	
AR 5.1 0021	5.1 Correspondence	Memorandum/Demolition of No. 2 exit flue with attached asbestos analysis	3/26/87	5	R.F. White/EPA	Carol Thompson/EPA	
AR 5.1 0022	5.1 Correspondence	Letter/Arsenic contaminated steel with attached sampling data	4/12/87	4	Rick White/EPA	Carol Thompson/EPA	
AR 5.1 0023	5.1 Correspondence	Letter/Agreement regarding sale of scrap steel	4/14/87	2	Samuel Friedman/General Metals of Tacoma	Jay Schwall/Invirex Demolition	

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0091

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 5.1 0024	5.1 Correspondence	Letter/Request for information regarding: 1) General Metal's agreement to handle scrap steel, 2) revisions to surface water collection system, 3)ASARCO's agreement to analyze five swab samples for every twentieth load, 4) update of demolition schedule, 5) update on asbestos survey, and 6) follow-up with Jay Schwall on attached list of Don Lofgren's observations	4/21/87	3	Rick White/EPA	Curt Dungey/ASARCO	
AR 5.1 0025	5.1 Correspondence	Letter/Response to request for information from EPA to ASARCO dated 4/21/87	5/1/87	2	C.E. Dungey/ASARCO	R.F. White/EPA	
AR 5.1 0026	5.1 Correspondence	Letter/Response to point #3 in letter from ASARCO to EPA dated 5/1/87 regarding periodic swab sampling	5/4/87	1	Rick White/EPA	Curt Dungey/ASARCO	
AR 5.1 0027	5.1 Correspondence	Memorandum/Improper signature on steel tracking form	5/5/87	2	R.F. White/EPA	Files/EPA	
AR 5.1 0028	5.1 Correspondence	Letter/Washing of trucks before leaving smelter facility	5/6/87	1	Rick White/EPA	Curt Dungey/ASARCO	
AR 5.1 0029	5.1 Correspondence	Letter/Swab samples testing	5/10/87	1	Rick White/EPA	Curt Dungey/ASARCO	
AR 5.1 0030	5.1 Correspondence	Letter/Storing and shipping arsenic to Helena	5/11/87	1	Rick White/EPA	Curt Dungey/ASARCO	
AR 5.1 0031	5.1 Correspondence	Letter/Asbestos removal job in the reverberatory furnace adjacent to the brick blue crossover	5/12/87	2	Rick White/EPA	Curt Dungey/ASARCO	
AR 5.1 0032	5.1 Correspondence	Letter/Swab samples testing	5/29/87	1	Rick White/EPA	Curt Dungey/ASARCO	

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0092

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 5.1 0033	5.1 Correspondence	Letter/High levels of arsenic and reorganization of system with attached map of smelter	6/3/87	2	Rick White/EPA	Bill/ASARCO	
AR 5.1 0034	5.1 Correspondence	Letter/One week turnaround on samples	6/24/87	1	Rick White/EPA	Curt Dungey/ASARCO	
AR 5.1 0035	5.1 Correspondence	Map showing demolition to date	7/14/87	1	Unknown	EPA	
AR 5.1 0036	5.1 Correspondence	Map showing asbestos removal	Unknown	1	Unknown	EPA	
AR 5.1 0037	5.1 Correspondence	Memorandum/Sulfur dioxide plant tank cleaning operation	12/7/87	2	Jerry Portele/Tetra Tech, Inc.	Keith Rose/EPA, Region X	
AR 5.1 0038	5.1 Correspondence	Memorandum/Asbestos and brick removal in the reverberatory boiler building	12/17/87	1	Greg Bawden/Tetra Tech, Inc.	Files/Tetra Tech, Inc.	
AR 5.1 0039	5.1 Correspondence	Letter/October and November Progress Reports	12/21/87	3	Gerald Portele/Tetra Tech, Inc.	Jim Nolan/PSAPCA, Don Lofgren/Washington Department of Labor and Industries (WDLI), and Dom Reale/WDOE	
AR 5.1 0040	5.1 Correspondence	Memorandum/Asbestos removal activities	1/7/88	1	Greg Bawden/Tetra Tech, Inc.	Keith Rose/EPA	
AR 5.1 0041	5.1 Correspondence	Memorandum/Malfunction of the opacity meter strip chart recorder	1/14/88	1	Greg Bawden/Tetra Tech, Inc.	Curt Dungey/ASARCO and Keith Rose/EPA	
AR 5.1 0042	5.1 Correspondence	Memorandum/Burning wood from the #2 refiner building	1/27/88	1	Greg Bawden/Tetra Tech, Inc.	Curt Dungey/ASARCO	
AR 5.1 0043	5.1 Correspondence	Memorandum/Dust problem in "arsenic alley" roadway and dimethylanline (DMA) tank cleaning	2/26/88	1	Keith Pine/Tetra Tech, Inc.	Curt Dungey/ASARCO	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 5.1 0044	5.1 Correspondence	Memorandum/Discussion with Jerry Bartlett of Northwest EnviroService regarding DMA decontamination for truck at ASARCO	3/18/88	2	Keith Pine/Tetra Tech, Inc.	Files/Tetra Tech, Inc.	
AR 5.1 0045	5.1 Correspondence	Memorandum/Discussion with Jerry Bartlett of Northwest EnviroService regarding DMA decontamination for truck at ASARCO	3/18/88	2	Keith Pine/Tetra Tech, Inc.	Files/Tetra Tech, Inc.	
AR 5.1 0046	5.1 Correspondence	Notes/Incineration work and arsenic unloading	Unknown	1	Unknown	Unknown	
AR 5.1 0047	5.1 Correspondence	Letter/Questions on accuracy of newspaper clipping concerning stack removal	6/24/88	1	James J. Mason/Attorney at Law	Carol Rushin/EPA	
AR 5.1 0048	5.1 Correspondence	Letter/Request for EPA approval of Fourth Amendment to Site Stabilization Plan	11/2/88	2	Michael R. Thorp/Eisenhower, et al.	Keith A. Rose/EPA	
AR 5.1 0049	5.1 Correspondence	Letter/Containing information requested by EPA concerning the Proposed Site Stabilization	5/11/89	3	Michael R. Thorp/Heller, Ehrman, White & McAuliffe	Keith Rose/EPA	
AR 5.1 0050	5.1 Correspondence	Letter/Inquiry concerning the schedule for demolition of the buildings and stack on the smelter site	11/27/89	1	James J. Mason/Attorney at Law	Janet B. O'Hara/EPA	
AR 5.1 0051	5.1 Correspondence	Letter/Referral of 11/27/89 letter to Keith Rose	11/30/89	1	Janet B. O'Hara/EPA	James J. Mason/Attorney at Law	
AR 5.1 0052	5.1 Correspondence	Letter/Discussion of land disposal regulations for third scheduled wastes	2/28/90	4	Michael R. Thorp/Heller, et al.	Jeff Webb/EPA	
AR 5.1 0053	5.1 Correspondence	Notice that EPA is accepting, with changes, the Phase II Site Stabilization Plan	6/13/90	5	Jeff Webb/EPA	C.E. Dungey/Asarco	

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0094

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 5.1 0054	5.1 Correspondence	Letter regarding costs of proposed interim action at Asarco Smelter	10/05/90	4	Richard G. McAllister/EPA	Michael R. Thorp, Marcia Newlands/Heller, Ehrman, Whiter & McAuliffe	
AR 5.1 0055	5.1 Correspondence	Listing of Asarco's rough estimates of the costs of the components of the Site Stabilization Plan Phase II	10/16/90	4	Marcia Newlands/Heller, et al.	Richard McAllister/EPA	
AR 5.1 0056	5.1 Correspondence	Letter regarding the applicability of the National Historic Preservation Act with respect to the Asarco smelter complex	12/13/90	2	Piper Peterson/EPA	David Hansen/Washington State Historical Preservation Officer	
AR 5.1 0057	5.1 Correspondence	Deleted : Doc. # 5.1 0057 was a duplicate of Doc. # 5.1 0059				File/EPA	
AR 5.1 0058	5.1 Correspondence	Deleted : Doc # 5.1 0058 was a duplicate of Doc. # 5.1 0060				File/EPA	
AR 5.1 0059	5.1 Correspondence	Memorandum to file regarding Asarco Smelter Interim Response; Comparative Analysis of Disposal Alternatives	12/31/90	5	Piper Peterson/EPA	File/EPA	
AR 5.1 0060	5.1 Correspondence	Memorandum re: comparative analysis of the cost estimates for demolition	12/31/90	3	Piper Peterson/EPA	File/EPA	
5.2 Meetings							
AR 5.2 0001	5.2 Meetings	Meeting with ASARCO regarding CERCLA 104e questions, NPDES, PCBs, arsenic, and demolition	1/9/85	8	Unknown	Unknown	
AR 5.2 0002	5.2 Meetings	Meeting with ASARCO regarding demolition	5/28/86	1	Mark Hooper/EPA	Files/EPA	
AR 5.2 0003	5.2 Meetings	Meeting with ASARCO regarding demolition plan	5/28/86	3	Unknown	Unknown	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 5.2 0004	5.2 Meetings	Meeting with WDOE and PSAPCA regarding demolition	6/5/86	1	Mark Hooper/EPA	Files/EPA	
AR 5.2 0005	5.2 Meetings	Meeting with ASARCO regarding converter waste disposal plan, review of comments on demolition plan amendments, and ambient air monitoring network requirements	6/12/86	2	Mark Hooper/EPA	Files/EPA	
AR 5.2 0006	5.2 Meetings	ASARCO interagency review regarding onsite visit and comments on demolition plan	6/27/86	2	Unknown	Unknown	
AR 5.2 0007	5.2 Meetings	Proposed changes in site stabilization workplan	12/15/86	1	Unknown	Unknown	
5.3 Site Stabilization Plan							
5.3.1 Draft Plan							
AR 5.3.1 0001	5.3.1 Draft Plan	Draft demolition plan entitled "Cottrells, Brick Flues, Arsenic Plant and Miscellaneous Structures"	5/86	43	Parametrix	EPA	
AR 5.3.1 0002	5.3.1 Draft Plan	Notes on draft plan	5/22/86	3	Mark Hooper/EPA	Files/EPA	
AR 5.3.1 0003	5.3.1 Draft Plan	Letter/Request for additional information for draft plan and proposed revisions	6/6/86	6	Jean Garber/Parametrix	Carol Thompson/EPA	
AR 5.3.1 0004	5.3.1 Draft Plan	Letter/Monitoring program for using converter No. 1 to incinerate wood waste (Appendix C)	7/17/86	6	C.E. Dungey/ASARCO	Carol Thompson/EPA	

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0094

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 5.3.1 0005	5.3.1 Draft Plan	Asarco Tacoma Smelter - Draft Site Stabilization Plan (Phase II)	2/2/90	151	Michael R. Thorp/ Heller, et al.	Keith Rose/EPA	
	5.3.2 Final Plan and Amendments (see also 10.2.2)						
AR 5.3.2 0001	5.3.2 Final Plan and Amendments	Final Site Stabilization Plan - Cottrells, Brick Flues, Arsenic Plant and Miscellaneous Structures	8/20/86	60	Parametrix	EPA	
AR 5.3.2 0002	5.3.2 Final Plan and Amendments	First Amendment to Site Stabilization Plan	1/30/87	3	Curtis Dungey/ASARCO and Carol Thompson/EPA	EPA and ASARCO	
AR 5.3.2 0003	5.3.2 Final Plan and Amendments	Second Amendment to Site Stabilization Plan with Attachment 1 and map of demolition plan	4/9/87	4	Curtis Dungey/ASARCO and Carol Thompson/EPA	EPA and ASARCO	
AR 5.3.2 0004	5.3.2 Final Plan and Amendments	Third Amendment to Site Stabilization Plan	1/11/88	5	Curtis Dungey/ASARCO and Keith Rose/EPA	EPA and ASARCO	
AR 5.3.2 0005	5.3.2 Final Plan and Amendments	Fourth Amendment to Site Stabilization Plan with Attachments 1-3 and maps of demolition plan (unsigned)	Unknown	11	Curtis Dungey/ASARCO and Keith Rose/EPA	EPA and ASARCO	
AR 5.3.2 0006	5.3.2 Final Plan and Amendments	Signed Fourth Amendment to Site Stabilization Plan	1/8/90	4	Curtis Dungey/ASARCO and Keith Rose/EPA	EPA and ASARCO	
	5.3.3 Phase II Plan						
AR 5.3.3 0001	5.3.3 Phase II Plan	Site Stabilization Plan Phase II	7/90	272	Asarco, Inc.		
	5.4 Quality Assurance/Quality Control (QA/QC) - Sampling Protocol						
AR 5.4 0001	5.4 QA/QC - Sampling Protocol	Study plan regarding presence of arsenic in soil onsite and PCB handling practices	1/27/86	5	Carol Thompson, Ray Jones, and Paul Boys/EPA	EPA	
AR 5.4 0002	5.4 QA/QC - Sampling Protocol	QA review of eight samples collected at ASARCO	3/18/86	10	John Ryding and Andrew Hafferty/Ecology and Environment, Inc.	John Osborn/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 5.4 0003	5.4 QA/QC - Sampling Protocol	Coordination of EPA review of QA/QC protocol	10/15/86	9	Richard White/EPA	Donald Robbins/ASARCO	
AR 5.4 0004	5.4 QA/QC - Sampling Protocol	Additional QA/QC procedures to be incorporated into attached QA/QC plan	2/23/87	27	Gary Stanga/ASARCO	Rick White/EPA	
AR 5.4 0005	5.4 QA/QC - Sampling Protocol	Guidelines for groundwater monitoring with attached EPA directive entitled "Groundwater Monitoring Guidance for Owners and Operators of Interim Status Facilities"	Unknown	8	Unknown	Unknown	
AR 5.4 0006	5.4 QA/QC - Sampling Protocol	Revision of swab test	Unknown	1	Unknown	Unknown	
AR 5.4 0007	5.4 QA/QC - Sampling Protocol	Comments on field sampling methods	Unknown	1	Steve Twiss/EPA	Rick White/EPA	
AR 5.4 0008	5.4 QA/QC - Sampling Protocol	Quantitative field sampling method for arsenic detection	Unknown	1	Unknown	Unknown	
AR 5.4 0009	5.4 QA/QC - Sampling Protocol	Standard wipe test for PCB spill	Unknown	1	Unknown	Unknown	
5.5 Sampling Data							
AR 5.5 0001	5.5 Sampling Data	PCB analysis results	2/3/86	1	EPA	EPA	
AR 5.5 0002	5.5 Sampling Data	Stationary sampler results	1/87-2/87	2	ASARCO	ASARCO	
AR 5.5 0003	5.5 Sampling Data	Air sample data sheets	1/9/87-4/7/87	19	T.L. Barksdale/HAZCON, Inc.	Unknown	
AR 5.5 0004	5.5 Sampling Data	Asbestos bulk analysis	2/12/87-3/9/87	10	EPA	EPA	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 5.5 0005	5.5 Sampling Data	Arsenic analysis results	2/20/87	10	EPA	EPA	
AR 5.5 0006	5.5 Sampling Data	Water analyses of outfalls	2/1/87-4/7/87	7	Unknown	Unknown	
AR 5.5 0007	5.5 Sampling Data	Ambient Arsenic monitoring	2/2/87-1/4/88	71	Unknown	Unknown	
AR 5.5 0008	5.5 Sampling Data	Analytical results for weekly outfalls water samples	2/23/87	77	C.E. Dungey/ASARCO	Rick White/EPA	
AR 5.5 0009	5.5 Sampling Data	Asbestos bulk analysis	3/9/87	1	EPA	EPA	
AR 5.5 0010	5.5 Sampling Data	Analysis results for arsenic, cadmium, copper, lead, and zinc	9/11/87	4	EPA	EPA	
AR 5.5 0011	5.5 Sampling Data	ASARCO bag carbon dioxide measurement	9/17/87	2	Wesley Snowden/American Services Associates	Unknown	
AR 5.5 0012	5.5 Sampling Data	Heavy metals analysis results	10/9/87	3	EPA	EPA	
AR 5.5 0013	5.5 Sampling Data	Heavy metals analysis results	1/28/88	3	EPA	EPA	
AR 5.5 0014	5.5 Sampling Data	Swab sampling	2/20/87-6/26/87	6	ASARCO	Unknown	
5.6 Incineration Project							
5.6.1 Correspondence							
AR 5.6.1 0001	5.6.1 Correspondence	Memorandum/Phone call regarding third visible emission from converter	6/3/87	1	Unknown	Unknown	
AR 5.6.1 0002	5.6.1 Correspondence	Letter/Unexplained visible emissions from new stack	6/3/87	1	Rick White/EPA	Curt Dungey/ASARCO	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 5.6.1 0003	5.6.1 Correspondence	Letter/Response to request for information regarding; 1) redesign of converter operation, 2) protocol for second emissions test on converter, 3) equipment being shipped to East Helena, and 4) hydroseeding of Cottrell Hillside	9/8/87	2	C.E. Dungey/ASARCO	Jerry Portele/Tetra Tech, Inc.	
AR 5.6.1 0004	5.6.1 Correspondence	Memorandum/Two stack tests of the incinerator system	10/1/87	7	Mark Hooper/EPA	Dave Tetta/EPA	
AR 5.6.1 0005	5.6.1 Correspondence	Letter/Carbon dioxide monitoring for the converter with attached sampling data	11/3/87	4	C.E. Dungey/ASARCO	Carol Rushin (Thompson)/EPA	
AR 5.6.1 0006	5.6.1 Correspondence	Memorandum/Test burn at ASARCO	11/10/87	3	Dave Tetta and Carol Rushin/EPA	Files/EPA	
AR 5.6.1 0007	5.6.1 Correspondence	Letter/Concern regarding ash or dust from baghouse, wood shaking operation fires burned in converter, cleaning of carbon monoxide monitor, and ASARCO employee not wearing protective clothing	1/7/88	2	Greg Bawden/Tetra Tech, Inc.	Curt Dungey/ASARCO	
AR 5.6.1 0008	5.6.1 Correspondence	Memorandum/Problems relating to incineration of arsenic plant demolition waste	2/16/88	2	Mark Hooper/EPA	Carol Rushin/EPA	
AR 5.6.1 0009	5.6.1 Correspondence	Letter stating that stack demolition is acceptable, and commenting on proposed demolition	5/30/89	2	Anita J. Frankel/PSAPCA	Keith Rose/EPA	
	5.6.2 Wood Burning Procedure						
AR 5.6.2 0001	5.6.2 Wood Burning Procedure	Demolition wood burning procedure report	4/87	8	ASARCO	EPA	
	5.6.3 Stack Tests/Data						

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 5.6.3 0001	5.6.3 Stack Tests/Data	7/87 incinerator tests - metal assays	7/31/87	9	ASARCO	EPA	
AR 5.6.3 0002	5.6.3 Stack Tests/Data	Analytical reports for stack filter samples analyzed for base neutral compounds	8/28/87	7	G.R. Stanga/ASARCO	C.E. Dungey/ASARCO	
AR 5.6.3 0003	5.6.3 Stack Tests/Data	9/87 incinerator tests	9/17/87	8	Philip Nusz/ASARCO	David Tetta/EPA	
AR 5.6.3 0004	5.6.3 Stack Tests/Data	Results of two sets of Method 5 stack tests	11/3/87	112	Philip Nusz and Peter Dahlberg/ASARCO	J.M. Turner/ASARCO	
AR 5.6.3 0005	5.6.3 Stack Tests/Data	Opacity, carbon dioxide, and temperature data	11/20/87	3	C.E. Dungey/ASARCO	Gerald Portele/Tetra Tech, Inc.	
AR 5.6.3 0006	5.6.3 Stack Tests/Data	Opacity, carbon dioxide, and temperature data	11/24/87	3	Curtis Dungey/ASARCO	Gerald Portele/Tetra Tech, Inc.	
AR 5.6.3 0007	5.6.3 Stack Tests/Data	Opacity, carbon dioxide, and temperature data	11/30/87	3	C.E. Dungey/ASARCO	Gerald Portele/Tetra Tech, Inc.	
AR 5.6.3 0008	5.6.3 Stack Tests/Data	Opacity, carbon dioxide, and temperature data	12/9/87	3	C.E. Dungey/ASARCO	Gerald Portele/Tetra Tech	
AR 5.6.3 0009	5.6.3 Stack Tests/Data	Opacity, carbon dioxide, and temperature data	12/15/87	3	C.E. Dungey/ASARCO	Gerald Portele/Tetra Tech, Inc.	
AR 5.6.3 0010	5.6.3 Stack Tests/Data	Opacity, carbon dioxide, and temperature data	12/23/87	3	C.E. Dungey/ASARCO	Greg/Unknown	
AR 5.6.3 0011	5.6.3 Stack Tests/Data	Opacity, carbon dioxide, and temperature data	1/6/88	5	C.E. Dungey/ASARCO	Gerald Portele/Tetra Tech, Inc.	
AR 5.6.3 0012	5.6.3 Stack Tests/Data	Opacity, carbon dioxide, and temperature data	1/11/88	3	C.E. Dungey/ASARCO	Gerald Portele/Tetra Tech, Inc.	
AR 5.6.3 0013	5.6.3 Stack Tests/Data	Opacity, carbon dioxide, and temperature data	1/19/88	3	C.E. Dungey/ASARCO	Gerald Portele/Tetra Tech, Inc.	
AR 5.6.3 0014	5.6.3 Stack Tests/Data	Opacity, carbon dioxide, and temperature data	1/25/88	3	C.E. Dungey/ASARCO	Gerald Portele/Tetra Tech, Inc.	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 5.6.3 0015	5.6.3 Stack Tests/Data	Opacity, carbon dioxide, and temperature data	2/11/88	3	C.E. Dungey/ASARCO	Gerald Portele/Tetra Tech, Inc.	
AR 5.6.3 0016	5.6.3 Stack Tests/Data	Carbon dioxide and temperature data	2/1/88-2/4/88	19	Unknown	Unknown	
5.7 Air Monitoring Program							
5.7.1 Correspondence							
AR 5.7.1 0001	5.7.1 Correspondence	Memorandum/Current PSAPCA monitors and network	5/21/86	1	Mark Hooper/EPA	Files/EPA	
AR 5.7.1 0002	5.7.1 Correspondence	Memorandum/Development of acceptable ambient monitoring plan	5/28/86	3	Mark Hooper/EPA	Files/EPA	
AR 5.7.1 0003	5.7.1 Correspondence	Memorandum/Designing ambient air monitoring network	5/29/86	2	Mark Hooper/EPA	Files/EPA	
AR 5.7.1 0004	5.7.1 Correspondence	Memorandum/Ambient air monitoring and evaluation program	6/13/86	6	Mark Hooper/EPA	Files/EPA	
AR 5.7.1 0005	5.7.1 Correspondence	Map indicating locations of ambient arsenic monitoring stations	6/25/86	2	C.E. Dungey/ASARCO	C. Thompson/EPA	
AR 5.7.1 0006	5.7.1 Correspondence	Memorandum/Air monitoring plan review	2/20/87	1	Jon Schweiss/EPA, Region X	Richard White/EPA	
AR 5.7.1 0007	5.7.1 Correspondence	Letter/Discussion of ambient arsenic monitoring results with attached list of improvements to reduce airborne emissions	2/23/87	3	Curtis Dungey/ASARCO	R.F. White/EPA	
AR 5.7.1 0008	5.7.1 Correspondence	Letter/Evaluation of activities that may have contributed to ambient arsenic concentrations	12/9/87	2	C.E. Dungey/ASARCO	Gerald Portele/Tetra Tech, Inc.	
AR 5.7.1 0009	5.7.1 Correspondence	Letter/Monitoring network to measure arsenic concentrations outside smelter property	1/15/88	2	Curtis Dungey/ASARCO	Keith Rose/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 5.7.1 0010	5.7.1 Correspondence	Letter/Approval of request to reduce ambient air monitoring requirements	1/27/88	1	Keith Rose/EPA	Curtis Dungey/ASARCO	
AR 5.7.1 0011	5.7.1 Correspondence	Letter/Notification of Asarco's intention to continue air monitoring at only the Tavern and Parking Lot stations	3/8/88	1	C.E. Dungey/ASARCO	Keith Rose/EPA	
	5.7.2 Monitoring Reports/Data						
AR 5.7.2 0001- AR 5.7.2 0021	5.7.2 Monitoring Reports/Data	Weekly air monitoring reports	2/13/87- 7/27/87	166	C.E. Dungey/ASARCO	R.F. White/EPA	
AR 5.7.2 0022- AR 5.7.2 0050	5.7.2 Monitoring Reports/Data	Weekly air monitoring reports	2/05/87- 2/11/87	201	C.E. Dungey/ASARCO	Gerald Portele/Tetra Tech, Inc.	
AR 5.7.2 0051	5.7.2 Monitoring Reports/Data	Letter/Analytical results for air monitoring taken during week of 1/13/88 - 1/20/88	1/22/88	5	C.E. Dungey/ASARCO	Gerald Portele/EPA	
	5.8 Proposed Plan						
AR 5.8 0001	5.8 Proposed Plan	Proposed Plan for Interim Measures Asarco Smelter Superfund Site	7/16/90	6	EPA	General Public	
	5.8.1 Comments on Proposed Plan						
AR 5.8.1 0001	5.8.1 Comments on Proposed Plan	Letter regarding proposed interim plan to stabilize the Asarco site	7/19/90	1	Karen Pickett/Town of Ruston	Jeff Webb/EPA	
AR 5.8.1 0002	5.8.1 Comments on Proposed Plan	Letter opposing demolition of the Tacoma Asarco smokestack	7/23/90	2	Darrell A. Morris	Thomas P. Dunn/EPA	
AR 5.8.1 0003	5.8.1 Comments on Proposed Plan	Letter regarding Ruston, WA Asarco smokestack implosion	7/30/90	2	Judy Ferguson	Jeff Webb/EPA	
AR 5.8.1 0004	5.8.1 Comments on Proposed Plan	Comments on Asarco's Site Stabilization Plan	8/16/90	1	Philip R. Parker		

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 5.8.1 0005	5.8.1 Comments on Proposed Plan	Comments on smokestack implosion	8/23/90	1	Henry Towne	Jeff Webb/EPA	
AR 5.8.1 0006	5.8.1 Comments on Proposed Plan	Comments on Asarco smokestack demolition plan	9/4/90	6	Walt Meglasson/Explosives and Blasting Services	Jeff Webb/EPA	
AR 5.8.1 0007	5.8.1 Comments on Proposed Plan	Comments on Proposed Plan for Interim Measures	9/11/90	3	Richard Bartells/City of Tacoma Environmental Commission	Jeff Webb/EPA	
AR 5.8.1 0008	5.8.1 Comments on Proposed Plan	Comments on Asarco Tacoma Smelter Superfund Site - Site Stabilization Plan Phase II	7/14/90	2	Gary D. Brackett/ Tacoma-Pierce County Chamber of Commerce Environmental Task Force	Jeff Webb/EPA	
AR 5.8.1 0009	5.8.1 Comments on Proposed Plan	Response to EPA's Proposal for Interim Measures at the Asarco Tacoma Smelter Superfund Site	9/89	4	Robert M. Pudlo/Mayor, Town of Ruston	Jeff Webb/EPA	
AR 5.8.1 0010	5.8.1 Comments on Proposed Plan	Response to Proposed Plan for Interim Measures Pertaining to the Asarco Smelter Superfund Site	9/17/90	2	Keren L. R. Vialle/Mayor, City of Tacoma	Jeff Webb/EPA	
AR 5.8.1 0011	5.8.1 Comments on Proposed Plan	Response to 7/4/90 letter from Walt Meglasson	9/20/90	2	Thomas L. Aldrich/Asarco	Jeff Webb/EPA	

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SECTION 6.0 ONSITE RESPONSE ACTION - POTENTIALLY RESPONSIBLE PARTY (PRP) LEAD REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS)

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
6.1	Correspondence						
AR 6.1 0001	6.1 Correspondence	Letter/Elevated levels of radium found in slag samples	6/12/86	2	T.R. Strong/Washington Department of Social and Health Services (DSHS)	L.W. Lindquist, Plant Manager/ASARCO	
AR 6.1 0002	6.1 Correspondence	Letter/Remedial investigation study plan regarding aquatic sampling	11/25/86	1	Ramon Beluche/Parametrix	Carol Thompson/EPA, Region X	
AR 6.1 0003	6.1 Correspondence	Letter/Review of Aquatic and Biological Sampling and Analysis Plan	1/5/87	3	Carol Thompson/EPA	Curtis Dungey/ASARCO	
AR 6.1 0004	6.1 Correspondence	Memorandum/Report on radon levels	1/20/87	1	Rick White/EPA, Region X	Files/EPA	
AR 6.1 0005	6.1 Correspondence	Memorandum/Radon monitoring in closed up buildings onsite	1/21/87	1	Richard White/EPA	Files/EPA	
AR 6.1 0006	6.1 Correspondence	Letter/ASARCO comments on quality assurance and sampling analysis plans with attached comments by Hart Crowser	5/18/87	10	Curtis Dungey/ASARCO	Carol Rushin (Thompson)/EPA	
AR 6.1 0007	6.1 Correspondence	Letter/EPA comments on Parametrix investigation plan	6/18/87	2	Carol Rushin/EPA	Curtis Dungey/ASARCO	
AR 6.1 0008	6.1 Correspondence	Transmittal letter regarding Description of Current Situation for the ASARCO Tacoma Smelter	9/9/87	1	Curtis Dungey/ASARCO	Carol Rushin/EPA	
AR 6.1 0009	6.1 Correspondence	Letter/Hart-Crowser plans for hydrogeological studies	9/9/87	1	Curtis Dungey/ASARCO	Carol Rushin/EPA	
AR 6.1 0010	6.1 Correspondence	Letter/Completion of installation of Phase I wells and development for sampling	10/30/87	1	Curtis Dungey/ASARCO	Carol Rushin/EPA	
AR 6.1 0011	6.1 Correspondence	Letter/Commencement of collection of surface water samples	11/25/87	1	Curtis Dungey/ASARCO	Carol Rushin/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 6.1 0012	6.1 Correspondence	Letter/Approval of sampling and analysis and quality assurance plans	1987	1	Richard White/EPA	Curtis Dungey/ASARCO	
AR 6.1 0013	6.1 Correspondence	Letter/Comments on interim remedial investigation report	1/29/88	2	Gerald Portele/Tetra Tech, Inc.	Keith Rose/EPA	
AR 6.1 0014	6.1 Correspondence	Letter/List of topics concerning RI/FS alternatives to discuss at future meetings	1/20/89	2	Keith A. Rose/EPA	Curtis Dungey/ASARCO	
AR 6.1 0015	6.1 Correspondence	Letter/Follow-up letter to meeting which addressed revisions to the Feasibility Study and Phase 2 Site Stabilization	5/24/90	5	Tom Schadt/Parametrix, Inc.	Jeff Webb/EPA	
AR 6.1 0016	6.1 Correspondence	Summary of Policy Work Group Meetings of 6/22/90 and 7/31/90	8/2/90	6	Linda Larson/Heller, et al.	Jeff Webb/EPA	
6.2 Monthly Progress Reports							
AR 6.2 0001	6.2 Monthly Progress Reports	Summary of activities occurring in September and October	11/14/86	6	Curtis Dungey/ASARCO	Carol Thompson/EPA	
AR 6.2 0002	6.2 Monthly Progress Reports	Summary of activities occurring in November	12/12/86	4	Curtis Dungey/ASARCO	Carol Thompson/EPA	
AR 6.2 0003	6.2 Monthly Progress Reports	Summary of activities occurring in December	1/14/87	4	Curtis Dungey/ASARCO	Carol Thompson/EPA	
AR 6.2 0004	6.2 Monthly Progress Reports	Summary of activities occurring in January	2/13/87	9	Curtis Dungey/ASARCO	Carol Thompson/EPA	
AR 6.2 0005	6.2 Monthly Progress Reports	Summary of activities occurring in February	3/13/87	21	Curtis Dungey/ASARCO	Carol Thompson/EPA	
AR 6.2 0006	6.2 Monthly Progress Reports	Summary of activities occurring in March	4/14/87	6	Curtis Dungey/ASARCO	Carol Thompson/EPA	
AR 6.2 0007	6.2 Monthly Progress Reports	Summary of activities occurring in April	5/14/87	15	Curtis Dungey/ASARCO	Carol Rushin/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 6.2 0008	6.2 Monthly Progress Reports	Summary of activities occurring in May	6/15/87	12	Curtis Dungey/ASARCO	Carol Rushin/EPA	
AR 6.2 0009	6.2 Monthly Progress Reports	Summary of activities occurring in June	7/14/87	7	Curtis Dungey/ASARCO	Carol Rushin/EPA	
AR 6.2 0010	6.2 Monthly Progress Reports	Summary of activities occurring in July	8/13/87	15	Curtis Dungey/ASARCO	Carol Rushin/EPA	
AR 6.2 0011	6.2 Monthly Progress Reports	Summary of activities occurring in August	9/14/87	9	Curtis Dungey/ASARCO	Carol Rushin/EPA	
AR 6.2 0012	6.2 Monthly Progress Reports	Summary of activities occurring in September	10/14/87	7	Curtis Dungey/ASARCO	Carol Rushin/EPA	
AR 6.2 0013	6.2 Monthly Progress Reports	Summary of activities occurring in October	11/13/87	8	Curtis Dungey/ASARCO	Carol Rushin/EPA	
AR 6.2 0014	6.2 Monthly Progress Reports	Summary of activities occurring in November	12/11/87	7	Curtis Dungey/ASARCO	Keith Rose/EPA	
AR 6.2 0015	6.2 Monthly Progress Reports	Summary of activities occurring in December	1/14/88	4	Curtis Dungey/ASARCO	Keith Rose/EPA	
AR 6.2 0016	6.2 Monthly Progress Reports	Summary of activities occurring in January	2/12/88	7	Curtis Dungey/ASARCO	Keith Rose/EPA	
AR 6.2 0017	6.2 Monthly Progress Reports	Summary of activities occurring in February	3/14/88	5	Curtis Dungey/ASARCO	Keith Rose/EPA	
AR 6.2 0018	6.2 Monthly Progress Reports	Summary of activities occurring in March	4/15/88	3	Curtis Dungey/ASARCO	Keith Rose/EPA	
AR 6.2 0019	6.2 Monthly Progress Reports	Summary of activities occurring in April	5/12/88	5	Curtis Dungey/ASARCO	Keith Rose/EPA	
AR 6.2 0020	6.2 Monthly Progress Reports	Summary of activities occurring in May	6/13/88	3	Curtis Dungey/ASARCO	Keith Rose/EPA	
AR 6.2 0021	6.2 Monthly Progress Reports	Summary of activities occurring in June	7/14/88	3	Curtis Dungey/ASARCO	Keith Rose/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 6.2 0022	6.2 Monthly Progress Reports	Summary of activities occurring in July	8/11/88	4	Curtis Dungey/ASARCO	Keith Rose/EPA	
AR 6.2 0023	6.2 Monthly Progress Reports	Summary of activities occurring in August	9/14/88	5	Curtis Dungey/ASARCO	Keith Rose/EPA	
AR 6.2 0024	6.2 Monthly Progress Reports	Summary of activities occurring in September	10/12/88	6	Curtis Dungey/ASARCO	Keith Rose/EPA	
AR 6.2 0025	6.2 Monthly Progress Reports	Summary of activities occurring in October (No cover letter)	11/11/88	3	Curtis Dungey/ASARCO	Keith Rose/EPA	
AR 6.2 0026	6.2 Monthly Progress Reports	Summary of activities occurring in November	12/13/88	4	Curtis Dungey/ASARCO	Keith Rose/EPA	
AR 6.2 0027	6.2 Monthly Progress Reports	Summary of activities occurring in December	1/13/89	3	Curtis Dungey/ASARCO	Keith Rose/EPA	
AR 6.2 0028	6.2 Monthly Progress Reports	Summary of activities occurring in January	2/13/89	3	Curtis Dungey/ASARCO	Keith Rose/EPA	
AR 6.2 0029	6.2 Monthly Progress Reports	Summary of activities occurring in February	3/14/89	3	Curtis Dungey/ASARCO	Keith Rose/EPA	
AR 6.2 0030	6.2 Monthly Progress Reports	Summary of activities occurring in March	4/14/89	3	Curtis Dungey/ASARCO	Keith Rose/EPA	
AR 6.2 0031	6.2 Monthly Progress Reports	Summary of activities occurring in April	5/15/89	3	Curtis Dungey/ASARCO	Keith Rose/EPA	
AR 6.2 0032	6.2 Monthly Progress Reports	Summary of activities occurring in May	6/15/89	4	Curtis Dungey/ASARCO	Keith Rose/EPA	
AR 6.2 0033	6.2 Monthly Progress Reports	Summary of activities occurring in June	7/14/89	3	Curtis Dungey/ASARCO	Keith Rose/EPA	
AR 6.2 0034	6.2 Monthly Progress Reports	Summary of activities occurring in July	8/14/89	3	Curtis Dungey/ASARCO	Keith Rose/EPA	
AR 6.2 0035	6.2 Monthly Progress Reports	Summary of activities occurring in August	9/14/89	3	Curtis Dungey/ASARCO	Keith Rose/EPA	

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AR 6.2 0036	6.2 Monthly Progress Reports	Summary of activities occurring in September	10/13/89	4	Curtis Dungey/ASARCO	Keith Rose/EPA	
AR 6.2 0037	6.2 Monthly Progress Reports	Summary of activities occurring in October	11/17/89	4	Curtis Dungey/ASARCO	Keith Rose/EPA	
AR 6.2 0038	6.2 Monthly Progress Reports	Summary of activities occurring in November	12/12/89	5	Curtis Dungey/ASARCO	Keith Rose/EPA	
AR 6.2 0039	6.2 Monthly Progress Reports	Summary of activities occurring in December	1/16/90	3	Curtis Dungey/ASARCO	Keith Rose/EPA	
AR 6.2 0040	6.2 Monthly Progress Reports	Summary of activities occurring in January	2/15/90	3	Curtis Dungey/ASARCO	Jeff Webb/EPA	
AR 6.2 0041	6.2 Monthly Progress Reports	Summary of activities occurring in February	3/14/90	3	Curtis Dungey/ASARCO	Jeff Webb/EPA	
AR 6.2 0042	6.2 Monthly Progress Reports	Summary of activities occurring in March	4/16/90	3	Curtis Dungey/ASARCO	Jeff Webb/EPA	
AR 6.2 0043	6.2 Monthly Progress Reports	Summary of activities occurring in April	5/9/90	3	Curtis Dungey/ASARCO	Jeff Webb/EPA	
AR 6.2 0044	6.2 Monthly Progress Reports	Summary of activities occurring in May	6/15/90	5	Curtis Dungey/ASARCO	Jeff Webb/EPA	
AR 6.2 0045	6.2 Monthly Progress Reports	Summary of activities occurring in June	7/16/90	4	Curtis Dungey/ASARCO	Jeff Webb/EPA	
6.3	Slag Study for ASARCO (Battelle)						
AR 6.3 0001	6.3 Slag Study for ASARCO	Review and comments on smelter slag leaching, bioaccumulation, and biofouling studies	7/16/84	3	Bill Yake/Washington Department of Ecology (WDOE)	Eric Crecelius/Battelle	
AR 6.3 0002	6.3 Slag Study for ASARCO	WDOE comments on proposed slag study	7/19/84	2	Richard Pierce/WDOE	Eric Crecelius/Battelle	
AR 6.3 0003	6.3 Slag Study for ASARCO	WDOE comments on proposed slag study	7/20/84	2	Jim Krull/WDOE	Eric Crecelius/Battelle	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 6.3 0004	6.3 Slag Study for ASARCO	Statement of Work	9/5/84	15	Eric Crecelius/Battelle	Richard Pierce/WDOE	
AR 6.3 0005	6.3 Slag Study for ASARCO	Chemical results of soil and slag samples	5/27/86	4	Eric Crecelius/Battelle	Robert Backstein/City of Tacoma	
AR 6.3 0006	6.3 Slag Study for ASARCO	Release of Trace Metals to Water From Slag and Bioaccumulation in Marine Animals - Final Report with attached letter from ASARCO to WDOE	4/86	90	E.A. Crecelius/Battelle	ASARCO	
AR 6.3 0007	6.3 Slag Study for ASARCO	Review of Battelle study	8/6/86	3	Charles Lytle/Tetra Tech, Inc.	David Bradley/WDOE	
6.4	Description of Current Situation at ASARCO						
AR 6.4 0001	6.4 Description of Current Situation at ASARCO	Report entitled "Description of Current Situation at ASARCO Smelter"	8/24/87		Parametrix	EPA, Region X	
6.5	Sampling and Analysis Plans						
AR 6.5 0001	6.5 Sampling and Analysis Plans	Sections 1-5, 7, and 8 of sampling plan	6/87	73	Parametrix, Hart Crowser, and TRC Environmental Consultants	ASARCO and EPA, Region X	
AR 6.5 0002	6.5 Sampling and Analysis Plans	Section 6 of sampling plan	6/26/87	24	Parametrix, Hart Crowser, and TRC Environmental Consultants	ASARCO and EPA, Region X	
AR 6.5 0003	6.5 Sampling and Analysis Plans	Sampling and Analysis Plan for Surface Soils and Subsurface Borings	10/1/90	12	Tom Schadt/Parametrix	Jeff Webb/EPA	
6.6	Sampling and Analysis Data/Chain-of-Custody Forms						
AR 6.6 0001	6.6 Sampling and Analysis Data/Chain-of-Custody Forms	Field sample data and chain-of-custody sheets	9/87-3/88	14	EPA	Files/EPA	
AR 6.6 0002	6.6 Sampling and Analysis Data/Chain-of-Custody Forms	Results of gamma spectral analysis performed on soil sample	2/16/88	4	Paul Hahn/EPA	Joyce Crosson/EPA, Region X	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
6.7	Quality Assurance Project Plan (QAPP)/Protocol						
AR 6.7 0001	6.7 QAPP/Protocol	ASARCO QA/QC protocol and methodology	6/24/86	110	Curtis Dungey/ASARCO	Carol Thompson/EPA	
AR 6.7 0002	6.7 QAPP/Protocol	Updated list of parameters and corresponding methodologies	12/8/86	24	G.R. Stanga/ASARCO	Richard White/EPA	
AR 6.7 0003	6.7 QAPP/Protocol	Review of QA/QC information	12/16/86	24	Richard White/EPA	Barry Towns/EPA	
AR 6.7 0004	6.7 QAPP/Protocol	Program QAPP	12/10/86	39	Parametrix	ASARCO and EPA, Region X	
AR 6.7 0005	6.7 QAPP/Protocol	EPA comments of QA/QC procedures document with attached memorandum from Roy Jones of EPA regarding review	12/22/87	10	Keith Rose/EPA	Curtis Dungey/ASARCO	
AR 6.7 0006	6.7 QAPP/Protocol	Modifications to QA/QC procedures	1/25/88	1	Curtis Dungey/ASARCO	Keith Rose/EPA	
AR 6.7 0007	6.7 QAPP/Protocol	Memorandum/Oversight Asarco Inorganic Data Validation Reports performed by Paramatrix	6/19/89	2	Donald Matheny/EPA	Bruce Woods/EPA	
6.8	Quality Assurance Reviews						
AR 6.8 0001	QA Reviews	Review of two samples (Case 8330) collected from ASARCO	12/21/87	10	John O'Loughlin and Andrew Hafferty/EPA	Joyce Crosson and John Osborn/EPA, Region X	
AR 6.8 0002	QA Reviews	Review of three samples (Case 8381) collected from ASARCO	1/15/88	9	Thomas Cammarata and Andrew Hafferty/EPA	Joyce Crosson and John Osborn/EPA	
AR 6.8 0003	QA Reviews	Review of two samples (Case 8381) collected from ASARCO	1/15/88	11	Lila Accra and Andrew Hafferty/EPA	Joyce Crosson and John Osborn/EPA	
AR 6.8 0004	QA Reviews	Review of two samples (Case 8457) collected from ASARCO	1/22/88	9	Lila Accra and Andrew Hafferty/EPA	Joyce Crosson and John Osborn/EPA	
AR 6.8 0005	QA Reviews	Review of one sample (Case 8523) collected from ASARCO	1/25/88	7	Lila Accra and Andrew Hafferty/EPA	Joyce Crosson and John Osborn/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 6.8 0006	QA Reviews	Review of four samples (Case 8457) collected from ASARCO	1/28/88	23	Tracy Yerian and Andrew Hafferty/EPA	Joyce Crosson and John Osborn/EPA	
AR 6.8 0007	QA Reviews	Review of one sample (Case 8523) collected from ASARCO	1/28/88	11	Tracy Yerian and Andrew Hafferty/EPA	Joyce Crosson and John Osborn/EPA	
AR 6.8 0008	QA Reviews	Review of four samples (Case 8330) collected from ASARCO	1/28/88	10	Lila Accra and Andrew Hafferty/EPA	Joyce Crosson and John Osborn/EPA	
AR 6.8 0009	QA Reviews	Review of eight samples (Case 8457) collected from ASARCO	2/25/88	15	Lila Accra and Andrew Hafferty/EPA	Joyce Crosson and John Osborn/EPA	
AR 6.8 0010	QA Reviews	Asarco, Inc. Laboratory Evidence Audit (performed 9/30/86)	2/16/89	14	Paula J. Smith/EPA	Keith Rose/EPA	
AR 6.8 0011	QA Reviews	QA Review of case 4148J (dated 1/31/89), and case 9268 (dated 2/23/89)	1/31/89	51	John Virgin/Tetra Tech	Keith Rose/EPA	
AR 6.8 0012	QA Reviews	Evaluation of laboratory data validation for the Asarco Tacoma Smelter Remedial Investigation, March 1989	9/28/89	4	Rosemary Antel/ICF Technology	Keith Rose/EPA	
6.9 Work Plan and Amendments							
AR 6.9 0001	6.9 Work Plan and Amendments	Final Work Plan for Remedial Investigation/Feasibility Study (RI/FS)	9/86	52	Parametrix, Hart Crowser, and TRC Environmental Consultants	ASARCO and EPA, Region X	
AR 6.9 0002	6.9 Work Plan and Amendments	First Amendment to Work Plan for RI/FS	11/20/86	2	Curtis Dungey/ASARCO and Carol Rushin Thompson/EPA	ASARCO and EPA, Region X	
AR 6.9 0003	6.9 Work Plan and Amendments	Second Amendment to Work Plan for RI/FS with attached revised schedule to RI/FS	2/19/88	4	Curtis Dungey/ASARCO and Keith Rose/EPA	ASARCO and EPA, Region X	
6.10 Applicable or Relevant and Appropriate Requirements (ARARs)							

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 6.10 0001	6.10 ARARs	Notification of two section of Superfund guidance dealing with compliance with ARARs	5/25/88	2	K. Boyd Knechtel/PSAPCA	Charles Findley/EPA	
AR 6.10 0002	6.10 ARARs	Letter/Request for identification ARARs during scoping phase of the RI/FS	4/25/89	2	Carol Rushin/EPA	Mike Gallagher/WDOE	
AR 6.10 0003	6.10 ARARs	Letter/Regarding Asarco cleanup objectives for the Feasibility Study, including ARARs and TBCs	5/9/89	5	Keith Rose/EPA	Curtis Dungey/Asarco	
AR 6.10 0004	6.10 ARARs	Letter/Response to 5/9/89 letter disagreeing with specific points raised in said letter. Includes copy of 4/13/89 letter from Paramatrix	5/18/89	9	Michael Thorp/Heller, et al.	Keith Rose/EPA	
AR 6.10 0005	6.10 ARARs	Letter/Response to 5/18/89 letter concerning cleanup objectives and ARARs	6/1/89	3	Keith Rose/EPA	Curtis Dungey/Asarco	
AR 6.10 0006	6.10 ARARs	Letter/List of chemical-specific, location-specific, and action-specific ARARs for the Asarco Superfund site	6/8/89	14	Nigel Blakley/WDOE	Keith Rose/EPA	
AR 6.10 0007	6.10 ARARs	Federal and State Chemical, Location, and Action Specific ARARs for the Asarco Smelter Superfund Site	6/14/89	75	Keith Rose/EPA	Curtis Dungey/Asarco	
AR 6.10 0008	6.10 ARARs	Letter/Response to 6/1/89 letter concerning Asarco cleanup objectives and ARARs	6/26/89	2	Michael R. Thorp/Heller, et al.	Keith Rose/EPA	
AR 6.10 0009	6.10 ARARs	Letter/Cleanup criteria for barium to be includes in ARARs package	7/7/89	3	Keith Rose/EPA	Curtis Dungey/Asarco	
AR 6.10 0010	6.10 ARARs	Cover letter and comments on specific ARARs	8/10/89	9	Linda R. Larson/Heller, et al.	Keith Rose/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 6.10 0011	6.10 ARARs	Letter to address outstanding policy and ARAR issues involving state regulations as they apply to ASARCO	7/10/90	8	Marian L. Abbett/WDOE	Jeff Webb/EPA	
AR 6.11 Remedial Investigation/Feasibility Study Reports (RI/FS)							
AR 6.11 0001	6.11 RI/FS Reports	Asarco Tacoma Smelter Remedial Investigation Final Report Volume 1 - Description of the Current Situation	4/1/89	362	Paramatrix, Inc.	Asarco, Inc.	
AR 6.11 0002	6.11 RI/FS Reports	Asarco Tacoma Smelter Remedial Investigation Volume 2 - Technical Data Appendices	4/1/89	308	Paramatrix, Inc.	Asarco, Inc.	
AR 6.11 0003	6.11 RI/FS Reports	Asarco Tacoma Smelter Remedial Investigation Volume 3 - Laboratory Data Validation Reports	4/1/89	269	Paramatrix, Inc.	Asarco, Inc.	
AR 6.11 0004	6.11 RI/FS Reports	Asarco Tacoma Smelter Remedial Investigation Volume 4 - Baseline Risk Assessment, Revised August, 1989	3/89	183	Paramatrix, Inc.	Asarco, Inc.	
AR 6.11 0005	6.11 RI/FS Reports	Asarco Tacoma Smelter Remedial Investigation Volume 5 - Description of the Current Situation	3/89	84	Paramatrix, Inc.	Asarco, Inc.	
AR 6.11 0006	6.11 RI/FS Reports	Asarco Tacoma Smelter Remedial Investigation Volume 6 - Response to Comments	8/89	122	Paramatrix, Inc.	Asarco, Inc.	
AR 6.11 0007	6.11 RI/FS Reports	Asarco Tacoma Smelter Feasibility Study Final Report (Preliminary - Subject to Revision)	1/15/90	306	Paramatrix, Inc.	Asarco, Inc.	
AR 6.11.1 Comments							
AR 6.11.1 0001	6.11.1 Comments	WDOE comments on the Asarco Tacoma Smelter Remedial Investigation final report	5/10/89	8	Nigel Blakley/WDOE	Keith Rose/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 6.11.1 0002	6.11.1 Comments	Notification that Asarco needs comments on draft RI/FS by 8/15/89	7/24/89	2	Michael R. Thorp/Heller et al.	Keith Rose/EPA	
AR 6.11.1 0003	6.11.1 Comments	Comments on the Asarco Preliminary Feasibility Study and revisions on the RI report	8/11/89	41	Keith Rose/EPA	Curtis Dungey/Asarco	
AR 6.11.1 0004	6.11.1 Comments	Comments and review of Draft Feasibility Study for the Asarco Tacoma Smelter	10/10/89	22	Keith Rose/EPA	Curtis Dungey/Asarco	
AR 6.11.1 0005	6.11.1 Comments	Response to 10/10/89 Comments on Asarco Facility Study, September 1989 Draft Report	9/89	14	Asarco	EPA	
AR 6.11.1 0006	6.11.1 Comments	Letter/EPA's review of Asarco's response to EPA's comments on the Feasibility Study	11/1/89	1	Keith Rose/EPA	Curtis Dungey/Asarco	
AR 6.11.1 0007	6.11.1 Comments	Letter/Comments on RI/FS	4/5/90	1	Marian L. Abbett/WDOE	Jeff Webb/EPA	
AR 6.11.1 0008	6.11.1 Comments	Outline of Asarco's proposal for revisions to Chapter 2 of the FS dealing with Remedial Action Objective issues	8/14/90	14	Michael R. Thorp/Heller, et al.	Jeff Webb/EPA	
AR 6.11.1 0009	6.11.1 Comments	memorandum to be included with 8/14/90 letter	8/16/90	6	Michael R. Thorp/Heller, et al.	Jeff Webb/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location

SECTION 7.0 OFF SITE RESPONSE ACTION - FEDERAL LEAD REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS)

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location

7.1 Correspondence

AR 7.1 0001 This document has been pulled due to duplication. This document can be found in the Ruston/North Tacoma Administrative Record, File number 2.2.1, Document number 2.2.1 0001

AR 7.1 0002 This document has been pulled due to duplication. This document can be found in the Ruston/North Tacoma Administrative Record, File number 2.2.1, Document number 2.2.1 0002

7.2 Work Plan

AR 7.2 0001 This document has been pulled due to duplication. This document can be found in the Ruston/North Tacoma Administrative Record, File number 2.2.1, Document number 2.2 0001

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SECTION 8.0 RECORD OF DECISION

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
8.1	ASARCO Smelter ROD						
AR 8.1 0001	Smelter ROD	Record of Decision, Decision Summary and Responsiveness Summary	12/3/90	376	EPA		

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SECTION 9.0 STATE COORDINATION

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
9.1	Correspondence						
AR 9.1 0001	9.1 Correspondence	Memorandum/Commencement Bay Superfund project - Ruston/Vashon task - historical urinary arsenic analysis	9/16/83	2	Jim Krull/Washington Department of Ecology (WDOE)	Floyd Frost and Kristine Wicklund/Washington Department of Social Health and Services (DSHS)	
AR 9.1 0002	9.1 Correspondence	Letter/Proposed scope of work addressing the historical data evaluation and study design for exposure assessment study	9/19/83	1	Lincoln Polissar/University of Washington	Jim Krull/WDOE	
AR 9.1 0003	9.1 Correspondence	Memorandum/Needs of DSHS and Commencement Bay Superfund project regarding historical urinary arsenic analysis	10/17/83	3	Jim Krull/WDOE	Floyd Frost and Jack Allard/DSHS	
AR 9.1 0004	9.1 Correspondence	Letter/Request for amendment in cooperative agreement	12/5/83	2	Donald Moos/WDOE	Ernesta Barnes/EPA, Region X	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 9.1 0005	9.1 Correspondence	Letter/Current administrative structure of funding the cooperative agreement	12/15/83	2	John Beare/DSHS and John Spencer/WDOE	Ernesta Barnes/EPA	
AR 9.1 0006	9.1 Correspondence	Letter/Current administrative structure of funding the cooperative agreement	1/4/84	5	Ernesta Barnes/EPA	John Spencer/WDOE and John Beare/DSHS	
AR 9.1 0007	9.1 Correspondence	Letter/Clarification of roles of WDOE, DSHS and Seattle-King and Tacoma-Pierce County Health Departments (TPCHD) regarding exposure assessment study	1/30/84	2	J.D. Krull/WDOE	Lincoln Polissar/ University of Washington	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 9.1 0008	9.1 Correspondence	Letter/Three-way cooperative agreement involving WDOE, DSHS, and Centers for Disease Control (CDC) for exposure assessment study	1/15/84	2	Rebecca Schilling/CDC	John Spencer/WDOE	
AR 9.1 0009	9.1 Correspondence	Memorandum/Interest in participation in survey portion of exposure assessment study	2/22/84	3	R.M. Nicola/TPCHD	Arsenic Study Team/University of Washington	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 9.1 0010	9.1 Correspondence	Letter/Management structure issue regarding exposure assessment study	3/15/84	3	J.D. Krull/WDOE	Rebecca Schilling/CDC	
AR 9.1 0011	9.1 Correspondence	Letter/Amendment of Commencement Bay Cooperative Agreement and funding for Ruston/Vashon task	3/21/84	11	John Spencer/WDOE	Ernesta Barnes/EPA	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 9.1 0012	9.1 Correspondence	Letter/Amendment of Commencement Bay Cooperative Agreement and funding for Ruston/Vashon task	4/13/84	2	Alexandra Smith/EPA	John Spencer/WDOE	
AR 9.1 0013	9.1 Correspondence	Letter/Request for cooperative agreement application with enclosed package of information	5/16/84	5	Leo Sanders/CDC	John Spencer/WDOE	
AR 9.1 0014	9.1 Correspondence	WDOE comments on site stabilization plan and RI/FS	10/2/86	6	Dom Reale/WDOE	Carol Thompson/EPA, Region X	
AR 9.1 0015	9.1 Correspondence	Letter/Review of remedial investigation work plan	10/5/86	2	T.R. Strong/DSHS	L.W. Lindquist, Plant Manager/ASARCO	
AR 9.1 0016	9.1 Correspondence	Letter/Public guidance on handling of contaminated soil	12/5/88	10	Philip G. Millam/EPA	Louis Dooley/Tacoma-Pierce County Health Dept.	
AR 9.1 0017	9.1 Correspondence	Letter/Response to 12/5/88 letter concerning the development of guidelines on the handling and disposal of arsenic contaminated soils from the Ruston Area	2/9/89	5	Louis A. Dooley/TPCHD	Philip G. Millam/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 9.1 0018	9.1 Correspondence	Letter/Response to 2/9/89 letter concerning advice and guidance on the handling/disposal of arsenic contaminated soil	4/11/89	3	Carol Rushin/EPA	Louis A. Dooley/TPCHD	
AR 9.1 0019	9.1 Correspondence	Letter/Information on potential health risk involving arsenic and arsine gases at the Asarco Superfund site	6/13/89	2	Nigel Blakely/WDOE	Keith Rose/EPA	
AR 9.1 0020	9.1 Correspondence	Letter/Response to Asarco's interest in funding a Health Department urinary arsenic monitoring study	9/14/89	1	Doug Pierce/TPCHD	Michael R. Thorp/Heller, Ehrman, White & McAuliffe	
AR 9.1 0021	9.1 Correspondence	Letter/Request that EPA keep the Office of Archaeology and Historic Preservation informed as to the environmental review process which will address the Asarco stack demolition	10/26/89	3	Greg A. Griffith/WDOE	Keith Rose/EPA	
AR 9.1 0022	9.1 Correspondence	letter addressing land ban restrictions of the State Dangerous Waste Regulations and how they apply to Asarco	4/13/90	4	Marian L. Abbett/WDOE	Jeff Webb/EPA	
AR 9.1 0023	9.1 Correspondence	Summary letter on Asarco Tacoma Smelter...clarifications in regards to state regulations	8/13/90	2	Marion L. Abbett/WDOE	Linda Larson/Heller, et al.	
9.2 Cooperative Agreements and Amendments							
AR 9.2 0001	9.2 Cooperative Agreements and Amendments	Commencement Bay Nearshore/Tideflats Cooperative Agreement	5/2/83	76	WDOE	EPA	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 9.2 0002	9.2 Cooperative Agreements and Amendments	Ruston/Vashon amendment to Commencement Bay Nearshore/Tideflats Cooperative Agreement	1/16/84	16	Russel Wyer/EPA	William Hedeman/EPA	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 9.2 0003	9.2 Cooperative Agreements and Amendments	Cooperative agreement application	6/8/84	36	Glen Fiedler/WDOE	Leo Sanders/CDC	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 9.2 0004	9.2 Cooperative Agreements and Amendments	Interagency agreement with CDC	7/84	9	EPA	CDC	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 9.2 0005	9.2 Cooperative Agreements and Amendments	Cooperating Institution Assurance and Interagency Agreement	9/24/84	4	Donald Moos/WDOE	David Hogan/DSHS	

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SECTION 10.0 CERCLA ENFORCEMENT

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
10.1	Correspondence						
AR 10.1 0001	10.1 Correspondence	Letter/PCB sampling data for dielectric fluid from transformers	6/18/87	1	C.E. Dungey/ASARCO	R.F. White/EPA, Region X	
AR 10.1 0002	10.1 Correspondence	Letter/Procedures used in draining PCB-contaminated oil from transformers	7/1/87	1	Richard White/EPA	Curtis Dungey/ASARCO	
AR 10.1 0003	10.1 Correspondence	Letter/Replacement of Richard White as onscene coordinator and failure of ASARCO to notify EPA before sampling	7/4/87	2	Carol Rushin/EPA, Region X	Curtis Dungey/ASARCO	
AR 10.1 0004	10.1 Correspondence	Letter/Failure of ASARCO to notify EPA before sampling	9/18/87	1	Curtis Dungey/ASARCO	Carol Rushin/EPA	
AR 10.1 0005	10.1 Correspondence	Letter/Cover letter for the Third Amendment of the 1986 Administrative Order	1/31/89	1	Allan B. Bakalian/EPA	Michael R. Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	
AR 10.1 0006	10.1 Correspondence	Letter stating reasons for deleting documents from the Administrative Record (list of deleted documents is attached)	3/3/92	2	Tod Gold/EPA	Lynn Williams/EPA	
10.2	Administrative Orders (AO)						
10.2.1	Negotiations/Correspondence						
AR 10.2.1 0001	10.2.1 Negotiations/ Correspondence	Letter/Confirmation of meeting times to discuss terms of AO	2/25/86	1	Barbara Lither/EPA, Region X	Michael Thorp/ Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	
AR 10.2.1 0002	10.2.1 Negotiations/ Correspondence	Letter/ASARCO response to Draft AO	3/25/86	4	Michael Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	Carol Thompson/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 10.2.1 0003	10.2.1 Negotiations/ Correspondence	Letter/Confirmation of meeting to discuss consent of EPA jurisdiction; Section IV, Conclusions of Law, and Section XVII, Other Applicable Laws	3/31/86	1	Carol Thompson/EPA	Michael Thorp/ Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	
AR 10.2.1 0004	10.2.1 Negotiations/ Correspondence	Letter/Final Draft AO	4/17/86	2	Barbara Lither/EPA	Michael Thorp/ Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 10.2.1 0005	10.2.1 Negotiations/ Correspondence	Letter/ASARCO review of final Draft AO	5/15/86	2	Michael Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	Barbara Lither/EPA	
AR 10.2.1 0006	10.2.1 Negotiations/ Correspondence	Letter/ASARCO review of Attachment A (Site Stabilization Plan) to AO	8/20/86	1	Michael Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	Barbara Lither/EPA	
AR 10.2.1 0007	10.2.1 Negotiations/ Correspondence	Letter/Final AO	8/29/86	2	Charles Findley/EPA, Region X	Michael Thorp/ Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	
AR 10.2.1 0008	10.2.1 Negotiations/ Correspondence	Letter/Washington Department of Ecology (WDOE) comments on Site Stabilization Plan (Attachment A of AO)	9/4/86	2	Clark Haberman/WDOE	Carol Thompson/EPA	
AR 10.2.1 0009	10.2.1 Negotiations/ Correspondence	Letter/Certified, signed copy of AO with attachments	9/16/86	1	Charles Findley/EPA	Charles Douthwaite/ Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	
AR 10.2.1 0010	10.2.1 Negotiations/ Correspondence	Letter/First Amendment to the Remedial Investigation/Feasibility Study (RI/FS)	11/20/86	1	Carol Thompson/EPA	Charles Douthwaite/ Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	
AR 10.2.1 0011	10.2.1 Negotiations/ Correspondence	Letter/Unresolved issues regarding AO	12/5/86	2	Michael Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	Carol Thompson/EPA	
AR 10.2.1 0012	10.2.1 Negotiations/ Correspondence	Memorandum/Amendment to Site Stabilization Plan regarding particulate collection (Appendix C)	12/8/86	5	C.E. Dungey/ASARCO	Rick White/EPA	
AR 10.2.1 0013	10.2.1 Negotiations/ Correspondence	Letter/Amendment to Site Stabilization Plan regarding incineration of wood	12/15/86	3	Michael Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	Carol Thompson/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 10.2.1 0014	10.2.1 Negotiations/ Correspondence	Letter/Tacoma-Pierce County Health Department (TPCHD) comments on amendment to Site Stabilization Plan regarding incineration of wood	12/22/86	1	Doug Pierce/TPCHD	Rick White/EPA	
AR 10.2.1 0015	10.2.1 Negotiations/ Correspondence	Letter/Puget Sound Air Pollution Control Agency (PSAPCA) comments on amendment to Site Stabilization Plan regarding incineration of wood	12/23/86	1	Arthur Dammkoehler/PSAPCA	Richard White/EPA	
AR 10.2.1 0016	10.2.1 Negotiations/ Correspondence	Letter/Amendment to site stabilization plan regarding incineration of wood	1/2/87	1	Richard White/EPA	Curtis Dungey/ASARCO	
AR 10.2.1 0017	10.2.1 Negotiations/ Correspondence	Memorandum/Required changes in AO to comply with WAC 173-434 and PSAPCA Regulation I, Section 9.03	5/29/87	4	Mark Hooper/EPA	Carol Thompson/EPA	
AR 10.2.1 0018	10.2.1 Negotiations/ Correspondence	Letter/Revision to RI/FS schedule	10/26/87	2	Curtis Dungey/ASARCO	Carol Rushin/EPA	
AR 10.2.1 0019	10.2.1 Negotiations/ Correspondence	Letter/Concern regarding activities at sulfur dioxide plant with attached Third Amendment to Site Stabilization Plan	10/28/87	10	Curtis Dungey/ASARCO	Carol Rushin/EPA	
AR 10.2.1 0020	10.2.1 Negotiations/ Correspondence	Letter/Revisions to Third Amendment to Site Stabilization Plan	11/30/87	11	Michael Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	Allan Bakalian/EPA, Region X	
AR 10.2.1 0021	10.2.1 Negotiations/ Correspondence	Letter/Revisions to Third Amendment to Site Stabilization Plan and possible sale and dismantling of sulfur dioxide plant	12/17/87	7	Michael Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	Allan Bakalian/EPA	
AR 10.2.1 0022	10.2.1 Negotiations/ Correspondence	Transmittal Letter/Certified copy of Third Amendment to Site Stabilization Plan	1/13/88	6	Allan Bakalian/EPA	Michael Thorp/ Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 10.2.1 0023	10.2.1 Negotiations/ Correspondence	Transmittal Letter/Certified copy of Second Amendment to RI/FS Work Plan with attached revised schedule	2/25/88	5	Allan Bakalian/EPA	Michael Thorp/ Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	
AR 10.2.1 0024	10.2.1 Negotiations/ Correspondence	Letter/Proposed Fourth Amendment to Site Stabilization Plan	3/3/88	1	Michael Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	Allan Bakalian/EPA	
AR 10.2.1 0025	10.2.1 Negotiations/ Correspondence	Letter/ARSACO Tacoma Smelter - 1985 Consent Order Amendments	9/31/89	1	Allan B. Bakalian/EPA	Michael R. Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	
	10.2.2 Site Stabilization and Remedial Investigation/Feasibility Study (RI/FS) - AO and Amendments (See also 6.9)						
AR 10.2.2 0001	10.2.2 Site Stabilization and RI/FS - AO and Amendments	Final AO on Consent Docket No. 1086-04-24-106 with Attachments A and B	9/10/86	140	Armand Labbe, Plant Manager/ASARCO and Charles Findley/EPA	ASARCO and EPA, Region X	
AR 10.2.2 0002	10.2.2 Site Stabilization and RI/FS - AO and Amendments	First Amendment to RI/FS Work Plan Docket No. 1086-04-24-106	11/20/86	2	Curtis Dungey/ASARCO and Carol Rushin Thompson/EPA	ASARCO and EPA	
AR 10.2.2 0003	10.2.2 Site Stabilization and RI/FS - AO and Amendments	First Amendment to Site Stabilization Plan Docket No. 1086-04-24-106	1/30/87	3	Curtis Dungey/ASARCO and Carol Rushin Thompson/EPA	ASARCO and EPA	
AR 10.2.2 0004	10.2.2 Site Stabilization and RI/FS - AO and Amendments	Second Amendment to Site Stabilization Plan Docket No. 1086-04-24-106	4/8/87	4	Curtis Dungey/ASARCO and Carol Rushin Thompson/EPA	ASARCO and EPA	
AR 10.2.2 0005	10.2.2 Site Stabilization and RI/FS - AO and Amendments	Third Amendment to Site Stabilization Plan Docket No. 1086-04-24-106	1/11/88	5	Curtis Dungey/ASARCO and Keith Rose/EPA	ASARCO and EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 10.2.2 0006	10.2.2 Site Stabilization and RI/FS - AO and Amendments	Second Amendment to RI/FS Work Plan Docket No. 1086-04-24-106	2/19/88	4	Curtis Dungey/ASARCO and Keith Rose/EPA	ASARCO and EPA	
AR 10.2.2 0007	10.2.2 Site Stabilization and RI/FS - AO and Amendments	Fourth Amendment to Site Stabilization Plan Docket No. 1086-04-24-106	Unknown	11	Curtis Dungey/ASARCO and Keith Rose/EPA	ASARCO and EPA	
AR 10.2.2 0008	10.2.2 Site Stabilization and RI/FS - AO and Amendments	Third Amendment to RI/FS Work Plan Docket No. 1086-04-24-106 (unsigned)	Unknown	4	Curtis E. Dungey/ASARCO and Keith A. Rose/EPA	ASARCO and EPA	
AR 10.2.2 0009	10.2.2 Site Stabilization and RI/FS - AO and Amendments	Fourth Amendment to RI/FS Work Plan Docket No. 1086-04-24-106	5/5/89	5	Curtis E. Dungey/ASARCO and Keith A. Rose/EPA	ASARCO and EPA	
AR 10.2.2 0010	10.2.2 Site Stabilization and RI/FS - AO and Amendments	Signed Third Amendment to RI/FS Work Plan Docket No. 1086-04-24-106	3/8/89	4	Curtis E. Dungey/Asarco and Keith A. Rose/EPA	Asarco and EPA	
AR 10.2.2 0011	10.2.2 Site Stabilization and RI/FS - AO and Amendments	Signed Fourth Amendment to Site Stabilization Plan EPA Docket No. 1086-04-24-106	1/8/90	4	Curtis E. Dungey/Asarco and Keith A. Rose/EPA	Asarco and EPA	
10.2.3 Expedited Response Action AO - Draft							
AR 10.2.3 0001	10.2.3 Expedited Response Action AO - Draft	Draft AO on Consent	5/17/88	31	Allan Bakalian/EPA	Michael Thorp/ Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	
10.3 Site Stabilization							

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
	10.3.1 Correspondence						
AR 10.3.1 0001	10.3.1 Correspondence	Letter/Demolition plan with attached PSAPCA Resolution 605	6/17/86	5	Arthur Dammkoehler/PSAPCA	Ralph Bauer/EPA	
AR 10.3.1 0002	10.3.1 Correspondence	Letter/PSACPA Resolution 605	6/86	1	Ralph Bauer/EPA	Arthur Dammkoehler/ PSAPCA	
AR 10.3.1 0003	10.3.1 Correspondence	Letter/Request for Asbestos Notification Fee with attached copy of PSAPCA Article 10 - Removal and Encapsulation of Asbestos Material	12/26/86	14	Arthur Dammkoehler/PSAPCA	L. Schwall/Invirex Demolition, Inc.	
AR 10.3.1 0004	10.3.1 Correspondence	Letter/Invirex Demolition's Notification for Asbestos Removal	1/8/87	1	Richard White/EPA	Arthur Dammkoehler/ PSAPCA	
AR 10.3.1 0005	10.3.1 Correspondence	Letter/Recommendation to hold demolition work due to asbestos complications with attached letter from Invirex to PSAPCA	1/30/87	3	Arthur Dammkoehler/PSAPCA	Richard White/EPA	
AR 10.3.1 0006	10.3.1 Correspondence	Letter/Recommendation to hold demolition work and asbestos misinformation	2/5/87	2	Richard White/EPA	Arthur Dammkoehler/ PSAPCA	
AR 10.3.1 0007	10.3.1 Correspondence	Letter/Demolition procedures for brick flues with attached letters from Invirex to ASARCO	2/6/87	4	Curtis Dungey/ASARCO	Rick White/EPA	
AR 10.3.1 0008	10.3.1 Correspondence	Letter/Consideration of alternative method to remove asbestos from brick flues No. 1 and 2	2/7/87	2	Richard White/EPA	Arthur Dammkoehler/ PSAPCA	
AR 10.3.1 0009	10.3.1 Correspondence	Letter/Procedure for demolition of brick flues	2/28/87	3	Richard White/EPA	Curtis Dungey/ASARCO	
AR 10.3.1 0010	10.3.1 Correspondence	Letter/Agreement with PSAPCA on demolition of brick flues	2/18/87	2	Rick White/EPA	Curtis Dungey/ASARCO	
AR 10.3.1 0011	10.3.1 Correspondence	Letter/Health and safety concerns and request for site safety plan	2/18/87	2	Richard White/EPA	Curtis Dungey/ASARCO	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 10.3.1 0012	10.3.1 Correspondence	Letter/Asbestos survey results	2/23/87	18	Curtis Dungey/ASARCO	R.F. White/EPA	
AR 10.3.1 0013	10.3.1 Correspondence	Letter/Exempt non-friable asbestos fibers with attached PSAPCA memorandum	2/23/87	2	Curtis Dungey/ASARCO	R.F. White/EPA	
AR 10.3.1 0014	10.3.1 Correspondence	Letter/No. 2 exit flue demolition procedures	2/23/87	3	Curtis Dungey/ASARCO	R.F. White/EPA	
AR 10.3.1 0015	10.3.1 Correspondence	Memorandum/Correction to demolition procedure for No. 2 exit flue	2/24/87	2	R.F. White/EPA	Curtis Dungey/ASARCO	
AR 10.3.1 0016	10.3.1 Correspondence	Letter/No. 2 plate treater building demolition procedures	2/25/87	5	Curtis Dungey/ASARCO	R.F. White/EPA	
AR 10.3.1 0017	10.3.1 Correspondence	Memorandum/Changes to demolition procedures for No. 2 plate treater building	2/26/87	2	R.F. White/EPA	Dick Gribbon/PSAPCA	
AR 10.3.1 0018	10.3.1 Correspondence	Letter/Demolition procedures for brick flues No. 1 and 2	2/27/87	4	Curtis Dungey/ASARCO	R.F. White/EPA	
AR 10.3.1 0019	10.3.1 Correspondence	Letter/Difficulties in proceeding with asbestos removal and demolition of brick flues due to PSAPCA and EPA position on asbestos	2/27/87	6	Curtis Dungey/ASARCO	Richard White/EPA	
AR 10.3.1 0020	10.3.1 Correspondence	Letter/Cessation of demolition and asbestos removal activities	3/2/87	3	Richard White/EPA	Curtis Dungey/ASARCO	
AR 10.3.1 0021	10.3.1 Correspondence	Letter/Clarification of EPA's position on demolition and asbestos removal activities	3/10/87	5	Allan Bakalian/EPA	Michael Thorp/ Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	
AR 10.3.1 0022	10.3.1 Correspondence	Letter/Demolition procedure for exit flue connecting No. 1 plate treater to the main stack	3/10/87	2	Curtis Dungey/ASARCO	R.F. White/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 10.3.1 0023	10.3.1 Correspondence	Letter/Clarification of demolition procedures for No. 1 exit flue	3/17/87	1	Jay Schwall/Invirex	Rick White/EPA	
AR 10.3.1 0024	10.3.1 Correspondence	Letter/Removal procedures for roof tarpaper	3/26/87	1	Jay Schwall/Invirex	A.R. Dammkoehler/PSAPCA	
AR 10.3.1 0025	10.3.1 Correspondence	Letter/Update on asbestos survey	5/5/87	8	Curtis Dungey/ASARCO	R.F. White/EPA	
AR 10.3.1 0026	10.3.1 Correspondence	Letter/Onsite burning of contaminated wood using modified converter	5/22/87	2	James Everts/EPA, Region X	Arthur Dammkoehler/EPA	
AR 10.3.1 0027	10.3.1 Correspondence	Letter/Proposed changes to Appendix C of Site Stabilization Plan regarding applicability of state air pollution controls to incineration of wood debris	6/9/87	2	Carol Rushin/EPA	Curtis Dungey/ASARCO	
AR 10.3.1 0028	10.3.1 Correspondence	Letter/ASARCO response to proposed changes to Appendix C of Site Stabilization Plan	6/10/87	7	Curtis Dungey/ASARCO	Carol Rushin/EPA	
AR 10.3.1 0029	10.3.1 Correspondence	Letter/Comments to ASARCO response to proposed changes to Appendix C	6/23/87	2	Carol Rushin/EPA	Curtis Dungey/ASARCO	
AR 10.3.1 0030	10.3.1 Correspondence	Letter/Applicability of state air pollution controls to incineration of wood debris	7/7/87	2	Curtis Dungey/ASARCO	Carol Rushin/EPA	
AR 10.3.1 0031	10.3.1 Correspondence	Letter/Site stabilization oversight regarding authorization of incineration of arsenic-containing wood	11/6/87	2	Gerald Portele/Tetra Tech, Inc.	Curtis Dungey/ASARCO	
AR 10.3.1 0032	10.3.1 Correspondence	Letter/Incinerator source tests with attached PSAPCA memorandum	11/19/87	4	James Pearson/PSAPCA	Carol Rushin/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 10.3.1 0033	10.3.1 Correspondence	Letter/Cause and resolution of ambient arsenic concentrations exceeding limits with attached letter from ASARCO to G. Portele	12/87	3	Keith Rose/EPA	Arthur Dammkoehler/ PSAPCA	
AR 10.3.1 0034	10.3.1 Correspondence	Letter/Nonacceptability of ORSAT gas analyzer tests as demonstration of compliance with AO with attached test results	1/12/88	19	Carol Rushin/EPA	Arthur Dammkoehler/ PSAPCA	
AR 10.3.1 0035	10.3.1 Correspondence	Letter/Request for copy of ASARCO evaluation of exceedances of ambient air concentrations during 11/87 with attached copies of air monitoring reports	2/2/88	10	Arthur Dammkoehler/PSAPCA	Keith Rose/EPA	
	10.3.2 Responses to Requests for Information from PSAPCA - EPA						
AR 10.3.2 0001	10.3.2 Responses to Requests for Information from PSAPCA	Requests for Notices of Intent to Remove or Encapsulate Asbestos Projects/Inspection Reports for 1/87	2/3/87	16	Arthur Dammkoehler/PSAPCA	Richard White/EPA	
AR 10.3.2 0002	10.3.2 Responses to Requests for Information from PSAPCA	Notices of Intent to Remove or Encapsulate Asbestos Projects for 2/87	2/23/87	9	Arthur Dammkoehler/PSAPCA	Richard White/EPA	
AR 10.3.2 0003	10.3.2 Responses to Requests for Information from PSAPCA	Notice of Intent to Remove or Encapsulate Asbestos for 3/87	2/27/87	3	Curtis Dungey/ASARCO	PSAPCA	
AR 10.3.2 0004	10.3.2 Responses to Requests for Information from PSAPCA	Request for Notice of Intent to Remove or Encapsulate Asbestos Projects/Inspection Reports for 3/87	3/30/87	9	Arthur Dammkoehler/PSAPCA	Richard White/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 10.3.2 0005	10.3.2 Responses to Requests for Information from PSAPCA	Request for Notice of Intent to Remove or Encapsulate Asbestos Projects/Inspection Reports and Notices of Violations for 4/87	4/16/87	25	Arthur Dammkoehler/PSAPCA	Richard White/EPA	
	10.3.3 Notices of Intent to Remove or Encapsulate Asbestos/Inspection Reports and Notices of Violations (NOV's)						
AR 10.3.3 0001	10.3.3 Notices of Intent to Remove or Encapsulate Asbestos/ Inspection Reports and NOVs	Notice of Intent to Remove or Encapsulate Asbestos	1/5/86-4/1/87	30	Invirex and ASARCO	PSAPCA	
AR 10.3.3 0002	10.3.3 Notices of Intent to Remove or Encapsulate Asbestos/ Inspection Reports and NOVs	Notice of Intent to Remove or Encapsulate Asbestos	1/12/87-4/1/87	5	Invirex and ASARCO	PSAPCA	
AR 10.3.3 0003	10.3.3 Notices of Intent to Remove or Encapsulate Asbestos/ Inspection Reports and NOVs	Job Summary #870062-4 regarding asbestos project inspection and checklist	1/27/87-5/30/87	20	R.J. Gribbon/PSAPCA	Files/PSAPCA	
AR 10.3.3 0004	10.3.3 Notices of Intent to Remove or Encapsulate Asbestos/ Inspection Reports and NOVs	Job Summary #870063-5 regarding asbestos project inspection and checklist	2/12/87-6/15/87	23	R.J. Gribbon/PSAPCA	Files/PSAPCA	
AR 10.3.3 0005	10.3.3 Notices of Intent to Remove or Encapsulate Asbestos/ Inspection Reports and NOVs	Job Summary #870064-6 regarding asbestos project inspection and checklist	2/4/87-7/30/87	24	R.J. Gribbon/PSAPCA	Files/PSAPCA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 10.3.3 0006	10.3.3 Notices of Intent to Remove or Encapsulate Asbestos/ Inspection Reports and NOVs	Job Summary #870065-2 regarding asbestos project inspection and checklist	1/26/87-1/28/87	16	R.J. Gribbon/PSAPCA	Files/PSAPCA	
AR 10.3.3 0007	10.3.3 Notices of Intent to Remove or Encapsulate Asbestos/ Inspection Reports and NOVs	Job Summary #870066-2 regarding asbestos project inspection and checklist	2/3/87-2/6/87	12	R.J. Gribbon/PSAPCA	Files/PSAPCA	
AR 10.3.3 0008	10.3.3 Notices of Intent to Remove or Encapsulate Asbestos/ Inspection Reports and NOVs	Job Summary #8702266-2 regarding asbestos project inspection and checklist	11/14/87-1/30/88	8	L.C. Vaughn/PSAPCA	Files/PSAPCA	
AR 10.3.3 0009	10.3.3 Notices of Intent to Remove or Encapsulate Asbestos/ Inspection Reports and NOVs	Job Summary #8702267-1 regarding asbestos project inspection and checklist	11/14/87-1/5/88	8	L.C. Vaughn/PSAPCA	Files/PSAPCA	
AR 10.3.3 0010	10.3.3 Notices of Intent to Remove or Encapsulate Asbestos/ Inspection Reports and NOVs	Job Summary #8702916-1 regarding asbestos project inspection and checklist	11/24/87-6/15/88	9	L.C. Vaughn/PSAPCA	Files/PSAPCA	
AR 10.3.3 0011	10.3.3 Notices of Intent to Remove or Encapsulate Asbestos/ Inspection Reports and NOVs	Job Summary #8702915-3 regarding asbestos project inspection and checklist	11/20/87-1/8/88	7	L.C. Vaughn/PSAPCA	Files/PSAPCA	
AR 10.3.3 0012	10.3.3 Notices of Intent to Remove or Encapsulate Asbestos/ Inspection Reports and NOVs	Job Summary #8702917-2 regarding asbestos project inspection and checklist	11/20/87-12/18/87	5	L.C. Vaughn/PSAPCA	Files/PSAPCA	

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AR 10.3.3 0013	10.3.3 Notices of Intent to Remove or Encapsulate Asbestos/ Inspection Reports and NOVs	Job Summary #8702942-1 regarding asbestos project inspection and checklist	12/14/87-1/6/88	4	L.C. Vaughn/PSAPCA	Files/PSAPCA	
AR 10.3.3 0014	10.3.3 Notices of Intent to Remove or Encapsulate Asbestos/ Inspection Reports and NOVs	Job Summary #8702945-1 regarding asbestos project inspection and checklist	12/14/87-1/30/87	7	M.A. Miller and L.C. Vaughn/PSAPCA	Files/PSAPCA	
AR 10.3.3 0015	10.3.3 Notices of Intent to Remove or Encapsulate Asbestos/ Inspection Reports and NOVs	Job Summary #8702946-1 regarding asbestos project inspection and checklist	12/16/87-3/20/88	7	M.A. Miller and L.C. Vaughn/PSAPCA	Files/PSAPCA	
AR 10.3.3 0016	10.3.3 Notices of Intent to Remove or Encapsulate Asbestos/ Inspection Reports and NOVs	Job Summary #870415-3 regarding asbestos project inspection and checklist	2/21/87-5/30/87	15	R.J. Gribbon/PSAPCA	Files/PSAPCA	
AR 10.3.3 0017	10.3.3 Notices of Intent to Remove or Encapsulate Asbestos/ Inspection Reports and NOVs	Job Summary #870425-1 regarding asbestos project inspection and checklist	3/9/87-4/10/87	8	R.J. Gribbon/PSAPCA	Files/PSAPCA	
AR 10.3.3 0018	10.3.3 Notices of Intent to Remove or Encapsulate Asbestos/ Inspection Reports and NOVs	Inspection Report	3/25/87	3	R.J. Gribbon/PSAPCA	Files/PSAPCA	
AR 10.3.3 0019	10.3.3 Notices of Intent to Remove or Encapsulate Asbestos/ Inspection Reports and NOVs	Job Summary #870426-2 regarding asbestos project inspection and checklist	3/5/87-6/30/87	11	R.J. Gribbon/PSAPCA	Files/PSAPCA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 10.3.3 0020	10.3.3 Notices of Intent to Remove or Encapsulate Asbestos/ Inspection Reports and NOVs	Job Summary #870427-2 regarding asbestos project inspection and checklist	3/5/87-6/30/87	9	R.J. Gribbon/PSAPCA	Files/PSAPCA	
AR 10.3.3 0021	10.3.3 Notices of Intent to Remove or Encapsulate Asbestos/ Inspection Reports and NOVs	Notice of Intent to Remove or Encapsulate Asbestos	2/26/87	3	Invirex and ASARCO	PSAPCA	
AR 10.3.3 0022	10.3.3 Notices of Intent to Remove or Encapsulate Asbestos/ Inspection Reports and NOVs	Asbestos Project Inspection Report	4/9/87	18	R.J. Gribbon/PSAPCA	Files/PSAPCA	
AR 10.3.3 0023	10.3.3 Notices of Intent to Remove or Encapsulate Asbestos/ Inspection Reports and NOVs	Job Summary #870495-2 regarding asbestos project inspection and checklist	5/22/87-6/30/87	18	R.J. Gribbon/PSAPCA	Files/PSAPCA	
10.4 Onsite RI/FS							
10.4.1 Correspondence							
AR 10.4.1 0001	10.4 Onsite RI/FS	Letter/Notification to Asarco that it is in violation of the 9/10/86 Administrative Order on Consent	5/7/90	3	Charles E. Findley/EPA	Armand L. Labbe/Asarco, Inc.	
AR 10.4.1 0002	10.4 Onsite RI/FS	Attachments A, B, and C to 5/7/90 violation notice	5/7/90	21	EPA	Asarco, Inc.	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 10.4.1 0003	10.4 Onsite RI/FS	Letter/Response to 5/17/90 violation notice	5/14/90	5	George W. Anderson/Asarco, Inc.	Charles E. Findley/EPA	
AR 10.4.1 0004	10.4 Onsite RI/FS	Letter/Cover to responses to comments made in 5/7/90 letter to Asarco	5/21/90	1	Thomas L. Aldrich/Asarco, Inc.	Charles E. Findley/EPA	
AR 10.4.1 0005	10.4 Onsite RI/FS	Responses to Attachments A, B, and C of EPA's 5/7/90 violation notice	5/21/90	19	Asarco, Inc.	EPA	
AR 10.4.1 0006	10.4 Onsite RI/FS	Letter/Follow-up of 5/22/90 meeting regarding EPA Administrative Order on Consent No. 1086-04-24-106	5/25/90	3	Michael R. Thorp/Heller, et al.	Ed Kowalski/EPA	
AR 10.4.1 0007	10.4 Onsite RI/FS	Letter/Response to 5/25/90 letter concerning Asarco's rights under dispute resolution	6/8/90	2	Charles E. Findley/EPA	Michael R. Thorp/Heller, et al.	
10.5 Expedited Response Action (ERA)							
10.5.1 Correspondence							
AR 10.5.1 0001	10.5.1 Correspondence	Letter/Thirty-day extension for submission of good faith proposal	4/28/88	2	Charles Findley/EPA	Michael Thorp/ Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	
AR 10.5.1 0002	10.5.1 Correspondence	Letter/Draft AO, TPCHD Urinary Arsenic Study, and Black & Veatch soil sampling data	5/18/88	1	Allan Bakalian/EPA	Michael Thorp/ Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	
10.6 Notice Letters and Requests for Information							
AR 10.6 0001	10.6 Notice Letters and Request for Information	Notification to ASARCO as potentially responsible party (PRP) regarding Commencement Bay Superfund site	3/18/82	2	William Sullivan/EPA	ASARCO	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 10.6 0002	10.6 Notice Letters and Request for Information	Notification of potential liability for metals contamination of the environment in the vicinity of ASARCO and request for information	7/27/84	3	Charles Findley/EPA	Lawrence Lindquist/ ASARCO	
AR 10.6 0003	10.6 Notice Letters and Request for Information	EPA comments to ASARCO's response to notification of potential liability and request for information	10/29/84	2	Charles Findley/EPA	Lawrence Lindquist/ ASARCO	
AR 10.6 0004	10.6 Notice Letters and Request for Information	EPA review of data from ASARCO Department of Environmental Sciences (DOE)	1/7/85	1	Barbara Lither/EPA	Michael Thorp/ Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	
AR 10.6 0005	10.6 Notice Letters and Request for Information	EPA request for additional information from DOE	3/6/85	3	Barbara Lither/EPA	Michael Thorp/ Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	
AR 10.6 0006	10.6 Notice Letters and Request for Information	Notification of potential liability for metals contamination of the environment after closure of smelter and request for information	12/13/85	4	Charles Findley/EPA	Lawrence Lindquist/ ASARCO	
AR 10.6 0007	10.6 Notice Letters and Request for Information	Partial response time extension for request for information dated 12/13/85	12/23/85	1	Barbara Lither/EPA	Michael Thorp/ Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	
AR 10.6 0008	10.6 Notice Letters and Request for Information	Notification of proposed expedited response action in Ruston	2/24/88	3	Charles Findley/EPA	George Anderson/ASARCO	
10.7 Responses to Notice Letters and Requests for Information							
AR 10.7 0001	10.7 Responses to Notice Letters and Requests for Information	ASARCO response to notification of PRP regarding Commencement Bay Superfund site	4/12/82	2	James Woods/ASARCO	Kathy Summerlee/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 10.7 0002	10.7 Responses to Notice Letters and Requests for Information	ASARCO request for extension of time to answer request for information dated 7/27/84	8/24/84	2	Michael Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	Barbara Lither/EPA	
AR 10.7 0003	10.7 Responses to Notice Letters and Requests for Information	ASARCO response to EPA notification letter and request for information dated 7/27/84	9/13/84	58	Lawrence Lindquist/ASARCO	Al Ewing/EPA, Region X	
AR 10.7 0004	10.7 Responses to Notice Letters and Requests for Information	EPA review of data at DOE	11/16/84	1	Lawrence Lindquist/ASARCO	Charles Findley/EPA	
AR 10.7 0005	10.7 Responses to Notice Letters and Requests for Information	EPA review of data at DOE	12/19/84	5	Michael Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	Barbara Lither/EPA	
AR 10.7 0006	10.7 Responses to Notice Letters and Requests for Information	Inventory of records at DOE	1/29/85	7	Michael Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	Barbara Lither/EPA	
AR 10.7 0007	10.7 Responses to Notice Letters and Requests for Information	Soil, water, and vegetation data from DOE	2/16/85	28	Donald Robbins/ASARCO	Kim Lowry/University of Washington	
AR 10.7 0008	10.7 Responses to Notice Letters and Requests for Information	Additional information from DOE with attached soil sampling data	2/22/85	16	Michael Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	Barbara Lither/EPA	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 10.7 0009	10.7 Responses to Notice Letters and Requests for Information	Questions and clarifications on ASARCO data from DOE with attached data	2/27/85	39	Kim Lowry/University of Washington	Dana Davoli/EPA, Region X	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 10.7 0010	10.7 Responses to Notice Letters and Requests for Information	Data from DOE and from Pinto-Enterline study and Phillip-Enterline study	3/18/85	1	Michael Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	Barbara Lither/EPA	
AR 10.7 0011	10.7 Responses to Notice Letters and Requests for Information	Responses to specific questions and status report on ASARCO responses	4/4/85	7	Donald Robbins/ASARCO	Kim Lowry/University of Washington	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 10.7 0012	10.7 Responses to Notice Letters and Requests for Information	Review of records located at the Tacoma smelter	4/23/85	1	Michael Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	Kim Lowry/University of Washington	
AR 10.7 0013	10.7 Responses to Notice Letters and Requests for Information	Meteorological curtailment data compiled at the ASARCO Smelter	5/1/85	28	Lawrence Lindquist/ASARCO	Kim Lowry/University of Washington	
AR 10.7 0014	10.7 Responses to Notice Letters and Requests for Information	Preliminary response to notification of potential liability for metals contamination of the environment and request for information dated 12/13/85	12/31/85	53	Michael Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	Carol Thompson/EPA	
AR 10.7 0015	10.7 Responses to Notice Letters and Requests for Information	Final response to notification of potential liability for metals contamination of the environment and request for information dated 12/13/85	1/15/86	912	Michael Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	Carol Thompson/EPA	
AR 10.7 0016	10.7 Responses to Notice Letters and Requests for Information	Follow-up to responses dated 12/31/85 nd 1/15/86	2/21/86	5	Michael Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	Carol Thompson/EPA	
AR 10.7 0017	10.7 Responses to Notice Letters and Requests for Information	Response to notification of proposed expedited response action dated 2/24/88	4/18/88	4	Michael Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	Charles Findley/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 10.7 0018	10.7 Responses to Notice Letters and Requests for Information	Response regarding good faith proposal and comments on proposed expedited response action	5/27/88	39	G.W. Anderson/ASARCO	Charles Findley/EPA	
AR 10.7 0019	10.7 Responses to Notice Letter and Requests for Information	Follow-up response to Notice Letter dated 2/24/88 concerning the Ruston ERA	7/15/88	5	G.W. Anderson/Asarco	Charles E. Findley/EPA	
10.8 Offsite RI/FS							
10.8.1 Correspondence							
AR 10.8.1 0001	10.8.1 Correspondence	Letter/Discussion of Ruston Residential RI/FS. Includes copy of draft Administrative Order on Consent	7/11/89	46	Charles E. Findley/EPA	George Anderson/ASARCO, Inc	
AR 10.8.1 0002	10.8.1 Correspondence	Letter/Request for additional time to present a "good faith proposal."	7/24/89	2	Michael R. Thorp/Heller, Ehrman, White & McAuliffe	Janet O'Hara/EPA	
AR 10.8.1 0003	10.8.1 Correspondence	Letter/Extension granted to submit "good faith proposal."	8/4/89	1	Janet B. O'Hara/EPA	Michael R. Thorp/ Heller, Ehrman, White & McAuliffe	
AR 10.8.1 0004	10.8.1 Correspondence	Letter/Notification that ASARCO plans official response to EPA on 8/18/89	8/14/89	1	Michael R. Thorp/Heller, Ehrman, White & McAuliffe	Janet O'Hara/EPA	
AR 10.8.1 0005	10.8.1 Correspondence	Letter/Presentation of a proposal by Asarco as a substitute to performing an offsite RI/FS	8/18/89	6	G.W. Anderson/Asarco	Robie G. Russell/EPA	
AR 10.8.1 0006	10.8.1 Correspondence	Letter/Response to 8/18/89 letter concerning Asarco's suggestion to not do an offsite RI/FS (see also 10.5.1 0003)	8/30/89	3	Charles E. Findley/EPA	George Anderson/Asarco	
AR 10.8.1 0007	10.8.1 Correspondence	Letter/Response to various letters from EPA concerning an offsite RI/FS	9/12/89	5	G.W. Anderson/Asarco	Charles E. Findley/EPA	

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AR 10.8.1 0008	10.8.1 Correspondence	Letter/Notice of correction to 9/12/89 letter from G.W. Anderson	9/13/89	2	Michael R. Thorp/Heller, Ehrman, White & McAuliffe	Charles E. Findley/EPA	
AR 10.8.1 0009	10.8.1 Correspondence	Letter/Supplement to Asarco's previous letters, more fully responding to EPA's request for an RI/FS proposal (includes a scope of work)	10/9/89	10	Michael R. Thorp/Heller, et al.	Janet B. O'Hara/EPA	
AR 10.8.1 0010	10.8.1 Correspondence	Letter/Notice that EPA will be conducting the offsite RI/FS	10/31/89	2	Charles E. Findley/EPA	George Anderson/Asarco	
AR 10.8.1 0011	10.8.1 Correspondence	Letter/Cover for a letter sent by G.W. Anderson to the Morning New Tribune	11/7/89	4	Michael R. Thorp/Heller, et al.	Janet O'Hara/EPA	
AR 10.8.1 0012	10.8.1 Correspondence	Letter/Acknowledgement of receipt of 10/31/89 letter officially confirming EPA's decision to conduct the Ruston/North Tacoma RI/FS	11/20/89	2	G.W. Anderson/Asarco	Charles E. Findley/EPA	
	10.9.1 Access Correspondence						
AR 10.9.1 0001	10.9.1 Access Correspondence	Letter/Containing points of clarification concerning access for the Ruston RI/FS	8/30/89	4	Charles E. Findley/EPA	Robert Pudlo, Town Council Members/Town of Ruston	
AR 10.9.1 0002	10.9.1 Access Correspondence	Letter/Copy of Resolution No. 262 concerning access for the Ruston ERA	9/18/89	2	Loretta Prettyman/Town of Ruston	Charles E. Findley/EPA	
	10.9.2 Access Agreements						
AR 10.9.2 0001	10.9.2 Access Agreements	Letter/Update on most recent status of access agreements for Asarco remediation activities	9/28/89	5	Polly A. Lord/Heller, et al.	Keith Rose/EPA	
AR 10.9.2 0002	10.9.2 Access Agreements	Letter/Request for signature on access agreements for remediation at Tacoma Smelter	9/28/89	5	Polly A. Lord/Heller, et al.	William O. Hart/Asarco	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 10.9.2 0003	10.9.2 Access Agreements	Summary of status of access agreements for Asarco remediation in Ruston	10/16/89	4	Polly A. Lord/Heller, et al.	Alan Bakalian/EPA	

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SECTION 11.0 NON-CERCLA ENFORCEMENT - CLEAN AIR ACT (CAA)/STATE IMPLEMENTATION PLAN (SIP)

Doc #8	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
11.1	Correspondence						
AR 11.1 0001	11.1 Correspondence	Letter/Confirmation of 9/26/72 office conference concerning results of arsenic and lead study, control of arsenic emissions, and continuous sulfur dioxide stack monitoring	9/29/72	3	A.R. Dammkoehler/Air Pollution Control Officer/Puget Sound Air Pollution Control Agency (PSAPCA)	A.L. Labbe, Plant Manager/ASARCO	
AR 11.1 0002	11.1 Correspondence	Letter/Request for EPA technical assistance in establishing ambient air and emissions arsenic standards with attached letter from Washington Department of Social and Health Services (DSHS) concerning sampling and analysis results regarding arsenic levels in blood and urine	11/14/72	6	A.R. Dammkoehler/PSAPCA	James Agee, Regional Administrator/EPA, Region X	
AR 11.1 0003	11.1 Correspondence	Telephone conversation record/Arsenic study and standards	11/21/72	1	Terry Strong/DSHS		
AR 11.1 0004	11.1 Correspondence	Telephone conversation record/EPA Region X response to arsenic problem at ASARCO	11/24/72	1	Unknown	Terrence Strong/DSHS	
AR 11.1 0005	11.1 Correspondence	Telephone conversation record/Status of report to be prepared by Office of Science & Technology on control of cadmium, PCB, and arsenic emissions	11/28/72	1	Unknown	Orin Stopinski/Office of Director-EPA	
AR 11.1 0006	11.1 Correspondence	Report/Materials used and discharged at ASARCO	1/31/73	1	A.L. Labbe/ASARCO	Andrew Wright/PSAPCA	
AR 11.1 0007	11.1 Correspondence	Letter/Compliance schedule according to Section 9.19 of Regulation 1	3/14/73	2	A.L. Labbe/ASARCO	Board of Directors/PSAPCA	
AR 11.1 0008	11.1 Correspondence	Letter/Compliance Schedules 390, 391, and 392 regarding arsenic control	4/13/73	2	A.R. Dammkoehler/PSAPCA	A.L. Labbe/ASARCO	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 11.1 0009	11.1 Correspondence	Letter/Information required to evaluate emissions to air	5/24/73	3	A.R. Dammkoehler/PSAPCA	A.L. Labbe/ASARCO	
AR 11.1 0010	11.1 Correspondence	Letter/Information required to evaluate emissions to air **0010 DELETED 3/92-SEE EXPLANATION AT END OF INDEX**	7/6/73	4	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA	
AR 11.1 0011	11.1 Correspondence	Letter/Compliance Schedule 452 regarding reverberatory furnace slag cleaning operation	7/30/74	1	A.R. Dammkoehler/PSAPCA	A.L. Labbe/ASARCO	
AR 11.1 0012	11.1 Correspondence	Letter/Staff report on ASARCO arsenic control program	11/9/73	1	A.R. Dammkoehler/PSAPCA	Board of Directors/PSAPCA	
AR 11.1 0013	11.1 Correspondence	Letter/Information required to evaluate emissions to air	12/13/73	1	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA	
AR 11.1 0014	11.1 Correspondence	Letter/Request for source testing assistance at ASARCO	9/13/74	2	A.R. Dammkoehler/PSAPCA	Clifford Smith, Regional Administrator/EPA, Region X	
AR 11.1 0015	11.1 Correspondence	Letter/Request for source testing assistance at ASARCO	11/17/74	1	Clifford Smith/EPA	A.R. Dammkoehler/PSAPCA	
AR 11.1 0016	11.1 Correspondence	Letter/SIP regarding sulfur dioxide emission controls	10/4/74	2	B.C. Eusebio/EPA, Region X	Donald Goodwin/EPA, Region X	
AR 11.1 0017	11.1 Correspondence	Memorandum/SIP and sulfur dioxide emission controls under 1976 variance	4/22/75	2	Michael James/EPA, Region X	Gary Young/EPA, Region X	
AR 11.1 0018	11.1 Correspondence	Telephone conversation record/ Applicability of local ambient standards under variance to ASARCO	5/1/75	1	Michael James/EPA		
AR 11.1 0019	11.1 Correspondence	Telephone conversation record/Visible and fugitive emissions problems	11/5/75	2	Ron Rusby	Mark Hooper/EPA, Region X	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 11.1 0020	11.1 Correspondence	Telephone conversation record/ Injunction against PSAPCA enforcement of its regulations	11/5/75	4	Mark Hooper/EPA	A.R. Dammkoehler/PSAPCA	
AR 11.1 0021	11.1 Correspondence	Memorandum/Local regulations as revisions to SIP	11/13/75	2	Jean Schueneman/EPA	Directors/Air and Hazardous Materials Divisions-EPA, Regions I, III-X and Director/ Environmental Programs Division-EPA, Region II	
AR 11.1 0022	11.1 Correspondence	Memorandum/Comments on Puget Sound Intrastate Air Quality Control Region applicability to PSAPCA sulfur dioxide control strategy	12/1/75	2	Richard Rhoads/EPA	Gary Young/EPA	
AR 11.1 0023	11.1 Correspondence	Memorandum/ASARCO particulate control	8/27/76	1	Mark Hooper/EPA	Rick White/EPA, Region X	
AR 11.1 0024	11.1 Correspondence	Memorandum/Request for legal opinion on SIP requirements applicable to ASARCO	9/20/76	1	Douglas Hansen/EPA, Region X	Theodore Rogowski/EPA, Region X	
AR 11.1 0025	11.1 Correspondence	Memorandum/ASARCO particulate control program	10/4/76	1	Richard White/EPA	George Hofer/EPA, Region X	
AR 11.1 0026	11.1 Correspondence	Memorandum/Questions from EPA concerning relationship of SIP to stringency of the Washington Department of Ecology (WDOE) and PSAPCA regulation	11/14/76	2	Hank Droege/WDOE	Pete Hildebrandt/WDOE	
AR 11.1 0027	11.1 Correspondence	Notes/ASARCO 10/21/76 meeting	10/21/76	4	Mark Hooper/EPA		
AR 11.1 0028	11.1 Correspondence	Memorandum/ASARCO particulate control program	11/2/76	3	Larry Sims/EPA, Region X	Rick White/EPA	
AR 11.1 0029	11.1 Correspondence	Telephone conversation record/PSAPCA observation of visible emissions and issuance of notices of violations	11/19/76	1	Ron Busby/EPA	Rick White/EPA	
AR 11.1 0030	11.1 Correspondence	Memorandum/Reasonably available control technology (RACT) at non-ferrous smelters	11/23/76	2	Robert Schell/EPA	Jerry Ostrov/EPA	
AR 11.1 0031	11.1 Correspondence	Letter/PSAPCA variance to ASARCO and proposed changes to SIP	3/1/77	3	Peter Hildebrandt/WDOE	Clark Gaulding/EPA, Region X	
AR 11.1 0032	11.1 Correspondence	Memorandum/Observation of source test of outlet from ASARCO roaster baghouse for mercury	2/20/79	2	Source Test Engineer/EPA	Chief Engineer/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 11.1 0033	11.1 Correspondence	Telephone conversation record/Testing program undertaken for ASARCO as condition of 1-year opacity variance for main stack	3/18/80	4	Michael Pilat/University of Washington	Wayne Grotheer/EPA, Region X	
AR 11.1 0034	11.1 Correspondence	Memorandum/ASARCO SIP revision	4/10/79	2	W. James Sweeney/EPA	Clark Gaulding/EPA	
AR 11.1 0035	11.1 Correspondence	Memorandum/Enforcement action against ASARCO for opacity violations of PSAPCA regulations	4/14/80	1	Mark H. Hooper/EPA	John A. Hamill/EPA, Region X	
AR 11.1 0036	11.1 Correspondence	Transmittal slip and letter/Discussion between ASARCO and EPA representatives during 9/23/80 meeting	10/23/80	3	Richard Thiel/EPA, Region X	A.L. Labbe/ASARCO	
AR 11.1 0037	11.1 Correspondence	Transmittal slip and notes/Discussion with Art Dammkoehler regarding ASARCO arsenic emissions	4/15/81	3	Unknown		
AR 11.1 0038	11.1 Correspondence	Memorandum/Application of Section 9.19(c) for visual emissions from converter building at ASARCO	5/11/81	1	Supervisor-II-Enforcement	Chief-Enforcement/PSAPCA	
AR 11.1 0039	11.1 Correspondence	Transmittal slip/Outline on ASARCO air pollution issues	12/7/81	4	Mark Hooper/EPA	G. Hofer/EPA	
AR 11.1 0040	11.1 Correspondence	Letter/Need for information being reported by ASARCO to EPA with attached cover letter and curtailment report for 9/19-25/82	10/27/82	4	John Spencer/EPA, Region X	L.W. Lindquist, Plant Manager/ASARCO	
AR 11.1 0041	11.1 Correspondence	Letter/Study entitled "Characterization of Visible Plumes From A Copper Smelter"	2/8/83	2	A.R. Dammkoehler/PSAPCA	L.W. Lindquist/ASARCO	
AR 11.1 0042	11.1 Correspondence	Letter/Issuance of notice of violation for alleged violation of 20% capacity standard by ASARCO slag dumping operation	2/15/84	3	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA	
AR 11.1 0043	11.1 Correspondence	Telephone conversation record/Stack accretions and concussion shocking stack-cleaning at ASARCO	4/23/84	1	G. Whaley/Pacific Environmental Services, Inc.	L.W. Lindquist/ASARCO	
AR 11.1 0044	11.1 Correspondence	Letter/Inspection and operation of asbestos waste disposal site	8/2/85	1	A.R. Dammkoehler/PSAPCA	C.E. Dungey/ASARCO	
AR 11.1 0045	11.1 Correspondence	Telephone conversation record/Requirement to meet WDOE regulation of 1,000 parts/million for sulfur dioxide emissions	Unknown	1	Rick White/EPA	Hank Droege/WDOE	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
11.2 Action Chronology-Background							
AR 11.2 0001	11.2 Action Chronology-Background	Air contaminant emissions chronology of control efforts	8/9/83	18	PSAPCA		
AR 11.2 0002	11.2 Action Chronology-Background	Letter/Attached report on ASARCO air pollution problem	1/27/72	37	Bart Klein	Unknown	
AR 11.2 0003	11.2 Action Chronology-Background	Summary report/Overview of recent arsenic activities in public and private sectors	11/6/74	14	Don Marlow/EPA	Glenn Schweitzer/EPA	
AR 11.2 0004	11.2 Action Chronology-Background	Memorandum/General information on ASARCO enforcement	Unknown	3	Donald Dubois, Regional Administrator/EPA, Region X	Barbara Blum/EPA, Region X	
AR 11.2 0005	11.2 Action Chronology-Background	Background information on ASARCO enforcement	11/11/77	3	Mark Hooper/EPA		
AR 11.2 0006	11.2 Action Chronology-Background	Background information on ASARCO regulatory enforcement	2/2/79	6	Unknown		
AR 11.2 0007	11.2 Action Chronology-Background	Memorandum/ASARCO violations of PSAPCA regulations with attached point source data	5/79	2	David Tetta/PEDCO, Environmental Inc.		
AR 11.2 0008	11.2 Action Chronology-Background	Notice of violation staff report	10/30/80	7	EPA		
AR 11.2 0009	11.2 Action Chronology-Background	Transmittal slip/Briefing document outlining ASARCO issues	2/9/83	13	Mark Hooper/EPA	Chuck Findley/EPA, Region X	
AR 11.2 0010	11.2 Action Chronology-Background	Memorandum/Notice of violation for excessive visible emissions from slag dumping	2/1/83	1	EPA		
AR 11.2 0011	11.2 Action Chronology-Background	List/Background documents on EPA enforcement and health studies	Unknown	2	EPA		
AR 11.2 0012	11.2 Action Chronology-Background	Background document/Slag dumping, granulation, process weight, main stack opacity, Superfund, sulfur dioxide emissions, and arsenic NESHAPS	Unknown	20	EPA		
AR 11.2 0013	11.2 Action Chronology-Background	Regulatory options available under 1970 Clean Air Act	Unknown	8	EPA		
11.3 EPA Region X Task Force Studies							
11.3.1 Correspondence							

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 11.3.1 0001	11.3.1 Correspondence	Memorandum/Technical assistance and support to access vegetation damage by sulfur dioxide from copper smelters	2/9/73	2	J.J. Schueneman/Officer of Air Quality Planning and Standards (OAQPS)-EPA	Norman Glass/Division of Ecology Research-Corvallis, Oregon	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 11.3.1 0002	11.3.1 Correspondence	Memorandum/Data needs for ASARCO sulfur dioxide control strategy evaluation	12/18/74	2	Charles Findley/EPA	Gary Young/EPA	
AR 11.3.1 0003	11.3.1 Correspondence	Memorandum/Heavy metal emissions at ASARCO	1/7/75	3	William Lappenbusch/EPA, Region X	Douglas Hansen/EPA	
AR 11.3.1 0004	11.3.1 Correspondence	Memorandum/Sulfur dioxide portion of issue paper	2/11/75	1	Gary Young/EPA	Douglas Hansen/EPA	
AR 11.3.1 0005	11.3.1 Correspondence	Cover letter/Comments on ASARCO strategy document	2/11/75	2	James Everts/EPA, Region X	Douglas Hansen/EPA	
		0005 DELETED 3/92-SEE EXPLANATION AT END OF INDEX					
AR 11.3.1. 0006	11.3.1 Correspondence	Memorandum/Progress report on health hazards evaluation of ASARCO and heavy metals	2/11/75	2	William Lappenbusch/EPA	Douglas Hansen/EPA	
AR 11.3..1 0007	11.3.1 Correspondence	Cover letter/Air program discussion paper regarding status of variance to sulfur dioxide provision of Regulation 1 and relationship between elements of variance, EPA smelter policy, and Clean Air Act requirements	2/19/75	69	Gary Young/EPA	Michael James/EPA	
AR 11.3.1 0008	11.3.1 Correspondence	Letter/Comments on draft proposed strategy for solving ASARCO issues	2/26/75	2	A.R. Dammkoehler/PSAPCA	Jim Everts/EPA	
		0008 DELETED 3/92-SEE EXPLANATION AT END OF INDEX					
AR 11.3.1 0009	11.3.1 Correspondence	Memorandum/ASARCO strategy document	2/26/76	1	Douglas Hansen/EPA	Clifford Smith/EPA	
AR 11.3.1 0010	11.3.1 Correspondence	Cover letter/Strategy document for resolving ASARCO issues	3/17/75	7	Douglas Hansen/EPA	Robert Jacobson/Office of Public Affairs-EPA, Region X	
AR 11.3.1 0	11.3.1 Correspondence	Memorandum/Meeting with Region X to outline OAQPS activities on arsenic and to discuss Region X strategy paper and heavy metals paper	3/19/75	3	Joe Cooper/OAQPS-EPA	EPA	
		0011 DELETED 3/92-SEE EXPLANATION AT END OF INDEX					

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 11.3.1 0012	11.3.1 Correspondence	Letter/Toxic substances and ASARCO variance request	4/22/75	2	William Lappenbusch/EPA	Eugene Wallen/Office of Toxic Substances (OTS)-EPA	
AR 11.3.1 0013	11.3.1 Correspondence	Memorandum/Implementation of ASARCO strategy and responsibilities	4/25/75	2	Douglas Hansen/EPA	ASARCO Task Force members	
AR 11.3.1 0014	11.3.1 Correspondence	Memorandum/Enforcement division support for air and hazardous materials division ASARCO effort	4/29/75	3	Leonard Miller/EPA	Douglas Hansen/EPA	
AR 11.3.1 0015	11.3.1 Correspondence	Memorandum/Implementation of Region X ASARCO strategy	5/20/75	3	Douglas Hansen/EPA	Division Directors, Operations Offices/ASARCO task force members	
AR 11.3.1 0016	11.3.1 Correspondence	Memorandum/OTS arsenic and epidemiology study	7/11/75	2	Douglas Hansen/EPA	Glenn Schweitzer/OTS-EPA	
AR 11.3.1 0017	11.3.1 Correspondence	Memorandum/Monthly report on ASARCO related heavy metals studies	8/11/75	2	James Everts/EPA	Dick Hatchard/EPA, Region X	
AR 11.3.1 0018	11.3.1 Correspondence	Memorandum/Status report on ASARCO strategy implementation	9/18/75	8	Douglas Hansen/EPA	Clifford Smith/EPA	
AR 11.3.1 0019	11.3.1 Correspondence	Letter/11/20/75 meeting with Doug Hansen on ASARCO ???	11/24/75	2	James Weigold/OAQPS-EPA	See distribution list on document	
AR 11.3.1 0020	11.3.1 Correspondence	Letter/EPA-sponsored studies for control particulate, arsenic, and sulfur dioxide emissions	1/22/76	4	Douglas Hansen/EPA	Everett Foster/PSAPCA	
AR 11.3.1 0021	11.3.1 Correspondence	Cover letter/Summary document on EPA involvement with arsenic emissions problems	2/20/76	5	Clifford Smith/EPA	Russell Train, Administrator/EPA	
AR 11.3.1 0022	11.3.1 Correspondence	Letter/Status of EPA and OTS studies with attached summary document on EPA involvement in arsenic emissions problems and status of OTS study	3/8/76	9	Douglas Hansen/EPA	A.W. Breidenbach/EPA	
AR 11.3.1 0023	11.3.1 Correspondence	Transmittal slip/Memorandum regarding status of EPA-sponsored studies	7/12/76	2	Douglas Hansen/EPA	Donald Dubois, Regional Administrator/EPA, Region X	
AR 11.3.1 0024	11.3.1 Correspondence	Memorandum/ASARCO issue paper timetable	7/26/76	1	Douglas Hansen/EPA	Donald Dubois/EPA	
AR 11.3.1 0025	11.3.1 Correspondence	Memorandum/Status of PSAPCA variances with attached chart showing time line for ASARCO effort	4/20/76	2	Douglas Hansen/EPA	Division Directors, Stack Office Directors, and Operations Office Directors/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 11.3.1 0026	11.3.1 Correspondence	Document/ASARCO status	8/5/76	3	Unknown		
AR 11.3.1 0027	11.3.1 Correspondence	ASARCO strategy with attached time line charts	8/5/76	3	EPA, Region X		
AR 11.3.1 0028	11.3.1 Correspondence	Cover memorandum/Determination of ASARCO stack gas concentration at 90% sulfur dioxide control	9/15/76	5	Kenneth Lepic/EPA	Richard Du Bey/EPA	
AR 11.3.1 0029	11.3.1 Correspondence	Memorandum/Request for legal opinion on SIP requirements applicable to ASARCO	9/20/76	1	Douglas Hansen/EPA	Theodore Rogowski/EPA	
AR 11.3.1 0030	11.3.1 Correspondence	Memorandum/ASARCO 9/17/76 meeting	9/21/76	2	Clark Gaulding/EPA	Files/EPA	
AR 11.3.1 0031	11.3.1 Correspondence	Memorandum/ASARCO 9/23/76 committee meeting	9/23/76	3	Clark Gaulding/EPA	Douglas Hansen/EPA	
AR 11.3.1 0032	11.3.1 Correspondence	Memorandum/Air and Hazardous Materials Division recommendations for ASARCO control requirements	6/24/77	4	Douglas Hansen/EPA	Lloyd Reed/EPA, Region X	
AR 11.3.1 0033	11.3.1 Correspondence	Memorandum/Status of EPA regional and Headquarters arsenic work	1/31/78	2	George Hofer/EPA	Dick Bauer, Ben Eusebio, Clark Gaulding/EPA	
AR 11.3.1 0034	11.3.1 Correspondence	Letter/7/26/83 task force meeting with attached documentation of emission factors used to calculate 1982 arsenic emissions from ASARCO	9/1/83	4	A.R. Dammkoehler/PSAPCA	Clark Gaulding/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 11.3.1 0035	11.3.1 Correspondence	Telephone conversation record/Status of preferred standards path analysis for arsenic	6/5	1	Jim Everts/EPA	Jo Cooper/OAQPS-EPA	
AR 11.3.1 0036	11.3.1 Correspondence	Issue Paper/Background document on ASARCO and heavy metals	Unknown	26	EPA		
	11.3.2 Evaluation Of Sulfur Dioxide and Arsenic Control Techniques (PEDCO)						
AR 11.3.2 0001	Evaluation of Sulfur Dioxide and Arsenic Control Techniques	Report entitled "Evaluation of Sulfur Dioxide and Arsenic Control Techniques for ASARCO" **11.3.2/0001 DELETED 3/92-SEE EXPLANATION AT END OF INDEX**	9/76	195	PEDCO Environmental Specialists, Inc.	Industrial Environmental Research Laboratories (IERL) and EPA, Region X	
	11.3.3 Analysis of Sulfuric Acid Plant (PEDCO)						
AR 11.3.3 0001	11.3.3 Analysis of Sulfuric Acid Plant	Report entitled "Analysis of ASARCO Sulfuric Acid Plant" **11.3.3/0001 DELETED 3/92-SEE EXPLANATION AT END OF INDEX**	8/76	77	Tim Browder/PEDCO Environmental Specialists, Inc.	EPA, Region X	
	11.3.4 Assessment of Air Quality Impact of Sulfur Dioxide Emissions (Cramer)						
AR 11.3.4 0001	11.3.4 Assessment of Air Quality Impact of Sulfur Dioxide Emissions	Report entitled "Assessment of Air Quality Impact of Sulfur Dioxide Emissions from ASARCO"	7/76	223	H.E. Cramer, J.F. Bowers, and H.V. Geary/H.E. Cramer Co., Inc.	EPA, Region X	
	11.3.5 Economic Impact of Anticipated Pollution Abatement Costs (A.D. Little)						
AR 11.3.5 0001	11.3.5 Economic Impact of Anticipated Pollution Abatement Cost	Report entitled "Economic Impact of Anticipated Pollution Abatement Costs"-Part I Executive Summary	Unknown	46	Arthur D. Little, Inc.	EPA, Region X	
	11.3.6 Economic Impact of Incremental Pollution Control (A.D. Little)						
AR 11.3.6 0001	11.3.6 Economic Impact of Incremental Pollution Control	Report entitled "Economic Impact of Incremental Pollution Control at ASARCO" **11.3.6/0001 DELETED 3/92-SEE EXPLANATION AT END OF INDEX**	7/77	267	Arthur D. Little, Inc.	EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 11.3.6 0002	11.3.6 Economic Impact of Incremental Pollution Control	Memorandum/Economic panel's conclusions regarding ASARCO **0002 DELETED 3/92-SEE EXPLANATION AT END OF INDEX**	4/8/77	9	Robert Coughlin/EPA, Region X	John Hamill/EPA	
AR 11.3.6 0003	11.3.6 Economic Impact of Incremental Pollution Control	Memorandum/ADL report **0003 DELETED 3/92-SEE EXPLANATION AT END OF INDEX**	8/29/77	24	Robert Coughlin/EPA	Douglas Hansen/EPA	
11.4 Clean Air Act (CAA) Section 113 Proceedings - EPA							
11.4.1 Correspondence							
AR 11.4.1 0001	11.4.1 Correspondence	ASARCO notes/Particulates, arsenic, and sulfur dioxide	11/5/75	1	Mark Hooper/EPA	Files/EPA	
AR 11.4.1 0002	11.4.1 Correspondence	Memorandum/Request for ASARCO visible emission readings for use in supporting EPA enforcement activity	11/8/76	1	Richard White/EPA	George Hofer/EPA	
AR 11.4.1 0003	11.4.1 Correspondence	Telephone conversation records/Section 113 Notice of Violation to ASARCO	11/30/76	2	Richard White/EPA	Peter Hildebrandt and A.R. Dammkoehler/PSAPCA	
AR 11.4.1 0004	11.4.1 Correspondence	Letter/Formal Section 113 Notice of Violation to ASARCO	4/5/77	1	Donald Dubois/EPA	A.R. Dammkoehler/PSAPCA	
AR 11.4.1 0005	11.4.1 Correspondence	Letter/Request for conference to discuss NOV issues	4/11/77	1	A.L. Labbe/ASARCO	Donald Dubois/EPA	
AR 11.4.1 0006	11.4.1 Correspondence	Letter/Recent developments in EPA enforcement action against ASARCO	6/17/77	2	Donald Dubois/EPA	Wilbur Hallauer/WDOE	
AR 11.4.1 0007	11.4.1 Correspondence	Letter/Recent developments in EPA enforcement action against ASARCO	6/17/77	2	Donald Dubois/EPA	A.R. Dammkoehler/PSAPCA	
AR 11.4.1 0008	11.4.1 Correspondence	Letter/EPA effort to verify whether ASARCO had exceeded SIP emissions limitations for particulate matter and sulfur dioxide	11/17/76	1	Richard White/EPA	A.R. Dammkoehler/PSAPCA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 11.4.1 0009	11.4.1 Correspondence	Telephone conversation record/Section 114 requests for information	11/30/76	1	Bob Welsh/ASARCO	Rick White/EPA	
AR 11.4.1 0010	11.4.1 Correspondence	Memorandum/Review of ASARCO Section 114 response	3/14/77	1	Richard White/EPA	George Hofer/EPA	
AR 11.4.1 0011	11.4.1 Correspondence	Letter/Section 113 Notice of Violation to ASARCO	4/5/77	1	Donald Dubois/EPA	Wilbur Hallauer/WDOE	
AR 11.4.1 0012	11.4.1 Correspondence	Letter/ASARCO request for conference pursuant to Section 113 and EPA outstanding economic request for information under Section 114 with attached letter regarding EPA request for information dated 2/3/77	4/25/77	5	Donald Dubois/EPA	A.L. Labbe/ASARCO	
AR 11.4.1 0013	11.4.1 Correspondence	Memorandum/ASARCO Section 114 response	5/25/77	4	Larry Sims/EPA	Mark Hooper/EPA	
AR 11.4.1 0014	11.4.1 Correspondence	Written statement of ASARCO position regarding Section 113 Notice of Violation and request to make letter part of conference record	8/15/77	10	A.L. Labbe/ASARCO	Donald Dubois/EPA	
AR 11.4.1 0015	11.4.1 Correspondence	Letter/Attached request that WDOE issue a primary non-ferrous smelter order to ASARCO	9/27/77	3	Robert Baker/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	Richard Du Bey/EPA, Region X	
AR 11.4.1 0016	11.4.1 Correspondence	Letter/Section 113 proceedings against ASARCO and request for issuance of primary non-ferrous smelter order	10/18/77	2	Richard Du Bey/EPA	Robert Baker/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	
AR 11.4.1 0017	11.4.1 Correspondence	Letter/EPA policy and its applicability to ASARCO application for Variance from PSAPCA Regulation 1	1/30/79	2	Kenneth Brooks/EPA, Region X	A.R. Dammkoehler/PSAPCA	
AR 11.4.1 0018	11.4.1 Correspondence	Letter/Amendment to 11/5/80 Notice of Violation with attached copy of WAC 18-04-040, General Standards For Maximum Permissible Emissions	12/30/80	5	Lloyd Reed/EPA	C.T. Corporation (Registered agent for ASARCO)	
AR 11.4.1 0019	11.4.1 Correspondence	Letter/EPA withdrawal of 12/30/82 Notice of Violation for smelter slag handling and dumping operations with attached PSAPCA inspection reports	3/11/83	6	Michael Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot, & Quinn	Clark Gaulding/EPA	
AR 11.4.1 0020	11.4.1 Correspondence	Memorandum/Slag dumping, notices of violations, and toxicity of arsenic	3/14/83	1	Alexandra Smith/EPA, Region X	John Spencer/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 11.4.1 0021	11.4.1 Correspondence	Letter/EPA evaluation of requests to withdraw 12/30/82 Notice of Violation issued for opacity violations at ASARCO slag dump	3/25/83	1	Clark Gaulding/EPA	Michael Thorp/ Eisenhower, Carlson, Newlands, Reha, Henriot, & Quinn	
	11.4.2 Meetings						
AR 11.4.2 0001	11.4.2 Meetings	Notes/ASARCO and EPA meeting regarding 90% SIP control	Unknown	15	Unknown	Unknown	
AR 11.4.2 0002	11.4.2 Meetings	Notes/Meeting between WDOE and EPA regarding SIP	12/6	5	Unknown	Unknown	
AR 11.4.2 0003	11.4.2 Meetings	Letter/Agreement to hold Section 113 conference on 2/3/83 Notice of Violation	1/21/83	1	Michael Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot, & Quinn	Alexandra Smith/EPA/EPA	
AR 11.4.2 0004	11.4.2 Meetings	Attendance list for ASARCO meeting	2/3/83	1	EPA		
AR 11.4.2 0005	11.4.2 Meetings	Memorandum/ASARCO 2/3/83 meeting on slag dump with attached exhibit list	2/24/83	3	Betty Swan/EPA, Region X	Files/EPA	
AR 11.4.2 0006	11.4.2 Meetings	Memorandum/Meeting with ASARCO on Section 114 letter on arsenic NESHAPS	10/25/83	4	R.E. Jenkins/OAQPS-EPA	Jim Crowder and Susan Grove/ESED-EPA, and John O'Connor and Al Wehe/SASD-EPA	
AR 11.4.2 0007	11.4.2 Meetings	Memorandum/ASARCO 1/27/84 meeting with attached letter regarding process weight source test	2/7/84	7	Wayne Grotheer/EPA	Files/EPA	
	11.4.3 Section 113 Notices Of Violations (NOVs) And Section 114 Requests For Information						
AR 11.4.3 0001	11.4.3 Section 113 NOVs and Section 114 Requests For Information	Letter/Section 114 request for information	10/23/75	6	Douglas Hansen/EPA	A.L. Labbe/ASARCO	
AR 11.4.3 0002	11.4.3 Section 113 NOVs and Section 114 Requests for Information	Letter/Section 114 request for information	11/18/76	7	Donald Dubois/EPA	A.L. Labbe/ASARCO	
AR 11.4.3 0003	11.4.3 Section 113 NOVs and Section 114 Requests For Information	Letter/Section 114 request for information with attached notification letters to PSAPCA and WDOE regarding request for information and formal requests for information and production of documents	2/2/77	15	Donald Dubois/EPA	A.L. Labbe/ASARCO	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 11.4.3 0004	11.4.3 Section 113 NOVs and Section 114 Requests For Information	Letter/Incomplete response to Section 114 Request for Information	2/28/77	1	Donald Dubois/EPA	A.L. Labbe/ASARCO	
AR 11.4.3 0005	11.4.3 Section 113 NOVs and Section 114 Requests For Information	Letter/Section 113 NOV with attached notification letters to PSAPCA and WDOE, Action Memorandum regarding NOV, and formal Notice of Violation	4/5/77	12	Donald Dubois/EPA	A.L. Labbe/ASARCO	
AR 11.4.3 0006	11.4.3 Section 113 NOVs and Section 114 Requests For Information	Receipt for certified mail with attached letter acknowledging receipt of ASARCO information submittal and requesting supplementation of original request for information	5/18/77	4	Donald Dubois/EPA	A.L. Labbe/ASARCO	
AR 11.4.3 0007	11.4.3 Section 113 NOVs and Section 114 Requests For Information	Letter/EPA revision of new source performance standards for primary copper smelters and Section 114 request for information	9/11/81	13	Don Goodwin/EPA	Kenneth Nelson/ASARCO	
AR 11.4.3 0008	11.4.3 Section 113 NOVs and Section 114 Requests For Information	Letter/Unnecessary reporting in response to Section 114 request for information	12/06/82	1	John Spencer/EPA	L.W. Lindquist/ASARCO	
AR 11.4.3 0009	11.4.3 Section 113 NOVs and Section 114 Requests for Information	Receipt for certified mail with attached Section 113 NOV and Section 114 request for information	12/30/82	3	Alexandra Smith/EPA	C.T. Corporation Systems	
AR 11.4.3. 0010	11.4.3 Section 113 NOVs and Section 114 Requests For Information	Receipt for certified mail with attached Section 114 request for information, memorandum regarding slag dumping, transmittal slip with remarks regarding slag dump violations, PSAPCA Notice of Violation for slag dumping and Inspection Report for slag dumping	3/6/84	11	Alexandra Smith/EPA	L.W. Lindquist/ASARCO	
	11.4.4 Responses to Section 114 Requests for Information (ASARCO)						
AR 11.4.4 0001	11.4.4 Responses to Section 114 Requests For Information	Letter/Response to information requested in 10/22/75 letter	12/5/75	32	A.L. Labbe/ASARCO	Douglas Hansen/EPA	
AR 11.4.4 0002	11.4.4 Responses to Section 114 Requests For Information	Letter/Response to information requested in 11/23/76 letter	1/17/77	11	A.L. Labbe/ASARCO	Donald Dubois/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 11.4.4 0003	11.4.4 Responses to Section 114 Requests For Information	Cover letter/Record of arsenic measurements and Resolution No. 359 Quarterly Progress Report for 4th quarter, 1976	1/18/77	5	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA	
AR 11.4.4 0004	11.4.4 Responses to Section 114 Requests For Information	Letter/Response to 11/18/76 request for information	1/28/77	1	A.L. Labbe/ASARCO	Donald Dubois/EPA	
AR 11.4.4 0005	11.4.4 Responses to Section 114 Requests For Information	Letter/Request for information and earlier response	1/31/77	1	A.L. Labbe/ASARCO	Donald Dubois/EPA	
AR 11.4.4 0006	11.4.4 Responses to Section 114 Requests For Information	Letter/Receipt of letter in response to 11/18/76 information request with attached letters of response dated 1/17-28/77	2/14/77	5	Donald Dubois/EPA	A.L. Labbe/ASARCO	
AR 11.4.4 0007	11.4.4 Responses to Section 114 Requests For Information	Letter/2/2/77 request for information and ASARCO position that EPA not entitled to documentation requested	4/6/77	2	A.L. Labbe/ASARCO	Donald Dubois/EPA	
AR 11.4.4 0008	11.4.4 Responses to Section 114 Requests For Information	Letter/Supplemental emissions and monitoring data per 5/18/77 EPA request for information	6/2/77	2	A.L. Labbe/ASARCO	Donald Dubois/EPA	
AR 11.4.4 0009	11.4.4 Responses to Section 114 Requests For Information	Letter/Information required to evaluate emissions to air for 5/77	6/24/77	1	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0010	11.4.4 Responses to Section 114 Requests For Information	Letter/Resolution No. 359 Quarterly Progress Report for 2nd quarter, 1977 with attached report of daily low volume samples of arsenic	7/13/77	4	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0011	11.4.4 Responses to Section 114 Requests For Information	Letter/1977 2nd quarter emissions and monitoring data per 11/18/76 EPA request	7/15/77	3	A.L. Labbe/ASARCO	Donald Dubois/EPA	
AR 11.4.4 0012	11.4.4 Responses to Section 114 Requests For Information	Letter/Information required to evaluate emissions to air and claiming no emissions for 7/77 due to labor strike	8/10/77	1	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0013	11.4.4 Responses to Section 114 Requests For Information	Letter/Resolution No. 359 Quarterly Progress Report for 3rd quarter, 1977	10/17/77	2	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0014	11.4.4 Responses to Section 114 Requests For Information	Cover letter/Third quarter 1977 emissions and monitoring data per 11/18/76 EPA request	10/18/77	2	A.L. Labbe/ASARCO	Donald Dubois/EPA	
AR 11.4.4	11.4.4 Responses to	Letter/Information required to	10/21/77	1	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA	

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0015	Section 114 Requests For Information	evaluate emissions to air for 9/77				and Donald Dubois/EPA	
AR 11.4.4 0016	11.4.4 Responses to Section 114 Requests For Information	Letter/Report of daily low volume samples for arsenic	10/21/77	3	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0017	11.4.4 Responses to Section 114 Requests For Information	Letter/Information required to evaluate emissions to air for 10/77	11/18/77	1	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0018	11.4.4 Responses to Section 114 Requests For Information	Letter/Resolution No. 359 Quarterly Progress Report for 4th quarter, 1977	1/13/78	2	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0019	11.4.4 Responses to Section 114, Request For Information (ASARCO)	Letter/Information required to evaluate emissions to air for 12/77	1/24/78	1	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0020	11.4.4 Responses to Section 114 Requests for Information	Cover letter/Record of arsenic measurements for 9/1/77-12/8/77	1/24/78	3	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0021	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 2/78	4/11/78	1	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR. 11.4.4 0022	11.4.4 Responses to Section 114 Requests for Information	Cover letter/1978 first quarter emissions and monitoring data per 11/18/76 EPA request	4/13/78	2	A.L. Labbe/ASARCO	Donald Dubois/EPA	
AR 11.4.4 0023	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 4/78 with attached cover letter and report of curtailment action for 5/14-20/78	5/24/78	3	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0024	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 5/78	6/28/78		A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA	
AR 11.4.4 0025	11.4.4 Responses to Section 114 Requests for Information	Cover letter/1978 2nd quarter emissions and monitoring data per 11/18/76 EPA request	7/6/78	2	A.L. Labbe/ASARCO	Donald Dubois/EPA	
AR 11.4.4 0026	11.4.4 Responses to Section 114 Requests for Information	Letter/Resolution No. 359 Quarterly Progress Report for 2nd quarter, 1978 with attached report of daily low volume samples and cover letter regarding attached annual progress report submitted under requirements of Resolution No. 359	7/13/78	9	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	

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AR 11.4.4 0027	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 6/78	7/20/78	1	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0028	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 7/78	8/25/78	1	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0029	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 8/78	9/25/78	1	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0030	11.4.4 Responses to Section 114 Requests for Information	Letter/1978 2nd quarter emissions and monitoring data per 11/18/76 EPA request	10/5/78	2	A.L. Labbe/ASARCO	Donald Dubois/EPA	
AR 11.4.4 0031	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 9/78	10/18/78	1	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0032	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 10/78	11/30/78	1	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0033	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 11/78	12/28/78	1	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0034	11.4.4 Responses to Section 114 Requests for Information	Cover letter/1978 4th quarter emission and monitoring data per 11/18/76 EPA request	1/10/79		A.L. Labbe/ASARCO	Donald Dubois/EPA	
AR 11.4.4 0035	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 12/78	1/23/79	1	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0036	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 1/79	3/9/79	1	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0037	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 2/79	4/3/79	1	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0038	11.4.4 Responses to Section 114 Requests for Information	Cover letter/1979 1st quarter emission and monitoring data per 11/18/76 EPA request	4/13/79	2	A.L. Labbe/ASARCO	Donald Dubois/EPA	
AR 11.4.4 0039	11.4.4 Responses to Section 114 Requests for Information	Letter/Resolution No. 359 Quarterly Progress Report for 1st quarter, 1979 with attached report of ASARCO daily low volume samples	4/13/79	6	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	

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AR 11.4.4 0040	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 3/79	5/10/79	1	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0041	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 4/79	5/18/79	1	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA	
AR 11.4.4 0042	11.4.4 Responses to Section 114 Requests for Information	Cover letter/2nd quarter 1979 emissions and monitoring data per 11/18/76 EPA request	7/11/79		A.L. Labbe/ASARCO	Donald Dubois/EPA	
AR 11.4.4 0043	11.4.4 Responses to Section 114 Requests for Information	Resolution No. 359 Quarterly Progress Report for 2nd quarter, 1979 with attached reported daily ASARCO low volume samples	7/12/79	5	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0044	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 7/79	8/30/79	1	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0045	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 8/79	9/20/79	1	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0046	11.4.4 Responses to Section 114 Requests for Information	Cover letter/1979 3rd quarter emissions and monitoring data per 11/18/76 EPA request	10/9/79	2	A.L. Labbe/ASARCO	Donald Dubois/EPA	
AR 11.4.4 0047	11.4.4 Responses to Section 114 Requests for Information	Letter/Resolution No. 359 Quarterly Progress Report for 3rd quarter, 1979 with attached report of daily low volume samples at ASARCO	10/9/79	4	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0048	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 9/79	10/23/79	1	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0049	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 10/79	11/19/79	1	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0050	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 11/79	12/12/79	1	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0051	11.4.4 Responses to Section 114 Requests for Information	Cover letter/1979 4th quarter emissions and monitoring data per 11/18/76 EPA request	1/14/80	2	A.L. Labbe/ASARCO	Donald Dubois/EPA	
AR 11.4.4 0052	11.4.4 Responses to Section 114, Request For Information (AS	Letter/Information required to evaluate emissions to air for 12/79	1/18/80	1	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	

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AR 11.4.4 0053	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 1/80	2/29/80	1	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0054	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 2/80	3/21/80	1	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0055	11.4.4 Responses to Section 114 Requests for Information	Cover letter/1980 1st quarter emission and monitoring data per 11/18/76 EPA request	4/11/80	2	A.L. Labbe/ASARCO	Donald Dubois/EPA	
AR 11.4.4 0056	11.4.4 Responses to Section 114 Requests for Information	Letter/Resolution No. 359 Quarterly Progress Report for 1st quarter, 1980 with attached report of daily low volume samples at ASARCO	4/11/80	4	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0057	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 4/80	6/2/80	1	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0058	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 5/80	6/18/180	1	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0059	11.4.4 Responses to Section 114 Requests for Information	Cover letter/1980 2nd quarter emission and monitoring data per 11/18/76 EPA request	7/9/80	2	A.L. Labbe/ASARCO	Donald Dubois/EPA	
AR 11.4.4 0060	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 6/80	7/22/80	1	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0061	11.4.4 Responses to Section 114 Requests for Information	Cover letter/1980 3rd quarter emission and monitoring data per 11/18/76 EPA request	10/13/80	2	A.L. Labbe/ASARCO	Donald Dubois/EPA	
AR 11.4.4 0062	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 7/80-11/80	12/29/80	1	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0063	11.4.4 Responses to Section 114 Requests for Information	Cover letter/1980 4th quarter emission and monitoring data per 11/18/76 EPA request	1/15/80	4	L. W. Lindquist/ASARCO	Donald Dubois/EPA	
AR 11.4.4 0064	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air	1/19/81	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0065	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 2/81	3/18/81	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	

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AR 11.4.4 0066	11.4.4 Responses to Section 114 Requests for Information	Cover letter/1981 1st quarter emission and monitoring data per 11/18/76 EPA request	4/7/81	2	L.W. Lindquist/ASARCO	Donald Dubois/EPA	
AR 11.4.4 0067	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 3/81	4/16/81	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0068	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 4/81	5/21/81	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0069	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 5/81	6/18/81	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0070	11.4.4 Responses to Section 114 Requests for Information	Cover letter/1981 2nd quarter emissions and monitoring data per 11/18/76 EPA request	7/15/81	2	L.W. Lindquist/ASARCO	Donald Dubois/EPA	
AR 11.4.4 0071	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 6/81	7/29/81	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0072	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 7/81	8/20/81	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and Donald Dubois/EPA	
AR 11.4.4 0073	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 8/81	9/21/81	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and John Spencer, Regional Administrator/EPA, Region X	
AR 11.4.4 0074	11.4.4 Responses to Section 114 Requests for Information	Cover letter/1981 3rd quarter emissions and monitoring data per 11/18/76 EPA request	10/14/81	2	L.W. Lindquist/ASARCO	John Spencer/EPA	
AR 11.4.4 0075	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 9/81	10/16/81	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and John Spencer/EPA	
AR 11.4.4 0076	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 10/81	11/24/81	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and John Spencer/EPA	
AR 11.4.4 0077	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 11/81	12/17/81	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and John Spencer/EPA	
AR 11.4.4 0078	11.4.4 Responses to Section 114 Requests for Information	Letter/1981 4th quarter emissions and monitoring data per 11/18/76 EPA request	1/13/82	2	L.W. Lindquist/ASARCO	John Spencer/EPA	

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AR 11.4.4 0079	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 12/81	1/19/82	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and John Spencer/EPA	
AR 11.4.4 0080	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 1/82	2/19/82	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and John Spencer/EPA	
AR 11.4.4 0081	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 2/82	3/15/82	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and John Spencer/EPA	
AR 11.4.4 0082	11.4.4 Responses to Section 114 Requests for Information	Cover letter/1982 1st quarter emission and monitoring data per 11/18/76 EPA request	4/14/82	3	L.W. Lindquist/ASARCO	John Spencer/EPA	
AR 11.4.4 0083	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 3/82	4/15/82	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and John Spencer/EPA	
AR 11.4.4 0084	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 5/82	6/15/82	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and John Spencer/EPA	
AR 11.4.4 0085	11.4.4 Responses to Section 114 Requests for Information	Cover letter/1982 2nd quarter emission and monitoring data per 11/18/76 EPA request	7/14/82	6	L.W. Lindquist/ASARCO	John Spencer/EPA	
AR 11.4.4 0086	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 6/82	7/22/82	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and John Spencer/EPA	
AR 11.4.4 0087	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 7/82	8/23/82	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and John Spencer/EPA	
AR 11.4.4 0088	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 8/82	9/20/82	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and John Spencer/EPA	
AR 11.4.4 0089	11.4.4 Responses to Section 114 Requests for Information	Cover letter/1982 3rd quarter emissions and monitoring data per 11/18/76 EPA request	10/14/82	3	L.W. Lindquist/ASARCO	John Spencer/EPA	
AR 11.4.4 0090	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 9/82	10/15/82	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and John Spencer/EPA	
AR 11.4.4 0091	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 10/82	11/12/82	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and John Spencer/EPA	
AR 11.4.4	11.4.4 Responses to	Letter/Information required to	12/20/82	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA	

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0092	Section 114 Requests for Information	evaluate emissions to air for 11/82				and John Spencer/EPA	
AR 11.4.4 0093	11.4.4 Responses to Section 114 Requests for Information	Cover letter/1983 4th quarter emissions and monitoring data per 11/18/76 EPA request with attached Resolutions 501, 502, and 503; Quarterly Report for 4th quarter, 1983; and report of daily low volume samples at ASARCO	1/11/83	7	L.W. Lindquist/ASARCO	Ernesta Barnes, Regional Administrator/EPA, Region X	
AR 11.4.4 0094	11.4.4 Responses to Section 114 Requests for Information	Cover letter/1982 4th quarter emission and monitoring data per 11/18/76 EPA request with attached sections from report entitled "Characterization Of Visible Plumes From A Copper Smelter"	1/14/83	19	L.W. Lindquist/ASARCO	John Spencer/EPA	
AR 11.4.4 0095	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 12/82	1/18/83	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and John Spencer/EPA	
AR 11.4.4 0096	11.4.4 Responses to Section 114 Requests for Information	Letter/Response to request for information	1/28/83	4	Michael Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot and Quinn	Daniel Freedman/ Washington Operations Office-EPA	
AR 11.4.4 0097	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 1/83	2/11/83	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and John Spencer/EPA	
AR 11.4.4 0098	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 2/83 with attached sulfur balance for 2/83	3/18/83	3	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and John Spencer/EPA	
AR 11.4.4 0099	11.4.4 Responses to Section 114 Requests for Information	Cover letter/1983 1st quarter emission and monitoring data per 11/18/76 EPA request	4/4/83	4	L.W. Lindquist/ASARCO	John Spencer/EPA	
AR 11.4.4 0100	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 3/83	4/15/83	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and John Spencer/EPA	
AR 11.4.4 0101	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 5/83	6/16/83	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and Ernesta Barnes/EPA	
AR 11.4.4 0102	11.4.4 Responses to Section 114 Requests for Information	Cover letter/1983 2nd quarter emissions and monitoring data per 11/18/76 EPA request	7/13/83	5	L.W. Lindquist/ASARCO	Ernesta Barnes/EPA	

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AR 11.4.6 0001	11.4.6 CAA Conferences	Transcript of preliminary proceedings of EPA Section 113 conference	5/25/77	75	Appearances made by EPA, ASARCO, Clean Air Coalition, PSAPCA, and WDOE		
AR 11.4.6 0002	11.4.6 CAA Conferences	Cover letter/Schedule with corrections to transcript of proceedings related to statements of ASARCO at 5/25/77 conference	7/13/77	3	C. John Newlands/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	Richard Du Bey/EPA	
AR 11.4.6 0003	11.4.6 CAA Conferences	Statement of A.L. Labbe to EPA, Region X regarding previous and current air pollution control activities by ASARCO	7/14/77	22	A.L. Labbe/ASARCO		
AR 11.4.6 0004	11.4.6 CAA Conferences	Transcript of proceedings for second hearing ASARCO Section 113 Conference	7/14/77	96	Appearances made by EPA, ASARCO, Clean Air Coalition, PSAPCA, and WDOE		
AR 11.4.6 0005	11.4.6 CAA Conferences	Transcripts of proceedings ASARCO-EPA Conference under provisions of Section 113	1/6/81	128	Appearances made by EPA, ASARCO, Clean Air Coalition, PSAPCA, and WDOE		
AR 11.4.6 0006		STATEMENT of Ralph R. Bauer verifing proceedings + future proceedings for E.P.A action against Tacoma Smelter		4	Ralph R. Bauer, Cheif of Air Compliance Branch of Region X's Enforcement Div.		
AR 11.4.6 0007		Statement of Wm. T. Christian, to clarify and expand views of EPA Region X.		8	William T. Christian, lawyer in enforcement div. of EPA Region X		
AR 11.4.6 0008		Clean Air Act, Sec. 113 Conference 5-25-1977 ARSCO, INC., Tacoma		2	Region X - U.S. E.P.A. Mark Harper		

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 11.4.4 0103	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 6/83	7/14/83	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and Ernesta Barnes/EPA	
AR 11.4.4 0104	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 7/83	8/16/83	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and Ernesta Barnes/EPA	
AR 11.4.4 0105	11.4.4 Responses to Section 114 Requests for Information	Cover letter/1983 3rd quarter emission and monitoring data per 11/18/76 EPA request	10/12/83	5	L.W. Lindquist/ASARCO	Ernesta Barnes/EPA	
AR 11.4.4 0106	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 9/83	10/21/83	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and Ernesta Barnes/EPA	
AR 11.4.4 0107	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 10/83	11/17/83	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and Ernesta Barnes/EPA	
AR 11.4.4 0108	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 11/83	12/15/83	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and Ernesta Barnes/EPA	
AR 11.4.4 0109	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 12/83	1/18/84	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and Ernesta Barnes/EPA	
AR 11.4.4 0110	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 1/84	2/23/84	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and Ernesta Barnes/EPA	
AR 11.4.4 0111	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 2/84 with attached sulfur balance report for 2/84	3/23/84	3	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and Ernesta Barnes/EPA	
AR 11.4.4 0112	11.4.4 Responses to Section 114 Requests for Information	Letter/Response to 3/9/84 request for information with attached letter from ASARCO alleging its slag dumping operations are in compliance with opacity standards	4/2/84	5	L.W. Lindquist/ASARCO	Alexandra Smith/EPA	
AR 11.4.4 0113	11.4.4 Responses to Section 114 Requests for Information	Cover letter/1984 1st quarter emission and monitoring data per 11/18/76 EPA request	4/3/84	4	L.W. Lindquist/ASARCO	Ernesta Barnes/EPA	
AR 11.4.4 0114	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 3/84	4/27/84	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and Ernesta Barnes/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 11.4.4 0115	11.4.4 Responses to Section 114 Requests for Information	Cover letter/Notice of Construction to PSAPCA by ASARCO for enclosed slag granulation system, and copy of ASARCO engineering plan for slag granulation as submitted to WDOE	5/14/84	16	L.W. Lindquist/ASARCO	Alexandra Smith/EPA/EPA	
AR 11.4.4 0116	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 4/84	5/17/84	1	L.W. Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and Ernesta Barnes/EPA	
AR 11.4.4 0117	11.4.4 Responses to Section 114 Requests for Information	Letter/Information required to evaluate emissions to air for 7/84	8/22/84	1	L.W.Lindquist/ASARCO	A.R. Dammkoehler/PSAPCA and Ernesta Barnes/EPA	
	11.4.5 Responses to EPA Requests for Information (PSAPCA)						
AR 11.4.5 0001	11.4.5 Responses to EPA Requests for Information	Cover letter/Documentation indicating non-compliance status with attached inspection report, Visible Emissions Worksheet, and NOV for smoke from stack of casting furnace	5/14/76	5	R.L. Busby/PSAPCA	Richard White/EPA	
AR 11.4.5 0002	11.4.5 Responses to EPA Requests For Information	Letter/ASARCO exceedences of SIP emissions limitations on particulate matter and sulfur dioxide	11/17/76	1	Richard White/EPA	A.R. Dammkoehler/PSAPCA and Ernesta Barnes/EPA	
AR 11.4.5 0003	11.4.5 Responses to EPA Requests For Information	Notice of Violation for gray smoke from north anode stack with attached PSAPCA inspection report	12/1/76	2	PSAPCA	ASARCO	
AR 11.4.5 0004	11.4.5 Responses to EPA Requests For Information	Notice of Violation for gray smoke from main stack with attached inspection report	12/8/76	2	PSAPCA	ASARCO	
AR 11.4.5 0005	11.4.5 Responses to EPA Requests For Information	Letter acknowledging receipt of letter dated 11/17/76 with attached training data sheet for Lawrence S. Thomsen and plume evaluation recertification	12/13/76	3	Ronald Busby/PSAPCA	Richard White/EPA	
AR 11.4.5 0006	11.4.5 Responses to EPA Requests For Information	PSAPCA inspection report and NOV for plume from south anode stack	12/23/76		L.S. Thomsen/PSAPCA	ASARCO	
AR 11.4.5 0007	11.4.5 Responses to EPA Requests For Information	NOV for plume from main smelter stack with attached Inspection Report and Visible Emissions Worksheet	1/6/77	4	L.S. Thomsen/PSAPCA	ASARCO	
AR 11.4.5 0008	11.4.5 Responses to EPA Requests For Information	Letter of response with attached Inspection Report, Visible Emissions Worksheets, and NOV	1/10/77	5	Ronald L. Busby/PSAPCA	Richard White/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 11.4.5 0009	11.4.5 Responses to EPA Requests For Information	Letter of response with attached Inspection Report, Visible Emission Worksheet, and NOV by north anode stack	1/12/77	5	A.R. Dammkoehler/PSAPCA	Richard White/EPA	
AR 11.4.5 0010	11.4.5 Responses to EPA Requests For Information	Agency Inspection Report and NOV for gray-brown plume from north anode furnace stack	1/20/77	2	L.S. Thomsen/PSAPCA	ASARCO	
AR 11.4.5 0011	11.4.5 Responses to EPA Requests For Information	Letter of response with attached Inspection Report, Visible Emission Worksheet, and NOVs	2/4/77	5	A.R. Dammkoehler/PSAPCA	Richard White/EPA	
AR 11.4.5 0012	11.4.5 Responses to EPA Requests For Information	Letter of response with attached Inspection Report, Visible Emission Worksheet, and NOVs	2/9/77	9	Ronald Busby/PSAPCA	Richard White/EPA	
AR 11.4.5 0013	11.4.5 Responses to EPA Requests For Information	Letter of response to EPA request for documents with attached Inspection Report, Visible Emission Worksheet, and NOV for north anode furnace stack	2/24/77	5	Ronald Busby/PSAPCA	Richard White/EPA	
AR 11.4.5 0014	11.4.5 Responses to EPA Requests For Information	1st quarter 1977 emission and monitoring data per EPA 11/17/76 request	4/19/77	2	PSAPCA		
AR 11.4.5 0015	11.4.5 Responses to EPA Requests For Information	Letter of response with attached Inspection Report, Visible Emission Worksheet, and Notice of Violation by main stack	6/9/77	5	Ronald Busby/PSAPCA	Richard White/EPA	
AR 11.4.5 0016	11.4.5 Responses to EPA Requests For Information	Letter of response with attached Inspection Report, Visible Emission Worksheet, and Notice of Violation by the slag dump	6/23/77	4	Ronald Busby/PSAPCA	Richard White/EPA	
AR 11.4.5 0017- AR 11.4.5 0029	11.4.5 Responses to EPA Requests For Information	Letters of response with attached Inspection Reports, Visible Emission Worksheets, and NOVs	10/7/77- 1/9/78	70	Ronald Busby/PSAPCA	Kenneth Brooks/EPA	
AR 11.4.5 0030	11.4.5 Responses to EPA Requests For Information	Inspection Report, Visible Emission Worksheet, and NOV for north anode furnace stack	2/27/78	4	L.S. Thomsen/PSAPCA		
AR 11.4.5 0031- AR 11.4.5 0104	11.4.5 Responses to EPA Requests For Information	Letters of response with attached Inspection Reports, Visible Emission Worksheets, and NOVs	3/6/78- 12/15/81		Ronald Busby/PSAPCA	Kenneth Brooks and Mark Hooper/EPA	

11.4.6 Clean Air Act (CAA) Conferences

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SECTION 12.0 NON-CERCLA ENFORCEMENT-CLEAN AIR ACT (CAA)/NATIONAL EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAPS)

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
12.1	Background						
AR 12.1 0001	12.1 Background	Rules and regulations Part 61 of Federal Register regarding national emission standards for hazardous air pollutants/delegation of authority to local Washington agencies **0001 DELETED 3/92-SEE EXPLANATION AT END OF INDEX**	12/18/75	1	Federal Register, Volume 40, No. 244/EPA		
AR 12.1 0002	12.1 Background	Paper/Status of EPA arsenic related programs and studies	10/16/76	4	EPA		
AR 12.1 0003	12.1 Background	Memorandum/NESHAPS issues: Arsenic-Clean Air Act (CAA) Section 112 (Proposed)	5/79	2	EPA		
AR 12.1 0004	12.1 Background	Summary of development of inorganic arsenic NESHAPS **0004 DELETED 3/92-SEE EXPLANATION AT END OF INDEX**	3/30/83	4	EPA		
AR 12.1 0005	12.1 Background	Paper/Development of inorganic arsenic NESAHPS overview of 9 source categories **0005 DELETED 3/92-SEE EXPLANATION AT END OF INDEX**	3/30/83	12	EPA		
AR 12.1 0006	12.1 Background	Diagrams regarding arsenic material balance at ASARCO **0006 DELETED 3/92-SEE EXPLANATION AT END OF INDEX**	7/28/83	4	Mark Hooper/EPA, Region X		
AR 12.1 0007	12.1 Background	Paper/Arsenic emissions from ASARCO presented at EPA Region 9 Air Toxics Conference	9/13-14/83	5	Michael Johnston and Dana Davoli/EPA, Region X		
AR 12.1 0008	12.1 Background	Background document regarding arsenic standard **0008 DELETED 3/92-SEE EXPLANATION AT END OF INDEX**	11/22/83	14	EPA		
AR 12.1 0009	12.1 Background	Memorandum/Arsenic NESHAPS summary	Unknown	5	Dana Davoli/EPA	Warren Peters/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
12.2 Correspondence							
12.2.1 General - ENTIRE SECTION DELETED 3/92-SEE EXPLANATION AT END OF INDEX							
AR 12.2.1 0001	12.2.1 General	Telephone conversation records/Proposed arsenic regulations and articles dealing with effects of arsenic emissions	1/25/73	3	Don Goodwin/Office of Air Quality, Planning, and Standards (OAQPS)-EPA		
AR 12.2.1 0002	12.2.1 General	Transmittal slip/Response from Ken Nelson/ASARCO to EPA request for information regarding arsenic	3/25/76	19	Jack McGinnity/EPA	Jim Everts/EPA, Region X	
AR 12.2.1 0003	12.2.1 General	Letter/Pre-survey visit to ASARCO to prepare for actual sampling of process and fugitive arsenic emissions sources	8/11/78	3	Stanley Cuffe/OAQPS-EPA	Kenneth Nelson/ASARCO	
AR 12.2.1 0003-1	12.2.1 General	Letter/ASARCO comments on Background Information Document on arsenic emissions at 1/14/81 meeting and formal request for information to be used in formulating recommendations for regulating inorganic arsenic	1/21/81	2	Don Goodwin/OAQPS-EPA	Kenneth Nelson/ASARCO	
AR 12.2.1 0004	12.2.1 General	Telephone conversation record/ASARCO reported plans to reduce emissions of arsenic	3/2/81	2	Mark Hooper/EPA	L.W. Lindquist/ASARCO	
AR 12.2.1 0005	12.2.1 General	Telephone conversation record/Status of arsenic NESHAPS project	3/4/81	2	Mark Hooper/EPA	Don Goodwin/OAQPS-EPA	
AR 12.2.1 0006	12.2.1 General	Letter/Requesting data to study source/curtailment relationships	7/26/83	2	Charles Zimmer/PEDCO Environmental, Inc.	A.L. Labbe/ASARCO	
AR 12.2.1 0007	12.2.1 General	Transmittal letter/Items related to development of final standards under Section 112, CAA for inorganic arsenic emissions	3/9/84	2	Robert Ajax/OAQPS-EPA	L.W. Lindquist/ASARCO	

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ENTIRE 12.2.1 SECTION DELETED 3/92-SEE EXPLANATION AT END OF INDEX							
AR 12.2.1 0008	12.2.1 General	Memorandum/Attached letter and mailing list for items related to development of final standards for inorganic arsenic	3/14/84	4	Graham Fitzsimmons/Pacific Environmental Services, Inc.	Clark Gaulding/EPA, Region X	
AR 12.2.1 0009	12.2.1 General	Letter/Items related to development of final standards for inorganic arsenic	4/2/84	3	L.W. Lindquist/ASARCO	Robert Ajax/OAQPS-EPA	
AR 12.2.1 0010	12.2.1 General	Letter/Discrepancy between the reported EPA and Puget Sound Air Pollution Agency (PSAPCA) data with attached letter regarding initial discovery of discrepancies and revised estimates	8/30/84	3	Mark Hooper/EPA	D.C. Chilvers/MARC	
AR 12.2.1 0011	12.2.1 General	Telephone conversation record/Inorganic arsenic regulations	12/20/85	1	EPA	Jane Hadley	
	12.2.2 Interagency						
AR 12.2.2 0001	12.2.2 Interagency	Letter/Response to attached letter regarding emission and ambient air standards for arsenic and lead with attached letter regarding request for EPA technical assistance in establishing ambient air and emissions standards for arsenic	12/7/72	3	Robert Burd/EPA, Region X	A.R. Dammkoehler/PSAPCA	
AR 12.2.2 0002	12.2.2 Interagency	Transmittal letter/Interim report entitled "Lead and Arsenic Content in the Soil Affected by the Copper Smelter Located in Tacoma, Washington"	11/1/72	16	Robert Burd/EPA	B.J. Steigerwald/ Stationary Source Pollution Control Program, C.M. Shy and D.I. Hammer/Division of Health Effects Research, D.R. Goodwin/Standards Development Implementation Division-EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
SECTION 12.2.2 - DOCUMENTS 0003-0013 DELETED 3/92-SEE EXPLANATION AT END OF INDEX							
AR 12.2.2 0003	12.2.2 Interagency	Telephone conversation record/ Guidelines for arsenic and lead consumption	11/21/73	1	Jim Everts/EPA	Samuel Shakbo/Food and Drug Administration	
AR 12.2.2 0004	12.2.2 Interagency	Telephone conversation record/ASARCO reported plans to reduce arsenic emissions	1/23/81	3	Mark Hooper/EPA	John Roberts/PSAPCA	
AR 12.2.2 0005	12.2.2 Interagency	Letter/Requesting EPA promulgation of emissions standards for control of arsenic	5/8/81	2	Gene Lobe/PSAPCA	Anne Macgill Gorsuch, Administrator/EPA, Washington D.C.	
AR 12.2.2 0006	12.2.2 Interagency	Transmittal slip/Letter and reply to request for EPA promulgation of national arsenic emissions standards	7/23/81	5	Dave Bray	Mark Hooper and Wayne Grotheer/EPA, Region X	
AR 12.2.2 0007	12.2.2 Interagency	Letter/Public meeting on 8/16 and relationship of arsenic dosage and cancer risk	8/25/83	2	Floyd Frost/Washington Department of Social Health and Service (DSHS)	Joel Mulder/EPA	
AR 12.2.2 0008	12.2.2 Interagency	Letter/Need for ambient arsenic data in Tacoma area and air monitoring effort	8/25/83	1	Clark Gaulding/EPA	Henry Droege/Washington Department of Ecology (WDOE)	
AR 12.2.2 0009	12.2.2 Interagency	Letter/Pendency of inorganic arsenic rule-making and effect on installation of secondary hoods on converters	1/9/84	2	Alexandra Smith/EPA	A.R. Dammkoehler/PSAPCA	
AR 12.2.2 0010	12.2.2 Interagency	Letter/Lung cancer risk in Tacoma area	1/30/84	4	Floyd Frost/DSHS	William Ruckelshaus/EPA	
AR 12.2.2 0011	12.2.2 Interagency	Letter/Six reports related to development of final standards for inorganic arsenic emissions	3/26/84	3	A.R. Dammkoehler/PSAPCA	Robert Ajax/OAQPS-EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 12.2.2 0012	12.2.2 Interagency	Letter/Inorganic arsenic NESHAPS and economic impact statement with attached letter regarding pendency of inorganic arsenic rule-making and effects on ASARCO installation of secondary hoods 0012 DELETED 3/92-SEE EXPLANATION AT END OF INDEX	9/25/84	4	Harvey Poll/PSAPCA	William Ruckelshaus/EPA	
AR 12.2.2 0013	12.2.2 Interagency	Letter/Response to PSAPCA request regarding EPA development of standards for inorganic arsenic from high arsenic copper smelters with attached letter regarding Texas lead State Implementation Plan (SIP) for ASARCO, El Paso plant 0013 DELETED 3/92-SEE EXPLANATION AT END OF INDEX	10/9/84	4	Joseph Cannon/EPA	Harvey Poll/PSAPCA	
	12.2.3 Intra-agency - ENTIRE 12.2.3 SECTION DELETED 3/92 -SEE EXPLANATION AT END OF INDEX						
AR 12.2.3 0001	12.2.3 Intra-agency	Letter/Emissions and ambient air standards for arsenic and lead	12/8/72	2	Don Goodwin/OAQPS-EPA	Robert Burd/EPA	
AR 12.2.3 0002	12.2.3 Intra-agency	Memorandum/Regulatory action on arsenic	11/15/76	2	Donald Dubois/EPA, Region X	Roger Strelow/EPA	
AR 12.2.3 0003	12.2.3 Intra-agency	Memorandum/Regulatory action on arsenic	12/17/76	3	Roger Strelow/EPA	Donald Dubois/EPA	
AR 12.2.3 0004	12.2.3 Intra-agency	Memorandum/Arsenic as a carcinogen	4/29/77	1	Roy Albert/EPA	Joseph Padgett/EPA	
AR 12.2.3 0005	12.2.3 Intra-agency	Memorandum/Regulation of arsenic emissions from ASARCO	4/7/81	3	Mark Hooper/EPA	L. Reed, C. Gaulding, J. Hamill, R. Thiel, K. Brooks, B. Lither, W. Grotheer, C. Koshuta/ EPA, Region X	
AR 12.2.3 0006	12.2.3 Intra-agency	Memorandum/Arsenic modeling for ASARCO with attached record regarding Seattle-area meetings on arsenic modeling contract held 7/5-7/83	6/24/83	3	Joseph Tikvart/OAQPS-EPA	Clark Gaulding/EPA	

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12.2.3 - DOCUMENTS 0007-0013 DELETED 3/92-SEE EXPLANATION AT END OF INDEX							
AR 12.2.3 0007	12.2.3 Intra-agency	Memorandum/ASARCO strategy with attached telephone conversation record	7/1/83	3	Alexandra Smith/EPA, Region X	Ernesta Barnes/EPA, Region X	
AR 12.2.3 0007-1	12.2.3 Intra-agency	Transmittal slip/Table providing basis for comparison of PSAPCA, OAQPS, and modified estimates of emissions from ASARCO	7/21/83	4	Mark Hooper/EPA	Clark Gaulding/EPA	
AR 12.2.3 0008	12.2.3 Intra-agency	Memorandum/Review of background information document regarding proposed arsenic standard with attached letter regarding study entitled "Characterization of Visible Plumes From a Copper Smelter", and table regarding total source particulate emissions	8/23/83	4	Clark Gaulding/EPA	Robert Ajax/OAQPS-EPA	
AR 12.2.3 0009	12.2.3 Intra-agency	Memorandum/ASARCO funding of investigations	9/14/83	3	Ernesta Barnes/EPA	Joe Cannon and Lee Thomas/EPA	
AR 12.2.3 0010	12.2.3 Intra-agency	Transmittal slip/Arsenic NESHAPS proposal specifications regarding hood design with attached outline of proposed regulation	11/14/83	7	Mark Hooper/EPA		
AR 12.2.3 0011	12.2.3 Intra-agency	Memorandum/Briefing material on ASARCO for use by Vice-President Bush	11/29/83	3	L. Edwin Coate/EPA	Rita Calvan/ Intergovernmental liaison	
AR 12.2.3 0012	12.2.3 Intra-agency	Memorandum/Ambient trigger level and monitoring in ASARCO NESHAPS	2/2/84	3	John O'Connor/OAQPS-EPA	Joseph Cannon/EPA	
AR 12.2.3 0013	12.2.3 Intra-agency	Memorandum/Arsenic NESHAPS review	5/25/84	2	Rob Wilson/EPA	Mike Johnston/EPA	
12.2.4 Clean Air Act (CAA) Section 114 Requests for Information							
AR 12.2.4 0001	12.2.4 CAA Section 114 Requests for Information	Section 114 request for information 0001 DELETED 3/92-SEE EXPLANATION AT END OF INDEX	8/7/78	7	Don Goodwin/OAQPS-EPA	Kenneth Nelson/ASARCO	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
12.2.4 - DOCUMENTS 0002-0004 DELETED 3/92-SEE EXPLANATION AT END OF INDEX							
AR 12.2.4 0002	12.2.4 CAA Section 114 Requests for Information	Request/Detailing emissions test program and EPA authority for information gathering	9/6/78	6	Alfred Vervaert/OAQPS-EPA	Kenneth Nelson/ASARCO	
AR 12.2.4 0003	12.2.4 CAA Section 114 Requests for Information	Request/Operation of processes and associated air pollution control equipment tested	10/30/78	5	Stanley Cuffe/OAQPS-EPA	Kenneth Nelson/ASARCO	
AR 12.2.4 0004	12.2.4 CAA Section 114 Requests for Information	Request/Arsenic production facilities at ASARCO with attached paper regarding arsenic distribution at ASARCO copper smelters	2/25/83	14	Jack Farmer/OAQPS-EPA	M.O. Varner/ASARCO	
12.2.5 Responses to Section 114 Requests for Information							
AR 12.2.5 0001	12.2.5 Responses to Section 114 Requests for Information	Letter/Response to 8/7/78 request for information DELETED 3/92-SEE EXPLANATION AT END OF INDEX	9/14/78	28	K.W. Nelson/ASARCO	Don Goodwin/OAQPS-EPA	
AR 12.2.5 0002	12.2.5 Responses to Section 114 Requests for Information	Letter/Response to 10/30/78 request for information DELETED 3/92-SEE EXPLANATION AT END OF INDEX	11/20/78	43	A.L. Labbe/ASARCO	Stanley Cuffe/OAQPS-EPA	
AR 12.2.5 0003	12.2.5 Responses to Section 114 Requests for Information	Letter/Response to 1/21/81 request for information DELETED 3/92-SEE EXPLANATION AT END OF INDEX	1/27/81	118	K.W. Nelson/ASARCO	Don Goodwin/OAQPS-EPA	
AR 12.2.5 0004	12.2.5 Responses to Section 114 Requests for Information	Letter/Response to 2/25/83 request for information providing arsenic mass balance data for ASARCO smelter DELETED 3/92-SEE EXPLANATION AT END OF INDEX	3/16/83	12	M.O. Varner/ASARCO	Jack Farmer/OAQPS-EPA	
12.3 ASARCO Impact Task Force Studies							
12.3.1 Correspondence							
AR 12.3.1 0001	12.3.1 Correspondence	Letter/Potential grave health hazard within the jurisdiction of PSAPCA	5/2/72	3	William Rodgers/University of Washington	Mayor Gordon Johnston/PSAPCA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 12.3.1 0002	12.3.1 Correspondence	Letter/Joint Memorandum of Understanding with attached letter acknowledging receipt of occupational study on arsenic and respiratory cancer in man **DELETED 3/92-SEE EXPLANATION AT END OF INDEX**	1/8/73	4	Samuel Milham/DSHS	A.L. Labbe/ASARCO	
AR 12.3.1 0003	12.3.1 Correspondence	Telephone conversation record/Task force for environmental studies for arsenic pollution in Tacoma area **DELETED 3/92-SEE EXPLANATION AT END OF INDEX**	1/9/73	1	Unknown	A.R. Dammkoehler/PSAPCA	
AR 12.3.1 0004	12.3.1 Correspondence	Letter/Independent study of people living near ASARCO in 5/72 and availability of financial assistance to study heavy metal contamination with attached budget estimate, Memorandum of Understanding, and DSHS letter requesting adoption and enforcement of arsenic standards	1/10/73	7	Emil Jensen/Chief Office of Environmental Programs	William Clothier/EPA	
AR 12.3.1 0005	12.3.1 Correspondence	Telephone conversation record/Arsenic standard and coordination of environmental study **DELETED 3/92-SEE EXPLANATION AT END OF INDEX**	1/10/73	2	Ron Campbell/EPA		
AR 12.3.1 0006	12.3.1 Correspondence	Telephone conversation record/PSAPCA request for heading of task force to study environmental impact of heavy metal emissions and testimony by EPA regarding PSAPCA regulations to control arsenic emissions **DELETED 3/92-SEE EXPLANATION AT END OF INDEX**	1/17/73	2	Unknown	Ron Campbell/EPA	
AR 12.3.1 0007	12.3.1 Correspondence	Document regarding visit by Dr. Roy Carpenter and Eric Crecelin regarding sampling of particulate matter from ASARCO **DELETED 3/92-SEE EXPLANATION AT END OF INDEX**	1/19/73	1	EPA		
AR 12.3.1 0008	12.3.1 Correspondence	Memorandum/Assignment of Bob Courson to coordinate total environmental study of effects from ASARCO	2/1/73	2	Robert Burd/EPA	Bill Clothier/EPA	
AR 12.3.1 0009	12.3.1 Correspondence	Telephone conversation record/PSAPCA proposed arsenic regulation **DELETED 3/92-SEE EXPLANATION AT END OF INDEX**	2/13/73	1	Unknown	Art Dammkoehler/PSAPCA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 12.3.1 0010	12.3.1 Correspondence	Memorandum/Health effects from heavy metals emissions from ASARCO with attached letter regarding independent study of people living near ASARCO in 5/72 and response to 6/22/73 memorandum regarding heavy metals health effects	6/22/73	8	Regional Research and Development Representative	Douglas Hammer/National Environmental Research Center (NERC)-EPA	
AR 12.3.1 0011	12.3.1 Correspondence	Memorandum/Potential health hazards to residents living on gravel roads near ASARCO	7/3/73	4	Roberts/PSAPCA	Kester	
AR 12.3.1 0012	12.3.1 Correspondence	Letter/Test program schedule with attached schedule, tables, and proposed evaluation of particulate and gaseous emissions	8/28/73	8	R.M. Statnick/NERC-EPA	Please see distribution list on document	
AR 12.3.1 0013	12.3.1 Correspondence	Memorandum/Heavy metals health monitoring at ASARCO	9/19/73	1	Robert Courson/EPA, Region X	Ben Eusebio/EPA, Region X	
AR 12.3.1 0014	12.3.1 Correspondence	Letter/Discrepancies in grass samples analyses	9/21/73	2	Robert Courson/EPA	Hillman Ratsch/NERC-EPA	
AR 12.3.1 0015	12.3.1 Correspondence	Letter/Comparison of analytical results in various areas of sampling and request for duplicate of all samples **DELETED 3/92-SEE EXPLANATION AT END OF INDEX**	10/11/73	1	C.H. Randt/ASARCO	Robert Courson/EPA	
AR 12.3.1 0016	12.3.1 Correspondence	Letter/Planning for total impact study of ASARCO emissions	11/30/73	2	Dona Gilman/PSAPCA	James Agee/EPA	
AR 12.3.1 0017	12.3.1 Correspondence	Letter/Request for information regarding impact of emissions from ASARCO	12/3/73	3	John Roberts/PSAPCA	Robert Courson/EPA	
AR 12.3.1 0018	12.3.1 Correspondence	Letter/Study of ASARCO impact on environment	12/28/73	1	A.R. Dammkoehler/PSAPCA	Harlan McNutt/Tacoma-Pierce County Health Department (TPCHD)	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 12.3.1 0019	12.3.1 Correspondence	Letter/Impact studies of ASARCO emissions	1/4/74	1	James Agee/EPA, Region X	Dona Gilman/PSAPCA	
AR 12.3.1 0020	12.3.1 Correspondence	Letter/Cadmium resuspension by traffic and uptake by vegetables	1/25/74	1	John Roberts/PSAPCA	James Neuman/Purdue University	
AR 12.3.1 0021	12.3.1 Correspondence	Table summarizing ASARCO data for process streams	3/21/74	1	Durham/EPA	Bob Courson/EPA	
AR 12.3.1 0022	12.3.1 Correspondence	Memorandum/ASARCO review	3/28/74	1	William Lappenbusch/EPA, Region X	Robert Courson/EPA	
AR 12.3.1 0023	12.3.1 Correspondence	Letter/Identification of populations of children at possible risk of lead uptake	4/4/74	1	Phillip Landrigan/Department of Health, Education, and Welfare	John Roberts/PSAPCA	
AR 12.3.1 0024	12.3.1 Correspondence	Transmittal slip/Letter discussing status of ASARCO impact study with attached list of proposed questions on environmental impact of ASARCO	6/20/74	5	Gary O'Neal/EPA		
AR 12.3.1 0025	12.3.1 Correspondence	Letter/Study of heavy metals and sulfur dioxides in environment surrounding ASARCO **0025 DELETED 3/92-SEE EXPLANATION AT END OF INDEX**	6/25/74	1	J.W. Dappen	Charles Randt/ASARCO	
AR 12.3.1 0026	12.3.1 Correspondence	Letter/Request to modify current contract with EPA regarding urinary arsenic	6/3/75	1	T.R. Strong/DSHS	Jim Everts/EPA	
	12.3.2 Meetings						
AR 12.3.2 0001	12.3.2 Meetings	Letter/Summary of ASARCO environmental questionnaires distributed at 3/22/74 meeting	4/15/74	7	James Everts/EPA		
AR 12.3.2 0002	12.3.2 Meetings	Memorandum/Meeting with Phillip Landrigan and Sam Milham regarding health studies	5/20/74	1	John Roberts/PSAPCA	Chief-Engineering/PSAPCA	
AR 12.3.2 0003	12.3.2 Meetings	Minutes of 7/31/74 Advisory Council Meeting	7/31/74	4	A.R. Dammkoehler/PSAPCA		

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 12.3.2 0004	12.3.2 Meetings	Report/ASARCO Task Force 9/18 meeting	9/19/74	2	James Everts/EPA	Files/EPA	
AR 12.3.2 0005	12.3.2 Meetings	Transmittal slip/Minutes from 12/18/74 task force meeting	1/9/75	3	Jim Everts/EPA	Doug Hansen/EPA, Region X	
AR 12.3.2 0006	12.3.2 Meetings	Memorandum/ASARCO-PSAPCA task force 4/2/75 meeting	4/3/75	1	James Everts/EPA	Files/EPA	
AR 12.3.2 0007	12.3.2 Meetings	Memorandum/PSAPCA Advisory 6/11/75 meeting	7/9/75	1	Richard Hatchard/EPA	Ken Feigner/EPA	
	12.3.3 Ambient Air Sampling (PSAPCA)						
AR 12.3.3 0001	12.3.3 Ambient Air Sampling	Low volume ambient air sampling data for suspended copper, lead, cadmium, arsenic, sulfur dioxide, and suspended particulates for 1978-84	1968-84	37	PSAPCA	EPA	
AR 12.3.3 0002	12.3.3 Ambient Air Sampling	Maximums and means of arsenic concentrations for filters analyzed from 1-2/73	1-2/73	2	PSAPCA		
AR 12.3.3 0003	12.3.3 Ambient Air Sampling	WDOE laboratory report worksheet for arsenic with attached graphs and diagrams	4/27/73	13	WDOE		
AR 12.3.3 0004	12.3.3 Ambient Air Sampling	High volume suspended particulate sampling data arsenic and lead study conducted 12/72-3/73	3/31/73	4	PSAPCA		
AR 12.3.3 0005	12.3.3 Ambient Air Sampling	Letter/Elimination of metals from analysis of filters from high volumes used in ASARCO study	11/20/73	1	A.R. Dammkoehler/PSAPCA	Robert Courson/EPA	
AR 12.3.3 0006	12.3.3 Ambient Air Sampling	Letter/Analysis of dust samples submitted by PSAPCA	10/30/74	1	Chuck Wing/WDOE	John Roberts/PSAPCA	
AR 12.3.3 0007	12.3.3 Ambient Air Sampling	Memorandum/Selection of high volume filters for analysis of arsenic exposure	4/23/75	1	Chief, Technical Service/PSAPCA	Chief, Engineering/PSAPCA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 12.3.3 0008	12.3.3 Ambient Air Sampling	Memorandum/Airborne arsenic with attached memorandum regarding request for technical assistance in monitoring arsenic levels in air, memorandum regarding potential arsenic penetration of high volume filters, article regarding efficiency of collection of arsenic trioxide in high volume sampling, and source test report regarding arsenic penetration of high volume filters near ASARCO	11/20/75	18	Richard Thompson/EPA	S. David Shearer, Jr./EPA	
AR 12.3.3 0009	12.3.3 Ambient Air Sampling	Memorandum/Trip report regarding determination of vapor state arsenic trioxide near ASARCO with attached memorandums regarding meeting to plan total impact studies and variance hearing	3/10/76	4	George Hofer/EPA, Region X	Gary O'Neal and Douglas Hansen/EPA	
AR 12.3.3 0010	12.3.3 Ambient Air Sampling	Report/Ambient air sampling for total arsenic near ASARCO	3/19/76	30	John Roberts, R.D. Pollock, M.J. Svoboda, and H.A. Watters/PSAPCA		
AR 12.3.3 0011	12.3.3 Ambient Air Sampling	Particulate data sheet	6/30/81	1	Unknown		
AR 12.3.3 0012	12.3.3 Ambient Air Sampling	Memorandum/Data regarding concentration of heavy metals and organics in house and road dust in Seattle area with attached maps of downtown Seattle and data from Tacoma tideflats	7/16/81	6	Greg Glass/Dames and Moore		
AR 12.3.3 0013	12.3.3 Ambient Air Sampling	Particulate data for 1978-81	10/15/81	7	PSAPCA		
AR 12.3.3 0014	12.3.3 Ambient Air Sampling	Data sheet regarding total suspended particulates	2/3/83	1	Unknown		
AR 12.3.3 0015	12.3.3 Ambient Air Sampling	Location of ASARCO and PSAPCA monitoring stations with attached figure	9/5/83	2	Unknown		
	12.3.4 Water Monitoring Studies (EPA)						
AR 12.3.4 0001	12.3.4 Water Monitoring Studies	Memorandum/Value of William Schell's work to region and specifically to total impact study	4/24/73	3	Robert Courson/EPA	Gary O'Neal/EPA	
AR 12.3.4 0002	12.3.4 Water Monitoring Studies	Sampling data for water, sediments, and fauna	7/12/73	4	Sainsbury, Hansen, and Blain/EPA		

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 12.3.4 0003	12.3.4 Water Monitoring Studies	Sampling data for arsenic, cadmium, and lead in sediments and clams	7/30/73	4	EPA Laboratory		
AR 12.3.4 0004	12.3.4 Water Monitoring Studies	Data/Heavy metal parameters at ASARCO with attached maps	9/26/73	9	John Sainsbury/EPA		
AR 12.3.4 0005	12.3.4 Water Monitoring Studies	Data/Arsenic and lead from Tacoma storm drains	10/18/73	10	EPA Region X Laboratory		
AR 12.3.4 0006	12.3.4 Water Monitoring Studies	Data/Arsenic and lead from Tacoma storm drains	10/25/73	13	EPA Region X Laboratory		
AR 12.3.4 0007	12.3.4 Water Monitoring Studies	Data/Arsenic from Tacoma storm drains	11/2/73	4	EPA Region X Laboratory		
AR 12.3.4 0008	12.3.4 Water Monitoring Studies	Letter/Tabulation of chlorinated hydrocarbon residue and mercury data from analysis of fat and liver tissue of 4 seals	10/19/73	2	Kerley McCall/WDOE	Francis Nelson/EPA	
AR 12.3.4 0009	12.3.4 Water Monitoring Studies	Letter/Attached data completed on study entitled "Analysis of Heavy Metals in Puget Sound Water Biota and Sediments"	2/25/75	9	W.R. Schell/University of Washington	James Everts/EPA	
AR 12.3.4 0010	12.3.4 Water Monitoring Studies	Report entitled "Environmental Sampling and Analysis for Trace Metals in Puget Sound", dated 6/10/74 and revised 9/30/75	9/75	19	Dickey Huntamer and William Schell/University of Washington	American Chemical Society	
AR 12.3.4 0011	12.3.4 Water Monitoring Studies	Article entitled Sources, Sinks, and Cycling of Arsenic in Puget Sound Region	1978	23	R. Carpenter, M.L. Peterson, and R.A. Jahnke/University of Washington		
AR 12.3.4 0012	12.3.4 Water Monitoring Studies	Paper entitled "Geochemistries of Arsenic, Antimony, Mercury, and Related Elements and Sediments in Puget Sound"	4/1975	9	Eric Crecelius, Michael Bothner, and Roy Carpenter/University of Washington		
AR 12.3.4 0013	12.3.4 Water Monitoring Studies	Data/Arsenic from middle outfall with attached field sample data sheet	11/19/75	2	EPA Region X Laboratory		
AR 12.3.4 0013-1	12.3.4 Water Monitoring Studies	Letter and data sheets/Analysis of fallout jar contents collected from local schools	12/8/75	15	John Roberts/PSAPCA	James Everts/EPA	
AR 12.3.4 0014	12.3.4 Water Monitoring Studies	Study entitled "Chemical Contaminants in Edible Non-Salmonoid Fish and Crabs from Commencement Bay, Washington"	Unknown	14	Environmental Services Division Laboratory Branch/EPA		

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 12.3.4 0015	12.3.4 Water Monitoring Studies	Table regarding concentration of trace elements in marine organisms collected from Colvos Passage, Commencement Bay, and Nisqually River	1973-74	5	EPA Region X		
AR 12.3.4 0016	12.3.4 Water Monitoring Studies	Data/Heavy metals parameters in water sediments and organisms	Unknown	1	EPA Region X		
AR 12.3.4 0017	12.3.4 Water Monitoring Studies	Data/Heavy metals parameters in sediments and organisms along ASARCO waterfront	Unknown	1	EPA Region X		
	12.3.5 Heavy Metals Accumulation in Soil and Vegetation [National Environmental Research Laboratory (NERL)-EPA]						
AR 12.3.5 0001	12.3.5 Heavy Metals Accumulation in Soil and Vegetation	Transmittal slip/Results of Tacoma grass samples	8/13/73	3	Robert Courson/EPA	Sam Milham/DSHS	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 12.3.5 0002	12.3.5 Heavy Metals Accumulation in Soil and Vegetation	Letter/Analysis of vegetation samples from Tacoma for arsenic, lead, and mercury	10/9/73	1	John Roberts/PSAPCA	Hilman Ratsch/NERL-EPA	
AR 12.3.5 0003	12.3.5 Heavy Metals Accumulation in Soil and Vegetation	Telephone conversation record/Lettuce and cabbage sample results for lead, arsenic, and cadmium	11/20/73	2	Hilman Ratsch/NERL-EPA	Jim Everts/EPA	
AR 12.3.5 0004	12.3.5 Heavy Metals Accumulation in Soil and Vegetation	Research report entitled "Heavy Metals Accumulation in Soil and Vegetation From Smelter Emissions"	8/74	29	Hilman Ratsch/NERL-EPA		
AR 12.3.5 0005	12.3.5 Heavy Metals Accumulation in Soil and Vegetation	Study entitled "Observations of Vegetation in the Vicinity of the ASARCO, Ruston Smelter"	Unknown	5	Unknown		CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
	12.3.6 Contamination of Soils by Heavy Metals						
AR 12.3.6 0001	12.3.6 Contamination of Soils by Heavy Metals	Letter/Concentrations of mercury in clover and soil from Vashon-Maury Island and in dust from A.S.R. Company in Ruston reported in attached table and figures	10/25/73	4	Michael Bothner/University of Washington	John Roberts/PSAPCA	
AR 12.3.6 0002	12.3.6 Contamination of Soils by Heavy Metals	Articled entitled "Contamination of Soils Near a Copper Smelter by Arsenic, Antimony, and Lead"	6/4/74	6	Eric Crecelius/University of Washington, Carl Johnson/Seattle-King County Department of Public Health, and George Hofer/PSAPCA		

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 12.3.6 0003	12.3.6 Contamination of Soils by Heavy Metals	Paper entitled "Lead in the Soil of North Tacoma"	1975	9	Scott Matthees/UPS		
	12.3.7 Heavy Metals in Gardens (Western Washington University Research Extension Center)						
AR 12.3.7 0001	12.3.7 Heavy Metals in Gardens	Data sheet/Mercury in vegetable samples	1/21/74	1	EPA Region X Laboratory		
AR 12.3.7 0002	12.3.7 Heavy Metals in Gardens	Data sheet/Zinc in soil samples	1/21/74	1	EPA Region X Laboratory		
AR 12.3.7 0003	12.3.7 Heavy Metals in Gardens	Data sheet/Mercury in soil samples	1/21/74	1	EPA Region X Laboratory		
AR 12.3.7 0004	12.3.7 Heavy Metals in Gardens	Data sheets/Cadmium, lead, and arsenic in vegetables and soils	1/21/74	7	EPA Region X Laboratory		
AR 12.3.7 0005	12.3.7 Heavy Metals in Gardens	Data sheets/Arsenic, cadmium, lead, and zinc in vegetables and soil	1/21/74	9	Jim Everts/EPA Region X Laboratory and Western Washington University Research Extension Center		
AR 12.3.7 0006	12.3.7 Heavy Metals in Gardens	Transmittal slip/Study entitled "Arsenic Content in Soils in Vicinity of the Ruston Smelter"	6/19/74	9	Paul Heilman/Western Washington University Research Extension Center	Jim Everts/EPA	
AR 12.3.7 0007	12.3.7 Heavy Metals in Gardens	Notes and paper entitled "Cadmium in Leafy Vegetables in the Ruston Area"	4/22/75	7	Paul Heilman/Western Washington University Research Extension Center		
AR 12.3.7 0008	12.3.7 Heavy Metals in Gardens	Notes/Arsenic values in soils	Unknown	2	Unknown		
AR 12.3.7 0009	12.3.7 Heavy Metals in Gardens	Sampling data/Cadmium values in vegetables, 1974 smelter study, dry-weight basis	3/12/75	5	Paul Heilman/Western Washington University Research Extension Center		
AR 12.3.7 0010	12.3.7 Heavy Metals in Gardens	Sampling data/Vegetable analysis, 1974 samples	2/14/75	4	EPA Region X Laboratory		
AR 12.3.7 0011	12.3.7 Heavy Metals in Gardens	Data sheets/Heavy metals in soil samples	4/8/75	6	EPA Region X Laboratory		
AR 12.3.7 0012	12.3.7 Heavy Metals in Gardens	Data sheets/Cadmium, arsenic, lead, and zinc in Puyallup vegetation	6/10/75	24	EPA Region X Laboratory		
AR 12.3.7 0013	12.3.7 Heavy Metals in Gardens	Data sheets/Arsenic, cadmium, and lead in Puyallup vegetation	6/26/75	16	EPA Region X Laboratory		

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 12.3.7 0014	12.3.7 Heavy Metals in Gardens	Report entitled "Heavy Metals in Gardens Near the ASARCO Smelter, Tacoma, Washington"	4/77	92	Paul Heilman and Gordon Ekuan/Western Washington University Research Extension Center	EPA Region X	
AR 12.3.7 0015	12.3.7 Heavy Metals in Gardens	Data supplement to "Heavy Metals in Gardens Near the ASARCO Smelter, Tacoma, Washington"	4/77	152	Paul Heilman/Western Washington University Research Extension Center		
AR 12.3.7 0016	12.3.7 Heavy Metals in Gardens	Letter/Review of report entitled "Heavy Metals in Gardens Near the ASARCO Smelter, Tacoma, Washington" with attached letters critiquing EPA- sponsored heavy metal study in Tacoma	8/8/77	9	K.W. Nelson/ASARCO	A.L. Labbe/ASARCO	
AR 12.3.7 0017	12.3.7 Heavy Metals in Gardens	Paper entitled "Distribution and Forms of Copper, Zinc, Cadmium, Iron, and Manganese in Soils Near A Copper Smelter"	1980	29	S. Kuo, P.E. Heilman, and A.S. Baker/Western Washington University Research Extension Center		
AR 12.3.7 0018	12.3.7 Heavy Metals in Gardens	Revised paper entitled "Distribution and Forms of Copper, Zinc, Cadmium, Iron, and Manganese in Soils Near A Copper Smelter"	2/83	9	S. Kuo, P.E. Heilman, and A.S. Baker/Washington State University Research Extension Center		
	12.3.8 Heavy Metals in Household Dust and Milk (EPA)						
AR 12.3.8 0001	12.3.8 Heavy Metals in Household Dust and Milk	Data sheets/Arsenic in vacuum cleaner sweepings and milk on Vashon Island	10/31/73	3	EPA Region X Laboratory		
AR 12.3.8 0002	12.3.8 Heavy Metals in Household Dust and Milk	Letter/Table of results for mercury and arsenic in vacuum cleaner dust and milk from Tacoma area	1/8/74	2	Arnold Gahler/EPA Region X	K.W. Nelson/ASARCO	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 12.3.8 0003	12.3.8 Heavy Metals in Household Dust and Milk	Interim report/Evaluation of environmental contamination of Vashon-Maury Islands by lead and arsenic	Unknown	9	Carl Johnson/University of Washington	Lawrence Bergnur/ Seattle-King County Health Department ?(SCKHD)	
AR 12.3.8 0004	12.3.8 Heavy Metals in Household Dust and Milk	Paper entitled "Environmental Contamination with Lead and Arsenic From a Copper Smelter" with attached figures and tables	11/29/73	12	Carl Johnson and Laura Lippman/University of Washington		
AR 12.3.8 0005	12.3.8 Heavy Metals in Household Dust and Milk	Preliminary report entitled "Arsenic and Lead Exposure in the Vicinity of Tacoma Smelter"	4/75	6	Herbert McClannan, and A.T. Rossano		
	12.3.9 Hair Sampling (EPA)						

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 12.3.9 0001	12.3.9 Hair Sampling	Memorandum/Measurement of trace metals in hair samples	10/16/73	2	E. Tompkins/EPA	Robert Courson/EPA	
AR 12.3.9 0002	12.3.9 Hair Sampling	Data tables/EPA hair samples Nos. 1-20	Unknown	20	EPA Region X Laboratory		
AR 12.3.9 0003	12.3.9 Hair Sampling	Graphs/Relative concentrations of arsenic and EPA hair samples Nos. 1-20	Unknown	20	EPA Region X Laboratory		
	12.3.10 Interim Reports Regarding Concentrations of Heavy Metals (PSAPCA)						
AR 12.3.10 0001	12.3.10 Interim Reports Regarding Concentrations of Heavy Metals	Letter with attached interim report entitled "Lead and Arsenic Content in the Soil Affected by the Copper Smelter Located in Tacoma, Washington"	10/12/72	14	A.R. Dammkoehler/PSAPCA	A.L. Labbe/ASARCO	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 12.3.10 0002	12.3.10 Interim Reports Regarding Concentra-tions of Heavy Metals	Memorandum/Impact on air quality of arsenic and lead emissions from ASARCO with attached data sheets regarding correlation of suspended particulate fractions against sulfur dioxide and regression of arsenic on sulfur dioxide DELETED 3/92-SEE EXPLANATION AT END OF INDEX	10/18/72	6	G. Hofer/PSAPCA	PSAPCA	
AR 12.3.10 0003	12.3.10 Interim Reports Regarding Concentra-tions of Heavy Metals	Data sheets, figures, and tables/ Concentrations of toxic metals downwind from ASARCO and ambient air concentrations of sulfur dioxide	5/3/68-12/31/72	17	PSAPCA		CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 12.3.10 0004	12.3.10 Interim Reports Regarding Concentra-tions of Heavy Metals	Interim report entitled "The Concentration of Lead, Arsenic, Mercury, Cadmium, Sulfur Dioxide, and Suspended Sulfates Downwind from Tacoma Smelter, the Impact and Control Status and Benefits From Reduction"	4/22/74	64	PSAPCA		CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
	12.3.11 Particulate Sampling Analysis						
AR 12.3.11 0001	12.3.11 Particulate Sampling Analysis	Report entitled "Particulate Sampling Analysis at ASARCO, Tacoma, Washington"	10/74	57	Technology Division/GCA	EPA Region 10	
	12.3.12 Water Monitoring Data (ASARCO)						
AR 12.3.12 0001	12.3.12 Water Monitoring Data	Letter/Rainwater analyses from Salmon Beach runoff rainwater with attached urine analyses and excerpt from sections regarding drinking water standards (1962)	1/16/75	5	Robert Putnam/ASARCO	S.S. Pinto/ASARCO	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 12.3.12 0002	12.3.12 Water Monitoring Data	Letter/Dr. Crecelius proposal to study forms of arsenic in plants grown in arsenic-contaminated soils with attached memorandum regarding results of sampling analyses on discharges from ASARCO, and tables giving monthly and yearly averages for airborne lead and arsenic at Tacoma reservoir station	4/17/79	5	K.W. Nelson/ASARCO	A.L. Labbe/ASARCO	
AR 12.3.12 0003	12.3.12 Water Monitoring Data	Memorandum/Evaluation of analytical results obtained from samples of marine life from Commencement Bay by WDOE	6/25/81	3	Donald Robbins/ASARCO	L.W. Lindquist/ASARCO	
AR 12.3.12 0004	12.3.12 Water Monitoring Data	Table/Analytical results for Tacoma fish samples with attached letter regarding analysis for several heavy metals in fish, heavy metal wet-weight data on fish, sample results of Puget Sound waters, analysis of WDOE outfall and infall inspection of ASARCO with analytical results	3/6/81	13	ASARCO		
	12.3.13 Soil, Vegetables, and Dust Data (ASARCO)						
AR 12.3.13 0001	12.3.13 Soil, Vegetables, and Dust Data	Drawing/Street sampling for arsenic and lead with attached soil sample and street sampling results for arsenic and lead, vegetation and soil sample results for metals, memorandum regarding dust analysis results, and memorandum regarding ASARCO road sampling adjacent to plant	4/10/73	7	ASARCO and PSAPCA		CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 12.3.13 0002	12.3.13 Soil, Vegetables, and Dust Data	Letter/Tacoma dust jug results (1973)	12/31/73	4	K.W. Nelson/ASARCO	A.L. Labbe/ASARCO	
AR 12.3.13 0003	12.3.13 Soil, Vegetables, and Dust Data	Letter/Examination of fig leaves for injury with attached letter regarding lead, cadmium, and arsenic in garden vegetables, and tables regarding abnormal trace metals	9/26/74	8	Michael Treshow/University of Utah	M.O. Varner/ASARCO	
AR 12.3.13 0004	12.3.13 Soil, Vegetables, and Dust Data	Memorandum/Letter report regarding fig leaves	9/27/74	2	M.O. Varner/ASARCO	Warren Harvey/ASARCO	
AR 12.3.13 0004-1	12.3.13 Soil, Vegetables, and Dust Data	Memorandum/Nickel emissions from ASARCO stack with attached data on grass and soil samples	5/9/75	5	ASARCO	A.L. Labbe/ASARCO	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 12.3.13 0005	12.3.13 Soil, Vegetables, and Dust Data	Letter/Sampling results for cadmium and arsenic from Tacoma road dust	6/18/75	1	Donald Robbins/ASARCO	A.L. Labbe/ASARCO	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 12.3.13 0006	12.3.13 Soil, Vegetables, and Dust Data	Letter/Fertilizer sample results	7/10/75	1	Curtis Dungey/ASARCO	M.O. Varner/ASARCO	
AR 12.3.13 0007	12.3.13 Soil, Vegetables, and Dust Data	Memorandum/Arsenic analysis for various health foods	9/4/75	3	M.O. Varner/ASARCO	K.W. Nelson/ASARCO	
AR 12.3.13 0008	12.3.13 Soil, Vegetables, and Dust Data	Memorandum/Chemical analysis of lettuce leaves	9/9/75	1	Donald Robbins/ASARCO	A.L. Labbe/ASARCO	
AR 12.3.13 0009	12.3.13 Soil, Vegetables, and Dust Data	Letter/Results of arsenic analyses of vacuum dust samples taken from homes in ASARCO area with attached data results regarding arsenic concentrations	11/12/75	9	Donald Robbins/ASARCO	Curtis Dungey/ASARCO	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 12.3.13 0010	12.3.13 Soil, Vegetables, and Dust Data	Letter/Analytical data from soil samples taken from site of proposed housing development with attached map of sampling locations	11/20/78	3	Donald Robbins/ASARCO	C.H. Randt/ASARCO	
AR 12.3.13 0011	12.3.13 Soil, Vegetables, and Dust Data	Memorandum/Environmental study of home to determine contributions to elevated arsenic excretions of children in vicinity of ASARCO	11/24/76	2	Curtis Dungey/ASARCO	A.L. Labbe/ASARCO	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 12.3.13 0012	12.3.13 Soil, Vegetables, and Dust Data	Memorandum/Analysis of laurel leaves	2/19/77	1	Michael Treshow/Consultant	M.O. Varner/ASARCO	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 12.3.13 0013	12.3.13 Soil, Vegetables, and Dust Data	Letter/Lettuce and soil sample results for cadmium	2/23/76	3	Lowell White/ASARCO	A.L. Labbe/ASARCO	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 12.3.13 0014	12.3.13 Soil, Vegetables, and Dust Data	Letter/Examination of garlic and rhododendron leaves	4/27/77	2	Michael Treshow/Consultant	M.O. Varner/ASARCO	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 12.3.13 0015	12.3.13 Soil, Vegetables, and Dust Data	Letter/Analytical data from the leaching of several soils	12/19/78	2	Donald Robbins/ASARCO	A.L. Labbe/ASARCO	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 12.3.13 0016	12.3.13 Soil, Vegetables, and Dust Data	Letter/Cadmium and arsenic data for soil samples	1/3/79	3	Donald Robbins/ASARCO	A.L. Labbe/ASARCO	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 12.3.13 0017	12.3.13 Soil, Vegetables, and Dust Data	Letter/Soil samples results for cadmium and arsenic	1/18/79	8	Donald Robbins/ASARCO	A.L. Labbe/ASARCO	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 12.3.13 0018	12.3.13 Soil, Vegetables, and Dust Data	Letter/Analysis of vegetation to be burned in the vicinity of ASARCO	1/27/79	3	M.O. Varner/ASARCO	Michael Treshow/Consultant	
AR 12.3.13 0019	12.3.13 Soil, Vegetables, and Dust Data	Notes/Results of analysis of dust taken off tops of cars at ASARCO after arsenic plant breakdown	1/1/82	1	Unknown		
AR 12.3.13 0020	12.3.13 Soil, Vegetables, and Dust Data	Memorandum/Samples results regarding soil sampling on hillside by Ruston Way just south of tunnel with attached map	2/24/82	3	Unknown	L.W. Lindquist/ASARCO	
AR 12.3.13 0021	12.3.13 Soil, Vegetables, and Dust Data	Memorandum/Results for soil sample analyzed in accordance with EPA toxic extraction procedure	2/5/85	2	Gary Stanga/ASARCO	C.E. Dungey/ASARCO	
	12.3.14 Air Monitoring and Emissions Data (ASARCO)						
AR 12.3.14 0001	12.3.14 Air Monitoring and Emissions Data	Table/Summary of ASARCO particulate mass measurements	9/26-27/73	1	Statmick		
AR 12.3.14 0002	12.3.14 Air Monitoring and Emissions Data	Letter/Results from source test of fugitive emissions from converter building	1/14/75	3	A.L. Labbe/ASARCO	A.R. Dammkoehler/PSAPCA	
AR 12.3.14 0003	12.3.14 Air Monitoring and Emissions Data	Memorandum/Tacoma plant anode furnace emissions with attached data sheets	8/8/75	10	C.R. Counts/ASARCO	E.S. Godsey/ASARCO	
AR 12.3.14 0004	12.3.14 Air Monitoring and Emissions Data	Memorandum/Table showing arsenic to lead ratio between cottrel and filters	9/23/75	2	Robert Putnam/ASARCO	M.O. Varner/ASARCO	
AR 12.3.14 0005	12.3.14 Air Monitoring and Emissions Data	Letter/Table for sampling for arsenic downstream of R&R flue automatic smoke sampler with attached table regarding arsenic mass emission rate through sampler bag	10/11/75	3	John Richardson/ASARCO	A.L. Labbe/ASARCO	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 12.3.14 0006	12.3.14 Air Monitoring and Emissions Data	Letter/Attempt to obtain arsenic plus 3 to arsenic plus 5 ratio and discussion of sampling procedure	11/12/75	2	Donald Robbins/ASARCO	C.E. Dungey/ASARCO	
AR 12.3.14 0007	12.3.14 Air Monitoring and Emissions Data	Letter/Sample analysis results for arsenic	12/5/75	2	Eric Crecelius/Battelle	Donald Robbins/ASARCO	
AR 12.3.14 0008	12.3.14 Air Monitoring and Emissions Data	Letter/Results of arsenic sampling at ASARCO	12/9/75	3	Donald Robbins/ASARCO	Curtis Dungey/ASARCO	
AR 12.3.14 0009	12.3.14 Air Monitoring and Emissions Data	Letter/Results of analyses of sampling trains operated at parking lot guard station	12/24/75	1	Donald Robbins/ASARCO	C.E. Dungey/ASARCO	
AR 12.3.14 0010	12.3.14 Air Monitoring and Emissions Data	Letter/Comparison of results of analyses performed by Eric Crecelius/Battelle versus ASARCO laboratory	1/2/76	1	Donald Robbins/ASARCO	M.O. Varner/ASARCO	
AR 12.3.14 0011	12.3.14 Air Monitoring and Emissions Data	Letter/Response to EPA letter dated 2/20/76 requesting information regarding air quality monitoring programs for arsenic at ASARCO with attached data	3/17/76	14	K.W. Nelson/ASARCO	Joseph Padgett/OAQPS-EPA	
AR 12.3.14 0012	12.3.14 Air Monitoring and Emissions Data	Letter/Experimental work performed regarding arsenic speciation and filter efficiency	5/10/76	2	Donald Robbins/ASARCO	M.O. Varner/ASARCO	
AR 12.3.14 0013	12.3.14 Air Monitoring and Emissions Data	Memorandum/Arsenic emissions-calcine belt in arsenic plant	5/17/77	1	Curtis Dungey/ASARCO	A.L. Labbe/ASARCO	
AR 12.3.14 0014	12.3.14 Air Monitoring and Emissions Data	Table/Suspended particulates in tons/year for 1971-80	1971-80	1	ASARCO and PSAPCA		
AR 12.3.14 0015	12.3.14 Air Monitoring and Emissions Data	ASARCO emissions estimates	3/12/78	13	J.W. Roberts/PSAPCA and ASARCO		
AR 12.3.14 0016	12.3.14 Air Monitoring and Emissions Data	Table/Suspended particulates in tons/year for 1971-80	1971-80	1	ASARCO and PSAPCA		
AR 12.3.14 0017	12.3.14 Air Monitoring and Emissions Data	Document showing locations of ASARCO and PSAPCA monitoring stations with attached map	9/5/83	2	Unknown		
AR 12.3.14 0018	12.3.14 Air Monitoring and Emissions Data	Memorandum and attachments/Region X processing of ASARCO arsenic data	9/5/83	213	Jon Schweiss/EPA	C. Gaulding, D. Wilson, R. Ajax, and R. Rhoads/EPA, G. Shewe/PEDCO, and J. Padgett/SAST	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 12.3.14 0019	12.3.14 Air Monitoring and Emissions Data	Memorandum and attachments/Documents received from PSAPCA regarding ASARCO arsenic measurements	10/25/83	15	Glenn Whaley/Pacific Environmental Services, Inc., Inc.		
AR 12.3.14 0020	12.3.14 Air Monitoring and Emissions Data	Letter with attached final report entitled "Analysis of High Volume Air Filters for Arsenite, Arsenate, and Methylated Arsenic Compounds"	11/14/83	49	Kurt Irgolic/Texas A&M University	James Howes/Battelle Columbus Laboratories	
AR 12.3.14 0021	12.3.14 Air Monitoring and Emissions Data	Table/Estimated and potential ASARCO related emission reductions and costs in tons/year with attached figures regarding airborne concentrations of cadmium and arsenic and table regarding airborne concentrations of suspended particulates and heavy metals	1973-75	12	ASARCO		
AR 12.3.14 0022	12.3.14 Air Monitoring and Emissions Data	Data/Concentrations of elements in air calculated from elements on air filters and percent of total particulate arsenic dissolved as arsenic plus 3 and plus 5	Unknown	1	Eric Crecelius/Battelle		
AR 12.3.14 0023	12.3.14 Air Monitoring and Emissions Data	Data/Arsenic in samples at ASARCO	Unknown	1	Eric Crecelius/Battelle		
AR 12.3.14 0024	12.3.14 Air Monitoring and Emissions Data	Table/Particulate and arsenic trioxide emissions	Unknown	1	ASARCO		
	12.4 Listing of Inorganic Arsenic as Hazardous Air Pollutant						
AR 12.4 0001	12.4 Listing of Inorganic Arsenic as Hazardous Air Pollutant	Transmittal slip/Memorandum regarding pollutant priorities **DELETED 3/92-SEE EXPLANATION AT END OF INDEX**	7/6/72	7	Carol Durham/NERC-EPA	William Clothier/EPA	
AR 12.4 0002	12.4 Listing of Inorganic Arsenic as Hazardous Air Pollutant	Transmittal memorandum/Arsenic decision package on listing of arsenic as pollutant **DELETED 3/92-SEE EXPLANATION AT END OF INDEX**	10/31/78	23	Walter Barber/OAQPS-EPA	Regional Administrators/ Regions I-X, EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 12.4 0003	12.4 Listing of Inorganic Arsenic as Hazardous Air Pollutant	Memorandum/Revision to arsenic decision package **DELETED 3/92-SEE EXPLANATION AT END OF INDEX**	11/9/78	1	Walter Barber/OAQPS-EPA	Please see document	
AR 12.4 0004	12.4 Listing of Inorganic Arsenic as Hazardous Air Pollutant	Memorandum/Memorandum of Concurrence regarding listing of arsenic as pollutant **DELETED 3/92-SEE EXPLANATION AT END OF INDEX**	11/7/78	3	Walter Barber/OAQPS-EPA	Clark Gaulding and Mark Hooper/EPA, G. Hofer/PSAPCA	
AR 12.4 0005	12.4 Listing of Inorganic Arsenic as Hazardous Air Pollutant	Federal Register notice regarding status of listing decision on arsenic as pollutant and call for further information **DELETED 3/92-SEE EXPL./END OF INDEX**	5/21/79	1	Federal Register, Volume 44, No. 99		
AR 12.4 0006	12.4 Listing of Inorganic Arsenic as Hazardous Air Pollutant	Federal Register notice regarding status of listing decision on arsenic as pollutant and call for further information **DELETED 3/92-SEE EXPLAN END OF INDEX**	5/21/79	1	Federal Register, Volume 44, No. 99		
AR 12.4 0007	12.4 Listing of Inorganic Arsenic as Hazardous Air Pollutant	Letter/Response to request for clarification of views of the Science Advisory Board subcommittee on arsenic as pollutant **DELETED 3/92-SEE EXPLAN END OF INDEX**	1/16/80	1	R. Levine/EPA	Lester Grant/EPA	
AR 12.4 0008	12.4 Listing of Inorganic Arsenic as Hazardous Air Pollutant	Memorandum/Carcinogen assessment group documentation of carcinogenicity of arsenic **DELETED 3/92-SEE EXPLAN END OF INDEX**	4/18/80	1	Elizabeth Anderson/EPA	Joseph Padgett/EPA	
AR 12.4 0009	12.4 Listing of Inorganic Arsenic as Hazardous Air Pollutant	Federal Register notice regarding NESHAPS addition of inorganic arsenic to list of pollutants	6/5/80	3	Federal Register, Volume 45, No. 110		
AR 12.4 0010	12.4 Listing of Inorganic Arsenic as Hazardous Air Pollutant	Letter/Statement entitled "Status of Recommended National Emissions Standards for Arsenic Emissions from Primary Copper Smelters" **DELETED 3/92-SEE EXPLANATION END OF INDEX**	4/24/81	10	Don Goodwin/OAQPS-EPA	A.R. Dammkoehler/PSAPCA	

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AR 12.4 0011	12.4 Listing of Inorganic Arsenic as Hazardous Air Pollutant	Memorandum and attachments/Standards development for stationary sources of inorganic arsenic emissions **DELETED 3/92-SEE EXPLANATION AT END OF INDEX**	4/6/83	23	Sheldon Meyers/OAQPS-EPA	Kathleen Bennett/EPA	
AR 12.4 0012	12.4 Listing of Inorganic Arsenic as Hazardous Air Pollutant	Memorandum/Non-concurrence on listing arsenic as pollutant **DELETED 3/92-SEE EXPLANATION AT END OF INDEX**	Unknown	4	William Drayton/EPA	David Hawkins/EPA	
12.5 Meetings							
AR 12.5 0001	12.5 Meetings	Memorandum/Meeting on enforceable boundary action limit for arsenic NESAHPS regulation **DELETED 3/92-SEE EXPLANATION AT END OF INDEX**	1/25/84	1	Dana Davoli/EPA		
AR 12.5 0002	12.5 Meetings	Memorandum/Meeting with ASARCO on 4/28/83 to discuss ASARCO comments on recommended regulations for copper smelters DELETED 3/92-SEE EXPLAN END OF INDEX	6/15/83	4	Paul Peterson/Pacific Environmental Services		
12.6 ASARCO Arsenic NESHAPS Task Force Studies							
12.6.1 Correspondence							
AR 12.6.1 0001	12.6.1 Correspondence	Memorandum and attachments/ASARCO compliance strategy	Unknown	15	EPA Region X		
AR 12.6.1 0002	12.6.1 Correspondence	Memorandum/Advance red border package for inorganic arsenic with attached Region X comments on high arsenic NESHAPS, notes regarding issue for task force on quantification of emissions and production increases of secondary hood installation, and notes regarding issues and recommendations for task force	6/13/83	18	Alexandra Smith/EPA	Jack Farmer/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 12.6.1 0003	12.6.1 Correspondence	Summary and attachments/Emissions standards and engineering division (ESED) activities on inorganic arsenic NESHAPS	7/27/83	20	ESED/EPA		
AR 12.6.1 0004	12.6.1 Correspondence	Transmittal slip/Issues regarding task force regarding secondary hood installation	8/2/83	4	Wayne Grotheer/EPA	Mark Hooper/EPA	
AR 12.6.1 0005	12.6.1 Correspondence	Letter/Emissions factors in calculation of 1982 emissions from ASARCO with attached PSAPCA emissions inventory estimate, references, Appendix A for Final Environmental Impact Statement (1981), and table regarding ASARCO slag launder vent arsenic emission factor	9/1/83	14	A.R. Dammkoehler/PSAPCA	Clark Gaulding/EPA	
AR 12.6.1 0006	12.6.1 Correspondence	Memorandum/Funding of exposure assessment study with attached memorandum regarding funding of investigations, task list regarding investigations, and letter regarding exposure assessment study	11/18/83	9	L. Edwin Coate/EPA	C. Morgan Kinghorn	
	12.6.2 Meetings						
AR 12.6.2 0001	12.6.2 Meetings	Memorandum/ASARCO task force 7/14/83 meeting	7/21/83	4	Clark Gaulding/EPA	Chuck Elkins/EPA	
AR 12.6.2 0002	12.6.2 Meetings	ASARCO task force 7/26/83 meeting agenda	7/26/83	1	EPA		
AR 12.6.2 0003	12.6.2 Meetings	ASARCO task force meeting notes with attached attendance list	7/26/83	2	Unknown		
AR 12.6.2 0004	12.6.2 Meetings	Notes of 8/10/83 meeting with ASARCO	8/11/83	7	Unknown		
AR 12.6.2 0005	12.6.2 Meetings	Memorandum/Meeting on 8/16/83 with PSAPCA with attached outline summary of meeting	8/19/83	4	Clark Gaulding/EPA		
AR 12.6.2 0006	12.6.2 Meetings	Memorandum/Meeting on 7/26/83	8/22/83	2	Clark Gaulding/EPA		
	12.6.3 Air Pollutant Assessment Report on Arsenic						
AR 12.6.3 0001	12.6.3 Air Pollutant Assessment Report on Arsenic	Memorandum/Air pollutant assessment report	7/30/76	2	Roger Strelow/EPA	Please see document	

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AR 12.6.3 0002	12.6.3 Air Pollutant Assessment Report on Arsenic	Air Pollutant Assessment Report on Arsenic	7/76	77	OAQPS/EPA		
	12.6.4 Estimation of Ambient Arsenic Concentrations (PEDCO)						
AR 12.6.4 0001	12.6.4 Estimation of Ambient Arsenic Concentrations	Letter/Data	8/24/83	1	Rodwell Watson/ASARCO	George Shewe/PEDCO Environmental	
AR 12.6.4 0002	12.6.4 Estimation of Ambient Arsenic Concentrations	Letter and attachment/Analysis of reasons for 10 elevated ambient arsenic readings near ASARCO	9/12/83	2	Donald Robbins/ASARCO	George Shewe/PEDCO Environmental	
AR 12.6.4 0003	12.6.4 Estimation of Ambient Arsenic Concentrations	Report entitled "Estimation of Ambient Arsenic Concentrations in the Vicinity of the ASARCO Smelter at Tacoma"	12/83	127	PEDCO Environmental, Inc. and H.E. Cramer Company, Inc.	EPA	
AR 12.6.4 0004	12.6.4 Estimation of Ambient Arsenic Concentrations	Report entitled "Addendum No. 2 Estimation of Ambient Arsenic Concentrations in the Vicinity of the ASARCO Smelter at Tacoma"	5/84	77	PEDCO Environmental, Inc. and H.E. Cramer Company, Inc.	EPA	
	12.6.5 Emissions of Contaminated Soil in ASARCO Vicinity						
AR 12.6.5 0001	12.6.5 Emissions of Contaminated Soil in ASARCO Vicinity	Letter/Arsenic analytical results for 16 soil samples	11/21/83	2	Chuck Bruffey/PEDCO Environmental, Inc.	Chatten Cowherd/Midwest Research Institute (MRI)	
AR 12.6.5 0002	12.6.5 Emissions of Contaminated Soil in ASARCO Vicinity	Draft report entitled "Emissions of Contaminated Soil Around the ASARCO Tacoma Smelter"	10/3/83	18	MRI	OAQPS/EPA	
AR 12.6.5 0003	12.6.5 Emissions of Contaminated Soil in ASARCO Vicinity	Telephone conversation record/meteorological data provided for ASARCO	1/9/84	1	Rodwell Watson/ASARCO	Jan Meyers/EPA	
	12.6.6 Receptor Modeling Methods Study						
AR 12.6.6 0001	12.6.6 Receptor Modeling Methods Study	Article entitled Particulate Dispersion Model Evaluation: A New Approach Using Receptor Models	11/82	6	John Core/NEA, Inc., Patrick Hanrahan/Oregon Department of Environmental Quality, and William Cox/EPA		
AR 12.6.6 0002	12.6.6 Receptor Modeling Methods Study	Letter/Use of source apportionment methodology to answer questions regarding Tacoma area	8/5/83	2	Michael Johnston/EPA	John Cooper/NEA, Inc.	

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AR 12.6.6 0003	12.6.6 Receptor Modeling Methods Study	Letter/Apportionment of arsenic impacts, community exposure source apportionment, dispersion model validation, and estimates regarding likely cost and time for tasks designed to achieve such objectives with attached figures and tables	8/16/83	14	John Core/NERO and Associates, Inc.	Michael Johnston/EPA	
AR 12.6.6 0004	12.6.6 Receptor Modeling Methods Study	Technical Proposal and Cost Estimate/Receptor Approach to Quantitative Source Apportionment of Hazardous Chemicals and Pollutants in the Ruston and Tacoma, Washington Airsheds"	8/19/83	162	NEA, Inc.	EPA Region X	
AR 12.6.6 0005	12.6.6 Receptor Modeling Methods Study	Letter with attached final report entitled "Applications of Receptor Modeling Methods to Source Apportionment of Arsenic in Ruston-Tacoma Airshed: A Feasibility Study"	6/13/84	68	NEA, Inc.	PSAPCA	
	12.6.7 Air Quality Impact Assessment for Arsenic Emissions						
AR 12.6.7 0001	12.6.7 Air Quality Impact Assessment for Arsenic Emissions	Memorandum/Reports on ASARCO arsenic modeling	11/15/83	3	Joseph Tikvart/OAQPS-EPA	Jack Farmer/EPA	
AR 12.6.7 0002	12.6.7 Air Quality Impact Assessment for Arsenic Emissions	Air Quality Impact Assessment for Arsenic Emissions From the ASARCO Tacoma Smelter Preliminary Report of Results	11/11/83	51	H.E. Cramer Company, Inc.	PEDCO, Environmental, Inc.	
AR 12.6.7 0003	12.6.7 Air Quality Impact Assessment for Arsenic Emissions	Air Quality Impact Assessment for Arsenic Emissions From the ASARCO Tacoma Smelter Preliminary Report of Results (Revised)	12/16/83	71	H.E. Cramer Company, Inc.	PEDCO, Environmental, Inc.	
	12.7 Emissions Source Tests						
	12.7.1 Arsenic (Process and Fugitive) and Sulfur Dioxide Emissions Testing						
AR 12.7.1 0001	12.7.1 Arsenic and Sulfur Dioxide Emissions Testing	Report entitled "Arsenic Non-Ferrous Smelter (No. 2 Converter Duct) Emission Test"	8/22/79	106	D.J. Powell, T. Rooney, D.C. Ringwald/TRW, Inc.	OAQPS/EPA	
AR 12.7.1 0002	12.7.1 Arsenic and Sulfur Dioxide Emissions Testing	Report entitled "Arsenic Non-Ferrous Smelter Emissions Test"	1/18/80	178	TRW, Inc.	OAQPS/EPA	

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AR 12.7.1 0003	12.7.1 Arsenic and Sulfur Dioxide Emissions Testing	Memorandum/Meeting regarding status ASARCO visible emissions violations case with attached telephone conversation records regarding pilot study and opacity reports	2/2/81	2	Mark Hooper/EPA	K. Brooks, B. Lither, B. Swan, W. Grotheer, and M. Hooper/EPA	
AR 12.7.1 0004	12.7.1 Arsenic and Sulfur Dioxide Emissions Testing	Table and appendix/ASARCO air emissions estimates by PSAPCA for 1971-80	1980	11	PSAPCA		
AR 12.7.1 0005	12.7.1 Arsenic and Sulfur Dioxide Emissions Testing	Table/Suspended particulates in tons/year for 1971-80	1971-80	1	ASARCO and PSAPCA		
AR 12.7.1 0006	12.7.1 Arsenic and Sulfur Dioxide Emissions Testing	Tables and figures/Smelting process at ASARCO	1/14/80	7	Unknown		
AR 12.7.1 0007	12.7.1 Arsenic and Sulfur Dioxide Emissions Testing	Telephone conversation report/Arsenic mass balance received from Tacoma	4/7/83	1	Don Robbins/ASARCO	Glenn Whaley/EPA	
AR 12.7.1 0008	12.7.1 Arsenic and Sulfur Dioxide Emissions Testing	Telephone conversation report/Arsenic material balance supplied by Tacoma on 3/15/83	4/8/83	1	Glenn Whaley/EPA	Tom White/ASARCO	
AR 12.7.1 0009	12.7.1 Arsenic and Sulfur Dioxide Emissions Testing	Memorandum/Revised concentration estimates for ASARCO with attached tables regarding revised source data, fugitive sources based and control cases and main stack base control cases	5/12/83	6	David Layland	Mike Dustzine	
AR 12.7.1 0010	12.7.1 Arsenic and Sulfur Dioxide Emissions Testing	Transmittal memorandum/Table regarding comparison of PSAPCA, OAQPS, and modified estimates of arsenic emissions from ASARCO	7/21/83	4	Mark Hooper/EPA	Clark Gaulding/EPA	
AR 12.7.1 0010-1	12.7.1 Arsenic and Sulfur Dioxide Emissions Testing	Transmittal slip/Notes regarding discrepancy between EPA and PSAPCA data on arsenic emissions	7/25/83	4	Mark Hooper/EPA	Alex Smith	
AR 12.7.1 0011	12.7.1 Arsenic and Sulfur Dioxide Emissions Testing	Memorandum/Revised copy of arsenic materials balance for ASARCO	8/8/83	3	Alfred Vervaert/OAQPS-EPA	Mark Hooper/EPA	
AR 12.7.1 0012	12.7.1 Arsenic and Sulfur Dioxide Emissions Testing	Memorandum and attachments/Source contributions to arsenic ambient air quality estimates at ASARCO	8/12/83	6	Joseph Tikvart/OAQPS-EPA	Robert Ajax/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 12.7.1 0013	12.7.1 Arsenic and Sulfur Dioxide Emissions Testing	Letter and attachments/Comparison of two sets of emissions estimates from ASARCO and EPA with attached designation of authorized representatives for standards of performance for new stationary sources	9/8/83	23	Stanley Cuffe/OAQPS-EPA	M.O. Varner/ASARCO	
AR 12.7.1 0014	12.7.1 Arsenic and Sulfur Dioxide Emissions Testing	Letter/Response to request for breakdown by source of EPA revised arsenic emissions estimates for ASARCO and information basis and methods used to calculate estimates with attached letter regarding EPA estimates	10/31/83	9	Alfred Vervaert/OAQPS-EPA	L.W. Lindquist/ASARCO	
AR 12.7.1 0015	12.7.1 Arsenic and Sulfur Dioxide Emissions Testing	Memorandum and attachments/Impact of reduced curtailment of arsenic emissions from ASARCO	9/23/83	5	Mark Hooper/EPA	Michael Johnston/EPA	
AR 12.7.1 0016	12.7.1 Arsenic and Sulfur Dioxide Emissions Testing	Table/Comparison of ASARCO arsenic emissions estimates at baseline conditions	10/10/83	3	EPA Region X		
AR 12.7.1 0017	12.7.1 Arsenic and Sulfur Dioxide Emissions Testing	Document regarding sources of arsenic emissions at ASARCO	Unknown	1	EPA		
AR 12.7.1 0018	12.7.1 Arsenic and Sulfur Dioxide Emissions Testing	Report entitled "Arsenic Non-Ferrous Emission Test Report on Arsenic Sampler Comparison"	2/84	120	PEDCO Environmental, Inc.	OAQPS-EPA	
AR 12.7.1 0019	12.7.1 Arsenic and Sulfur Dioxide Emissions Testing	Report entitled "Volume 1 of Appendices to Arsenic Non-Ferrous Emissions Test Report on Arsenic Sampler Comparison"	2/84	571	PEDCO Environmental, Inc.	OAQPS-EPA	
AR 12.7.1 0020	12.7.1 Arsenic and Sulfur Dioxide Emissions Testing	Report entitled "Volume 2 of Appendices to Arsenic Non-Ferrous Emissions Test Report on Arsenic Sampler Comparison"	2/84	331	PEDCO Environmental, Inc.	OAQPS-EPA	
	12.7.2 Best Available Technology/Fugitive Arsenic Emissions						
AR 12.7.2 0001	12.7.2 Best Available Technology/Fugitive Arsenic Emissions	Transmittal letter/Internal memorandum regarding recommendation for emission testing at ASARCO	5/22/79	8	Alfred Vervaert/OAQPS-EPA	Kenneth Nelson/ASARCO	
AR 12.7.2 0002	12.7.2 Best Available Technology/Fugitive Arsenic Emissions	Notes/Current draft NESHAPS proposal for arsenic emissions from smelter	10/19/81	4	Unknown		

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 12.7.2 0003	12.7.2 Best Available Technology/Fugitive Arsenic Emissions	Memorandum/Request for technical support from John Burckle with attached memorandum regarding elimination of arsenic emissions from ASARCO	9/15/83	3	Alexandra Smith/EPA	David Stethan/IERL	
AR 12.7.2 0004	12.7.2 Best Available Technology/Fugitive Arsenic Emissions	Paper entitled " Removal of Harmful Impurities From Iron, Copper, Nickel, and Cobalt Concentrates in Ores"	Unknown	68	Heikki Tuovinen and Pekka Setala/Metallurgical Research Center	Metallurgical Society of Aime	
AR 12.7.2 0005	12.7.2 Best Available Technology/Fugitive Arsenic Emissions	Memorandum and attached tables/Basis for 24.2 tons/year estimate by ESED of other fugitive emissions	10/12/83	4	Mark Hooper/EPA	Clark Gaulding/EPA	
AR 12.7.2 0006	12.7.2 Best Available Technology/Fugitive Arsenic Emissions	Memorandum/Phone conversation with Larry Lindquist/ASARCO regarding EPA revised arsenic emissions estimates with attached news release regarding new data on arsenic emissions from ASARCO	11/9/83	4	Susan Grove/EPA	Files/EPA	
AR 12.7.2 0007	12.7.2 Best Available Technology/Fugitive Arsenic Emissions	Telephone conversation report/Request for information on WDOE reported method for identification and quantification of fugitive emissions	11/14/83	2	J. Wallenberg/WDOE	Jan Meyer/EPA	
AR 12.7.2 0008	12.7.2 Best Available Technology/Fugitive Arsenic Emissions	Memorandum/Methodology used to develop final low-level arsenic emissions rates for ASARCO	1/19/84	8	Paul Peterson/Pacific Environmental Services, Inc.	Al Vervaert/OAQPS-EPA	
AR 12.7.2 0009	12.7.2 Best Available Technology/Fugitive Arsenic Emissions	Memorandum/Estimated cost of replacing existing ESP with new spray chamber/ baghouse for control of process arsenic emissions from reverberatory furnace	3/2/84	5	Vishnu Katari and Graham Fitzsimmons/Pacific Environmental Services, Inc.	Al Vervaert/OAQPS-EPA	
AR 12.7.2 0010	12.7.2 Best Available Technology/Fugitive Arsenic Emissions	Memorandum with attached tables and figures/Comparison of arsenic collection performance for ASARCO No. 1 Cottrel versus fabric filter control device	3/8/84	13	Paul Peterson/Pacific Environmental Services, Inc.	Al Vervaert/OAQPS-EPA	
AR 12.7.2 0011	12.7.2 Best Available Technology/Fugitive Arsenic Emissions	Letter/Installation of INCO flash furnace and comparison of arsenic collection performance for ASARCO No. 1 Cottrel versus fabric filter control device	3/26/84	3	A.R. Dammkoehler/PSAPCA	Robert Ajax/OAQPS-EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 12.7.2 0012	12.7.2 Best Available Technology/Fugitive Arsenic Emissions	Memorandum and attached tables/Arsenic dispersion calculations for ASARCO with attached memorandum regarding methodology used to develop final low-level arsenic emission rates for ASARCO and memorandum regarding revised estimates for fugitive arsenic emissions from converter operations	4/4/84	22	Alfred Vervaert/OAQPS-EPA	David Layland/EPA	
AR 12.7.2 0013	12.7.2 Best Available Technology/Fugitive Arsenic Emissions	Memorandum/Material prepared for administrator's arsenic briefing regarding arsenic NESHAPS effort	4/5/84	15	Bob Ajax/OAQPS-EPA	Joe Cannon	
	12.7.3 ASARCO Plant Visits						
AR 12.7.3 0001	12.7.3 ASARCO Plant Visits	Letter/Obtaining information regarding arsenic emissions and control techniques	6/19/80	3	Stanley Cuffe/ESED-EPA	K.W. Nelson/ASARCO	
AR 12.7.3 0002	12.7.3 ASARCO Plant Visits	Report/Fugitive emissions data for certain operations	6/24-26/80	122	Vishnu Katari, Greg Lathan, and Jerel McInnis/Pacific Environmental Services, Inc., and Roy Neulicht/EPA		
AR 12.7.3 0003	12.7.3 ASARCO Plant Visits	Memorandum/8/17/83 visit	9/16/83	3	Wayne Grotheer/EPA	Files/EPA	
AR 12.7.3 0003-1	12.7.3 ASARCO Plant Visits	Memorandum/8/25/83 visit	9/16/83	6	Wayne Grotheer/EPA	Files/EPA	
AR 12.7.3 0004	12.7.3 ASARCO Plant Visits	Memorandum/Trip report-visit with attached survey of potential sources of fugitive arsenic emissions, memorandum on meetings to discuss methodology for analysis of arsenic content in ore, production curtailment, and experience using a panel of visible emissions observers	1/11/84	35	Paul Peterson and Glenn Whaley/Pacific Environmental Services, Inc.		
	12.8 Quality Assurance (QA) Reviews/Oversight of Ambient Arsenic Data						
AR 12.8 0001	12.8 QA Reviews/ Oversight of Ambient Arsenic Data	Transmittal slip and notes/Region X processing of ASARCO arsenic data	9/5/83	4	Clark Gaulding/EPA	Mike Johnston and Mark Hooper/EPA	
AR 12.8 0002	12.8 QA Reviews/ Oversight of Ambient Arsenic Data	Letter and attachments/ASARCO low-volume monitoring network	11/16/83	16	Donald Robbins/ASARCO	Jon Schweiss/EPA	

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AR 12.8 0003	12.8 QA Reviews/ Oversight of Ambient Arsenic Data	Data package/ASARCO daily low-volume monitoring network	Unknown	221	ASARCO		
AR 12.8 0004	12.8 QA Reviews/ Oversight of Ambient Arsenic Data	Memorandum/Analysis of ASARCO opacity monitor data	3/15/85	3	Mark Hooper/EPA	Ben Eusebio/EPA	
AR 12.8 0005	12.8 QA Reviews/ Oversight of Ambient Arsenic Data	Memorandum/Review of ASARCO ambient arsenic sampling program	2/14/83	12	Jon Schweiss/EPA	Dean Wilson/OAQPS-EPA	
AR 12.8 0006	12.8 QA Reviews/ Oversight of Ambient Arsenic Data	Letter/Revised memorandum regarding quality of ambient arsenic data from ASARCO monitoring network, Section 114 information request, and letters regarding elevated arsenic measurements	2/3/84	72	Robert Ajax/OAQPS-EPA	C. John Newlands/ Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	
12.9 National Arsenic Emissions Standard							
12.9.1 Proposed Arsenic Standard/Notice of Public Hearing							
AR 12.9.1 0001	12.9.1 Proposed Arsenic Standard/Notice of Public Hearing	Memorandum and attached tables/Proposed standard-action memo	6-30-83	18	Acting Assistant Administrator for Air, Noise and Radiation/EPA	Administrator/EPA	
AR 12.9.1 0002	12.9.1 Proposed Arsenic Standard/Notice of Public Hearing	Report/II. Inorganic Arsenic Emissions From Primary Copper Smelters Processing Feed Materials Containing 0.7 Percent or Greater Arsenic	6/30/83	60	EPA		
AR 12.9.1 0003	12.9.1 Proposed Arsenic Standard/Notice of Public Hearing	Executive Summary/National emissions standards for arsenic	7/12/83	12	EPA		
AR 12.9.1 0004	12.9.1 Proposed Arsenic Standard/Notice of Public Hearing	Federal Register, Part 2 regarding arsenic standards	7/20/83	69	Federal Register, Volume 48, No. 140/EPA		
AR 12.9.1 0005	12.9.1 Proposed Arsenic Standard/Notice of Public Hearing	Federal Register/Correction to Part 2, regarding proposed arsenic standards	9/12/83	2	Federal Register, Volume 48, No. 177/EPA		
AR 12.9.1 0006	12.9.1 Proposed Arsenic Standard/Notice of Public Hearing	Federal Register/Reopening of public comment period on proposed arsenic standards	12/16/83	3	Federal Register, Volume 48, No. 243/EPA		

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 12.9.1 0007	12.9.1 Proposed Arsenic Standard/Notice of Public Hearing	Federal Register notice/Proposal to revise standards for arsenic	4/17/84	12	EPA		
AR 12.9.1 0008	12.9.1 Proposed Arsenic Standard/Notice of Public Hearing	Memorandum and attachments/Red border concurrence on promulgation package for arsenic standards	6/27/84	9	Robert Ajax/OAQPS-EPA	Harvey Nozick/OAQPS-EPA	
AR 12.9.1 0009	12.9.1 Proposed Arsenic Standard/Notice of Public Hearing	Memorandum/Promulgation of arsenic standards-Action Memo	1/31/85	18	Assistant Administrator for Air and Radiation/EPA	Administrator/EPA	
AR 12.9.1 0010	12.9.1 Proposed Arsenic Standard/Notice of Public Hearing	Transmittal slip/Draft background information for developing communication strategy and memorandum regarding promulgation of arsenic standards	7-28-86	19	Bob Ajax/OAQPS-EPA	Mark Hooper/EPA	
AR 12.9.1 0011	12.9.1 Proposed Arsenic Standard/Notice of Public Hearing	Memorandum/Revisions to promulgation package for arsenic standards with attached memorandum regarding revised red border promulgation for arsenic standards	6/12/86	11	Robert Ajax/OAQPS-EPA	Harvey Nozick/OAQPS-EPA	
	12.9.2 Section 304 Notice Letter						
AR 12.9.2 0001	12.9.2 Section 304 Notice Letter	Letters/Arsenic emissions standards	8/9/84	2	David Doniger/Natural Resources Defense Council (NRDC), Inc.	William Ruckelshaus/EPA Headquarters	
	12.9.3 Final Rule for Arsenic Emissions Standards						
AR 12.9.3 0001	12.9.3 Final Rule for Arsenic Emissions Standards	Federal Register/Final rule for arsenic emissions standards	8/4/86	87	Federal Register, Volume 51, No. 149/EPA		
	12.10 Environmental Impact Statement (EIS) for Arsenic Emissions						
	12.10.1 Draft EIS						
AR 12.10.1 0001	12.10.1 Draft EIS	Inorganic Arsenic Emissions From High-Arsenic Primary Copper Smelters-Background Information for Proposed Standards/Draft EIS	4/83	391	OAQPS-EPA		
AR 12.10.1 0002	12.10.1 Draft EIS	Inorganic Arsenic Emissions From Low-Arsenic Primary Copper Smelters-Background Information for Proposed Standards/Draft EIS	4/83	488	OAQPS/EPA		

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 12.10.1 0003	12.10.1 Draft EIS	Memorandum/Additions and corrections to background information document on proposed standards for high-arsenic copper smelters with attached letter regarding study entitled "Characterization of Visible Plumes From a Copper Smelter", table regarding testing on reverb converter and secondary hood, and PSAPCA Resolution No. 501	8/8/83	10	Wayne Grotheer/EPA	Rule-Making Docket/EPA	
	12.10.2 Final EIS						
AR 12.10.2 0001	12.10.2 Final EIS	Inorganic Arsenic Emissions From Primary Copper Smelters and Arsenic Plants-Background Information for Promulgated Standards/Final EIS	5/86	317	OAQPS/EPA		

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SECTION 13.0 NON-CERCLA ENFORCEMENT-OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
	13.1 Correspondence						
AR 13.1 0001	13.1 Correspondence	Transmittal slip/Memorandum regarding proposed OSHA standard and its impact on EPA	2/5/75	6	Joe Cooper/OAQPS-EPA	Jim Everts and Bob Courson/EPA, Region X	
AR 13.1 0002	13.1 Correspondence	Letter/OSHA hearing and Pinto-Enterline study	6/4/75	4	Sherman Pinto/ASARCO	Fred Schafrick/Shea & Gardner	
AR 13.1 0003	13.1 Correspondence	Memorandum/Letter regarding lung cancer and other deaths among retired ASARCO workers	12/2/75	3	Sherman Pinto/ASARCO	K.W. Nelson, A.L. Labbe, M.O. Varner, C.H. Hine/ASARCO	
AR 13.1 0004	13.1 Correspondence	Letter/Request for information regarding thresholds for arsenic exposure	12/3/75	2	Phillip Enterline/University of Pittsburgh	E.K. Kwan/OSHA, U.S. Department of Labor	
AR 13.1 0005	13.1 Correspondence	Letter of verification/Conversation between United Steelworkers of America (USWA) Local 25 and OSHA representative Carl Mangold with attached letter of petition for temporary emergency standard on exposure to inorganic arsenic	12/15/76	14	Robert Gaadiana/Business agent Local 25 USWA-AFL/CIO	James Lake/Regional Administrator-OSHA, Region X	
AR 13.1 0006	13.1 Correspondence	Memorandum/Estimate of OSHA arsenic standard compliance costs for ASARCO	2/27/84	15	Paul Peterson/Pacific Environmental Services, Inc.	Al Vervaert/ESED-EPA	
	13.2 OSHA/EPA Task Force						
AR 13.2 0001	13.2 OSHA/EPA Task Force	Letter of proposal/Establishment of working group to discuss relationship of OSHA and EPA requirements related to control of sulfur dioxide and particulate emissions with attached memorandums regarding EPA and OSHA regulatory activity affecting ASARCO and EPA and OSHA coordination	7/7/77	8	Douglas Costle/EPA, Region X	Eula Bingham/OSHA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 13.2 0002	13.2 OSHA/EPA Task Force	Memorandum/OSHA and EPA coordination on ASARCO compliance actions	Unknown	2	James Lake/OSHA	Eula Bingham/OSHA	
AR 13.2 0003	13.2 OSHA/EPA Task Force	Memorandum/Meeting between EPA and OSHA to discuss coordination of respective regulatory programs	8/77	1	Bauer/EPA, Region X		
AR 13.2 0004	13.2 OSHA/EPA Task Force	Letter/Draft final standards for occupational exposure to inorganic arsenic	8/8/77	1	Grover Wrenn/OSHA	Donald Dubois/EPA, Region X	
AR 13.2 0005	13.2 OSHA/EPA Task Force	Letter/Initial EPA and OSHA task force meetings and review of arsenic standard	8/10/77	1	Grover Wrenn/OSHA	Edward Reich/EPA	
AR 13.2 0006	13.2 OSHA/EPA Task Force	Memorandum/OSHA and EPA regulatory coordination and follow-up to meeting with Eula Bingham	9/2/77	3	Donald Dubois/EPA	Douglas Costle/EPA	
AR 13.2 0007	13.2 OSHA/EPA Task Force	Document regarding plant description, emissions in tons/year, pollution problems, joint effort and immediate needs	10/77	3	Unknown		
AR 13.2 0008	13.2 OSHA/EPA Task Force	Document regarding medical studies and regulatory action	Unknown	3	Unknown		
AR 13.2 0009	13.2 OSHA/EPA Task Force	Letter and attachments/Control study at ASARCO	2/8/78	13	Lloyd Reed/EPA, Region X	Thomas Gallagher/ National Enforcement Investigation Center (NEIC)-EPA	
AR 13.2 0010	13.2 OSHA/EPA Task Force	Letter/Requested entry in joint EPA and OSHA evaluation of emissions control system and/or process changes	3/10/78	1	Ralph Bauer/EPA	Kenneth Nelson/ASARCO	
AR 13.2 0011	13.2 OSHA/EPA Task Force	Letter and attached Scope of Work/Control technology and cost of control study at ASARCO	3/10/78	7	Ralph Bauer/EPA	Grover Wrenn/OSHA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 13.2 0012	13.2 OSHA/EPA Task Force	Memorandum/6/23/78 meeting regarding ASARCO fugitive emissions control project	7/13/78	5	David Brooman and Richard Ida/NEIC-EPA	Carroll Wills/NEIC-EPA	
AR 13.2 0013	13.2 OSHA/EPA Task Force	Transmittal slip and notes/Agenda items for 8/21/78 OAQPS, OSHA, NEIC, and Region X meeting	8/11/78	3	Mark Hooper/EPA, Region X		
AR 13.2 0014	13.2 OSHA/EPA Task Force	Memorandum/Work exposure data for ASARCO arsenic emissions control feasibility study	8/18/78	2	Lloyd Reed/EPA	William Blackman/NEIC-EPA	
AR 13.2 0015	13.2 OSHA/EPA Task Force	Letter and attachments/Proposed NEIC evaluation, worker exposure data for ASARCO arsenic emissions control feasibility study, and fugitive emissions control project	9/25/78	31	William Blackman/NEIC-EPA	Lloyd Reed/EPA	
AR 13.2 0016	13.2 OSHA/EPA Task Force	Notes/OSHA and EPA meeting	10/11/78	10	Unknown		
AR 13.2 0017	13.2 OSHA/EPA Task Force	Scope of Worker for ASARCO (Phase I) regarding identification of emissions control systems and/or process changes	Unknown	5	Unknown		
AR 13.2 0018	13.2 OSHA/EPA Task Force	Technical Scope of Work/Control of various pollutants at ASARCO	Unknown	3	Unknown		
AR 13.2 0019	13.2 OSHA/EPA Task Force	Task document entitled "Control of Critical Pollutants to Meet Puget Sound Air Pollution Control Agency (PSAPCA), OSHA and EPA Requirements at ASARCO-Tacoma"	Unknown	4	EPA		
AR 13.2 0020	13.2 OSHA/EPA Task Force	Task document entitled "Control of Critical Pollutants to Meet PSAPCA, OSHA, and EPA Requirements at ASARCO-Tacoma"	Unknown	9	EPA		

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 13.2 0021	13.2 OSHA/EPA Task Force	Notes/Points of agreement regarding EPA and OSHA cooperative effort	Unknown	3	Unknown		
13.3 Exposure Standard for Inorganic Arsenic (OSHA)							
13.3.1 Proposed Exposure Standard							
AR 13.3.1 0001	13.3.1 Proposed Exposure Standard	Federal Register notice of proposed rule-making/OSHA standard for exposure to inorganic arsenic	1/21/75	13	Federal Register, Volume 40, No. 14, Part III/U.S. Department of Labor-OSHA		
AR 13.3.1 0002	13.3.1 Proposed Exposure Standard	Memorandum/OSHA preamble and draft final standard	8/19/77	2	Robert Coughlin/EPA	Richard Bauer/EPA	
AR 13.3.1 0003	13.3.1 Proposed Exposure Standard	Notes/OSHA exposure estimates	Unknown	1	Unknown		
13.3.2 Final Exposure Standard							
AR 13.3.2 0001	13.3.2 Final Exposure Standard	Federal Register final standard/Occupation exposure to inorganic arsenic	5/5/78	48	Federal Register, Volume 43, No. 88/U.S. Department of Labor-OSHA		
AR 13.3.2 0002	13.3.2 Final Exposure Standard	Federal Register/Limited reopening of inorganic arsenic rule-making record and notice of comment period and informal public hearing	4/9/82	10	Federal Register, Volume 47, No. 69/U.S. Department of Labor-OSHA		
AR 13.3.2 0003	13.3.2 Final Exposure Standard	Federal Register/Occupational exposure to inorganic arsenic and supplemental statement of reasons for final rule	1/14/83	40	Federal Register, Volume 48, No. 10/U.S. Department of Labor-OSHA		
13.4 Environmental Impact Statement (EIS) for Inorganic Arsenic (OSHA)							
AR 13.4 0001	13.4 EIS for Inorganic Arsenic	Memorandum of comment/Review of EIS	4/18/75	1	Walter Jaspers/EPA, Region X	Pope Lawrence/Office of Federal Activities-OSHA	
AR 13.4 0002	13.4 EIS for Inorganic Arsenic	Final EIS	2/04/77	132	U.S. Department of Labor/OSHA		

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
	13.5 Sampling Data From ASARCOP Personnel Monitoring						
AR 13.5 0001	13.5 Sampling Data From ASARCO Personnel Monitoring	Sampling data and report/Hair samples analyses	2/1/73	3	National Institute for Occupational Safety and Health (NIOSH)/Western Area Occupational Health Laboratories	Carl Johnson/Seattle-King County Department of Health (SKCDH)	
AR 13.5 0002	13.5 Sampling Data From ASARCO Personnel Monitoring	Sampling and analysis data for worker exposure to lead and arsenic	1978-82	124	Donald Robbins and Robert Putnam/ASARCO		
	13.6 Compliance Inspection-Washington State/OSHA						
AR 13.6 0001	13.6 Compliance Inspection-Washington State/OSHA	Cover memorandum/Occupational health compliance data for ASARCO	7/28/78	27	John Granchi/OSHA, Region X	Dick Bauer/EPA	
AR 13.6 0002	13.6 Compliance Inspection-Washington State/OSHA	Industrial hygiene survey report: Assessment of Occupational Exposure to Arsenic, Copper, and Lead in a Western Copper Smelter	4/82	4	Stephen Cant and Louis Legendre/Division of Industrial Safety and Health-Department of Labor and Industries		
	13.7 Tripartite Agreement						
	13.7.1 Engineering Assessment and Compliance Plan						
AR 13.7.1 0001	13.7.1 Engineering Assessment and Compliance Plan	Agreement of parties with signatures/Engineering assessment and compliance plan for ASARCO	12/6/82	25	Sam Kinville/Department of Labor and Industries, Douglas Soutar and L.W. Lindquist/ASARCO, and Joseph Odorcich and Charles O'Donahue/USWA		
AR 13.7.1 0002	13.7.1 Engineering Assessment and Compliance Plan	Memorandum and attachments/Estimates of OSHA arsenic standards compliance costs for ASARCO	2/27/84	15	Paul Peterson/Pacific Environmental Services, Inc.	Al Vervaert/ESED-EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
	13.7.2 Quarterly Progress and Air Sampling Reports						
AR 13.7.2 0001	13.7.2 Quarterly Progress and Air Sampling Reports	Cover letter/Quarterly progress reports and air monitoring data for 1983	3/5/84	108	Stephen Cant/Division of Industrial Safety and Health-Washington Department of Labor and Industries	Glenn Whaley/Pacific Environmental Services, Inc.	
AR 13.7.2 0002	13.7.2 Quarterly Progress and Air Sampling Reports	Cover letter/Quarterly Progress Report #7	9/28/84	10	C.E. Dungey/ASARCO	M.E. Cassady/OSHA, S.M. Cant/DLI, M.J. Wright/USWA, and M.O. Varner/ASARCO	

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SECTION 14.0 HEALTH ASSESSMENTS

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
	14.1 Correspondence						
AR 14.1 0001	14.1 Correspondence	Memorandum/Health hazards of ASARCO smelter	5/1/72	1	John Finklea/Division of Healths Effects Research (DHER)	G. Love, Pollutant Burden Indicator Team/ DHER Distribution	
AR 14.1 0002	14.1 Correspondence	Telephone conversation report/Correlation between arsenic levels and incidence of lung cancer	11/22/72	1	R. Buechley/DHER	EPA, Region X	
AR 14.1 0003	14.1 Correspondence	Letter/Five city sampling programs with attached ASARCO sampling results for arsenic in soil near smelter	5/9/72	4	A.L. Labbe/ASARCO	L.C. Travis/ASARCO	
AR 14.1 0004	14.1 Correspondence	Letter/Sampling and analysis results for blood lead levels and hair and urine arsenic levels of children on Vashon-Maury Islands	2/13/73	1	Carl Johnson/SKCDH	A.R. Dammkoehler/PSAPCA	
AR 14.1 0005	14.1 Correspondence	Letter/Lack of documentation of lead absorption problem in Tacoma children	2/13/74	2	Phillip Landrigan/Centers for Disease Control (CDC)	John Roberts/PSAPCA	
AR 14.1 0006	14.1 Correspondence	Letter/Need for in-depth epidemiological study	1/10/75	2	Douglas Hansen/EPA, Region X	John Beare/Washington Department of Social and Health Services (DSHS)	
AR 14.1 0007	14.1 Correspondence	Letter/Data on lung cancer deaths for Washington men aged 15-64	5/6/75	2	Stan Lilian/DSHS	Sherman Pinto/ASARCO	
AR 14.1 0008	14.1 Correspondence	Letter of comment and review/Papers and data regarding arsenic emissions from copper smelters	8/28/75	5	James McCarroll/City of Los Angeles	Kenneth Nelson/ASARCO	
AR 14.1 0009	14.1 Correspondence	Memorandum/Carcinogenicity of arsenic	4/29/77	2	Roy Albert/EPA	Joseph Padgett/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 14.1 0010	14.1 Correspondence	Memorandum/Issues for consideration in reviewing arsenic risks, health assessments, and exposure studies	5/2/78	1	Joseph Padgett/EPA	Richard Dowd/EPA	
AR 14.1 0011	14.1 Correspondence	Statement by subcommittee on arsenic as possible hazardous air pollutant/Recommendation of 5/23/78	5/23/78	4	Science Advisory Board/EPA		
AR 14.1 0012	14.1 Correspondence	Letter/Population exposure to atmospheric cadmium and carcinogenicity of cadmium	7/28/78	4	K.W. Nelson/ASARCO	Joel Fisher/Science Advisory Board-EPA	
AR 14.1 0013	14.1 Correspondence	Letter/Potential health effects in ASARCO area as result of contaminants with attached memorandum and data regarding arsenic and cadmium levels in soils at Wedgewood Park, Tacoma	Unknown	7	John Beare/DSHS	Russell Buehler/Tacoma Planning Commission	
AR 14.1 0014	14.1 Correspondence	Cover memorandum/Superfund implementation group document evaluating possible health studies in ASARCO vicinity	8/1/83	5	Chief/Superfund Implementation Group-CDC	Joel Mulder/EPA, Region IX	
AR 14.1 0015	14.1 Correspondence	Notes/Unit risks	Unknown	2	Unknown		
AR 14.1 0016	14.1 Correspondence	Letter/Estimated levels of atmospheric arsenic and prediction of elevated incidence of arsenic-induced lung cancer in Tacoma area with attached study regarding Tacoma-area lung cancer	1/30/84	17	Floyd Frost/DSHS	William Ruckelshaus/EPA	
AR 14.1 0017	14.1 Correspondence	Letter/Request for Agency and Toxic Substances and Disease Registers (ATSDR) position on levels where urinary arsenic becomes health concern	6/12/86	1	James Everts/EPA, Region X	Barry Johnson/ATSDR	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
	14.2 Review of Literature on Health of Populations Living Near Arsenic Emitting Sources						
AR 14.2 0001	14.2 Review of Literature on Health of Populations Living Near Arsenic Emitting Sources	Report entitled "Review and Analysis of Literature on Health of Populations Living Near Arsenic Emitting Sources"	8/12/83	8	Samuel Milham/DSHS		
	14.3 Health Assessment Reports (EPA)						
AR 14.3 0001	14.3 Health Assessment Reports	Report entitled "An Assessment of the Health Effects of Arsenic-Preliminary Draft"	4/78	138	Office of Research and Development (ORD)/EPA		
AR 14.3 0002	14.3 Health Assessment Reports	Report entitled "An Assessment of the Health Effects Germane to Low-Level Exposure-Preliminary Draft"	10/78	127	ORD/EPA		
AR 14.3 0003	14.3 Health Assessment Reports	Report entitled "Human Exposures to Atmospheric Arsenic-Final Report"	5/80	122	Benjamin Suta/SRI, International	ORD and OAQPS/EPA	
AR 14.3 0004	14.3 Health Assessment Reports	Letter of comment/EPA draft document "Health Assessment Document for Arsenic" dated 4/80 with attached article and memorandums regarding respiratory cancer hazards from airborne arsenic	6/24/80	12	K.W. Nelson/ASARCO	Lester Grant/Office of Health and Environmental Assessment (OHEA)-EPA	
AR 14.3 0005	14.3 Health Assessment Reports	EPA project summary/Effect of industrial particulate samples on alveolar macrophages	3/81	3	ORD/EPA		
AR 14.3 0006	14.3 Health Assessment Reports	Report entitled "Assessment of Human Exposure to Arsenic Tacoma, Washington"	7/19/83	33	OHEA/EPA	Office of Waste Programs Enforcement/EPA	
AR 14.3 0007	14.3 Health Assessment Reports	Report entitled "Health Assessment Document for Inorganic Arsenic-Final Report"	3/84	347	ORD/EPA		

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
	14.4 Risk Assessments on Arsenic						
AR 14.4 0001	14.4 Risk Assessments on Arsenic	Inorganic Arsenic Assessment for Primary and Secondary Lead Smelters, Primary Zinc Smelters, Zinc Oxide Plants, Cotton Gins, and Arsenic Chemical Plants	4/85	98	OAQPS/EPA		
AR 14.4 0002	14.4 Risk Assessments on Arsenic	Carcinogen Assessments Group's report entitled "Preliminary Report on Population Risk to Arsenic Exposures"	4/18/78	20	Roy Albert and participating members (please see document)/EPA		
AR 14.4 0003	14.4 Risk Assessments on Arsenic	Carcinogen Assessments Group's report entitled "Risk Assessment on Arsenic"	11/27/78	24	Roy Albert and participating members/EPA		
AR 14.4 0004	14.4 Risk Assessments on Arsenic	Letter/Memorandums regarding risk assessments for occupational and public exposures to airborne arsenic trioxide	3/7/80	7	Ken Nelson/ASARCO	Lars Fribert/Department of Environmental Hygiene-Karolinska Institute, Sweden	
AR 14.4 0005	14.4 Risk Assessments on Arsenic	Carcinogen Assessments Group's Final Risk Assessment on Arsenic	5/2/80	32	Roy Albert and participating members/EPA		
AR 14.4 0006	14.4 Risk Assessments on Arsenic	Memorandum/Summary of health risks due to community exposures to arsenic at ASARCO	4/10/81	2	A.E. Vervaert/OAQPS-EPA	Mark Hooper/EPA	
AR 14.4 0007	14.4 Risk Assessments on Arsenic	Letter and attached graphs and tables/Risk assessments based on arsenic absorption and excretion	4/27/82	9	Rodwell Watson/ASARCO	K.W. Nelson/ASARCO	
AR 14.4 0008	14.4 Risk Assessments on Arsenic	Paper entitled "Asking the Public to Decide Upon an Acceptable Risk on the ASARCO Copper Smelter Near Tacoma, Washington"	Unknown	15	Kristine Wicklund and Floyd Frost/DSHS		
AR 14.4 0009	14.4 Risk Assessments on Arsenic	Paper and tables/Types of evidence needed to reject EPA cancer risk model for arsenic	Unknown	11	Unknown		

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 14.4 0010	14.4 Risk Assessments on Arsenic	Appendix E/Quantitative expressions of public cancer risks from emissions of inorganic arsenic from high-arsenic smelters	Unknown	31	EPA		
AR 14.4 0011	14.4 Risk Assessments on Arsenic	Document/Exposure assumption and changes in risk from changes in exposure assumption	2/19/87	3	Unknown		
AR 14.4 0012	14.4 Risk Assessments on Arsenic	Document/Risk assessment regarding Mill Creek and Ruston	2/19/87	1	Unknown		
14.5 Cancer Studies							
14.5.1 Lung Cancer Studies							
AR 14.5.1 0001	14.5.1 Lung Cancer Studies	Letter/Lung cancer deaths among Tacoma female residents	9/5/75	2	Sherman Pinto/ASARCO	K.W. Nelson/ASARCO	
AR 14.5.1 0002	14.5.1 Lung Cancer Studies	Cover memorandum/Recalculated rates for lung cancer rates in males and females living in 10 biggest cities in Washington	10/7/80	7	Sherman Pinto/ASARCO	A.L. Labbe/ASARCO	
AR 14.5.1 0003	14.5.1 Lung Cancer Studies	Letter/Ability of health effects studies to detect arsenic-induced lung cancer among Tacoma residents	8/31/83	2	Floyd Frost/DSHS	Joel Mulder/EPA	
AR 14.5.1 0004	14.5.1 Lung Cancer Studies	Letter/EPA Region 9 air toxics conference with attached paper regarding lung cancer mortality in community surrounding a copper smelter	9/19/83	16	Donald Robbins/ASARCO	Mike Johnston/EPA	
AR 14.5.1 0005	14.5.1 Lung Cancer Studies	Letter/Estimated levels of atmospheric arsenic and prediction of elevated incidence of arsenic-induced lung cancer in Tacoma area with attached Tacoma-area lung cancer study	1/30/84	17	Floyd Frost/DSHS	William Ruckelshaus/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 14.5.1 0006	14.5.1 Lung Cancer Studies	Papers entitled "Contributions of Airborne Cadmium and Arsenic to Respiratory Cancer" and "Pulmonary Carcinogenicity of Inhaled Cadmium: Arsenic and Lung Cancer-Epidemiologic Data; Risk Assessment"	Unknown	27	Thomas Smith, G. Oberdorster, Henry Falk, and D.C. Thomas		
AR 14.5.1 0007	14.5.1 Lung Cancer Studies	Paper entitled "Lung Cancer Deaths in Pierce County"	Unknown	7	Unknown		
	14.5.2 Cancer Incidence in Relation to a Smelter						
AR 14.5.2 0001	14.5.2 Cancer Incidence in Relation to a Smelter	Cancer Incidence in Relation to a Smelter as revised 10/79	10/79	11	Lincoln Polissar, Richard Severson, and Yiu-Tai Lee/University of Washington		
	14.5.3 Pilot Study in Baltimore (Office of Toxic Substances, EPA)						
AR 14.5.3 0001	14.5.3 Pilot Study in Baltimore	Epidemiology Studies Task 1-Phase 1 Pilot Study of Cancer Mortality Near an Arsenical Pesticide Plant in Baltimore	5/76	25	Genevieve Matanski, Emanuel Landau, and Elizabeth Elliott	Office of Toxic Substances (OTS)-EPA	
	14.5.4 Arsenic-Selenium Studies						
AR 14.5.4 0001	14.5.4 Arsenic-Selenium Studies	Letter/Possibility that selenium might function as antagonist to arsenic poisoning	2/2/77	2	Sherman Pinto/ASARCO	K.W. Nelson and A.L. Labbe/ASARCO	
AR 14.5.4 0002	14.5.4 Arsenic-Selenium Studies	Article entitled "What Do Losses in Arsenic and Selenium Bioavailability Signify for Health"	1983	12	Douglas Frost/Elsevier Science Publishers B.V.		
AR 14.5.4 0003	14.5.4 Arsenic-Selenium Studies	Letters/Contesting arsenic cancer in humans association with attached new data on essentiality of arsenic	9/12/84	4	Douglas Frost/Consultant	Dana Davoli/EPA	
AR 14.5.4 0004	14.5.4 Arsenic-Selenium Studies	Article entitled "Is Selenium Depletion the Answer to the Arsenic Cancer Mystery?"	Unknown	6	Douglas Frost/Consultant		

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 14.5.4 0005	14.5.4 Arsenic-Selenium Studies	Paper entitled "The Unforeseen Need for Arsenic and Selenium for Optimum Health"	Unknown	8	Douglas Frost/Consultant		
	14.5.5 National Academy of Science Report on Arsenic						
AR 14.5.5 0001	14.5.5 National Academy of Science Report on Arsenic	National Academy of Science Report on Arsenic	1976	51	Subcommittee on Arsenic, Committee on Medical and Biologic Effects of Environmental Pollutants, National Research Council/National Academy of Sciences	EPA	
14.6 Studies of Children							
	14.6.1 Adverse Perinatal Outcomes						
AR 14.6.1 0001	14.6.1 Adverse Perinatal Outcomes	Thesis entitled "An Epidemiological Analysis of the Possible Association of Adverse Perinatal with Environmental Arsenic Exposure"	1985	93	Laura Robinson/University of Washington		
	14.6.2 Birth Weight Studies						
AR 14.6.2 0001	14.6.2 Birth Weight Studies	Letter of comment/Attached publications (from University of Umea, Sweden) regarding environmental risks from arsenic	10/6/80	17	Lowell White/ASARCO	M.O. Varner/ASARCO	
AR 14.6.2 0002	14.6.2 Birth Weight Studies	Letter/Birth defects among babies born in Tacoma	4/4/83	1	William Wilson/ESRL-EPA	Dana Davoli/EPA, Region X	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 14.6.2 0003	14.6.2 Birth Weight Studies	Transmittal slip/Articles entitled "Occupational and Environmental Risks in and Around a Smelter in Northern Sweden: Variations in Birth Weight"; "III Frequencies of Spontaneous Abortions"; "V Spontaneous Abortions Among Female Employees and Decreased Birth Weight in Their Offspring"; and "VI Congenital Malformations"	10/13/83	24	Robert McGaughy/Carcinogen Assessment Group-EPA	Dana Davoli/EPA	
AR 14.6.2 0004	14.6.2 Birth Weight Studies	Transmittal slip/Review of statistical analysis reported in "Occupational and Environmental Risks in and Around a Smelter in Northern Sweden"	Unknown	7	Robert McGaughy/Carcinogen Assessment Group-EPA	Dana Davoli/EPA	
	14.6.3 Washington Department of Social and Health Services (DSHS)/Milham Studies						
AR 14.6.3 0001	14.6.3 DSHS/Milham Studies	Article entitled "Human Arsenic Exposure in Relation to a Copper Smelter"	1974	7	Samuel Milham and Terrence Strong/DSHS		
AR 14.6.3 0002	14.6.3 DSHS/Milham Studies	Memorandum/Summary of smelter study	9/18/74	3	T.R. Strong/DSHS	Sam Reed/DSHS	
AR 14.6.3 0003	14.6.3 DSHS/Milham Studies	Article entitled "Studies of Morbidity Near a Copper Smelter"	8/77	2	Samuel Milham/DSHS		
AR 14.6.3 0004	14.6.3 DSHS/Milham Studies	Summary report entitled "A Long-term Follow-up on Schoolchildren Exposed to Atmospheric Arsenic"	Unknown	5	Unknown		CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 14.6.3 0005	14.6.3 DSHS/Milham Studies	Report entitled "Rest Your Fears-Growth Appears Normal at Ruston"	Unknown	21	Phillip Numoto and Samuel Milham/DSHS		
AR 14.6.3 0006	14.6.3 DSHS/Milham Studies	Letter/DSHS study of health effects caused by smelter since 5/72 with attached memorandum regarding summary of smelter study	1/3/75	6	John Beare/DSHS	Doug Hansen/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 14.6.3 0007	14.6.3 DSHS/Milham Studies	Letter/Questions related to ASARCO	6/26/75	1	Samuel Milham/DSHS	James Everts/EPA	
AR 14.6.3 0008	14.6.3 DSHS/Milham Studies	Memorandum/Report of work done in fulfillment of contract with DSHS entitled "Heavy Metals Data Collection Proximate to ASARCO, Tacoma, Washington Copper Smelter"	6/26/75	7	Samuel Milham/DSHS	James Everts/EPA	
AR 14.6.3 0009	14.6.3 DSHS/Milham Studies	Sampling and analysis results for urinary arsenic and cadmium from Ruston schoolchildren	9/17/75	20	C.E. Dungey/ASARCO	Robert Putnam/ASARCO	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 14.6.3 0010	14.6.3 DSHS/Milham Studies	Memorandum/Results of urinary arsenic level survey and attached study entitled "Human Arsenic Exposure in Relation to a Copper Smelter"	6/29/76	14	H.P. O'Reilly/DSHS	Raymond Adams/ Superintendent of Schools-Vashon Island	
AR 14.6.3 0011	14.6.3 DSHS/Milham Studies	Cover memorandum/Notice to Ruston residents regarding DSHS attempt to assess long-term health effects of low-level heavy metals exposures	6/26/79	2	A.L. Labbe/ASARCO	K.W. Nelson/ASARCO	
AR 14.6.3 0012	14.6.3 DSHS/Milham Studies	Letter/Results of lead levels in blood of Tacoma schoolchildren	6/13/72	5	Dick Holub/University of Washington	Terry Strong/DSHS	
AR 14.6.3 0013	14.6.3 DSHS/Milham Studies	Letter/Sampling analysis results for urinary lead levels for Ruston and Fern Hill schoolchildren	7/21/72	1	A.L. Labbe/ASARCO	Terrence Strong/DSHS	
AR 14.6.3 0014	14.6.3 DSHS/Milham Studies	Cover letter/Analyses of urinary arsenic levels in schoolchildren	11/13/72	4	A.L. Labbe/ASARCO	K.W. Nelson/ASARCO	
AR 14.6.3 0015	14.6.3 DSHS/Milham Studies	Letter/Summary of blood lead levels of Tacoma-area children	12/28/73	2	Sherman Pinto/ASARCO	K.W. Nelson/ASARCO	
AR 14.6.3 0016	14.6.3 DSHS/Milham Studies	Cover letter/Raw data for urinary arsenic	11/7/74	3	T.R. Strong/DSHS	A.L. Labbe/ASARCO	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 14.6.3 0017	14.6.3 DSHS/Milham Studies	Letter/Urinary arsenic results for 1972 Tacoma schoolchildren study with attached results	5/27/75	3	ASARCO	Terry Strong/DSHS	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 14.6.3 0018	14.6.3 DSHS/Milham Studies	Data/Blood lead, urinary arsenic, and hair analyses	Unknown	4	Unknown		
AR 14.6.3 0019	14.6.3 DSHS/Milham Studies	Letter of rebuttal/Milham quote "Urinary arsenic levels in Ruston schoolchildren are the same now as when sampling began in 1972"	2/18/82	2	K.W. Nelson/ASARCO	Samuel Milham/DSHS	
AR 14.6.3 0020	14.6.3 DSHS/Milham Studies	Cover letter/Tables for all urinary arsenic sampling results for Tacoma-area children taken by DSHS and ASARCO with exception regarding results reported to ASARCO by DSHS	8/5/83	41	Rodwell Watson/ASARCO	Samuel Milham/DSHS	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 14.6.3 0021	14.6.3 DSHS/Milham Studies	Letter/Data summaries regarding urinary arsenic monitoring studies by DSHS and ASARCO	2/23/82	5	Samuel Milham/DSHS	K.W. Nelson/ASARCO	
	14.6.4 Monitoring and Reducing Toxic Intake by Children						
AR 14.6.4 0001	14.6.4 Monitoring and Reducing Toxic Intake by Children	Letter/Reducing toxic intake of children near ASARCO and South Park, Seattle	12/28/83	2	John Roberts/Engineering Plus, Inc.	Rebecca Schilling/EIS Officer-Center for Environmental Health	
AR 14.6.4 0002	14.6.4 Monitoring and Reducing Toxic Intake by Children	Letter/Paper entitled "Monitoring and Reducing Toxic Intake of Children Near Tacoma Smelter and South Park, Seattle"	11/19/83	14	John Roberts/Engineering Plus, Inc.	Doug Pierce/Tacoma-Pierce County Health Department (TPCHD)	
AR 14.6.4 0003	14.6.4 Monitoring and Reducing Toxic Intake by Children	Preproposal submittal entitled "Reduction in Human Body Burden of Arsenic by Changing Housekeeping and Personal Hygiene Habits"	4/83	5	Eric Crecelius/Battelle Northwest Marine Research Laboratory (Battelle)	TPCHD	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 14.6.4 0004	14.6.4 Monitoring and Reducing Toxic Intake by Children	Data tables/Concentrations of heavy metals and organics in house and road dust from Tacoma tideflats and Seattle	Unknown	3	??		
14.7 Studies of Surrounding Community							
AR 14.7 0001	14.7 Studies of Surrounding Community	A Proposal for a Study of the Community Health Effects of Inorganic Arsenic	6/10/75	24	Departments of Environmental Health and Biostatistics of the School of Public Health and Community Health-University of Washington		CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 14.7 0002	14.7 Studies of Surrounding Community	Report entitled "The Health Effects on the Surrounding Community From the Tacoma Copper Smelter"	9/22/75	68	Robert Cadwell		
AR 14.7 0002-1	14.7 Studies of Surrounding Community	Letter on behalf of Tacoma Medical Center Council and Vashon Island Consumer Group/Health effects research of industrial arsenic and cadmium emissions in Tacoma area	12/23/83	2	Nancy Coye/Tacoma Medical Center Council, John Blakemore/Vashon Island Consumer Group	Ed Radner/Group Health Cooperative of Puget Sound	
AR 14.7 0003	14.7 Studies of Surrounding Community	A Review and Analysis of Studies on the Health Effects of Community Arsenic Exposure	2/14/84	8	Andy Stergachis/Center for Health Studies-Group Health Cooperative		
AR 14.7 0004	14.7 Studies of Surrounding Community	Memorandum/Current research related to environmental arsenic exposure	2/15/84	1	Ed Wagner and Andy Stergachis/Center for Health Studies-Group Health Cooperative	Gail Warden and Turner Bledsoe	
AR 14.7 0005	14.7 Studies of Surrounding Community	Letter/Response regarding concerns about industrial pollution and related illness	3/21/84	3	Maryann Huhs/Group Health Cooperative	John Blakemore/Vashon Island Consumer Group	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 14.7 0006	14.7 Studies of Surrounding Community	Letter/Response regarding concerns about industrial pollution and related illness with attached memorandum regarding possible consumer meetings regarding environmental health issues	3/21/84	2	Maryann Huhs/Group Health Cooperative	Nancy Coye/Tacoma Medical Center Council	
AR 14.7 0007	14.7 Studies of Surrounding Community	Report regarding arsenic health effects	Unknown	28	Unknown		
AR 14.7 0008	14.7 Studies of Surrounding Community	Study entitled "Industrial Toxins and the Community (Arsenic Contamination Near A Copper Smelter)"	Unknown	9	Samuel Milham/DSHS		
14.8 Studies of the Human Peripheral Nervous System							
14.8.1 ASARCO Workers Study (OTS)							
AR 14.8.1 0001	14.8.1 ASARCO Workers Study	Memorandum/Trip report regarding arsenic epidemiology 8/5/75 meeting	8/22/75	5	James Everts/EPA	Files/EPA	
AR 14.8.1 0002	14.8.1 ASARCO Workers Study	Letter/Proposed study of association between arsenic exposure and nerve conduction deficits in ASARCO employees with attached memorandum regarding arsenic study-cost estimate for heavy metals assay	12/4//75	5	Donovan Thompson/University of Washington	Emanuel Landau	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 14.8.1 0003	14.8.1 ASARCO Workers Study	Letter/Study design and approval	4/2/76	1	James Everts/EPA	A.L. Labbe/ASARCO	
AR 14.8.1 0004	14.8.1 ASARCO Workers Study	Telephone conversation report/Nerve conduction study	3/12/76	1	James Everts/EPA	Doug Hansen/EPA	
AR 14.8.1 0005	14.8.1 ASARCO Workers Study	Letter/Proposed study review and recruitment of comparison group of non-ASARCO workers	4/23/76	2	Donovan Thompson/University of Washington	A.L. Labbe/ASARCO	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 14.8.1 0006	14.8.1 ASARCO Workers Study	Memorandum/Meeting on ASARCO nerve study with attached memorandum regarding behavioral effects of community exposure to arsenic by American Public Health Association	9/20/76	4	James Everts/EPA	Files/EPA	
AR 14.8.1 0007	14.8.1 ASARCO Workers Study	Letter/Problems for region involving assistance from OTS with attached memorandum and notes regarding current status of nerve study	9/23/76	5	Douglas Hansen/EPA	Donald Dubois/EPA	
AR 14.8.1 0008	14.8.1 ASARCO Workers Study	Letter/Health implications of reduced nerve conduction velocity and clinical neuropathies	9/23/76	1	Donovan Thompson/University of Washington	Jim Everts/EPA	
AR 14.8.1 0009	14.8.1 ASARCO Workers Study	Memorandum/Behavioral effects of community exposure to inorganic arsenic	Unknown	2	American Public Health Association (APHS)		
AR 14.8.1 0010	14.8.1 ASARCO Workers Study	Letter/Letter of comment and analysis regarding results of nerve conduction velocity studies	10/29/76	3	M.O. Varner/ASARCO	K.W. Nelson/ASARCO	
AR 14.8.1 0011	14.8.1 ASARCO Workers Study	Telephone conversation record/Meeting on arsenic and presentation regarding procedural aspects of nerve conduction velocity measurements and results	11/9/76	1	Bob Carton/OTS	Jim Everst/EPA	
AR 14.8.1 0012	14.8.1 ASARCO Workers Study	Memorandum/Summary of ASARCO worker nerve study with attached memorandum regarding control of arsenic from ASARCO	3/17/77	3	Joseph Seifter/EPA	Vincent DeCarlo	
AR 14.8.1 0013	14.8.1 ASARCO Workers Study	Addendum to attached preliminary ASARCO worker study report	5/23/77	57	OTS		
AR 14.8.1 0014	14.8.1 ASARCO Workers Study	Summary regarding nerve study	7/77	1	OTS		

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 14.8.1 0015	14.8.1 ASARCO Workers Study	Letter of comment/Paper entitled "Selected Non-Carcinogenic Effects of Industrial Exposure to Inorganic Arsenic"	8/8/77	2	K.W. Nelson/ASARCO	Emanuel Landau/APHS	
AR 14.8.1 0016	14.8.1 ASARCO Workers Study	Final Report/Epidemiology Studies Selected Non-Carcinogenic Effects of Industrial Exposure to Inorganic Arsenic	7/77	42	OTS-EPA		
AR 14.8.1 0017	14.8.1 ASARCO Workers Study	Transmittal letter/Article entitled "Peripheral Neuropathy in Arsenic Smelter Workers"	9/7/79	7	Sherman Pinto/ASARCO		
AR 14.8.1 0018	14.8.1 ASARCO Workers Study	Telephone conversation record/Release of preliminary data prior to contacting participants	Unknown	2	Jim Everts/EPA	Bob Carton/OTS-EPA	
	14.8.2 Proposed Study of Public (OTS)						
AR 14.8.2 0001	14.8.2 Proposed Study of the Public	Memorandum/Arsenic toxicological study	5/12/75	3	William Lappenbusch/EPA	Douglas Hansen/EPA	
AR 14.8.2 0002	14.8.2 Proposed Study of the Public	Memorandum/University of Washington meeting on OTS arsenic study	6/13/75	5	James Everts/EPA	Files/EPA	
AR 14.8.2 0003	14.8.2 Proposed Study of the Public	Memorandum/Telephone conversation with Edy Tompkins regarding OTS epidemiology study	6/18/75	1	James Everts/EPA	Files/EPA	
AR 14.8.2 0004	14.8.2 Proposed Study of the Public	Letter of comment/Proposed study of public	6/27/75	1	Richard Wade/SKCDH		
AR 14.8.2 0005	14.8.2 Proposed Study of the Public	Memorandum/Protocol of OTS arsenic epidemiology study	7/11/75	2	Douglas Hansen/EPA	Glenn Schweitzer/OTS-EPA	
AR 14.8.2 0006	14.8.2 Proposed Study of the Public	Letter/Reluctance to proceed with study	7/23/75	2	Donovan Thompson/University of Washington	Emanuel L Landau/APHS	
AR 14.8.2 0007	14.8.2 Proposed Study of the Public	Memorandum/Trip report on 9/30/75 meeting in Washington D.C.	10/15/75	4	James Everts/EPA	Files/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 14.8.2 0008	14.8.2 Proposed Study of the Public	Telephone conversation record/Basis for epidemiology studies	Unknown	2	James Everts/EPA	Edy Tompkins/NERC-EPA	
AR 14.8.2 0009	14.8.2 Proposed Study of the Public	Study entitled "A Community Study of the Effect of Arsenic on the Human Peripheral Nervous System"	Unknown	33	Unknown		
AR 14.8.2 0010	14.8.2 Proposed Study of the Public	Paper entitled "Behavioral Effects of Community Exposure to Inorganic Arsenic"	Unknown	3	Unknown		
	14.8.3 Ruston/Vashon Study (Commencement Bay Air Work Group)						
AR 14.8.3	14.8.3 Ruston/Vashon Study	Report entitled "Altered Mechanisms Due to Arsenic Leading to Peripheral Neuropathy"	1984	40	Leslie Steed/University of Washington		
14.9 Occupation/Industry Studies							
	14.9.1 Lee and Fraumeni Studies						
AR 14.9.1 0001	14.9.1 Lee and Fraumeni Studies	Article entitled "Arsenic and Respiratory Cancer in Man: An Occupational Study"	6/6/69	8	Anna Lee and Joseph Fraumeni/National Cancer Institute		
AR 14.9.1 0002	14.9.1 Lee and Fraumeni Studies	Article entitled "Arsenical Air Pollution and Lung Cancer"	7/26/75	3	William Blot and Joseph Fraumeni/National Cancer Institute		
14.9.2 Pinto/Enterline/ASARCO Studies							
AR 14.9.2 0001	14.9.2 Pinto/Enterline/ ASARCO Studies	Article entitled "Arsenic Trioxide Exposure in Industry"	7/53	7	Sherman Pinto and Charles McGill		
AR 14.9.2 0002	14.9.2 Pinto/Enterline/ ASARCO Studies	Article entitled "Effects of Arsenic Trioxide Exposure on Mortality"	1/16/62	9	Sherman Pinto and B.M. Bennett		

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 14.9.2 0003	14.9.2 Pinto/Enterline/ ASARCO Studies	List of critical materials discharged and breakdown of discharges at ASARCO with attached letter regarding analysis of Tacoma pensioner deaths from 1949-73 by Phil Enterline	1/31/73	8	A.L. Labbe/ASARCO		
AR 14.9.2 0004	14.9.2 Pinto/Enterline/ ASARCO Studies	Article entitled "Arsenic Toxicology and Industrial Exposure"	1976	6	Sherman Pinto and Kenneth Nelson/ASARCO		
AR 14.9.2 0005	14.9.2 Pinto/Enterline/ ASARCO Studies	Letter/Paper entitled "Mortality Experience in Relation to a Measured Trioxide Arsenic Exposure"	8/5/76	1	M.O. Varner/ASARCO	Sherman Pinto/ASARCO	
AR 14.9.2 0006	14.9.2 Pinto/Enterline/ ASARCO Studies	Letter/Difference between 1973 Tacoma arsenic exposure and prior years with attachments regarding paper entitled "Mortality Experience in Relation to a Measured Trioxide Arsenic Exposure", letters of comments and suggested substitute language for 4 paragraphs	9/8/76	9	Sherman Pinto/ASARCO	K.W. Nelson/ASARCO	
AR 14.9.2 0007	14.9.2 Pinto/Enterline/ ASARCO Studies	Article entitled "Arsenic Trioxide Absorption and Excretion in Industry"	10/76	4	Sherman Pinto, M.O. Varner, K.W. Nelson, A.L. Labbe, and Lowell White/ASARCO		
AR 14.9.2 0008	14.9.2 Pinto/Enterline/ ASARCO Studies	Letter/Sample analysis results for arsenic bearing dust	5/25/77	2	Donald Robbins/ASARCO	Sherman Pinto/ASARCO	
AR 14.9.2 0009	14.9.2 Pinto/Enterline/ ASARCO Studies	Article entitled "Medical Problems Associated with Arsenic Exposure"	6/6/77	6	C.H. Hine, S. Pinto, K.W. Nelson/ASARCO		
AR 14.9.2 0010	14.9.2 Pinto/Enterline/ ASARCO Studies	Article entitled "Mortality Experience of Arsenic-Exposed Workers"	11/78	7	Sherman Pinto/ASARCO, Vivian Henderson and Phillip Enterline/University of Pittsburgh		

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 14.9.2 0011	14.9.2 Pinto/Enterline/ ASARCO Studies	Letter/Oncology overview-selected abstracts on role of metals in carcinogenesis	4/25/79	3	M.O. Varner/ASARCO	Arthur Furst/SRI, International	
AR 14.9.2 0012	14.9.2 Pinto/Enterline/ ASARCO Studies	Letter of review and comment/Draft document (Pinto/Enterline study)	1/18/80	3	K.W. Nelson/ASARCO	Lars Friberg/Karolinska Institute, Sweden	
AR 14.9.2 0013	14.9.2 Pinto/Enterline/ ASARCO Studies	Progress report on study of ASARCO workers with attached tables regarding mortality data	1/20/80	7	Phillip Enterline/University of Pittsburgh		
AR 14.9.2 0014	14.9.2 Pinto/Enterline/ ASARCO Studies	Excerpt from "Biological Monitoring of Occupational Arsenic Exposures"	Unknown	2	K.W. Nelson and C.E. Dungey/ASARCO		
AR 14.9.2 0015	14.9.2 Pinto/Enterline/ ASARCO Studies	Cover letter and attachments/ Statistical comparison of white blood cell counts between the arsenic surveillance group and lead surveillance group	10/1/80	6	M.O. Varner/ASARCO	C.H. Hine/ASARCO	
AR 14.9.2 0016	14.9.2 Pinto/Enterline/ ASARCO Studies	Cover letter/Tables regarding airborne arsenic exposure at ASARCO plant	8/1/83	4	Stanley Cothrin/ASARCO	Phillip Enterline/University of Pittsburgh	
AR 14.9.2 0017	14.9.2 Pinto/Enterline/ ASARCO Studies	Letter/Chronic arsenic poisoning in tin-smelting industry	7/13/84	3	Charles Hine/ASARCO	Ong Aw Pheng/Butterworth Kelinik	
AR 14.9.2 0018	14.9.2 Pinto/Enterline/ ASARCO Studies	Report entitled "Exposure to Arsenic and Respiratory Cancer, A Re-Analysis"	Unknown	22	Phillip Enterline, Vivian Henderson, and Gary Marsh/Univeristy of Pittsburgh		
AR 14.9.2 0019	14.9.2 Pinto/Enterline/ ASARCO Studies	Report entitled "Mortality Among Workers Exposed to Arsenic and Other Substances in a Copper Smelter"	Unknown	19	Phillip Enterline and Gary Marsh/University of Pittsburgh		

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 14.9.2 0020	14.9.2 Pinto/Enterline/ ASARCO Studies	Lectures/Some Health Aspects of Arsenic in Industry	Unknown	7	Sherman Pinto and John Abersold/ASARCO		
AR 14.9.2 0021	14.9.2 Pinto/Enterline/ ASARCO Studies	Study entitled "Mortality Experience in Relation to Measured Arsenic Trioxide Exposure"	Unknown	13	Sherman Pinto and Michael Varner/ASARCO, Phillip Enterline and Vivian Henderson/University of Pittsburgh		
AR 14.9.2 0022	14.9.2 Pinto/Enterline/ ASARCO Studies	Letter/Sherman Pinto's studies regarding airborne lead and arsenic concentrations and urinary lead and arsenic excretion data	3/24/75	4	John Richardson/ASARCO	M.O. Varner/ASARCO	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 14.9.2 0023	14.9.2 Pinto/Enterline/ ASARCO Studies	Figures and map/Urinary arsenic levels for ASARCO workers, Ruston children, and controls	1972	7	Sherman Pinto and Bennett/ASARCO		
	14.9.3 National Institute for Occupational Safety and Health (NIOSH) Studies						
AR 14.9.3 0001	14.9.3 NIOSH Studies	Cover letter/Protocol of Dr. Fin's sister chromatid exchange study	10/18/82	7	Donald Robbins/ASARCO	C.E. Dungey/ASARCO	
AR 14.9.3 0002	14.9.3 NIOSH Studies	Study/Cancer Mortality Patterns Associated with Exposure to Metals	Unknown	4	Samuel Milham/DSHS		
AR 14.9.3 0003	14.9.3 NIOSH Studies	Report entitled "Occupational Mortality in Washington State 1950-71, Volume I"	4/76	114	Samuel Milham/University of Washington and DSHS	U.S. Department of Health, Education, and Welfare, CDC, National Institute for Occupational Safety and Health	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 14.9.3 0004	14.9.3 NIOSH Studies	Study entitled "Arsenic-State of the ART"	Unknown	19	Phillip Landrigan/National Institute for Occupational Safety and Health		
	14.10 Chemical Changes in Arsenic Following Ingestion by Man (Battelle)						
AR 14.10 0001	14.10 Chemical Changes in Arsenic Following Ingestion by Man	Letter/Paper entitled "Chemical Changes in Arsenic Following Ingestion by Man" presented by Eric Crecelius	10/7/75	12	Lowell White/ASARCO	M.O. Varner/ASARCO	
	14.11 Stack Fire (1981)						
AR 14.11 0001	14.11 Stack Fire (1981)	Letter/Particulate matter fallout from ASARCO with attached memorandum from TPCHD regarding sampling data	7/16/81	2	A.R. Dammkoehler/PSAPCA	Ray Nicola/TPCHD	
AR 14.11 0002	14.11 Stack Fire (1981)	Memorandum and attachments/Analysis of fallout sample obtained from roof of building adjacent to ASARCO	7/24/81	9	R.D. Franks/PSAPCA	PSAPCA	
AR 14.11 0003	14.11 Stack Fire (1981)	Letter of clarification and information/ASARCO stack fire	8/5/81	2	Douglas Pierce/TPCHD	City Editor/Tacoma News Tribune	
AR 14.11 0004	14.11 Stack Fire (1981)	Notes/Fire	7/1/81	1	Unknown		
	14.12 ATSDR Health Assessment						
AR 14.12 0001	14.12 ATSDR Health Assessment	Preliminary Health Assessment for American Smelting and Refining Company Tacoma, Pierce County, Washington	12/88	7	ATSDR		
AR 14.12 0002	14.12 ATSDR Health Assessment	Asarco Preliminary Health Assessment Addendum	10/4/89	6	Gregory D. Thomas/ATSDR	Phil Millam/EPA	

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SECTION 15.0 NATURAL RESOURCE TRUSTEES

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
	15.1 Correspondence						
AR 15.1 0001	15. 1 Correspondence	Letter of comment/External review draft documents regarding arsenic exposure	6/14/78	4	Larry Merierotto/U.S. Department of Interior	D.S. Barth/EPA	
AR 15.1 0002	15. 1 Correspondence	Letter/Intercalibration study of trace metals in Commencement Bay area with attached figures and tables regarding stations sampled during 1980-82	7/29/82	5	Anthony Paulson/National Oceanic and Atmospheric Administration (NOAA)	Rick Pierce/Washington Department of Ecology (WDOE)	
	15.2 Reports						
AR 15.2 0001	15.2 Reports	Results of EPA Extraction Procedure Toxicity Test Applied to Copper Reverberatory Slags	1982	20	Bureau of Mines/U.S. Department of Interior		
AR 15.2 0002	15.2 Reports	Significance of Metal-Binding Proteins and Lysosome-Like Vesicles in Mussels in a Metal-Contaminated Environment: An Experimental Field of Study	12/1/82	43	NOAA and G. Roesijadi/Battelle Northwest Laboratories	WDOE	

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SECTION 16.0 CONGRESSIONAL HEARINGS/INQUIRIES

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
	16.1 Correspondence						
AR 16.1 0001	16.1 Correspondence	Memorandum and attached letter from Administrator to Senator Muskie/EPA policy on enforcement of state implementation plans undergoing revisions	8/3/76	6	Stanley Legro/EPA	Enforcement Division Directors/EPA Regions I-X	
AR 16.1 0002	16.1 Correspondence	Letter/Designation of arsenic as hazardous substance under Section 112 of Clean Air Act with attached EPA letter in reply to points raised in previous letter	12/17/76	3	Ruth Weiner/Huxley College of Environmental Studies-Western Washington University	Lloyd Meeds/U.S. House of Representatives	
AR 16.1 0003	16.1 Correspondence	Letter/Air quality in north Tacoma area and impact on site suitability for housing projects	11/22/77	2	E.G. Moger/Department of Housing and Urban Development	Donald Dubois/EPA, Region X	
AR 16.1 0004	16.1 Correspondence	Letter of response/ASARCO smelter impact on health of community	1/10/78	5	Donald Dubois/EPA	Henry Jackson/U.S. Senate	
AR 16.1 0005	16.1 Correspondence	Letter of response/Citizen concern regarding ASARCO violations of Puget Sound Air Pollution Control Agency (PSAPCA) standards	2/20/79	4	Donald Dubois/EPA	Henry Jackson/U.S. Senate	
AR 16.1 0006	16.1 Correspondence	Letter of response/Citizen concern regarding arsenic emissions from ASARCO	10/17/79	6	Donald Dubois/EPA	Mark Hatfield/U.S. Senate	
AR 16.1 0007	16.1 Correspondence	Letter of response/Mrs. Vivian Hansen's letter regarding arsenic	10/17/79	2	Donald Dubois/EPA	Mark Hatfield/U.S. Senate	
AR 16.1 0008	16.1 Correspondence	Letter of response/Request for comments on enclosed letter from Gene Lobe/PSAPCA regarding air quality standards enforcement for ASARCO with attached Stipulation and Settlement Agreement	6/30/81	10	Larry Harlow/EPA	Norman Dicks/U.S. House of Representatives	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 16.1 0009	16.1 Correspondence	Letter and attachments/Request of Vashon-Maury Island Community Council for voluntary health screening program for local residents with attached notice regarding public workshops to explain EPA proposal to curtail emissions of arsenic, executive summary regarding NESHAPS for inorganic arsenic, and statement by William Ruckelshaus entitled "Science, Risk, and Public Policy"	8/15/83	46	Ernesta Barnes/EPA, Region X	Senate Slade Gorton/U.S. Senate	
AR 16.1 0010	16.1 Correspondence	Letter/Request of Vashon-Maury Island Council for voluntary health screening program for residents	8/15/83	2	Ernesta Barnes/EPA	Slade Gorton/U.S. Senate	
AR 16.1 0011	16.1 Correspondence	Letter of response/Citizen concern regarding toxic emissions from ASARCO	9/21/83	3	Joseph Cannon/EPA	Alan Cranston/U.S. Senate	
AR 16.1 0012	16.1 Correspondence	Cover letter/Criticism of arsenic emissions standard based upon best affordable technology	11/3/83	4	John McCain/U.S. House of Representatives	Leland Modesitt/EPA	
AR 16.1 0013	16.1 Correspondence	Letter/Constituent letter questioning EPA authority to utilize risk assessment methodology	11/8/83	1	Norman Dicks/U.S. House of Representatives	William Ruckelshaus/EPA	
AR 16.1 0014	16.1 Correspondence	Cover letter/Citizen criticism of arsenic standards based on "best affordable technology"	11/23/83	3	Barry Goldwater/U.S. Senate	Congressional liaison/EPA	
AR 16.1 0015	16.1 Correspondence	Letter of response/Arsenic emissions standards proposed by EPA	11/28/83	2	John O'Conner/OAQPS-EPA	John McCain/U.S. House of Representatives	
AR 16.1 0016	16.1 Correspondence	Letter of response/Concern over best available technology controls for arsenic emissions	12/8/83	2	John O'Conner/OAQPS-EPA	Norman Dicks/House of Representatives	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 16.1 0017	16.1 Correspondence	Letter of response/Concern over arsenic emissions standards proposed by EPA	12/16/83	2	John O'Conner/OAQPS-EPA	Barry Goldwater/U.S. Senate	
AR 16.1 0018	16.1 Correspondence	Letter/Constituent concern over pace at which Ruston/Vashon task is proceeding	12/23/83	2	Slade Gorton/U.S. Senate	Mary McColl Neilson/EPA, Region X	
AR 16.1 0019	16.1 Correspondence	Letter/Constituent concern over pace at which Ruston/Vashon task is proceeding and request for report on progress of task	1/6/84	1	Rod Chandler/U.S. House of Representatives	Ernesta Barnes/EPA	
AR 16.1 0020	16.1 Correspondence	Letter of reply/Concern over pace at which Ruston/Vashon task is proceeding	1/16/84	3	William Hedeman/EPA	Biff Fouke/Citizens Advisory Committee-Commencement Bay Superfund Project	
AR 16.1 0021	16.1 Correspondence	Letter/Funding of Ruston/Vashon task	1/20/84	2	Ernesta Barnes/EPA	Slade Gorton/U.S. Senate	
AR 16.1 0022	16.1 Correspondence	Letter/Press release regarding proposed arsenic emissions standards with attached list of addressees	11/14/84	6	Ernesta Barnes/EPA	Slade Gorton/U.S. Senate	
AR 16.1 0023	16.1 Correspondence	Letter/Closure of ASARCO and offer of assistance by state legislature	11/20/84	1	Ruth Fisher/House of Representatives-State of Washington	Ernesta Barnes/EPA	
AR 16.1 0024	16.1 Correspondence	Letter/Closure of ASARCO and offer of assistance by state legislature	11/20/84	1	Ruth Fisher/House of Representatives-State of Washington	Rick Pierce/Washington Department of Ecology (WDOE)	
AR 16.1 0025	16.1 Correspondence	Letter/EPA concerns regarding ASARCO closure	12/12/84	2	Ernesta Barnes/EPA	Art Wang/House of Representatives-State of Washington	
AR 16.1 0026	16.1 Correspondence	Letter/Summary of EPA concerns regarding ASARCO closure	12/12/84	2	Ernesta Barnes/EPA	Ruth Fisher/House of Representatives-State of Washington	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 16.1 0027	16.1 Correspondence	Letter of response/Potential arsenic from past operations at ASARCO with attached brochure entitled "University of Washington's Ruston/Vashon Arsenic Exposure Pathways Study"	7/3/85	4	Ernesta Barnes/EPA	Slade Gorton/U.S. Senate	
AR 16.1 0028	16.1 Correspondence	Letter/Request to EPA to address a constituent's inquiry (inquiry attached)	7/19/89	2	Brock Adams/U.S. Senate	EPA	
AR 16.1 0029	16.1 Correspondence	Response to 7/19/89 letter concerning the Asarco Superfund site	9/1/89	2	Robie G. Russell/EPA	Brock Adams/U.S. Senate	

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SECTION 17.0 PUBLIC PARTICIPATION - CERCLA

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
17.1 Comments and Responses							
17.1.1 Public Correspondence							
AR 17.1.1 0001	17.1.1 Public Correspondence	Letter/Bee monitoring studies	5/9/83	11	L. Edwin Coate/EPA, Region X	Susan Konecki, Patricia Howard, Kathryn Keller, Frank Jackson/Vashon-Maury Island Community Council, Thom Graham, and P.F. Thurber	
AR 17.1.1 0002	17.1.1 Public Correspondence	Letter/Implementation of urine and hair testing program with attached letter dated 5/17/83 from Vashon-Maury Island Community Council	6/14/83	6	L. Edwin Coate/EPA	Jean Snell and Frank Jackson/Vashon-Maury Island Community Council	
AR 17.1.1 0003	17.1.1 Public Correspondence	Letter/Request for Washington Department of Ecology (WDOE) to give high priority to identification and cleanup of arsenic and cadmium	6/15/83	2	Frank Jackson/Vashon-Maury Island Community Council	John Spencer/WDOE	
AR 17.1.1 0004	17.1.1 Public Correspondence	Memorandum/Phone call regarding complaint about pollutants near retirement home	6/30/83	1	Michael Watson/EPA	Files/EPA	
AR 17.1.1 0005	17.1.1 Public Correspondence	Memorandum/Phone call regarding ASARCO burying arsenic onsite in the 1940's	8/22/83	1	Wayne Grotheer/EPA, Region X	Files/EPA	
AR 17.1.1 0006	17.1.1 Public Correspondence	Letter/Results of arsenic and cadmium sampling done by Vashon-Maury Island Community Council	9/7/83	8	Kristine Wicklund/ Washington Department of Social and Health Services (DSHS)	Frank Jackson/Vashon-Maury Island Community Council	
AR 17.1.1 0007	17.1.1 Public Correspondence	Letter/Results of soil samples taken from Tacoma residence	10/3/83	2	Joe Geier	[Puget Sound] Air Pollution Control Agency (PSAPCA)	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 17.1.1 0008	17.1.1 Public Correspondence	Letter/Drinking water quality survey with attached news release	2/21/84	2	Ray Nicola/Tacoma-Pierce County Health Department (TPCHD) and Jesse Tapp/ Seattle-King County Health Department (SKCHD)	Public	
AR 17.1.1 0009	17.1.1 Public Correspondence	Memorandum/Phone call regarding people who have died from brain tumors	3/12/84	1	Jane/TPCHD	Doug Pierce/TPCHD	
AR 17.1.1 0010	17.1.1 Public Correspondence	Letter/Investigation of animal tissue contamination	5/3/84	3	James Krull/WDOE	Robert Sjulson	
AR 17.1.1 0011	17.1.1 Public Correspondence	Memorandum/Data from Douglas Frost on arsenic as an essential nutrient with attached letter dated 9/12/84 from Dr. Frost	11/7/84	2	Dana Davoli/EPA, Region X	Bob McGaughy/EPA	
AR 17.1.1 0012	17.1.1 Public Correspondence	Letter/Response to request for information regarding ASARCO to use in writing paper	5/22/85	1	Dana Davoli/EPA	Emily Taggart	
AR 17.1.1 0013	17.1.1 Public Correspondence	Letter/Arsenic poisoning	7/10/85	7	James Mullins	L. Edwin Coate/EPA	
AR 17.1.1 0014	17.1.1 Public Correspondence	Memorandum/Arsenic contamination in Palto Alto	1/10/86	1	Carol Thompson/EPA, Region X	Files/EPA	
AR 17.1.1 0015	17.1.1 Public Correspondence	Memorandum/Phone call with Shelley Stewart of Greenpeace regarding storm drain dumping ASARCO property into marina near Pt. Defiance	6/20/86	1	Dom Reale/WDOE	Files/WDOE	
AR 17.1.1 0016	17.1.1 Public Correspondence	Letter/ASARCO smelter demolition	8/26/86	1	James Mason, Attorney/Town of Ruston	EPA	
AR 17.1.1 0017	17.1.1 Public Correspondence	Letter/Transmittal of Administrative Order on Consent	10/6/86	1	Carol Thompson/EPA	Jim Puckett/Greenpeace	
AR 17.1.1 0018	17.1.1 Public Correspondence	Letter/Transmittal of Administrative Order on Consent	10/22/86	1	Carol Thompson/EPA	E. Hasse/Phelps Dodge Corporation	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 17.1.1 0019	17.1.1 Public Correspondence	Letter/Streets paved with ASARCO slag	1/11/87	1	Keith Rose/EPA, Region X	Arthur Beimborn	
AR 17.1.1 0020	17.1.1 Public Correspondence	Letter/Transmittal of Exposure Pathways Study	6/10/87	1	Carol Rushin (Thompson)/EPA	Kristine Benson/Alaska Center for the Environment	
AR 17.1.1 0021	17.1.1 Public Correspondence	Letter/Streets paved with ASARCO slag	7/12/87	3	Arthur Beimborn	Environmental Services	
AR 17.1.1 0022	17.1.1 Public Correspondence	Letter/Information on arsenic and cancer	8/19/87	3	Douglas V. Frost/Schenectady, NY	Drs. Phil Taylor & C. National Cancer Institute	
AR 17.1.1 0023	17.1.1 Public Correspondence	Note & Newspaper Clipping/Newspaper clipping and note concerning the lack of a link between arsenic and cancer	3/2/88	1	D. V. Frost/Schenectady, NY	-	
AR 17.1.1 0024	17.1.1 Public Correspondence	Notes & Newspaper Clippings/Newspaper clippings and various notes on arsenic and cancer	12/4/78	2	Douglas V. Frost/Schenectady, NY	Keith Rose/EPA	
AR 17.1.1 0025	17.1.1 Public Correspondence	Letter/Clarification of items reported in newspaper article	7/6/89	2	Keith Rose/EPA	John D. Komen/Morning News Tribune	
AR 17.1.1 0026	17.1.1 Public Correspondence	Letter/Comments on EPA activities in area surrounding the Asarco Smelter	8/24/89	1	Long Time Ruston Resident	EPA	
AR 17.1.1 0027	17.1.1 Public Correspondence	Letter/Request for extension of public comment period	9/1/89	1	Phil Carpenter/City of Tacoma	Keith Rose, Janet O'Hara/EPA	
AR 17.1.1 0028	17.1.1 Public Correspondence	Letter responding to telephone call concerning Asarco	7/27/90	1	Marian L. Abbett/WDOE	Charles Roe	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 17.1.1 0029	17.1.1 Public Correspondence	Letter commenting on public meeting	8/22/90	5	Thomas L. Aldrich/Asarco	Charles E. Findley/EPA	
		17.1.2 Final Exposure Pathways Study - Draft					
AR 17.1.2 0001	17.1.2 Exposure Pathways Study - Draft	Request for review and comment on draft study design	3/19/84	2	J.D. Krull/WDOE	Larry Lindquist/ASARCO	
AR 17.1.2 0002	17.1.2 Exposure Pathways Study - Draft	ASARCO comments on proposed draft study	4/10/84	6	C.E. Dungey/ASARCO	Kim Lowry/University of Washington	
AR 17.1.2 0003	17.1.2 Exposure Pathways Study - Draft	Transmittal letter/Proposed final draft study	4/16/84	1	Kim Lowry/University of Washington	Don Robbins/ASARCO	
AR 17.1.2 0004	17.1.2 Exposure Pathways Study - Draft	Comments on draft final study design	4/17/84	3	J. D. Krull/WDOE	Lincoln Polissar/ University of Washington	
AR 17.1.2 0005	17.1.2 Exposure Pathways Study - Draft	Review of draft study with attached memorandum with additional comments	5/30/84	4	Karen Hammerstrom/EPA	Tom Muir/EPA	
AR 17.1.2 0006	17.1.2 Exposure Pathways Study - Draft	University of Washington responses to ASARCO comments on draft study	8/3/84	18	Lincoln Polissar/University of Washington	Curt Dungey/ASARCO	
		17.1.3 Expedited Response Action (ERA) - Draft					
AR 17.1.3 0001	17.1.3 ERA - Draft	ASARCO comments regarding proposed ERA	5/27/88	34	Michael Thorp and Charles Douthwaite/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	ASARCO and EPA	
AR 17.1.3 0002	17.1.3 ERA - Draft	Letter/Concerning arsenic in Ruton soils	10/9/88	2	Douglas V. Frost/Schenectady, NY	Keith Rose/EPA	
AR 17.1.3 0003	17.1.3 ERA - Draft	Letter/Objection to proposed reduction on public exposure to arsenic contamination	10/19/88	1	Cora A. Tolstrup/Tacoma, Washington	Keith Rose/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 17.1.3 0004	17.1.3 ERA - Draft	Letters & Comments/Mayor's and Council's comments on the Administrative Order on Consent for Ruston ERA	10/24/88	6	Loretta Prettyman/Town of Ruston	Carol Rushin/EPA	
AR 17.1.3 0005	17.1.3 ERA - Draft	Handwritten Letter/Regarding contamination and treatment of Ruston soil	10/28/88	1	Winnifred G. Parker/Ruston, Washington	EPA	
AR 17.1.3 0006	17.1.3 ERA - Draft	Handwritten Letter/Regarding paving of Ruston area and adding businesses as a solution to the arsenic problem	11/2/88	2	Louise Batchelor/Tacoma, Washington	Keith Rose/EPA	
AR 17.1.3 0007	17.1.3 ERA - Draft	Cover Letter & Town Ordinance/Copy of Ordinance #826 prohibiting waste disposal sites	11/9/88	2	Loretta Prettyman/Town of Ruston	Carol Rushin/EPA	
AR 17.1.3 0008	17.1.3 ERA - Draft	Response/Proposed Ruston ERA - Summary of public comments and EPA's response	12/16/88	5	EPA	-	
AR 17.1.3 0009	17.1.3 ERA - Draft	Letter/Request that fencing be placed around vacant land recently cleaned and recovered	11/3/88	2	John L. Wheelock	Kim Coble/MSPH	
AR 17.1.3 0010	17.1.3 EPA - Draft	Letter/Response to Town's concerns about the Ruston ERA Consent Order	12/5/88	5	Carol Rushin/EPA	Robert Pudlo/Town of Ruston	
AR 17.1.3 0011	17.1.3 EPA - Draft	Letter/Further concerns regarding the Consent Order for Ruston ERA	12/27/88	2	Robert M. Pudlo/Town of Ruston	Carol Rushin/EPA	
		17.1.4 Community Interview Summaries					
AR 17.1.4 0001	17.1.4 Community Interview Summaries	Memo/Community concerns regarding ASARCO/Ruston Projects	8/10/89	3	Michelle Pirzadeh/EPA	ASARCO/Ruston Superfund Site Management Team	
17.2 Notices of Availability of Information/Meetings							
AR 17.2 0001	17.2 Notices of Availability of	Meeting regarding results and details of Exposure Pathways Study	11/6/86	3	Perrin Kaplan and Clare Ryan/WDOE	General Public	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
	Information/Meetings						
AR 17.2 0002	17.2 Notices of Availability of Information/ Meetings	Meeting regarding Site Stabilization and Remedial Investigation/Feasibility Study (RI/FS)	11/23/87	1	Cynthia Wanless/TPCHD	Jerry Portele/Tetra Tech, Inc., Inc.	
AR 17.2 0003	17.2 Notices of Availability of Information/ Meetings	Results of Urinary Arsenic Survey	Unknown	1	Epidemiology-DSHS	General Public	
AR 17.2 0004	17.2 Notices of Availability of Information/ Meetings	Opportunities for public comment on Commencement Bay and ASARCO	Unknown	1	Tim Brincefield/EPA, Region X	General Public	
AR 17.2 0005	17.2 Notices of Availability of information/ Meetings	Reminder that EPA is interested in forming a community workgroup	Unknown	1	Michelle Pirzadeh/EPA	General Public	
AR 17.2 0006	17.2 Notices of Availability of Information /Meetings	Public Voucher for advertising for ad announcing public comment period on Proposed Plan	7/16/90	5	EPA		
AR 17.2 0007	17.2 Notices of Availability of Information /Meetings	Ad which appeared in the Morning News Tribune announcing public comment period on the Proposed Plan	Unknown	1	Morning News Tribune		

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 17.2 0008	17.2 Notices of Availability of Information /Meetings	Public Voucher for Advertising for ad reminding the public of meeting on Proposed Plan	8/2/90	4	EPA		
	17.3 Community Relations Plans						
		17.3.1 Exposure Pathways Study					
AR 17.3.1 0001	17.3.1 Exposure Pathways Study	Memorandum/Acceptance of proposed management structure for public relations	4/20/84	6	John Spencer/WDOE	John Beare/DSHS	
AR 17.3.1 0002	17.3.1 Exposure Pathways Study	Memorandum/Public health issues and guidelines for writing report	4/23/86	2	Kim Lowry/University of Washington	Lincoln Polissar/ University of Washington	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 17.3.1 0003	17.3.1 Exposure Pathways Study	Commencement Bay Nearshore/Tideflats CRP (Appendix C to Commencement Bay Nearshore/Tideflats Cooperative Agreement)	Unknown	10	WDOE	EPA and TPCHD	
	17.3.2 Community Relations Plan						
AR 17.3.2 0001	17.3.2 Community Relations Plan	Clarification regarding ASARCO responsibility under CRP with attached copy of RI/FS work plan and letter from TPCHD attorney to Michael Thorp regarding hold harmless clause	12/5/86	7	Michael Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	Carol Thompson/EPA	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 17.3.2 0002	17.3.2 Community Relations Plan	Confirmation of services to be provided by TPCHD for CRP	12/19/86	4	Alfred Allen/TPCHD	Carol Thompson/EPA	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 17.3.2 0003	17.3.2 Community Relations Plan	Community Relations Plan for Commencement Bay - Nearshore/ Tideflats and Commencement Bay - South Tacoma Channel Superfund Sites	9/89	51	EPA		
	17.4 Documentation of Public Meetings						
AR 17.4 0001	17.4 Documentation of Public Meetings	Agenda/Meeting on 3/27/84 regarding Superfund activities in Ruston with attached boundaries study and contour maps	3/27/84	8	WDOE	General Public	
AR 17.4 0002	17.4 Documentation of Public Meetings	Minutes/Meeting on 1/28/86 regarding use of slag in Tacoma	1/28/86	4	Unknown/CHART	General Public	
AR 17.4 0003	17.4 Documentation of Public Meetings	Announcement/Exposure Pathways Study 11/6/86 meeting	11/6/86	1	Perrin Kaplan and Clare Ryan/WDOE	General Public	
AR 17.4 0004	17.4 Documentation of Public Meetings	Notes/Exposure Pathways Study 11/6/86 meeting	11/6/86	2	Unknown	Unknown	
AR 17.4 0005	17.4 Documentation of Public Meetings	Proceedings/Transcript of Superfund Project public meeting, 9/29/88	9/29/88	99	Corri L. Rene/Notary Public	-	
AR 17.4 0006	17.4 Documentation of Public Meetings	Public Meeting Agenda - EPA's Proposal for Interim Measures at the Asarco Tacoma Smelter Superfund Project	8/16/90	10	EPA	General Public	
AR 17.4 0007	17.4. Documentation of Public Meetings	Transcripts on Public Comment Meeting on the Proposed Plan for Interim Measures at the Asarco Tacoma Smelter Superfund Site	8/16/90	86	Kent D. Hobbs/Bayside Reporters		
	17.5 Fact Sheets and Press Releases						
AR 17.5 0001	17.5 Fact Sheets and Press Releases	Press Release/Completed urinary arsenic survey of schoolchildren	9/7/83	3	Stephen Kelso/DSHS	General Public	
AR 17.5 0002	17.5 Fact Sheets and Press Releases	News letter/Status of Exposure Pathways Study	1/26/84	4	Lincoln Polissar/University of Washington	General Public	

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02H1

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 17.5 0003	17.5 Fact Sheets and Press Releases	Press Release/Funding and start of Exposure Pathways Study	10/1/84	2	Jim Krull/WDOE	General Public	
AR 17.5 0004	17.5 Fact Sheets and Press Releases	Fact Sheet/Administrative Order on Consent between EPA and ASARCO	9/86	2	Carol Thompson/EPA	General Public	
AR 17.5 0005	17.5 Fact Sheets and Press Releases	Press Release/EPA and ASARCO agreement on terms to begin smelter demolition	9/11/86	2	Carol Thompson/EPA	General Public	
AR 17.5 0006	17.5 Fact Sheets and Press Releases	Fact Sheet/Explanation of Exposure Pathways Study	11/86	4	Clare Ryan/WDOE and Doug Pierce/TPCHD	General Public	
AR 17.5 0007	17.5 Fact Sheets and Press Releases	Press Release/Invitation to view startup of wood waste incinerator	11/9/87	1	Carol Rushin/EPA	General Public	
AR 17.5 0008	17.5 Fact Sheets and Press Releases	Fact Sheets/Miscellaneous studies of north Tacoma area	3/1/88	7	Doug Pierce/TPCHD and Dave Bradley/WDOE	General Public	
AR 17.5 0009	17.5 Fact Sheets and Press Releases	Fact Sheet/Soil sampling survey in north Tacoma	3/4/88	1	TPCHD	General Public	
AR 17.5 0010	17.5 Fact Sheets and Press Releases	Fact Sheet/Exposure Pathways Study information sheet	Unknown	2	TPCHD	General Public	
AR 17.5 0011	17.5 Fact Sheets and Press Releases	Fact Sheet/Site Stabilization and Remedial Investigation	12/30/87	1	Doug Pierce/TPCHD and Keith Rose/EPA	General Public	
AR 17.5 0012	17.5 Fact Sheets and Press Releases	Letter/Cover letter for EPA Fact Sheet requesting public comments	9/22/88	1	Allan Bakalian/EPA	Michael R. Thorpe/Eisenhower, Carlson, Newlands, Reha, Henriott and Quinn	
AR 17.5 0013	17.5 Fact Sheets and Press Releases	Fact Sheet/EPA is seeking public comments on proposals to reduce public exposure to arsenic contamination	9/20/88	2	EPA	General Public	

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02H2

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 17.5 0014	17.5 Fact Sheets and Press Releases	Fact Sheet/EPA request public comment on a proposed legal agreement with ASARCO	9/29/88	4	EPA	General Public	
AR 17.5 0015	17.5 Fact Sheets and Press Releases	Fact Sheet/Extension of public comment period on studies of arsenic contamination in Ruston and North Tacoma soils	10/24/88	3	EPA	General Public	
AR 17.5 0016	17.5 Fact Sheets and Press Releases	Fact Sheet/ASARCO Superfund site proposed Ruston ERA Summary of Public Comments and EPA Responses Arsenic and its potential health effects	12/16/88	9	EPA	General Public	
AR 17.5 0017	17.5 Fact Sheets and Press Releases	Fact Sheet/Superfund project update - ASARCO Tacoma smelter project on-property and off-property	4/27/89	3	EPA	General Public	
AR 17.5 0018	17.5 Fact Sheets and Press Releases	Fact Sheet/ASARCO smelter property project, Tacoma, Washington (includes copy of Sammons & Conner summary fact sheet)	5/11/89	3	EPA	General Public	
AR 17.5 0019	17.5 Fact Sheets and Press Releases	Fact Sheet/EPA Requests ASARCO to conduct investigation	7/14/89	3	EPA	General Public	
AR 17.5 0020	17.5 Fact Sheets and Press Releases	Press Release/Asarco Inc. and Town of Ruston being urged to break impasse by EPA	8/18/89	2	EPA	General Public	
AR 17.5 0021	17.5 Fact Sheets and Press Releases	Fact Sheet/Commencement Bay Nearshore/Tideflats and South Tacoma Channel Superfund Sites	9/89	6	EPA	General Public	
AR 17.5 0022	17.5 Fact Sheets and Press Releases	Fact Sheet/Ruston North Tacoma Publicly Accessible Properties Ruston/North Tacoma, Washington	10/13/89	1	EPA	General Public	
AR 17.5 0023	17.5 Fact Sheets and Press Releases	Fact Sheet/Ruston/North Tacoma Study Area Tacoma, Washington	11/1/89	2	EPA	General Public	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 17.5 0024	17.5 Fact Sheets and Press Releases	Fact Sheet/Commencement Bay Superfund Sites Update	2/90	6	EPA	General Public	
AR 17.5 0025	17.5 Fact Sheets and Press Releases	Fact Sheet/Superfund Fact Sheet Ruston/North Tacoma Study Area	2/12/90	1	EPA	General Public	
AR 17.5 0026	17.5 Fact Sheets and Press Releases	Fact Sheet/Ruston/North Tacoma Study Area EPA Completes Final Workplan for Area Investigation	5/2/90	3	EPA	General Public	
AR 17.5 0027	17.5 Fact Sheets and Press Releases	Fact Sheet/Announcement of Draft RI/FS Documents Available for Public Comment	5/8/90	1	EPA	General Public	
AR 17.5 0028	17.5 Fact Sheets and Press Releases	Fact Sheet/Ruston/North Tacoma Study Area Tacoma, Washington Soil Sampling to Begin in Study Area	6/8/90	2	EPA	General Public	
AR 17.5 0029	17.5 Fact Sheets and Press Releases	Fact Sheet/Update of Hazardous Waste Cleanup Projects Tacoma, Washington	8/90	6	EPA	General Public	
AR 17.5 0030	17.5 Fact Sheets and Press Releases	Fact Sheet: Proposed Plan for Interim Measures	11/05/90	3	EPA		
AR 17.5 0031	17.5 Fact Sheets and Press Releases	Fact Sheet: updates Superfund activity in the Ruston/N. Tacoma study area, including the area-wide investigation, and the cleanup of 11 publicly accessible properties	11/5/90	2	EPA	General Public	

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AR 17.5 0032	17.5 Fact Sheets and Press Releases	Public Voucher for Advertising and copy of article submitted in the Morning News Tribune	1/15/91	4	EPA		
AR 17.5 0033	17.5 Fact Sheets and Press Releases	Superfund Project Update: Asarco Tacoma Smelter, Interim Cleanup Plan	1/14/91	3	EPA		

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
	17.6 Onsite Response Action Status Reports						
AR 17.6 0001	17.6 Onsite Response Action Status Reports	March Site Stabilization and Remedial Investigation Status Report	3/87	1	TPCHD	Richard White/EPA, Region X	
AR 17.6 0002	17.6 Onsite Response Action Status Reports	April Site Stabilization and Remedial Investigation Status Report	4/87	1	TPCHD	Carol Rushin/EPA	
AR 17.6 0003	17.6 Onsite Response Action Status Reports	May Site Stabilization and Remedial Investigation Status Report	5/87	1	TPCHD	Carol Rushin/EPA	
AR 17.6 0004	17.6 Onsite Response Action Status Reports	June Site Stabilization and Remedial Investigation Status Report	6/87	2	TPCHD	Carol Rushin/EPA	
AR 17.6 0005	17.6 Onsite Response Action Status Reports	Supplemental June Status Report for onsite wood waste incineration	6/87	3	TPCHD	Richard White/EPA	
AR 17.6 0006	17.6 Onsite Response Action Status Reports	July Site Stabilization and Remedial Investigation Status Report	7/29/87	6	TPCHD	Jerry Portele/Tetra Tech, Inc.	
AR 17.6 0007	17.6 Onsite Response Action Status Reports	August Site Stabilization and Remedial Investigation Status Report	8/29/87	2	TPCHD	Gerald Portele/Tetra Tech, Inc.	
AR 17.6 0008	17.6 Onsite Response Action Status Reports	September Site Stabilization and Remedial Investigation Status Report	9/87	2	TPCHD	Gerald Portele/Tetra Tech, Inc.	
AR 17.6 0009	17.6 Onsite Response Action Status Reports	October Site Stabilization and Remedial Investigation Status Report	10/87	2	TPCHD	Jerry Portele/Tetra Tech, Inc.	
AR 17.6 0010	17.6 Onsite Response Action Status Reports	November Site Stabilization and Remedial Investigation Status Report	11/87	2	TPCHD	Gerald Portele/Tetra Tech, Inc.	
AR 17.6 0011	17.6 Onsite Response Action Status Reports	December Site Stabilization and Remedial Investigation Status Report	12/87	2	TPCHD	Gerald Portele/Tetra Tech, Inc.	
	17.7 Offsite RI/FS Status Reports						
AR 17.7 0001	17.7 Offsite RI/FS Status Reports	Status Report/Ruston/North Tacoma Superfund Site	8/21/89	2	Janet O'Hara/EPA	Addressees	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
17.8	Community Workgroup						
	17.8.1 Correspondence						
AR 17.8.1 0001	17.8.1 Correspondence	Letter/Expression of thanks for showing interest in joining the community workgroup	8/22/89	8	Michelle Pirzadeh/EPA	Addressees	
AR 17.8.1 0002	17:8.1 Correspondence	Letter/Discussion of first meeting of the Ruston/North Tacoma Work Group	10/16/89	1	Janet B. O'Hara/EPA	Mayor Pudlo and Ruston Town Council/Town of Ruston	
17.9	Community Interviews						
	17.9.1 Correspondence						
AR 17.9.1 0001	17.9.1 Correspondence	A letter to Invite a meeting with EPA	3/1/91	1	Michelle Pirzadeh	unknown	
AR 17.9.1 0002	17.9.1 Correspondence	A form letter titled Ruston/North Tacoma Study Area Survey Interview	unknown	5	unknown	unknown	
AR 17.9.1 0003	17.9.1 Correspondence	A thank you for volunteering form letter	unknown	1	unknown	unknown	
AR 17.9.1 0004	17.9.1 Correspondence	Summary of EPA community interviews Ruston/North Tacoma Study Area	unknown	4	unknown	unknown	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
SECTION 18.0 PUBLIC PARTICIPATION - NON-CERCLA							
AR 18.1.1 0001	18.1.1 Public Correspondence	Points of clarification to legal notice run in Tacoma News Tribune	4/24/70	33	Eugene Asselstine and James Behlke/Washington Department of Ecology (WDOE)	Please see document	
AR 18.1.1 0002	18.1.1 Public Correspondence	Response to parent concern about arsenic testing with attached abstract of study entitled"Arsenic exposure Near a Copper Smelter"	1/15/73	8	Orvis Harrelson/Tacoma Public Schools	Ruston Parents	
AR 18.1.1 0003	18.1.1 Public Correspondence	Publications to help determine acceptable methods for soil sampling, dating, and analysis	8/11/75	2	James Everts/EPA, Region X	Genevieve Matanoski/ Johns Hopkins School of Hygiene	
AR 18.1.1 0004	18.1.1 Public Correspondence	Letter/Arsine in air around ASARCO	9/4/75	1	Sherman Pinto/ASARCO	K.W. Nelson/ASARCO	
AR 18.1.1 0005	18.1.1 Public Correspondence	Letter/EPA response to 4/15/77 letter regarding arsenic regulations	6/7/77	2	Barbara Blum/EPA	Janet Chalupnik/Air Coalition Group	
AR 18.1.1 0006	18.1.1 Public Correspondence	Letter/Information regarding pollutants emitted by ASARCO	10/25/78	2	Mark Hooper/EPA, Region X	Marjorie Grove	
AR 18.1.1 0007	18.1.1 Public Correspondence	Kurtis Mayer letter regarding analytical results for cadmium and arsenic	11/29/78	3	A. Labbe/ASARCO	M. Varner/ASARCO	
AR 18.1.1 0008	18.1.1 Public Correspondence	Notice of solid waste spill	2/4/81	3	Joan McNamee/EPA	Files/EPA	
AR 18.1.1 0009	18.1.1 Public Correspondence	Arsenic as an anticancer agent and essential nutrient	2/27/81	4	Douglas Frost/New York	William Roe/ASARCO	
AR 18.1.1 0010	18.1.1 Public Correspondence	Acknowledgement of receipt of statement opposing air, water, and land pollution by ASARCO	5/12/81	1	Clark Gaulding/EPA, Region X	Residents of Vashon-Maury Island	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 18.1.1 0011	18.1.1 Public Correspondence	Statements made by ASARCO scientists regarding arsenic as human carcinogen	10/26/81	2	Philip Landrigan/Centers for Disease Control (CDC)	Gene Lobe/Puget Sound Air Pollution Control Agency (PSAPCA)	
AR 18.1.1 0012	18.1.1 Public Correspondence	Interest of U.S. General Accounting Office in ASARCO use of slag for sandblasting at Puget Sound Naval Shipyard	4/13/83	1	Norm Glenn/WDOE	Files/WDOE	
AR 18.1.1 0013	18.1.1 Public Correspondence	Memorandum/Phone call from concerned citizen regarding arsenic rule-making	8/19/83	1	Clark Gaulding/EPA	Docket/EPA	
AR 18.1.1 0014	18.1.1 Public Correspondence	Use of Section 321 of Clean Air Act against ASARCO	11/2/83	4	Susan Macrae/Sierra Club	Mark Hooper/EPA	
AR 18.1.1 0015	18.1.1 Public Correspondence	Letter/Smelter slag disposing procedures	10/20/83	2	Mark Hooper/EPA	Jay Becker/Beachcomber Press, Inc.	
AR 18.1.1 0016	18.1.1 Public Correspondence	Letter/Proposed regulations to control arsenic air emissions	10/31/83	4	Clark Gaulding/EPA	(b) (6) /Friends of the Earth	
AR 18.1.1 0017	18.1.1 Public Correspondence	Letter/Acid rain due to ASARCO Smelter	11/28/83	4	Ernesta Barnes/EPA, Region X	(b) (6) /Citizen	
AR 18.1.1 0018	18.1.1 Public Correspondence	Letter/Letter to President Reagan regarding ASARCO	1/9/84	5	Alexandra Smith/EPA, Region X	(b) (6) /Citizen	
AR 18.1.1 0019	18.1.1 Public Correspondence	Transmittal of reports regarding modeling efforts for ASARCO Smelter	12/28/83	3	Robert Ajax/EPA	John Newlands/ Eisenhower, Carlson, Newlands, Reha, Henriot & Quinn	
AR 18.1.1 0020	18.1.1 Public Correspondence	Letter/Clarification of actions taken by EPA to reduce arsenic emissions	12/27/83	3	Dana Davoli/EPA	(b) (6) /Citizen	
AR 18.1.1 0021	18.1.1 Public Correspondence	Comments on proposed arsenic rule-making	2/3/84	9	Alexandra Smith/EPA	Dave Bateman, Ross Schlueten, Floyd Frost, Thomas Douglas and Alf Anderson/Citizens	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 18.1.1 0022	18.1.1 Public Correspondence	Comments on ambient model for ASARCO	2/13/84	1	Robert Ajax/EPA	Files/EPA	
AR 18.1.1 0023	18.1.1 Public Correspondence	Clarification of ASARCO 1/31/84 comments on EPA 12/9/83 Federal Register Notice	3/6/84	2	Glenn Whaley/EPA	Files/EPA	
AR 18.1.1 0024	18.1.1 Public Correspondence	Clarification of ASARCO 12/9/83 comments on proposed standard	3/6/84	2	Jan Meyer/EPA	Files/EPA	
		18.1.2 PSAPCA Arsenic Standard - Proposed					
AR 18.1.2 0001	18.1.2 PSAPCA Arsenic Standard - Proposed	Report on PSAPCA 2/14/73 hearing on proposed standard with attached statement by Ted Loomes and Memorandum of Understanding	2/16/73	14	C. John Newlands/Eisenhower, Carlson, Newlands, Reha, Henriot, & Quinn	R.J. Muth/ASARCO	
AR 18.1.2 0002	18.1.2 PSAPCA Arsenic Standard - Proposed	Statement by Samuel Milham regarding studies done in Ruston area	Unknown	3	Samuel Milham/DSHS	PSAPCA	
		18.1.3 Continued Operation of the Tacoma Smelter					
AR 18.1.3 0001	18.1.3 Continued Operation of the Tacoma Smelter	Statement of Fact in support of continued operation of ASARCO	9/5/75	25	K.W. Nelson/ASARCO	Clifford Smith/EPA, Region X	
		18.1.4 State Implementation Plan (SIP) Regarding Proposed Revision					
AR 18.1.4 0001	18.1.4 SIP Regarding Proposed Revision	Proposed revisions of SIP with attached letter from PSAPCA to EPA regarding proposed revision	2/28/77	7	Armand Labbe/ASARCO	Donald Dubois/EPA, Region X	
		18.1.5 Environmental Impact Statement (EIS) Regarding 1976 Variance - Draft					
AR 18.1.5 0001	18.1.5 EIS Regarding 1976 Variance - Draft	Potential paths which trace metals from smelter can enter surface waters	4/21/81	4	Donald Robbins/ASARCO	PSAPCA	
AR 18.1.5 0002	18.1.5 EIS Regarding 1976 Variance - Draft	Comments and responses to comments on draft EIS	9/31/81	479	PSAPCA	General Public	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 18.1.5 0003	18.1.5 EIS Regarding 1976 Variance - Draft	Response to questions raised concerning emissions from ASARCO	3/22/82	4	M.O. Varner/ASARCO	L.W. Lindquist/ASARCO	
		18.1.6 Environmental Impact Statement (EIS) Regarding NESHAPS					
AR 18.1.6 0001	18.1.6 EIS Regarding NESHAPS	Comments on Draft EIS	8/14/78	5	James Henderson/ASARCO	Don Goodwin/EPA	
		18.1.7 Health, Risk Assessment, and Risk Management - Inorganic Arsenic NESHAPS					
AR 18.1.7 0001	18.1.7 Health, Risk Assessment, and Risk Management - Inorganic Arsenic NESHAPS	Response to EPA call for information and data on arsenic contained in Federal Register 42:56786	12/30/77	67	M.O. Varner/ASARCO	Joseph Padgett/EPA	
AR 18.1.7 0002	18.1.7 Health, Risk Assessment, and Risk Management - Inorganic Arsenic NESHAPS	Comments regarding 3 EPA published documents relating to possible classification of arsenic as hazardous air pollutant with attached sampling data and reports	6/15/78	105	Rodwell Watson/ASARCO	Joseph Padgett/EPA	
AR 18.1.7 0003	18.1.7 Health, Risk Assessment, and Risk Management - Inorganic Arsenic NESHAPS	Science Advisory Board report on arsenic as possible air pollutant	4/23/79	35	Please see document	Stephen Gage, David Hawkins, and Todd Joseph/EPA	
AR 18.1.7 0004	18.1.7 Health, Risk Assessment, and Risk Management - Inorganic Arsenic NESHAPS	Proposed ambient air standard based on lung cancer occurrence in Tacoma area as predicated by computer model	1/30/84	17	Floyd Frost/DSHS	William Ruckelshaus/EPA	
AR 18.1.7 0005	18.1.7 Health, Risk Assessment, and Risk Management - Inorganic Arsenic NESHAPS	Report entitled "Inorganic Arsenic NESHAPS: Response to Public Comments on Health, Risk Assessment, and Risk Management"	4/85	219	EPA	General Public	
		18.1.8 NESHAPS Arsenic Standard - Proposed					
AR 18.1.8 0001	18.1.8 NESHAPS Arsenic Standard - Proposed	ASARCO regulatory concerns	5/6/83	2	Janet Chalupnik/American Lung Association of Washington (ALAW)	Kathleen Bennett/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 18.1.8 0002	18.1.8 NESHAPS Arsenic Standard - Proposed	Responses to questions and comments from 5/6/83 letter	6/22/83	2	Charles Elkins/EPA	Janet Chalupnik/ALAW	
AR 18.1.8 0003	18.1.8 NESHAPS Arsenic Standard - Proposed	Tacoma News Tribune arsenic poll responses	7/25/83	2	Bob Jacobson/EPA	Mark Hooper/EPA	
AR 18.1.8 0004	18.1.8 NESHAPS Arsenic Standard - Proposed	Testimony on proposed arsenic standard	11/17/83	7	Laurie Lehman/Vashon Island resident	Ernesta Barnes/EPA	
AR 18.1.8 0005	18.1.8 NESHAPS Arsenic Standard - Proposed	Comments on proposed NESHAPS for inorganic arsenic-Volume I	12/9/83	285	ASARCO	EPA	
AR 18.1.8 0006	18.1.8 NESHAPS Arsenic Standard - Proposed	Comments on proposed NESHAPS for inorganic arsenic-Volume II	12/9/83	221	ASARCO	EPA	
AR 18.1.8 0007	18.1.8 NESHAPS Arsenic Standard - Proposed	Comments on proposed NESHAPS for inorganic arsenic-Volume III	12/9/83	429	ASARCO	EPA	
AR 18.1.8 0008	18.1.8 NESHAPS Arsenic Standard - Proposed	Response to comments on proposed standards	1/4/84	10	Robert Ajax/EPA	Please see document	
AR 18.1.8 0009	18.1.8 NESHAPS Arsenic Standard - Proposed	Response to comments on proposed standards	1/5/84	6	Robert Ajax/EPA	Please see document	
AR 18.1.8 0010	18.1.8 NESHAPS Arsenic Standard - Proposed	Response to 11/18/83 information request	1/16/84	1	Robert Ajax/EPA	L.W. Lindquist/ASARCO	
AR 18.1.8 0011	18.1.8 NESHAPS Arsenic Standard - Proposed	Comments on proposed standard	1/30/84	8	John Roberts/Engineering Plus, Inc.	Docket/EPA	
AR 18.1.8 0012	18.1.8 NESHAPS Arsenic Standard - Proposed	Comments on proposed standards	1/31/84	16	Lawrence Lindquist/ASARCO	Docket/EPA	
AR 18.1.8 0013	18.1.8 NESHAPS Arsenic Standard - Proposed	Submittal of letter from Office of Management and Budget to Docket	1/31/84	30	Lawrence Lindquist/ASARCO	Docket/EPA	
AR 18.1.8 0014	18.1.8 NESHAPS Arsenic Standard - Proposed	Air and water pollution report on proposed standard	2/13/84	1	Natural Resources Defence Council (NRDC)	General Public	
AR 18.1.8 0015	18.1.8 NESHAPS Arsenic Standard - Proposed	Response to comments on proposed standards	2/21/84	15	Robert Ajax/EPA	Please see document	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 18.1.8 0016	18.1.8 NESHAPS Arsenic Standard - Proposed	Comments on proposed standards	3/6/84	58	Michael Wright/USWA	Docket/EPA	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 18.1.8 0017	18.1.8 NESHAPS Arsenic Standard - Proposed	Response to request for information on Tacoma, El Paso, and Hayden smelters	3/15/84	122	M.O. Varner/ASARCO	Jack Farmer/EPA	
AR 18.1.8 0018	18.1.8 NESHAPS Arsenic Standard - Proposed	Comments on proposed standard	3/26/84	3	Arthur Dammkoehler/PSAPCA	Robert Ajax/EPA	
AR 18.1.8 0019	18.1.8 NESHAPS Arsenic Standard - Proposed	Comments on final standard	6/27/84	218	EPA	Files/EPA	
AR 18.1.8 0020	18.1.8 NESHAPS Arsenic Standard - Proposed	Health impacts from exposure to arsenic, cadmium, lead, and sulfur dioxide	Unknown	15	Unknown	Unknown	
		18.1.9 Analysis of ASARCO Compliance with PSAPCA Resolutions 501, 502, and 503					
AR 18.1.9 0001	18.1.9 Analysis of ASARCO Compliance with PSAPCA Resolutions 501, 502, and 503	Submittal of analysis of ASARCO compliance with PSAPCA Regulation I	1/27/84	13	Ruth Weiner and Michael Gendler/Western Washington University	William Ruckleshaus/EPA	
		18.1.10 Control Costs on Arsenic Emission Estimates					
AR 18.1.10 0001	18.1.10 Control Costs on Arsenic Emission Estimates	Revised cost and emission estimates for low-arsenic smelters	8/31/84	63	PES Low-Arsenic Project Team/EPA	Linda Chaput/EPA	
		18.1.11 A Profile of the Tacoma Smelter					
AR 18.1.11 0001	18.1.11 A Profile of the Tacoma Smelter	Profile of Tacoma Smelter	Unknown	5	ASARCO	General Public	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
		18.1.12 Closure of Smelter/Assurance of Discontinuance					

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 18.1.12 0001	18.1.12 Closure of Smelter/Assurance of Discontinuance	Statement/PSAPCA Resolution No. 564 accepting assurance of discontinuance	9/13/84	3	Ruth Weiner/Sierra Club	General Public	
	18.2 Notices of Availability of Information/Notices of Meetings						
AR 18.2 0001	18.2 Notices of Availability of Information/Notices of Meetings	Meeting on proposed amendments to PSAPCA Regulation I with attached proposed resolution	1/15/73	3	PSAPCA	General Public	
AR 18.2 0002	18.2 Notices of Availability of Information/Notices of Meetings	Meeting on environmental concerns and ASARCO	6/6/75	2	Clifford Smith/EPA	General Public	
AR 18.2 0003	18.2 Notices of Availability of Information/Notices of Meetings	Availability of documents assessing the public health consequences of arsenic exposure	4/28/78	1	EPA	General Public	
AR 18.2 0004	18.2 Notices of Availability of Information/Notices of Meetings	Meeting on Science Advisory Board study group on arsenic as hazardous air pollutant	5/4/78	1	Richard Dowd/EPA	General Public	
AR 18.2 0005	18.2 Notices of Availability of Information/Notices of Meetings	Hearing on ASARCO application for Variance No. 215	4/12/79	1	PSAPCA	General Public	
AR 18.2 0006	18.2 Notices of Availability of Information/Notices of Meetings	Meeting to review draft preamble and background information document for national emission standards	2/20/81	2	Don Goodwin/EPA	Kenneth Nelson/ASARCO	
AR 18.2 0007	18.2 Notices of Availability of Information/Notices of Meetings	Receipt of ASARCO application to place riprap and fill in Commencement Bay	3/12/81	4	Corps of Engineers	General Public	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 18.2 0008	18.2 Notices of Availability of Information/Notices of Meetings	Solicitation for external review of Health Assessment Document for Inorganic Arsenic	6/14/83	4	EPA/Federal Register	General Public	
AR 18.2 0009	18.2 Notices of Availability of Information/Notices of Meetings	Availability of Federal Register announcement and executive summary on proposed arsenic standard	7/21/83	1	Robert Ajax/EPA	General Public	
AR 18.2 0010	18.2 Notices of Availability of Information/Notices of Meetings	Amended notice of public hearing and extension of public comment period on proposed arsenic standard	8/22/83	1	EPA/Federal Register	General Public	
AR 18.2 0011	18.2 Notices of Availability of Information/Notices of Meetings	Meeting regarding modeling studies and control options	12/13/83	1	Jack Farmer/EPA	Michael Wright/United Steelworkers of America (USWA)	
AR 18.2 0012	18.2 Notices of Availability of Information/Notices of Meetings	Hearing on amendments to Chapter 173-400 WAC with attached General Regulations for Air Pollution Sources	2/1/84	10	Henry Droege/WDOE	General Public	
AR 18.2 0013	18.2 Notices of Availability of Information/Notices of Meetings	Hearing on adopting revised rules for compliance with State Environmental Policy Act	8/13/84	3	Arthur Dammkoehler/PSAPCA	General Public	
AR 18.2 0014	18.2 Notices of Availability of Information/Notices of Meetings	Hearing on Acceptance of Assurance of discontinuance at ASARCO	8/21/84	4	PSAPCA	General Public	
AR 18.2 0015	18.2 Notices of Availability of Information/Notices of Meetings	Hearing on proposal to amend Shoreline Management Act regarding Ruston shoreline	Unknown	1	Rodney Mack/WDOE	General Public	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 18.2 0016	18.2 Notices of Availability of Information/Notices of Meetings	Availability of EPA documents regarding inorganic arsenic emissions	8/15/86	2	Robert Ajax/EPA	General Public	
	18.3 Public Meeting Transcripts						
		18.3.1 PSAPCA Arsenic Standard - Proposed					
AR 18.3.1 0001	18.3.1 PSAPCA Arsenic Standard - Proposed	Hearing on proposed amendments to PSAPCA Regulation I to control arsenic emissions	2/14/73	13	Ron Malatesta/EPA	Files/EPA	
AR 18.3.1 0002	18.3.1 PSAPCA Arsenic Standard - Proposed	ASARCO statement made at 2/14/73 meeting on proposed amendments to Regulation I for controlling arsenic emissions	2/14/73	9	Armand Labbe/ASARCO	PSAPCA	
AR 18.3.1 0003	18.3.1 PSAPCA Arsenic Standard - Proposed	ASARCO statement made at 2/14/73 meeting regarding health effects of arsenic	2/14/73	10	K.W. Nelson/ASARCO	PSAPCA	
		18.3.2 Variance - 1976					
AR 18.3.2 0001	18.3.2 Variance - 1976	Hearing on Variance Application No. 157	1/27/76	286	PSAPCA	Files/PSAPCA	
AR 18.3.2 0002	18.3.2 Variance - 1976	Hearing on Variance Application No. 157	2/19/76	69	PSAPCA	Files/PSAPCA	
		18.3.3 OSHA Arsenic Standard - Proposed					
AR 18.3.3 0001	18.3.3 OSHA Arsenic Standard - Proposed	Hearing on economic and technical feasibility and inflationary impact of proposed arsenic standard	9/10/76	105	OSHA	Files/OSHA	
AR 18.3.3 0002	18.3.3 OSHA Arsenic Standard - Proposed	Hearing on economic and technical feasibility and inflationary impact of proposed arsenic standard	9/11/76	113	OSHA	Files/OSHA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 18.3.3 0003	18.3.3 OSHA Arsenic Standard - Proposed	Hearing on economic and technical feasibility and inflationary impact of proposed arsenic standard	9/13/76	221	OSHA	Files/OSHA	
AR 18.3.3 0004	18.3.3 OSHA Arsenic Standard - Proposed	ASARCO statement given at hearing	6/13/75	7	Sherman Pinto/ASARCO	OSHA	
AR 18.3.3 0005	18.3.3 OSHA Arsenic Standard - Proposed	Hearing on inflationary impact of arsenic pollution controls	9/8/76	203	OSHA	Files/OSHA	
AR 18.3.3 0006	18.3.3 OSHA Arsenic Standard - Proposed	Hearings on inorganic arsenic	9/9/76	216	OSHA	Files/OSHA	
AR 18.3.3 0007	18.3.3 OSHA Arsenic Standard - Proposed	ASARCO statements given at hearing	Unknown	12	Sherman Pinto and Phillip Enterline/ASARCO	OSHA	
AR 18.3.3 0008	18.3.3 OSHA Arsenic Standard - Proposed	Review of hearing on inflationary impact of proposed inorganic arsenic standard	Unknown	3	OSHA	Files/OSHA	
		18.3.4 Subcommittee on Arsenic as a Possible Hazardous Air Pollutant					
AR 18.3.4 0001	18.3.4 Subcommittee on Arsenic as a Possible Hazardous Air Pollutant	Hearing on arsenic as possible pollutant	1/10/79	164	Science Advisory Board/EPA	Joseph Padgett and John O'Connor/EPA	
		18.3.5 National Air Pollution Control Techniques Advisory Committee					
AR 18.3.5 0001	18.3.5 National Air Pollution Control Techniques Advisory Committee	Draft preamble for arsenic emissions from primary copper smelters	2/12/81	68	Don Goodwin/EPA	Please see document	
AR 18.3.5 0002	18.3.5 National Air Pollution Control Techniques Advisory Committee	Minutes of 3/17 and 3/18/81 meetings	4/17/81	33	EPA	Files/EPA	
		18.3.6 Public Workshops on Arsenic					

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 18.3.6 0001	18.3.6 Public Workshops on Arsenic	Suggestions for arsenic standard workshop	8/10/83	3	Kai Lee/University of Washington	EPA	
AR 18.3.6 0002	18.3.6 Public Workshops on Arsenic	Memorandum/Workshops held on 8/10, 8/16, and 8/18/83	9/1/83	3	David Patrick/EPA	Joseph Padgett/EPA	
AR 18.3.6 0003	18.3.6 Public Workshops on Arsenic	Documentation regarding 8/10/83 workshop	3/19/84	155	Roy Manley/Pacific Environmental Services, Inc.	Docket/EPA	
AR 18.3.6 0004	18.3.6 Public Workshops on Arsenic	Documentation regarding 8/16/83 public workshop	3/19/84	98	Roy Manley/Pacific Environmental Services, Inc.	Docket/EPA	
AR 18.3.6 0005	18.3.6 Public Workshops on Arsenic	Documentation regarding 8/18/83 public workshop	3/19/84	59	Roy Manley/Pacific Environmental Services, Inc.	Docket/EPA	
		18.3.7 Interagency Discussion Regarding Arsenic and Its Health Effects					
AR 18.3.7 0001	18.3.7 Interagency Discussion Regarding Arsenic and Its Health Effects	Letter/Request by Mayor of Tacoma for EPA assistance at 10/6/83 meeting and for response to state health department questions	9/26/83	8	Alexandra Smith/EPA	Elizabeth Anderson/EPA	
AR 18.3.7 0002	18.3.7 Interagency Discussion Regarding Arsenic and Its Health Effects	Memorandum/Agenda to 10/6/83 interagency discussion	10/7/83	4	Dana Davoli/EPA	Docket/EPA	
		18.3.8 NESHAPS Arsenic Standard - Proposed					
AR 18.3.8 0001	18.3.8 NESHAPS Arsenic Standard - Proposed	Notes/Meeting with representatives of Seattle-Tacoma environmental community	7/14/83	3	Anita Franklin/EPA	EPA	
AR 18.3.8 0002	18.3.8 NESHAPS Arsenic Standard - Proposed	Memorandum/Meeting with environmental protection groups	8/2/83	1	Earl Salo/EPA	Jack Farmer/EPA	
AR 18.3.8 0003	18.3.8 NESHAPS Arsenic Standard - Proposed	Memorandum/Meetings with American Lung Association	8/18/83	1	Dana Davoli/EPA	Docket/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 18.3.8 0004	18.3.8 NESHAPS Arsenic Standard - Proposed	Memorandum/Meeting with Steelworkers Union Local in Ruston on 7/30/83	8/22/83	2	Wayne Grotheer/EPA	Rule-making Docket/EPA	
AR 18.3.8 0005	18.3.8 NESHAPS Arsenic Standard - Proposed	Memorandum/Clean Air Coalition meeting regarding status of proposed standard	9/26/83	2	C. Gaulding/EPA	Docket/EPA	
AR 18.3.8 0006	18.3.8 NESHAPS Arsenic Standard - Proposed	Testimony by Samuel Milham at public hearing on proposed standard	10/27/83	27	Samuel Milham/DSHS	EPA	
AR 18.3.8 0007	18.3.8 NESHAPS Arsenic Standard - Proposed	Agenda for 11/2-4/83 public hearing	11/4/83	7	EPA	EPA	
AR 18.3.8 0008	18.3.8 NESHAPS Arsenic Standard - Proposed	Panel member assignments for 11/2-4/83 public hearing	11/4/83	3	EPA	EPA	
AR 18.3.8 0009	18.3.8 NESHAPS Arsenic Standard - Proposed	Hearing support team for 11/2-4/83 public hearing	11/4/83	2	EPA	EPA	
AR 18.3.8 0010	18.3.8 NESHAPS Arsenic Standard - Proposed	Hearing procedures for 11/2-4/83 public hearing	11/2/83	2	EPA	EPA	
AR 18.3.8 0011	18.3.8 NESHAPS Arsenic Standard - Proposed	Volume I of Official Transcript of Proceedings at 11/2-4/83 public hearing with attached material submitted for the record	11/2/83	448	EPA	EPA	
AR 18.3.8 0012	18.3.8 NESHAPS Arsenic Standard - Proposed	Volume II of Official Transcript of Proceedings at 11/2-4/83 public hearing with attached material submitted for the record	11/3/83	317	EPA	EPA	
AR 18.3.8 0013	18.3.8 NESHAPS Arsenic Standard - Proposed	Volume III of Official Transcript of Proceedings at 11/2-4/83 public hearing with attached material submitted for the record	11/4/83	94	EPA	EPA	
AR 18.3.8 0014	18.3.8 NESHAPS Arsenic Standard - Proposed	Notes/Public hearing meeting of 11/2-4/83	11/4/83	2	Mark Hooper/EPA	Files/EPA	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 18.3.8 0015	18.3.8 NESHAPS Arsenic Standard - Proposed	Memorandum/Written statements by 13 speakers at 11/2-4/83 public hearing	12/1/83	127	Janet Meyer/Pacific Environmental Services, Inc.	Docket/EPA	
AR 18.3.8 0016	18.3.8 NESHAPS Arsenic Standard - Proposed	Memorandum/Handouts for 12/20/83 meeting with outside representatives regarding proposed standard	12/23/83	52	Jan Meyer/Pacific Environmental Services, Inc.	Docket/EPA	
AR 18.3.8 0017	18.3.8 NESHAPS Arsenic Standard - Proposed	Memorandum/Meeting to discuss revised ambient modeling results and emission control alternatives	1/20/84	6	Janet Meyer/Pacific Environmental Services, Inc.	Linda Chaput/EPA	
AR 18.3.8 0018	18.3.8 NESHAPS Arsenic Standard - Proposed	Memorandum/Series of 4 meetings held to clarify comments received from local organizations regarding proposed standard	7/11/84	2	Robert Ajax/EPA	Docket/EPA	
AR 18.3.8 0019	18.3.8 NESHAPS Arsenic Standard - Proposed	Questionnaire to determine public attitudes regarding proposed standard	Unknown	7	TPCHD	General public	
	18.4 Documentation of Other Public Meetings						
AR 18.4 0001	18.4 Documentation of Other Public Meetings	Notes/Public hearing held on 5/6/75 to discuss environmental concerns	5/75	6	EPA	Files/EPA	
AR 18.4 0002	18.4 Documentation of Other Public Meetings	Notes/Public hearing held to discuss ASARCO variance request	4/21/81	7	EPA	Files/EPA	
	18.5 Fact Sheets and Press Releases						
AR 18.5 0001	18.5 Fact Sheets and Press Releases	Press Release/Formation of PSAPCA task force to collate and evaluate pertinent data regarding ASARCO	11/1/74	6	Dona Gilman/PSAPCA	General Public	
AR 18.5 0002	18.5 Fact Sheets and Press Releases	Press Release/Statement of John Beare regarding potential health effects from air contaminants	4/16/75	6	John Beare/DSHS	General Public	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 18.5 0003	18.5 Fact Sheets and Press Releases	Press Release/ASARCO statement regarding urinary arsenic levels in schoolchildren	7/15/76	6	Charlie Randt/ASARCO	General Public	
AR 18.5 0004	18.5 Fact Sheets and Press Releases	Press Release/ASARCO statement announcing suspension of operations at smelter with attached transmittal letter from ASARCO to EPA, background on smelter, and letters regarding possible closure	11/14/78	14	Armand Labbe/ASARCO	General Public	
AR 18.5 0005	18.5 Fact Sheets and Press Releases	Press Release/PSAPCA consideration of variance request	3/6/81	1	A.R. Dammkoehler/PSAPCA	General Public	
AR 18.5 0006	18.5 Fact Sheets and Press Releases	Press Release/Availability of Draft EIS regarding variance application	3/23/81	3	Brent Carson/PSAPCA	General Public	
AR 18.5 0007	18.5 Fact Sheets and Press Releases	Press Release/Public hearing on Draft EIS regarding variance application	4/14/81	2	A.R. Dammkoehler/PSAPCA	General Public	
AR 18.5 0008	18.5 Fact Sheets and Press Releases	Press Release/Availability of Final EIS regarding variance application	10/2/81	3	Brent Carson/PSAPCA	General Public	
AR 18.5 0009	18.5 Fact Sheets and Press Releases	Press Release/Public hearing regarding variance application	10/14/81	3	Brent Carson/PSAPCA	General Public	
AR 18.5 0010	18.5 Fact Sheets and Press Releases	Press Release/Public hearing regarding PSAPCA decision on variance application	10/23/81	1	Brent Carson/PSAPCA	General Public	
AR 18.5 0011	18.5 Fact Sheets and Press Releases	Fact Sheet/High arsenic throughput primary copper smelter	7/1/83	3	EPA	General public	
AR 18.5 0012	18.5 Fact Sheets and Press Releases	Press Release/Public workshops held by EPA to explain proposal to curtail emissions of airborne arsenic with attached fact sheets regarding risk to public health, arsenic control at ASARCO, and Superfund and ASARCO	7/83	8	Bob Jacobson/EPA	General Public	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 18.5 0013	18.5 Fact Sheets and Press Releases	Press Release/EPA proposed inorganic arsenic standard	7/12/83	2	Robert Ajax/EPA	General Public	
AR 18.5 0014	18.5 Fact Sheets and Press Releases	Press Release/Comment period regarding EPA proposed inorganic arsenic standard	7/12/83	2	Bob Jacobson/EPA	General Public	
AR 18.5 0015	18.5 Fact Sheets and Press Releases	Press Release/Public workshops held by EPA to inform citizens and answer questions regarding proposed inorganic arsenic standard with attached fact sheets regarding arsenic control at ASARCO, risk to public health, uncertainties in risk calculations, and Superfund and ASARCO	8/3/83	8	Bob Jacobson/EPA	General Public	
AR 18.5 0016	18.5 Fact Sheets and Press Releases	Press Release/New data released by EPA reaffirming that greatest danger to health results from ground-level emissions of arsenic	10/20/83	14	Bob Jacobson/EPA	General Public	
AR 18.5 0017	18.5 Fact Sheets and Press Releases	Press Release/Additional time for public comment on EPA proposed inorganic arsenic standard	12/14/83	2	Bob Jacobson/EPA	General Public	
AR 18.5 0018	18.5 Fact Sheets and Press Releases	Press Briefing/Status report on EPA proposed inorganic arsenic standard	12/27/83	2	C. Gaulding/EPA	General Public	
AR 18.5 0019	18.5 Fact Sheets and Press Releases	Press Release/Cessation of copper smelting with attached letter from ASARCO to EPA regarding closure	6/27/84	3	L.W. Lindquist/ASARCO	General Public	
AR 18.5 0020	18.5 Fact Sheets and Press Releases	Fact Sheet/Proposed inorganic arsenic standard, EPA Notice of Violation, and Exposure Pathways Study	9/84	1	EPA	General Public	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 18.5 0021	18.5 Fact Sheets and Press Releases	Press Release/Expected EPA requirements to control arsenic emissions from arsenic production plant at ASARCO	11/2/84	8	Randy Smith/EPA	General Public	
AR 18.5 0022	18.5 Fact Sheets and Press Releases	Press Release/Maintenance of efficiency of air pollution control equipment in main stack until scheduled shutdown	11/21/84	1	Randall Smith/EPA	General Public	
AR 18.5 0023	18.5 Fact Sheets and Press Releases	Fact Sheet/EPA inorganic arsenic standard	1/30/85	2	EPA	General Public	

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SECTION 19.0 TECHNICAL SOURCES

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
19.1 EPA Headquarters Guidances							
AR 19.1 0001	19.1 EPA Headquarters Guidances	Water Quality Criteria 1972 (pp 240-269)	3/73	24	EPA	EPA	
AR 19.1 0002	19.1 EPA Headquarters Guidances	Use of supplementary control systems and implementation of secondary standards	9/14/73	7	Federal Register, Vol. 38, No. 178/EPA	Public	
AR 19.1 0003	19.1 EPA Headquarters Guidances	Executive summary regarding EPA proposed inorganic arsenic standard	7/73	11	EPA	Unknown	
AR 19.1 0004	19.1 EPA Headquarters Guidances	Development Document for Interim Final Effluent Limitations Guidelines and Proposed New Source Performance Standards for Primary Copper Smelters	2/75	9	EPA	EPA	
AR 19.1 0005	19.1 EPA Headquarters Guidances	Applied Techniques for Conducting Exposure Assessments	6/85	37	EPA	EPA	
AR 19.1 0006	19.1 EPA Headquarters Guidances	Guidance for Controlling Asbestos-Containing Materials in Buildings	6/85	122	EPA	EPA	
AR 19.1 0007	19.1 EPA Headquarters Guidances	Intermedia Priority Pollutant Guidance Documents	7/82	42	Robert Kayser, et al./EPA	EPA	
AR 19.1 0008	19.1 EPA Headquarters Guidances	Memorandum/The Role of Expedited Response Actions Under SARA	4/21/87	3	Henry L. Longest II/EPA	EPA	
AR 19.1 0009	19.1 EPA Headquarters Guidances	Memorandum/J-Qualified CLP Data and Recommendations for its Use	9/29/89	7	Howard F. Fisk/EPA	Suzanne Wells/EPA	
AR 19.1 0010	19.1 EPA Headquarters Guidances	Solid Matrix Arsenic Action Levels	Unknown	14	Georgia Valaoras/EPA		

19.2 EPA Regional Guidances

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 19.2 0001	19.2 EPA Regional Guidances	Guidelines for interpretation of air quality standards	8/74	21	Research Triangle Park/EPA	EPA	
AR 19.2 0002	19.2 EPA Regional Guidances	Investigation of New Techniques for Control of Smelter Arsenic Bearing Wastes	9/81	302	Anil Mehta-Industrial Environmental Research Laboratory/EPA	EPA	
AR 19.2 0003	19.2 EPA Regional Guidances	Preparation of Soil Sampling Protocol: Techniques and Strategies	8/83	4	Benjamin Mason/Environmental Monitoring Systems Laboratory-EPA	EPA	
AR 19.2 0004	19.2 EPA Regional Guidances	Risk Assessment Criteria used at the Anaconda, MT Smelter	3/6/90	5	David P. Corbett/SAIC	Jeff Webb/EPA	
19.3	State Guidances						
AR 19.3 0001	19.3 State Guidances	Arsenic guidelines for soil and urinary arsenic	7/86	4	Dave Bradley/Washington Department of Ecology (WDOE)	Commencement Bay Air Work Group (Air Work Group)	
AR 19.3 0002	19.3 State Guidances	Dangerous Waste Regulations Chapter 173-303 WAC	6/87	2	WDOE		
19.4	Technical Sources						
AR 19.4 0001	19.4 Technical Sources	Particulate lead contamination recorded in sedimentary cores from Lake Washington, Seattle	5/21/73	11	Eric Crecelius and David Piper/University of Washington	Unknown	
AR 19.4 0002	19.4 Technical Sources	CEWA 560 Report: Environmental Health Impacts of the Tacoma Smelter	3/19/74	88	Brian Grant, Rick Johns, Bruce Johnson, Ed Lillis, Herb McClannan, Loren McPhillips, Andy Nomura, Prem Bhardwaja, Rob Seabloom, and Jeff Wright	A.T. Rossano/University of Washington	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 19.4 0003	19.4 Technical Sources	Concentrations of Arsenic and Lead in Airborne Particulates and Household Dust in the Vicinity of a Copper Smelter - A Preliminary Report	11/18/74	10	A.T. Rossano and H. McClannan/University of Washington	Pacific-Northwest International Section of Air Pollution Control Association	
AR 19.4 0004	19.4 Technical Sources	The Geochemical Cycle of Arsenic in Lake Washington and Its Relation to Other Elements	10/17/74	6	Eric Crecelius/University of Washington	Unknown	
AR 19.4 0005	19.4 Technical Sources	Community Exposure Studies and Smelter Work Mortality Studies	2/24, 25/75	8	Samuel Milham/Washington Department of Social Health and Services (DSHS)	National Conference on Health Effects of Occupational Lead and Arsenic Exposure	
AR 19.4 0006	19.4 Technical Sources	Seepage Study of Stack Flue No. 2 at ASARCO	3/3/76	20	Hart Crowser & Associates, Inc.	ASARCO	
AR 19.4 0007	19.4 Technical Sources	Industrial Toxins and the Community	1977	9	Samuel Milham/DSHS	U.S. Department of Health, Education, and Welfare	
AR 19.4 0008	19.4 Technical Sources	Human Exposures to Atmospheric Arsenic	9/78	117	Office of Research and Development/EPA	EPA	
AR 19.4 0009	19.4 Technical Sources	Total Suspended Particulates Modeling Analysis	9/80	90	K. Boyd Knechtel, Brent Carson, and Gerald Erickson/Puget Sound Air Pollution Control Agency (PSAPCA)	EPA	
AR 19.4 0010	19.4 Technical Sources	Characterization of Visible Plumes From A Copper Smelter	11/82	21	J.M. Wilder and T. Tucker/University of Washington	Pacific-Northwest International Section/Air Pollution Control Association	
AR 19.4 0011	19.4 Technical Sources	Atmospheric dispersion modeling of long-term average arsenic concentrations	2/15/85	79	Gerald Anderson, Paul Gutfreund, and Paulus Irpan/Systems Applications, Inc.	David Layland/EPA	

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AR 19.4 0012	19.4 Technical Sources	Personal safety and first aid regarding N,N Dimethylaniline	Unknown	3	Dupont	Unknown	
AR 19.4 0013	19.4 Technical Sources	Toxicological Profiles for Arsenic	3/89	8	Life Systems, Inc.	ATSDR	
AR 19.4 0014	19.4 Technical Sources	Microbiological Methylation of Arsenic	Unknown	8	Donald P. Cox/Cornell University		
AR 19.4 0015	19.4 Technical Sources	Arsenic in The Environment	Unknown	8	Robert S. Braman/University of South Florida		
AR 19.4 0016	19.4 Technical Sources	A Proposed Arsenic Cycle in an Agronomic Ecosystem	Unknown	12	Gary R. Sandberg, Ingrid K. Allen/The Asul Co.		
AR 19.4 0017	19.4 Technical Sources	Structural Response and Damage Produced by Airblast from Surface Mining	1980	118	David E. Siskind, et al./Bureau of Mines Report of Investigations		
AR 19.4 0018	19.4 Technical Sources	Structure Response and Damage Produced by Ground Vibration from Surface Mine Blasting	1980	79	D.E. Siskind, et al./Bureau of Mines Report of Investigations		
19.5	Photographs						
AR 19.5 0001	19.5 Photographs	Photographs taken of ASARCO operations	1970-85	18	EPA and WDOE	EPA and WDOE	
19.6	References						
AR 19.6 0001	19.6 References	Arsenic studies and activities list	5/26/76	9	I.E. Wallen/EPA	Please see document	
AR 19.6 0002	19.6 References	List of available studies regarding ASARCO	9/14/77	6	Joseph Padgett/EPA	Ralph Bauer/EPA, Region X	
AR 19.6 0003	19.6 References	Bibliography of ASARCO related documents	12/19/77	9	Unknown/EPA	Dick Bauer/EPA	
AR 19.6 0004	19.6 References	Tetra Tech and WDOE Commencement Bay library list	6/18/84	40	Unknown	Unknown	

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Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
	19.7 ASARCO Impact Task Force Bibliography						
AR 19.7 0001	19.7 ASARCO Impact Task Force Bibliography	Impact bibliography with abstracts	Unknown	130	PSAPCA	ASARCO Impact Task Force	

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SECTION 20.0 CONFIDENTIAL PORTION

Doc #	File	Type/Description	Date	Pgs	Author/Organization	Addressee/Organization	Doc Location
AR 2.1 0017	2.1 Correspondence	Memorandum/Basic direction of Ruston-Vashon studies	4/9/84	1	Chuck Kleeberg/EPA	Files/EPA	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 2.3 0003	2.3 Sampling Data	Soil analysis data on arsenic, copper, and zinc values	9/15/82	19	A.R. Halvorson/Cooperative Extension Washington State University	Kim Lowry/Tacoma-Pierce County Health Department	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 2.3 0004	2.3 Sampling Data	Analysis of garden vegetables	3/31/83	3	Ann Bailey/Am Test, Inc.	Jane Lee/King County Health Department (KCHD)	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 2.3 0007	2.3 Sampling Data	Schoolchildren urinary arsenic levels	8/83	5	Unknown	Unknown	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 2.3 0010	2.3 Sampling Data	Urinary arsenic results for Tacoma-area children	11/28/83	41	Donald Robbins.ASARCO	Doug Pierce/Tacoma-Pierce County Health Department (TPCHD)	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 2.3 0013	2.3 Sampling Data	Soil sampling analysis report	6/8/8	1	John Blunt/Am Test, Inc.	Michael Bradley	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 2.3 0014	2.3 Sampling Data	Urinary arsenic data	8/6/84	1	Unknown	Unknown	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA

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AR 2.3 0018	2.3 Sampling Data	Arsenic and cadmium sampling data	Unknown	1	Unknown	Unknown	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 2.4.5 0004	2.4.5 Urinary Arsenic Levels of ASARCO-Area Residents	Schoolchildren urinary arsenic values	9/8/75	10	M.O. Varner/ASARCO	A.L. Labbe/ASARCO	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 2.4.5 0006	2.4.5 Urinary Arsenic Levels of ASARCO-Area Residents	Schoolchildren urinary arsenic values	5/20/76	2	Albert Robbins and Stan Comer/DSHS	Terry Strong/DSHS	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 2.4.5 0008	2.4.5 Urinary Arsenic Levels of ASARCO-Area Residents	Schoolchildren urinary arsenic values	8/27/76	2	T.R. Strong/DSHS	A.L. Labbe/ASARCO	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 2.4.5 0012	2.4.5 Urinary Arsenic Levels of ASARCO-Area Residents	Analysis of urine sample	10/26/77	2	Curtis Dungey/ASARCO	Mr. & Mrs. Thomas Cserepes	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 2.4.5 0013	2.4.5 Urinary Arsenic Levels of ASARCO-Area Residents	Tacoma schoolchildren urinary arsenic excretion	7/23/80	7	Rodwell Watson/ASARCO	M.O. Varner/ASARCO	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 2.4.5 0014	2.4.5 Urinary Arsenic Levels of ASARCO-Area Residents	Tacoma schoolchildren urinary arsenic excretion	6/30/81	11	John Kane/ASARCO	M.O. Varner/ASARCO	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
							CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 2.13.1 0008	2.13.1 Correspondence	Letter/Funding and support from Centers for Disease Control (CDC) for exposure assessment	10/5/83	1	Alexandra Smith/EPA	Paul Wiesner/CDC	CONFIDENTIAL - Located at EPA Region 10,

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AR 2.13.4 0001	2.13.4 Statement of Work	Letter of transmittal from J.D. Krull to Donald Allen with attached Statement of Work as Appendix A	11/28/83	3	J.D. Krull/WDOE	Donald Allen/University of Washington	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 5.5 0003	5.5 Sampling Data	Air sample data sheets	1/29/87-2/20/87	11	T.L. Barksdale/HAZCON, Inc.	Unknown	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 9.1 0004	9.1 Correspondence	Letter/Request for amendment in cooperative agreement	12/5/83	1	Donald Moos/Washington Department of Ecology (WDOE)	Ernesta Barnes/EPA	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 9.1 0009	9.1 Correspondence	Memorandum/Interest in participation in survey potion of exposure assessment study	2/22/84	2	R.M. Nicola/TPCHD	Arsenic Study Team/University of Washington	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 9.1 0011	9.1 Correspondence	Letter/Amendment of Commencement Bay Cooperative Agreement and funding for Ruston/Vashon Task	3/21/84	3	John Spencer/WDOE	Ernesta Barnes/EPA	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 9.2 0001	9.2 Cooperative Agreements and Amendments	Commencement Bay Nearshore/Tideflats Cooperative Agreement	5/2/83	42	WDOE	EPA	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 9.2 0002	9.2 Cooperative Agreements and Amendments	Ruston/Vashon amendment to Commencement Bay Nearshore/Tideflats Cooperative Agreement	1/16/84	8	Russel Wyer/EPA	William Hedeman/EPA	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 9.2 0003	9.2 Cooperative Agreements and Amendments	Cooperative agreement application	6/8/84	16	Glen Fiedler/WDOE	Leo Sanders/CDC	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA

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AR 9.2 0004	9.2 Cooperative Agreements and Amendments	Interagency agreement with CDC	7/84	5	EPA	CDC	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 10.7 0008	10.7 Responses to Notice Letters and Requests for Information	Additional information from DOE with attached soil sampling data	2/22/85	3	Michael Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot, & Quinn	Barbara Lither/EPA	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 10.7 0009	10.7 Responses to Notice Letters and Requests for Information	Questions and clarifications on ASARCO data from DOE with attached data	2/27/85	13	Kim Lowry/University of Washington	Dana Davoli/EPA	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 10.7 0011	10.7 Responses to Notice Letters and Requests for Information	Responses to specific questions and status report on ASARCO responses	4/4/85	7	Donald Robbins/ASARCO	Kim Lowry/University of Washington	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 12.3.12 0001	12.3.13 Water Monitoring Data	Letter/Dr. Crecelius proposal to study forms of arsenic in plants grown in arsenic-contaminated soils with attached memorandum regarding results of sampling analyses on discharges from ASARCO, and tables giving monthly and yearly averages for airborne lead and arsenic at Tacoma reservoir station	4/17/79	5	K.W. Nelson/ASARCO	A.L. Labbe/ASARCO	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 12.3.5 0001	12.3.5 Heavy Metals Accumulation in Soil and Vegetation	Transmittal slip/Results of Tacoma grass samples	8/13/73	1	Robert Courson/EPA	Sam Milham/DSHS	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 12.3.5 0005	12.3.5 Heavy Metals Accumulation in Soil and Vegetation	Study entitled "Observations of Vegetation in the Vicinity of the ASARCO, Ruston Smelter"	Unknown	5	Unknown		CONFIDENTIAL - Located at EPA Region 10, Seattle, WA

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AR 12.3.8 0002	12.3.8 Heavy Metals in Household Dust and Milk	Letter/Table of results for mercury and arsenic in vacuum cleaner dust and milk from Tacoma area	1/8/74	2	Arnold Gahler/EPA Region X	K.W. Nelson/ASARCO	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 12.3.10 0003	12.3.10 Interim Reports Regarding Concentrations of Heavy Metals	Data sheets, figures, and tables/ Concentrations of toxic metals downwind from ASARCO and ambient air concentrations of sulfur dioxide	5/3/68-12/31/72	13	PSAPCA		CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 12.3.10 0004	12.3.10 Interim Reports Regarding Concentrations of Heavy Metals	Interim report entitled "The Concentration of Lead, Arsenic, Mercury, Cadmium, Sulfur Dioxide, and Suspended Sulfates Downwind from Tacoma Smelter, the Impact and Control Status and Benefits From Reduction"	4/22/74	15	PSAPCA		CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 12.3.12 0001	12.3.12 Water Monitoring Data	Letter/Rainwater analyses from Salmon Beach runoff rainwater with attached urine analyses and excerpt from sections regarding drinking water standards (1962)	1/16/75	5	Robert Putnam/ASARCO	S.S. Pinto/ASARCO	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 12.3.13 0001	12.3.13 Soil, Vegetables, and Dust Data	Drawing/Street sampling for arsenic and lead with attached soil sample and street sampling results for arsenic and lead, vegetation and soil sample results for metals, memorandum regarding dust analysis results, and memorandum regarding ASARCO road sampling adjacent to plant	4/10/73	1	ASARCO and PSAPCA		CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 12.3.13 0005	12.3.13 Soil, Vegetables, and Dust Data	Letter/Sampling results for cadmium and arsenic from Tacoma road dust	6/18/75	1	Donald Robbins/ASARCO	A.L. Labbe/ASARCO	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA

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AR 12.3.13 0009	12.3.13 Soil, Vegetables, and Dust Data	Letter/Results of arsenic analyses of vacuum dust samples taken from homes in ASARCO area with attached data results regarding arsenic concentrations	11/12/75	9	Donald Robbins/ASARCO	Curtis Dungey/ASARCO	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 12.3.13 0011	12.3.13 Soil, Vegetables, and Dust Data	Memorandum/Environmental study of home to determine contributions to elevated arsenic excretions of children in vicinity of ASARCO	11/24/76	2	Curtis Dungey/ASARCO	A.L. Labbe/ASARCO	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 12.3.13 0012	12.3.13 Soil, Vegetables, and Dust Data	Memorandum/Analysis of laurel leaves	2/19/77	1	Michael Treshow/Consultant	M.O. Varner/ASARCO	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 12.3.13 0013	12.3.13 Soil, Vegetables, and Dust Data	Letter/Lettuce and soil sample results for cadmium	2/23/76	3	Lowell White/ASARCO	A.L. Labbe/ASARCO	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 12.3.13 0014	12.3.13 Soil, Vegetables, and Dust Data	Letter/Examination of garlic and rhododendron leaves	4/27/77	2	Michael Treshow/Consultant	M.O. Varner/ASARCO	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 12.3.13 0015	12.3.13 Soil, Vegetables, and Dust Data	Letter/Analytical data from the leaching of several soils	12/19/78	2	Donald Robbins/ASARCO	A.L. Labbe/ASARCO	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 12.3.13 0016	12.3.13 Soil, Vegetables, and Dust Data	Letter/Cadmium and arsenic data for soil samples	1/3/79	3	Donald Robbins/ASARCO	A.L. Labbe/ASARCO	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 12.3.13 0017	12.3.13 Soil, Vegetables, and Dust Data	Letter/Soil samples results for cadmium and arsenic	1/18/79	8	Donald Robbins/ASARCO	A.L. Labbe/ASARCO	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA

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AR 14.6.3 0004	14.6.3 DSHS/Milham Studies	Summary report entitled "Studies of Morbidity Near A Copper Smelter"	Unknown	5	Unknown		CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 14.6.3 0009	14.6.3 DSHS/Milham Studies	Sampling and analysis results for urinary arsenic and cadmium from Ruston schoolchildren	9/17/75	20	C.E. Dungey/ASARCO	Robert Putnam/ASARCO	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 14.6.3 0017	14.6.3 DSHS/Milham Studies	Letter/Urinary arsenic results for 1972 Tacoma schoolchildren study with attached results	5/27/75	3	ASARCO	Terry Strong/DSHS	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 14.6.3 0020	14.6.2 DSHS/Milham Studies	Cover letter/Tables for all urinary arsenic sampling results for Tacoma-area children taken by DSHS and ASARCO with exception regarding results reported to ASARCO by DSHS	8/5/83	41	Rodwell Watson/ASAROC	Samuel Milham/DSHS	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 14.7 0001	14.7 Studies of Surrounding Community	A Proposal for a Study of the Community Health Effects of Inorganic Arsenic	6/10/75	5	Departments of Environmental Health and Biostatistics of the School of Public Health and Community Health-University of Washington		CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 14.8.1 0002	14.8.1 ASARCO Workers Study	Letter/Proposed study of association between arsenic exposure and nerve conduction deficits in ASARCO employees with attached memorandum regarding arsenic study-cost estimate for heavy metals assay	12/4//75	5	Donovan Thompson/University of Washington	Emanuel Landau	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 14.9.2 0022	14.9.2 Pinto/Enterline/ ASARCO Studies	Letter/Sherman Pinto's studies regarding airborne lead and arsenic concentrations and urinary lead and arsenic excretion data	3/24/75	4	John Richardson/ASARCO	M.O. Varner/ASARCO	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA

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AR 17.3.1 0002	17.3.1 Exposure Pathways Study	Memorandum/Public health issues and guidelines for writing report	4/23/86	1	Kim Lowry/University of Washington	Lincoln Polissar/ University of Washington	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 17.3.2 0001	17.3.2 Onsite Remedial Investigation/Feasibility Study	Clarification regarding ASARCO responsibility under community relations plan with attached copy of project work plan and letter from attorneys for TPCHD to Michael Thorp regarding hold harmless clause	12/5/86	2	Michael Thorp/Eisenhower, Carlson, Newlands, Reha, Henriot, & Quinn	Carol Thompson/EPA	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 17.3.2 0002	17.3.2 Onsite Remedial Investigation/Feasibility Study	Confirmation of services to be provided by TPCHD for community relations plan	12/19/86	2	Alfred Allen/TPCHD	Carol Thompson/EPA	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 18.1.8 0016	18.1.8 NESHAPS Arsenic Standard - Proposed	Comments on proposed standard	3/6/84	9	Michael Wright/United Steelworkers of America	EPA	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 18.1.11 0001	18.1.11 A Profile of the Tacoma Smelter	Profile of Tacoma Smelter	Unknown	5	ASARCO	General Public	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 20.0 0001	20.0 Confidential	Draft memorandum/Enforcement confidential	2/20/86	14	EPA	EPA	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 20.0 0002	20.0 Confidential	Memorandum/Enforcement confidential	4/3/86	1	EPA	Files/EPA	CONFIDENTIAL - Located at EPA Region 10, Seattle, WA
AR 20.0 0003	20.0 Confidential	Memorandum/Enforcement confidential	4/9/86	2	EPA	Files/EPA	CONFIDENTIAL - Located at EPA Region 10,

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17.0 PUBLIC PARTICIPATION - CERCLA

(See also section 13.0, Public Participation, of the Ruston/N. Tacoma Administrative Record for additional documentation relating to this)

17.1 Comments and Responses

17.1.1 Public Correspondence
17.1.2 Final Exposure Pathways Study - Draft
17.1.3 Expedited Response Action (ERA) - Draft
17.1.4 Community Interview Summaries - Offsite RI/FS

17.2 Notices of Availability of Information/Meetings

17.3 Community Relations Plans

17.3.1 Exposure Pathways Study
17.3.2 Community Relations Plan

17.4 Documentation of Public Meetings

17.5 Fact Sheets and Press Releases

17.6 Onsite Response Action Status Reports

17.7 Offsite RI/FS Status Reports

17.8 Community Workgroup

17.8.1 Correspondence

17.9 Community Interviews - 1991

17.9.1 Confidential (Comm. Interviews 1991)

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18.0 PUBLIC PARTICIPATION - NON-CERCLA

18.1 Comments and Responses

18.1.1 Public Correspondence
18.1.2 PSAPC Arsenic Standard - Proposed
18.1.3 Continued Operation of Tacoma Smelter
18.1.4 State Implementation Plan (SIP) Proposed Revision
18.1.5 Environmental Impact Statement (EIS) Regarding 1976 Variance - Draft
18.1.6 EIS Regarding NESHAPS
18.1.7 Health, Risk Assessment, and Risk Management - Inorganic Arsenic NESHAPS
18.1.8 NESHAPS Arsenic Standard - Proposed
18.1.9 Analysis of ASARCO Compliance with PSAPCA Resolutions 501, 502, and 503
18.1.10 Control Costs on Arsenic Emission Estimates
18.1.11 A Profile of the Tacoma Smelter
18.1.12 Closure of Smelter/Assurance of Discontinuance

18.2 Notices of Availability of Information/Notices of Meetings

18.3 Public Meeting Transcripts

18.3.1 PSAPCA Arsenic Standard - Proposed
18.3.2 Variance - 1976
18.3.3 OSHA Arsenic Standard - Proposed
18.3.4 Subcommittee on Arsenic as a Possible Hazardous Air Pollutant
18.3.5 National Air Pollution Control Techniques Advisory Committee
18.3.6 Public Workshops on Arsenic
18.3.7 Interagency Discussion on Arsenic and Its Health Effects
18.3.8 NESHAPS Arsenic Standard - Proposed

18.4 Documentation of Other Public Meetings

18.5 Fact Sheets and Press Releases

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19.0 TECHNICAL SOURCES

19.1 EPA Headquarters Guidances

19.2 EPA Regional Guidances

19.3 State Guidances

19.4 Technical Sources

CEWA 560: Environmental Health Impacts of the Tacoma Smelter
Dust Study
OSHA Symposia Presentation Regarding Arsenic and Lead Exposure
EPA Technical Sources
Stack Flue Seepage Study (Hart Crowser)
N,N Dimethylanline Data Sheet
Total Suspended Particulates Modeling Analysis (1980)
Characterization of Visible Plumes from a Copper Smelter
Lake Washington Studies
Toxicological Profile for Arsenic
Microbiological Methylation of Arsenic
Arsenic in the Environment

19.5 Photographs

19.6 References

19.7 ASARCO Impact Task Force Bibliography

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