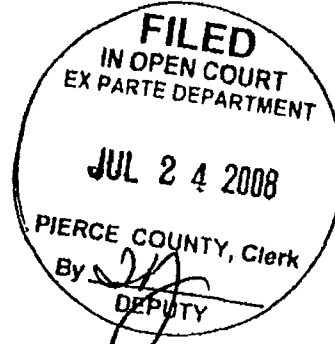




08-2-10610-7 30208432 CON 07-25-08

SITE: B+L Woodwaste ✓  
SIC: JIA08 SITE: 1203  
Site mgr: Dom Reale



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**SUPERIOR COURT OF WASHINGTON  
FOR PIERCE COUNTY**

STATE OF WASHINGTON,  
DEPARTMENT OF ECOLOGY,

Plaintiff,

v.

MURRAY PACIFIC CORPORATION,  
LOUISIANA-PACIFIC  
CORPORATION and WASSER &  
WINTERS COMPANY,

Respondents.

NO. 08 2 10610 7

CONSENT DECREE WITH  
LOUISIANA-PACIFIC  
CORPORATION AND WASSER  
AND WINTERS COMPANY

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ORIGINAL

## I.

## I. INTRODUCTION

1  
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4 In entering into this Consent Decree (Decree), the mutual objective of the Washington  
5 State Department of Ecology (the "Department") and Louisiana-Pacific Corporation  
6 ("Louisiana-Pacific") and Wasser & Winters Company ("W&W") is to provide for remedial  
7 action at a location where there has been a release of hazardous substances. This Decree  
8 requires Louisiana-Pacific to provide funding to be utilized by the Department in implementing  
9 the Cleanup Action Plan and for W&W to waive its B&L claims in bankruptcy against Asarco.  
10 The Department has determined that the actions described in the Cleanup Action Plan are  
11 necessary to protect public health and the environment.

12 The Department, Louisiana-Pacific, and W&W, along with Murray Pacific  
13 Corporation, have also entered into a settlement agreement with ASARCO LLC, one of the  
14 debtors in the U.S. Bankruptcy Court matter styled, In re ASARCO LLC et al., Bankr. S.D.  
15 Texas, Case No. 05-21207 (the "Bankruptcy Settlement Agreement").

16 In entering into this Decree, the Department, Louisiana-Pacific and W&W are  
17 addressing and responding to the unique facts presented by the ASARCO bankruptcy  
18 proceedings and the history of litigation and similar difficulties that have surrounded this Site  
19 for almost 20 years. Because of this unique history, this Consent Decree contains some  
20 deviations from other MTCA Consent Decrees that are only appropriate under these unique  
21 conditions. The Department, Louisiana-Pacific, and W&W agree that settlement of these  
22 matters without litigation is reasonable and in the public interest and that entry of this Decree is  
23 the most appropriate means of resolving these matters.

24 A. In signing this Decree, Louisiana-Pacific and W&W agree to its entry and  
25 agrees to be bound by its terms.  
26

1 B. By entering into this Decree, the Department, Louisiana-Pacific, and W&W do  
2 not intend to discharge non-settling parties from any liability they may have with respect to  
3 matters alleged in the complaint. The Department, Louisiana-Pacific, and W&W retain the  
4 right to seek reimbursement, in whole or in part, from any persons who may be liable in  
5 connection with the Site but this Decree does not abrogate any other settlement that the  
6 Department has entered into with Louisiana-Pacific, and/or W&W with respect to the Site, or  
7 alter the preclusive effects that such settlements may have.

8 C. This Decree shall not be construed as proof of liability or responsibility for any  
9 releases of hazardous substances or cost for remedial action nor an admission of any facts;  
10 provided, however, that Louisiana-Pacific and W&W agree to not challenge the authority of  
11 the Attorney General and the Department to enforce this Decree.

12 D. The Court is fully advised of the reasons for entry of this Decree, and good  
13 cause having been shown: Now, therefore, it is HEREBY ORDERED, ADJUDGED, AND  
14 DECREED:

## 15 II. JURISDICTION

16 A. This Court has jurisdiction over the subject matter and over the Department,  
17 Louisiana-Pacific, and W&W pursuant to Chapter 70.105D RCW, the Model Toxics Control  
18 Act (MTCA). Authority is conferred upon the Washington State Attorney General by  
19 RCW 70.105D.040(4)(a) to agree to a settlement with any potentially liable person if, after  
20 public notice and any required hearing, the Department finds the proposed settlement would  
21 lead to a more expeditious cleanup of hazardous substances. RCW 70.105D.040(4)(b) requires  
22 that such a settlement be entered as a consent decree issued by a court of competent  
23 jurisdiction.

24 B. The Department has determined that Louisiana-Pacific and W&W are each a  
25 potentially liable person with respect to the Site, and that a release or threatened release of  
26 hazardous substances has occurred at the Site that is the subject of this Decree.

1 C. The Department has given notice to Louisiana-Pacific and to W&W, as set forth  
2 in RCW 70.105D.020(15), of the Department's determination that there has been a release or  
3 threatened release of hazardous substances at the Site.

4 D. The actions to be taken pursuant to this Decree are necessary to protect public  
5 health and the environment.

6 E. This Decree has been subject to public notice and comment.

7 F. The Department finds that this Decree will lead to a more expeditious cleanup  
8 of hazardous substances at the Site in compliance with the cleanup standards established under  
9 RCW 70.105D.030(2)(e) and Chapter 173-340 WAC.

10 G. Louisiana-Pacific has agreed to provide the funding required by this Decree,  
11 and consent to the entry of this Decree under MTCA.

12 H. W&W shall waive any claims against Asarco arising from the B&L site and  
13 consent to entry of this Decree under MTCA.

### 14 III. PARTIES BOUND

15 This Decree shall apply to and be binding upon the Department, Louisiana-Pacific, and  
16 W&W, their successors and assigns. The undersigned representative of each party hereby  
17 certifies that he or she is fully authorized to enter into this Decree and to execute and legally  
18 bind such party to comply with the Decree. Louisiana-Pacific agrees to undertake all actions  
19 required by the terms and conditions of this Decree. No change in ownership or corporate  
20 status shall alter the responsibility of Louisiana-Pacific under this Decree. W&W agrees to  
21 undertake all actions required by the terms and conditions of this Decree. No change in  
22 ownership or corporate status shall alter the responsibility of W&W under this Decree.

### 23 IV. DEFINITIONS

24 Unless otherwise specified, the definitions set forth in Chapter 70.105D RCW and  
25 Chapter 173-340 WAC shall control the meanings of the terms used in this Decree.  
26

1       A.    B&L Landfill or Landfill: The B&L Landfill, as more fully described in the  
2 Cleanup Action Plan, is located on approximately 18.5 acres in unincorporated Pierce County,  
3 Washington. It includes the land owned, operated, and permitted as a wood waste landfill by  
4 entities who are not parties to this Consent Decree.

5       B.    Site: The Site, as more fully described in the Cleanup Action Plan, includes  
6 both the B&L Landfill and adjacent areas (wetlands, ditches, etc.). The Site is part of the  
7 Commencement Bay Nearshore/Tideflats Superfund site, which was added in 1983 by the  
8 United States Environmental Protection Agency ("EPA") to the National Priorities List  
9 established under the Comprehensive Environmental Response, Compensation and Liability  
10 Act ("CERCLA"), 42 U.S.C. § 9601 et seq. The Site constitutes a "facility" under RCW  
11 70.105D.020(4).

12       C.    Consent Decree or Decree: Refers to this Consent Decree and each of the  
13 exhibits to the Decree. All exhibits are integral and enforceable parts of this Consent Decree.

14       D.    Day or Days: Refers to a calendar day(s) unless otherwise specified. In  
15 computing any period of time under this Decree, if the last day falls on a Saturday, Sunday, or  
16 a state or federal holiday, the period shall run until the end of the next day which is not a  
17 Saturday, Sunday, or a state or federal holiday. Any time period scheduled to begin on the  
18 occurrence of an act or event shall begin on the day after the act or event.

19       E.    Section: Refers to a portion of this Consent Decree identified by a Roman  
20 numeral.

21       F.    Cleanup Action Plan: Refers to the Cleanup Action Plan for the B&L  
22 Woodwaste Site proposed in 2007 and adopted in 2008 by the Department.

## 23                                   V.    STATEMENT OF FACTS

24       The Department makes the following findings of fact without any express or implied  
25 admissions by the Respondents.

26

1           A.     The B&L Landfill was used for the disposal of wood waste materials, some of  
2 which included slag from the former ASARCO smelter in Ruston, Washington that had been  
3 made available to other parties with a representation that the slag was inert and non-toxic.  
4 Louisiana-Pacific and W&W arranged for the disposal at the Landfill of wood waste materials  
5 that may have contained such slag.

6           B.     In 1988, the Department notified Louisiana-Pacific, W&W, and others that they  
7 were potentially liable persons in regard to the Site.

8           C.     In January 1989, Murray Pacific Corporation entered into a consent decree with  
9 the Department to undertake a Remedial Investigation and Feasibility Study for the Site. That  
10 consent decree was entered by the Court on February 27, 1989, in an action in this Court styled  
11 *State of Washington Department of Ecology v. Murray Pacific Corporation*, No. 89-2-00319-3.  
12 Murray Pacific timely and fully completed the work required by that decree.

13           D.     The Remedial Investigation indicated that a number of hazardous substances  
14 had been released at the Site, including antimony, arsenic, chromium, copper, lead, nickel,  
15 zinc, benzoic acid, and phenol. The respective liabilities of ASARCO, Murray Pacific,  
16 Louisiana-Pacific, W&W and other parties for the remediation of the Site was the subject of  
17 extensive prior litigation, as part of an action styled *Louisiana-Pacific Corp. et al v. Asarco*,  
18 No. C-5259RJB (the "Federal Action"), filed in the United States District Court for the  
19 Western District of Washington. The Department was not a party to that action. Relevant  
20 claims of the parties relating to the Site were tried to a jury and to the court, and a judgment  
21 was entered. ASARCO appealed from the judgments, and the Ninth Circuit's final opinion  
22 was entered on August 30, 1994. On January 9, 1995, the Supreme Court denied certiorari.

23           E.     On June 17, 1992, after it was determined in the Federal Action that ASARCO  
24 had the greatest part of the liability for the Site, the Department issued Enforcement Order  
25 No. 92TC-S214 (the Enforcement Order) to ASARCO, Murray Pacific Corporation, and to the  
26 owner and operator of the B&L Landfill requiring them to implement a 1991 Final Cleanup

1 Action Plan (1991 FCAP) for the B&L Site. The 1991 FCAP provided for, among other  
2 things, the consolidation of materials within the B&L Site, and the construction of a specified  
3 cover system over the consolidated materials. ASARCO and Murray Pacific implemented the  
4 remedy specified in the 1991 FCAP.

5 F. Sampling conducted following completion of construction of the remedy set  
6 forth in the 1991 FCAP has shown that a plume of contaminated groundwater is emanating  
7 from the Landfill, and that a wetland adjacent to the Landfill appears to have been affected by  
8 arsenic and other constituents from the Landfill. On February 25, 2005, the Department issued  
9 an order to ASARCO and Murray Pacific (and one other party) constituting a Second  
10 Amendment to the Enforcement Order No. DE 92TC-S214 (the "Second Amendment"). The  
11 Second Amendment required the respondents to implement a "Contingency Plan for the B&L  
12 Landfill," (i) to investigate groundwater contamination in the vicinity of the Landfill and to  
13 take appropriate corrective action, and (ii) to study, design and implement remedial measures  
14 for the adjacent wetland.

15 G. On August 5, 2005, ASARCO filed with the United States Bankruptcy Court for  
16 the Southern District of Texas voluntary petitions for relief under the United States Bankruptcy  
17 Code (the "Bankruptcy Cases").

18 H. In June 2007, the Department issued a Cleanup Action Plan (the "2007 CAP")  
19 to address the migration of hazardous substances from the Landfill into adjoining wetlands and  
20 ditches. The 2007 CAP was subject to public notice and comment during which Louisiana-  
21 Pacific submitted comments which were duly considered by the Department. A public meeting  
22 to present the remedy outlined in the CAP and address public concerns was held on July 18,  
23 2007. The 2007 CAP is Exhibit A to this Consent Decree.

24 I. The Remedial Action selected in the 2007 CAP includes construction of a  
25 containment system around the Landfill, off-site cleanup of groundwater, long-term operation  
26

1 of a groundwater pumping and treatment system, and long-term post-closure operations,  
2 maintenance, and monitoring.

3 J. Pursuant to another consent decree with the Department, Murray Pacific has  
4 agreed to implement certain elements of the Remedial Action defined in the 2007 CAP. The  
5 Department will be responsible for the long-term operations, maintenance, and monitoring at  
6 the Site.

#### 7 VI. WORK TO BE PERFORMED

8 The implementation of a program designed to protect public health, welfare, and the  
9 environment from the known release or threatened release of regulated substance at, on, or  
10 from the Site is to be addressed by Murray Pacific and the Department pursuant to another  
11 consent decree. Louisiana-Pacific and W&W shall have no responsibility to perform work at  
12 the Site and agree not to perform any remedial actions at the Site.

#### 13 VII. PAYMENT

14 Within thirty (30) days of entry of this Consent Decree, Louisiana-Pacific shall  
15 pay the State of Washington the sum of one million dollars (\$1,000,000). Payment shall be  
16 made payable to the "Washington State Department of Ecology," and shall be sent via Federal  
17 Express to:

18 Department of Ecology  
19 ATTN: Gary Zeiler, Fiscal Manager  
20 300 Desmond Drive S.E.  
Lacey, WA 98503-1274

#### 21 VIII. AMENDMENT OF CONSENT DECREE

22 Except for minor modifications and extensions that do not constitute a substantial  
23 change, this Decree may only be amended by a written stipulation among the Department,  
24 Louisiana-Pacific, and W&W that is entered by the Court or by order of the Court. All  
25 amendments shall become effective upon entry by the Court. Agreement to amend shall not be  
26 unreasonably withheld by any signatory to the Decree.



1 The Department, Louisiana-Pacific, and W&W may propose an amendment to the  
2 Decree. If a request for amendment is received, the other signatories shall indicate their  
3 approval or disapproval in a timely manner. If the amendment to the Decree is substantial, the  
4 Department will provide public notice and opportunity for comment. Reasons for the  
5 disapproval shall be stated in writing.

#### 6 IX. COVENANT NOT TO SUE

7 A. Covenant Not to Sue: In consideration of Louisiana-Pacific's or W&W's  
8 compliance with the terms and conditions of this Decree, the Department covenants not to  
9 institute legal or administrative actions against Louisiana-Pacific or W&W regarding the  
10 release or threatened release of hazardous or deleterious substances at the Site. This Decree  
11 covers only the Site. This Decree does not cover any other site and the Department retains all  
12 of its authority relative to any other sites.

13 This Covenant Not to Sue shall have no applicability whatsoever to:

- 14 1. Criminal liability;
- 15 2. Any Department action, including cost recovery, against potentially  
16 liable persons not a party to this Decree.

17 If factors not known at the time of entry of the settlement agreement are discovered and  
18 present a previously unknown threat to human health or the environment, the Court shall  
19 amend this Covenant Not to Sue pursuant to paragraph below.

20 B. Reopeners: The Department specifically reserves the right to institute legal or  
21 administrative action against Louisiana-Pacific or W&W to require either of them to perform  
22 additional remedial actions at the Site and to pursue appropriate cost recovery, pursuant to  
23 RCW 70.105D.050 in the event that new information becomes available regarding factors  
24 previously unknown to the Department and the Department determines, in light of this  
25 information, that remedial action is necessary to address a previously unknown threat to human  
26 health or the environment at the Site, and Louisiana-Pacific or W&W, after notice, fail to take

1 the necessary action within a reasonable time provided by the Department in the notice. The  
2 Department shall make such a determination and issue such notice to Louisiana-Pacific only if  
3 it determines that the previously unknown threat arises from substances sent to the Site by  
4 Louisiana-Pacific. Likewise, the Department shall make such a determination and issue such  
5 notice to W&W only if it determines that the previously unknown threat arises from substances  
6 sent to the Site by W&W. For purposes of this Decree, "factors previously unknown to the  
7 Department," shall mean contamination unknown or undocumented in the administrative  
8 record for the Site or in the List of Covered Substances (Exhibit B to this Decree) at the time of  
9 entry of this Decree. "Factors previously unknown to the Department" shall not include any  
10 new information related to the presence of, extent of, or impacts from or related to Covered  
11 Substances at the Site. "Previously unknown threats to human health or the environment" shall  
12 not include: (i) any threat to any beneficial uses of water (including the use of water for  
13 agricultural or drinking water purposes) from or related to Covered Substances in or around the  
14 Site; (ii) any impediment to development or use of property in or around the Site; (iii) any  
15 increase of remedial action costs beyond levels projected by the Department or any person or  
16 entity who had provided estimates of such costs to the Department prior to entry of this  
17 Decree; or (iv) any failure of the remedy set forth in the CAP to achieve applicable remedial  
18 objectives or other goals. "Covered Substances" shall include those substances listed on  
19 Exhibit B. The Department is specifically aware that wood waste is present at the Site, and  
20 does not pose a threat to human health or the environment.

21 C. Except in the case of an emergency, prior to instituting legal or administrative  
22 action against Louisiana-Pacific or W&W pursuant to paragraph B above, the Department shall  
23 provide them with notice at least fifteen (15) calendar days before such action.

#### 24 X. CONTRIBUTION PROTECTION

25 With regard to claims against Louisiana-Pacific or W&W for Matters Addressed in this  
26 Decree, the Department agrees that Louisiana-Pacific and W&W are entitled to protection

1 | against claims for contribution under RCW 70.105D.080, CERCLA §§ 107 or 113, and any  
2 | other federal or state claim seeking, under other theories, substantially similar relief, to the  
3 | extent allowed by MTCA, RCW 70.105D.040 and CERCLA § 113(f)(2). For the purpose of  
4 | this section, "Matters Addressed" includes all investigative, remedial actions, and other  
5 | response actions at the Site. "Matters Addressed" also includes all investigative and remedial  
6 | actions previously undertaken at the Site to characterize the contamination or to enable the  
7 | selection of a cleanup action, and all oversight costs paid to the Department.

#### 8 | **XI. PUBLIC PARTICIPATION**

9 | The Department shall maintain the responsibility for public participation at the Site.  
10 | Louisiana-Pacific and W&W shall cooperate with the Department and, if requested by the  
11 | Department, may choose to assist the Department.

#### 12 | **XII. EFFECT AND DURATION OF DECREE**

13 | This Decree shall remain in effect with respect to Louisiana-Pacific and W&W until  
14 | they have respectively received written notification from the Department that the requirements  
15 | of this Decree have been satisfactorily completed. The Department shall issue such  
16 | notification within sixty (60) days after the requirements of this Decree have been satisfactorily  
17 | completed. However, Section IX (Covenant Not to Sue) and X (Contribution Protection) shall  
18 | survive and continue in full force and effect.

#### 19 | **XIII. CLAIMS AGAINST THE STATE**

20 | Louisiana-Pacific and W&W agree that they will not seek to recover the sums paid  
21 | under this Decree, from the State of Washington or any of its agencies, except to the extent the  
22 | State and its agencies are potentially liable persons with respect to contamination at the Site.  
23 | Louisiana-Pacific and W&W will make no claim against the State Toxics Control Account or  
24 | any Local Toxics Control Account for any costs incurred in implementing this Decree. Except  
25 | as provided above, Louisiana-Pacific and W&W expressly reserve their right to seek to recover  
26 | any costs incurred with respect to responding to the Site from any other potentially liable

1 person.

2 **XIV. EFFECTIVE DATE**

3 This Decree is effective upon the date it is entered by a final order of the Court.

4 **XV. PUBLIC NOTICE AND WITHDRAWAL OF CONSENT**

5 This Decree has been the subject of public notice and comment under  
6 RCW 70.105D.040(4)(a). As a result of this process, the Department has found that this  
7 Decree will lead to a more expeditious cleanup of hazardous substances at the Site in  
8 compliance with the cleanup standards established under Chapter 173-340 WAC.

9 If the Court withholds or withdraws its consent to this Decree, this Decree shall be null  
10 and void at the option of the Department, Louisiana-Pacific, and W&W and the accompanying  
11 Complaint shall be dismissed against Louisiana-Pacific or W&W without costs and without  
12 prejudice. In such an event, the dismissed party shall not be bound by the requirements of this  
13 Decree.

14 STATE OF WASHINGTON  
15 DEPARTMENT OF ECOLOGY

ROBERT M. MCKENNA  
Attorney General

16 \_\_\_\_\_  
17 JAMES PENDOWSKI  
18 Program Manager  
19 Toxics Cleanup Program  
20 (360) 407-7177

ELLIOTT FURST, WSBA # 12026  
Senior Counsel  
Attorney for State of Washington  
Department of Ecology  
(360) 586-3513

21 Date: \_\_\_\_\_

Date: \_\_\_\_\_

22 LOUISIANA-PACIFIC CORPORATION

WASSER & WINTERS, INC.

23 \_\_\_\_\_  
24 Mike Kinney  
25 Director of Business Relations & Investor Relations  
26 (615) 986-5882

\_\_\_\_\_  
RON BERG  
PHONE NUMBER

Date: 5/14/08

Date: \_\_\_\_\_

1 person.

2 **XIV. EFFECTIVE DATE**

3 This Decree is effective upon the date it is entered by a final order of the Court.

4 **XV. PUBLIC NOTICE AND WITHDRAWAL OF CONSENT**

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8 compliance with the cleanup standards established under Chapter 173-340 WAC.

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10 and void at the option of the Department, Louisiana-Pacific, and W&W and the accompanying  
11 Complaint shall be dismissed against Louisiana-Pacific or W&W without costs and without  
12 prejudice. In such an event, the dismissed party shall not be bound by the requirements of this  
13 Decree.

14 STATE OF WASHINGTON  
15 DEPARTMENT OF ECOLOGY

ROBERT M. MCKENNA  
Attorney General

16 



17 JAMES PENDOWSKI  
18 Program Manager  
19 Toxics Cleanup Program  
20 (360) 407-7177

ELLIOTT FURST, WSBA # 12026  
Senior Counsel  
Attorney for State of Washington  
Department of Ecology  
(360) 586-3513

21 Date: 7/3/08

Date: 7-22-08

22 LOUISIANA-PACIFIC CORPORATION

WASSER & WINTERS, INC.

23 

RON BERG

24 Mike Kinney  
25 Director of Business Relations & Investor Relations  
26 (615) 986-5882

PHONE NUMBER

Date: 5/14/08

Date: \_\_\_\_\_

FOR The State of Washington

Date:

By:

James Pendowski, Program Manager  
Washington Department of Ecology  
Toxics Cleanup Program

Date:


By:

Elliot Furst  
Assistant Attorney General  
Attorney for State of Washington Department  
of Ecology

FOR Louisiana Pacific Corporation

Date:

By:

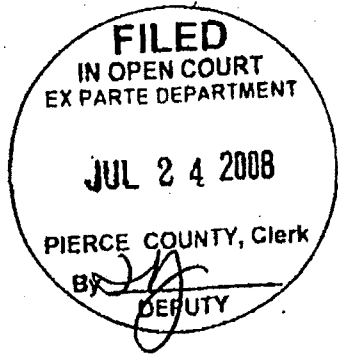
  
For Wasser & Winters Company  
Date: 5-6-08

By: RONALD G. BERG

DATED this \_\_\_\_\_ day of \_\_\_\_\_, 2005.

ENTERED this 24 day of July 2008.

[Signature]  
JUDGE  
Superior Court of Washington  
for Pierce County



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**Exhibit A**  
**Cleanup Action Plan**

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1  
2 **Exhibit B**

3 **Covered Substances**

4 Remedial and Pre-remedial Investigations

5 Early work at B&L Landfill included investigation of the following substances:

- 6 A. Wood, wood debris, bark, total volatile solids, total organic carbon, and grain size.  
7 B. Methane and hydrogen sulfide gases  
8 C. EPA's Target Analyte List of volatile and semi-volatile organic compounds, PCBs  
9 and pesticides, and metals (see list below)  
10 D. Total petroleum hydrocarbons  
11 E. EP-Tox and TCLP testing characterization of the landfill solids  
12 F. EP-Tox, TCLP, and assay results (MSDS) for Asarco's copper slag.  
13 G. General water quality parameters including specific conductance, redox, dissolved  
14 oxygen, major cations and anions, hardness, nitrate, nitrite, ammonia, sulfate,  
sulfide, total dissolved solids, total suspended solids, total organic carbon, total  
dissolved carbon, and turbidity.

15 These studies resulted in the following being known substances and/or conditions:

- 16 A. Asarco slag  
17 B. Bark, deck debris, wood debris, and related materials  
18 C. Landfill gases  
19 D. Landfill leachate  
20 E. EPA's Target Analyte List of volatile and semi-volatile organic compounds, PCBs  
and pesticides, and metals (see list below)  
21 F. Groundwater and surface water quality  
22 G. Soil, refuse, and ditch sediment quality]

22 **Metals**

23 The metals that have been analyzed for in environmental sampling at B&L Landfill include the  
24 following:

25 aluminum	barium	chromium (VI)	lead	selenium
antimony	beryllium	cobalt	magnesium	silver
26 arsenic	cadmium	copper	manganese	sodium
arsenic (III)	calcium	iron	mercury	thallium

1	dimethylarsenic acid (DMA)	chlorobromomethane
	dissolved organic carbon (DOC)	chlorodibromomethane
2	dissolved oxygen (DO)	chloroethane
	fluoride	chloroform
3	eH	chloromethane
	grain size	cis-1,2-dichloroethene
4	hardness	cis-1,3-dichloropropene
	major anions	dibromochloromethane
5	major cations	dibromomethane
	monomethylarsenic acid (MMA)	dichlorobromomethane
6	nitrate	dichlorodifluoromethane
	nitrite	ethylbenzene
7	oxidation-reduction potential (ORP)	ethylene dibromide
	percent moisture	hexachlorobutadiene
8	pH	isopropylbenzene
	phosphorus and radicals thereof	methylene chloride
9	redox	m-xylene & p-xylene
	salinity	naphthalene
10	soil pH	n-butylbenzene
	specific conductance	n-propylbenzene
11	sulfate	o-xylene
	temperature	sec-butylbenzene
12	texture	styrene
	total dissolved solids (TDS)	tert-butylbenzene
13	total organic carbon (TOC)	tetrachloroethene
	total suspended solids	toluene
14	total volatile solids (TVS)	total 1,2-dichloroethene
	turbidity	total xylenes
15		trans-1,2-dichloroethene
	<b>Metals and metalloids</b>	trans-1,3-dichloropropene
16	aluminum	trichloroethene
	antimony	trichlorofluoromethane
17	arsenic	vinyl acetate
	arsenic (III)	vinyl chloride
18	arsenic (V)	
	barium	<b>Semivolatile Organic Compounds (SVOCs)</b>
19	beryllium	semivolatile organic compounds — EPA 8270
	cadmium	1,2,4-trichlorobenzene
20	calcium	1,2-dichlorobenzene
	chromium	1,3-dichlorobenzene
21	chromium (VI)	1,4-dichlorobenzene
	cobalt	1-methylnaphthalene
22	copper	2,3,4,6-tetrachlorophenol
	iron	2,4,5-trichlorophenol
23	iron (II)	2,4,6-trichlorophenol
	iron (III)	2,4-dichlorophenol
24	lead	2,4-dimethylphenol
	magnesium	2,4-dinitrophenol
25	manganese	2,4-dinitrotoluene
	mercury	2,6-dichlorophenol
26	nickel	2,6-dinitrotoluene

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nitrobenzene  
n-nitrosodimethylamine  
n-nitroso-di-n-propylamine  
n-nitrosodiphenylamine  
pentachlorophenol  
phenanthrene  
phenol  
pyrene  
pyridine  
siophorone