

Appendix A

Economic Impact of Asarco on the El Paso Economy

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Overview

The Institute for Policy and Economic Development at the University of Texas at El Paso was contracted by Asarco to conduct an economic impact analysis limited solely to its activities in the region should they renew copper smelting operations. The copper smelter is currently in the process of renewing its operating permits by the Texas Commission on Environmental Quality and has been on temporary shutdown status since 1999.

Asarco's economic presence in the region during operation was substantial, having invested nearly \$100 million in the copper smelter to build and implement new technology in 1992, earning it recognition as EPA's maximum available control technology for copper smelters in the United States. The technology, known as ConTop, increased production to 150,000 pounds of copper annually while reducing air emissions by more than 90%. Contop is the only copper smelter of its kind in the United States.

The current analysis requested by Asarco finds that if Asarco were to reopen and employ the 291 individuals regional economic output would increase by \$1.159 billion, 1,819 new jobs would be created, and 73 million dollars in new labor income would be generated.¹

What is an Impact Study Based on Input-Output Tables?

Input-output (I-O) analysis, in its simplest form, is made possible by two models—one descriptive and one predictive. Input-output tables are, simply, tabular representations of the inner workings of a given economy. The tables provide a means of tracking what one industry buys from another to produce its goods. These transactions are based on the idea of economic interdependence, that industries rely upon one another through purchases from and sales to other industries.² An auto manufacturer, for example, must purchase x units of steel to produce y engine blocks; and, the steel producer must in turn buy w units of fuel to heat the ovens that help produce x units of steel.

The extent to which industries rely upon one another is captured by the descriptive model. The tables within the descriptive model provide detailed information by industry and commodity on everything from employment and earnings (value added) to business volume (output). The predictive model comes into play when some change (typically in final demand or consumption) is applied to an economy. The “ripple effects” of one industry purchasing from another to meet the new demand are captured as “rounds” until the amounts purchased

become so small that they are considered insignificant. The sum of the rounds is then added to the original change for a total economic impact.

The multipliers are also provided by the predictive model, and depending on the application, several types of regional multipliers are available. Although they differ in how data are regionalized, most impact studies dealing with a project such as this choose one of three commercially available impact programs. These include; REMI, an acronym for Regional Economic Models, Inc; RIMS II, the Bureau of Economic Analysis' (BEA) Regional Industrial Modeling System, version two; and, IMPLAN, produced by the Minnesota IMPLAN Group (MIG). While any of the three could have been used for this study, IMPLAN was selected because its multipliers more accurately depict local economies than RIMS II (and are generally more conservative)³ due to a more efficient regionalization process.

How to Interpret an Impact Study

The impact of any change in final demand to an economy of interest is divided into three components by IMPLAN. These are termed direct, indirect, and induced effects. Direct effects refer to the initial and more observable change in final demand; a one million dollar construction project entered into the appropriate I-O industry would show a direct impact of one million dollars. The indirect effect can be best thought of as the ripple effect of increased production by businesses that supply goods to the construction project. Induced effects are household effects, which generally mean that due to the initial shock households will have more (or less) income to spend on things like eating out or medical care.

In addition to changes in output/final demand, tabular impacts are also provided for employment, and labor income. Employment impacts are the total number of jobs created, while labor income includes employee compensation and proprietors' income. Property and sales taxes can also be measured and these results are provided in the Appendix.

It should also be noted that all impact estimates are in 2004 dollars and are deflated from the current year or the year of the expected impact if different from the model year. Detailed industry tables for each of the impacts, including detailed tax impacts, are can be obtained from Asarco representatives.

Findings

Data for this economic impact analysis were obtained from Asarco and were based solely on projected expenses associated with a startup plan. Information in the startup plan included detailed expenditures for wages, labor representation, fringe benefits, fuel, utilities, and a variety of technical services necessary for ongoing operation. In impact analysis, however, many of the necessary inputs are captured by the model. As such, the anticipated 291 employees with an adjusted average wage matched to Asarco's planned spending were the only direct input to the model.

Despite this, Asarco's economic impact in the region is still substantial, as the 291 employees would create a total of 1,819 jobs regionwide--or over 6.25 additional jobs per direct Asarco job, increase regional economic output by \$1.159 billion, and increase labor income in the region by over \$73.9 million. Labor income, in addition to jobs, is among the more important measures of an economic impact as it includes wages earned by individuals working for others and for themselves (sole proprietors/personal business owners).

El Paso	Direct	Indirect	Induced	Total
Output	\$917,448,512	\$202,110,982	\$40,390,284	\$1,159,949,788
Employment	291	1,091.70	436.6	1,819.30
Labor Income	\$20,544,832	\$41,204,197	\$12,187,713	\$73,936,742
All values in 2004 dollars				

The Texas Commission on Environmental Quality's Executive Director has concluded, according to Asarco, that when operating according to its permit, the copper smelter will not cause or contribute to a condition of air pollution or pose a health threat to the community. However, the existing set of research on pollution and air quality also suggests that potential economic growth should be balanced against quality of life concerns,⁴ where quality of life includes, among other things, air quality, health,⁵ and a vast set of other amenities that may be influenced by heavy manufacturing operations. Even if the case is assumed where no health impacts arise, quality of life amenities also include the clarity of a skyline, smell, all of which have economic value.⁶ Measuring these impacts goes well beyond the scope of this report and the analysis requested by Asarco.

Conclusions

The impacts to the El Paso region should Asarco reopen are substantial. Clearly, the employment impact of over 6 new jobs for every one job created by Asarco is in itself attractive. Add to this large increases in regional economic output and the increase in labor income and many would argue that the net benefit of Asarco in the region could only be a net benefit. However, public sentiment is likely to ask that the total economic impact gains be balanced against the amenity loss from renewed operations. In time, Asarco should be aware that a complete analysis should be conducted that weighs these costs against what are clearly strong economic impacts otherwise.

¹ The impacts reported do not incorporate any potential environmental costs arising from renewed operations.

² Leontief, Wassily. (1936). "Quantitative Input-Output Relations in the Economic System of the United States." *The Review of Economics and Statistics*. 21, 105-125.

Miller, Ronald E. and Peter Blair. (1985). *Input-Output Analysis: Foundations and Extensions*. New Jersey: Prentice Hall.

Miernyk, William. (1965). *The Elements of Input-Output Analysis*. New York: Random House.

³ Rickman, Dan S. and Keith Schwer. (1995). "A comparison of the multipliers of IMPLAN, REMI, and RIMS II: Benchmarking ready-made models for comparison." *The Annals of Regional Science*. 29, 363-374.

Lindall, Scot and Doug Olson. (2000). *IMPLAN Pro Version 2.0 Analysis Guide*. Stillwater MN, MIG. pp. 169-172.

⁴ Abel, F. H. (1975), 'Balancing Environmental Quality, Energy Use, and Growth: Difficult Decisions', *American Journal of Agricultural Economics* 57(5), 815--818.

Johnson, M. H. & Bennett, J. T. (1979), 'An Input-Output Model of Regional Environmental and Economic Impacts of Nuclear Power Plants', *Land Economics* 55(2), 236--252.

Ryan, D. R. (1983), 'Transferable Discharge Permits and the Control of Stationary Source Air Pollution: Reply', *Land Economics* 59(1), 126--127.

⁵ Bates, D. V. (1995), 'The Effects of Air Pollution on Children', *Environmental Health Perspectives* 103, 49--53.

Bell, M. L.; Davis, D.; Cifuentes, L.; Cohen, A.; Gouveia, N.; Grant, L.; Green, C.; Johnson, T.; Rogat, J.; Spengler, J. & Thurston, G. (2002), 'International Expert Workshop on the Analysis of the Economic and Public Health Impacts of Air Pollution: Workshop Summary', *Environmental Health Perspectives* 110(11), 1163--1168.

⁶ Hanemann, W. M. (1994), 'Valuing the Environment Through Contingent Valuation', *The Journal of Economic Perspectives* 8(4), 19--43.

Portney, P. R. (1994), 'The Contingent Valuation Debate: Why Economists Should Care', *The Journal of Economic Perspectives* 8(4), 3--17.

Appendix B

Smelter Comparisons

Company	Location	Nearest MSA & Distance (miles)	Type	Year Closed	Reason for closure
Phelps Dodge	Ajo, AZ	Phoenix-Mesa, AZ (111)	copper	1985	\$5M for required pollution-control equipment
ASARCO	Hayden, AZ	Tucson, AZ (68.9)	copper	NA	
Phelps Dodge	Douglas, AZ	Tucson, AZ (120)	copper	1987	pressure from State environmental groups
Doe Run	Herculaneum, MO	St. Louis, MO--IL (32)	copper	NA	
Anaconda Company	Anaconda, MT		copper	1980	decline of industry
Doe Run	Annapolis, MO	St. Louis, MO--IL (88.9)	lead	2003	decline of industry
ASARCO	Ruston, WA	Tacoma, WA (5.1)	copper	1985	decline of industry
Chemetco	Hartford, IL	St. Louis, MO--IL (25.6)	copper	2002	ordered by state EPA director
Kennecot Utah Copper	Magna, UT	Salt Lake City-Ogden, UT (15)	copper	NA	
ASARCO	El Paso, TX	El Paso, TX (0)	copper	1999	decline of industry

Company	Location	Population		Median Household Income		Poverty (1999)	High School Graduates		Bachelor's Degree	
		1990	2000	1990	2000		1990	2000	1990	2000
Phelps Dodge	Ajo, AZ	2,919	3,705	\$16,302	\$25,618	22.3%	56.2%	72.1%	10.5%	12.7%
ASARCO	Hayden, AZ	909	892	\$17,284	\$24,293	27.3%	59.0%	66.6%	2.5%	3.5%
Phelps Dodge	Douglas, AZ	12,822	14,312	\$14,994	\$20,567	36.6%	48.1%	54.8%	9.5%	9.2%
Doe Run	Herculaneum, MO	2,263	2,805	\$32,567	\$40,365	5.7%	65.7%	72.9%	6.1%	14.2%
Anaconda Company	Anaconda, MT	10,278	9,417	\$20,281	\$26,305	15.8%	74.5%	84.5%	11.5%	14.7%
Doe Run	Annapolis, MO	363	310	\$15,417	\$16,389	22.1%	55.6%	65.7%	5.0%	12.3%
ASARCO	Ruston, WA	693	738	\$27,500	\$48,393	13.1%	77.6%	87.5%	11.2%	23.2%
Chemetco	Hartford, IL	1,676	1,545	\$25,515	\$33,828	13.0%	66.2%	77.4%	1.8%	3.1%
Kennecot Utah Copper	Magna, UT	17,829	22,770	\$27,691	\$42,845	7.6%	77.0%	76.7%	8.0%	9.6%
ASARCO	El Paso, TX	515,342	563,662	\$23,460	\$31,051	23.8%	65.3%	65.8%	16.2%	16.6%

NA – Smelter still in operation
Source: U.S. Bureau of the Census

Appendix C

Sample and Census Comparisons

This sample size and consequent small margin of error affords a high level of survey precision and reflects population characteristics of El Paso when compared to Census data, as depicted in Table C.1. Survey results mirror literature review that reveals that survey respondents tend to share similar demographic and socioeconomic characteristics regardless of survey subject or type.¹ In general, participation rates have been positively associated with educational attainment and income level. Gender has also proven to be strong a predictor of participation, with respondents more often female than male.² Age and ethnicity have also been examined as potential explanatory variables for participation, however no clear, weak or varying relationships have been reported.

Table C.1
Demographics Comparison Between 2005 Census and Survey Respondents

Gender (≥ 18 years) (%)	Census	Survey
Male	46.0	34.3
Female	54.0	65.7
Total	100.0	100.0

Household Income (%)	Census	Survey
Less than \$10,000	14.7	13.3
\$10,000 to \$50,000	55.0	51.1
\$50,000 to \$100,000	23.1	26.2
Over \$100,000	7.1	9.4
Total Households	100.0	100.0

Ethnicity (%)	Census	Survey
Hispanic	81.7	76.5
Caucasian	14.1	16.4
African American	2.3	2.2
Asian	1.0	0.3
Other	1.0	4.5
Total	100.0	100.0

Age (%)	Census	Survey
18 to 19 years	4.7	2.9
20 to 24 years	11.2	6.0
25 to 34 years	18.6	15.1
35 to 44 years	19.7	21.3
45 to 54 years	18.7	21.5
55 to 59 years	7.0	8.8
60 to 64 years	5.1	8.6
65 to 74 years	8.1	10.1
75 to 84 years	5.4	4.7
85 years and over	1.4	1.0
Total	100.0	100.0

Education (≥ 25 years) (%)	Census	Survey
Less than 9th grade	19.6	11.9
9th to 12th, no diploma	12.9	8.6
High school graduate	24.1	18.6
Some college, no degree	20.1	20.2
Associate's degree	6.2	9.4
Bachelor's degree	11.5	19.5
Graduate or professional degree	5.6	11.7
Total	100.0	100.0

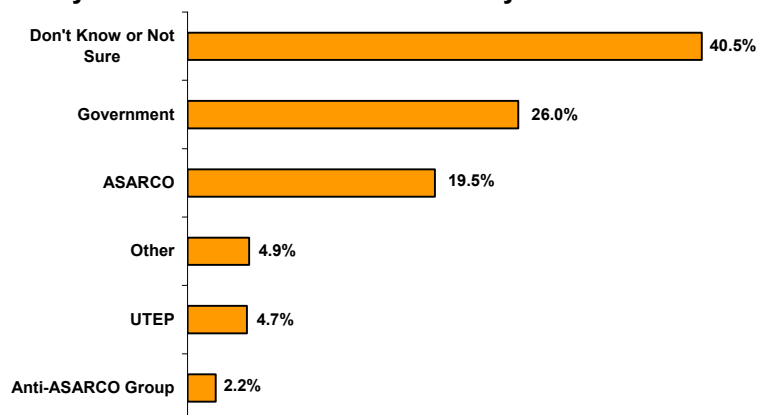
Using another validity check, respondents were also asked to comment on who they thought commissioned the study. Shown in Table C.1, we see that two-fifths were not sure or undecided between

¹ Rebecca Gray, *et al.* 1996, "Exploring Survey Non-Response: The Effect of Attrition on a Follow-Up of the 1984-85 Health and Life Style Survey," *The Statistician* 45(2), 163-183; K. Korkeila, *et al.* 2001, "Non-Response and Related Factors in a Nation-Wide Health Survey," *European Journal of Epidemiology* 7(11), 991-999; Ingvar Lundberg, *et al.* 2005, "Determinants of non-participation, and the effects of non-participation on potential cause-effect relationships, in the PART study on mental disorders," *Social Psychiatry and Psychiatric Epidemiology* 40(6) 475-483; Michael J. O'Neil. 1979, "Estimating the Nonresponse Bias Due to Refusals in Telephone Surveys," *The Public Opinion Quarterly* 43(2), 218-232.

² The final sample does have women more proportionally than men. This occurs in part because random digit dialing occurs during the day and women are more likely to be at home if they are professional homemakers. To insure that the greater proportion of women did not bias the study, a weighted sample was developed that reflected the most current Bureau of Census records. The results of the weighted sample suggest that the final sample is representative and response categories are not significantly affected as a result of any gender bias.

parties that contracted IPED. One sign of potential bias is if participants overwhelmingly believe that a particular party is conducting the study based on survey content. That is, they believe a particular party is behind a study because they believe the questions are asked in such a manner as to sway the results. That said, we also see in Table C.1 that 26 percent and 19.5 percent of respondents believed that government and ASARCO, respectively, commissioned the study. From these results we believe that the research design was successful at gauging unbiased answers.

Table C.1
Who do you think contracted the University to conduct this study?



Appendix D

Household RDD Telephone Survey for El Paso, TX and Sunland Park, NM

ASARCO Opinion Survey -- Main Interview Questionnaire

Hello, May I speak to the head of household or someone over the age of 18? Hello, I'm (YOUR NAME) from the Institute for Policy and Economic Development, a research unit at UTEP. We are conducting a short survey (if they ask 9 minutes) that asks people about their opinions on various issues. This survey is completely voluntary. If we come to any questions you don't want to answer, just let me know and we will go on to the next one. Would you like to participate?

Interviewer name: _____

Interview date and time stamp: _____

1. The El Paso region has a number of challenges, none of which can be solved easily or inexpensively. I am going to name some of these problems, and for each one I'd like for you to tell me whether you think we should spend a great deal more, somewhat more, the same, somewhat less, or a great deal less money than we are spending now:

Item	Great deal more	Somewhat more	Same amount	Somewhat less	Great deal less	Not sure
Improving public education	1	2	3	4	5	8
Fighting crime	1	2	3	4	5	8
Protecting the environment	1	2	3	4	5	8
Border security issues	1	2	3	4	5	8
Public health	1	2	3	4	5	8
Creating jobs	1	2	3	4	5	8

2. Thinking about major environmental issues in the El Paso region caused by humans, tell me what immediately comes to mind.

3. How important to you personally are each of the following goals? I am going to name several, and for each one I'd like for you to tell me whether you think that it is extremely

important to you, very important, somewhat important, not too important, or not important at all.

Item	Extremely important	Very important	Somewhat important	Not too important	Not at all important	Not sure
Reducing air pollution in cities	1	2	3	4	5	8
Dealing w/ immigration issues & reform	1	2	3	4	5	8
Reducing taxes	1	2	3	4	5	8
Improving graduation rates	1	2	3	4	5	8
Better paying jobs	1	2	3	4	5	8
Ethical government	1	2	3	4	5	8

4. Are you aware of the ASARCO facility in El Paso?
 - a. Yes (Go to 5)
 - b. No (Go to SCRIPT)
5. Have you read or heard about ASARCO trying to renew its air permit to renew operations in El Paso?
 - a. Yes (Go to 6)
 - b. No (Go to 9)
 - c. Not sure (Go to 6)
6. How would you describe your understanding of the process that ASARCO must go through to renew its air permit?
 - a. Very well
 - b. Moderately well
 - c. Slightly
 - d. Not at all
7. Would you say that you have followed this permit renewal process:
 - a. Very closely

- b. Somewhat closely
- c. Not too closely
- d. Not at all
- e. NOT SURE

8. Where do you get your information on ASARCO? (all that apply)

- a. Newspaper
- b. Television
- c. Radio
- d. Internet
- e. Friends and relatives
- f. Elected officials
- g. Other (specify)_____

9. The next question deals with how much trust you have in different information sources on ASARCO. I am going to name several, and for each one I'd like for you to tell me whether you have a great deal of trust, some trust, not much trust, or no trust.

Source	A great deal	Some	Not much	None	Not sure
Newspaper	1	2	3	4	8
Television	1	2	3	4	8
Radio	1	2	3	4	8
Internet	1	2	3	4	8
Friends and relatives	1	2	3	4	8
Elected officials	1	2	3	4	8
ASARCO advertisements	1	2	3	4	8

10. Who do you think has the best ability to decide if ASARCO reopens?

- a. Elected officials
- b. Government experts
- c. Non-governmental experts
- d. General public

e. Other (specify) _____

11. Do you think there are potential impacts, either positive or negative, of ASARCO reopening?

a. Yes (Go to 12)

b. No (Go to SCRIPT)

12. What are they?

{Interviewer: Now I'm going to read to you some information about ASARCO and then ask you some questions}

Information:

In 2002 ASARCO began the process of renewing its air permit through the Texas Commission on Environmental Quality, also known as TCEQ. Since then, parties on both sides have been involved in a series of legal debates. At issue are the potential health impacts and ASARCO's ability to achieve compliance with environmental standards. In May of 2007, TCEQ issued a report that would give ASARCO permission to reopen provided it addresses various shortcomings at the plant.

As background you should know that in 1996, ASARCO completed an upgrade to its copper smelting process that reduced sulfur dioxide emissions from 49,200 tons per year to less than 6,700 tons per year when it closed in 1999. TCEQ also notes that ASARCO reopening would increase emissions to higher levels in the region compared to being shut down.

We are conducting a survey to find out how much people in the region value the environment. One way to do this is to measure how much individuals are Willing To Pay as part of a government-sponsored program to keep ASARCO from re-opening.

Under this program, the City of El Paso would purchase the current site from ASARCO and redevelop the land for public use. The cost of buying the land plus the cost of redevelopment would be passed on to taxpayers. Given the potential size of the project, municipal bonds would have to be the primary financing vehicle and would be paid off over 10 years. As a taxpayer we will be asking you in the following questions if you would be Willing To Pay for this program through a simple vote.

Those who vote FOR the program believe it is worth the money to prevent the potential damage to the environment if ASARCO reopens, believe that other businesses may not come to El Paso if ASARCO reopens, or believe that current businesses may leave El Paso if ASARCO reopens.

Those who vote AGAINST the proposal believe the program is more than they can afford, believe they would be left with less money for more important things, believe there would be no effect on current or potential businesses, or believe that there are not serious enough environmental impacts associated with ASARCO reopening.

13. Does this information make sense to you? Yes (Go to 14, 15 or 16 ; if No, continue to ask and clarify until the Script makes sense to them then proceed to 14, 15 or 16).
14. What if the final cost estimates showed that the program would cost your household a total of \$20 per month? Would you vote for or against the program?
- a. For (Go to 19)
 - b. Against (Go to 17)
 - c. Not sure (Go to 18)
15. What if the final cost estimates showed that the program would cost your household a total of \$10 per month? Would you vote for or against the program?
- a. For (Go to 19)
 - b. Against (Go to 17)
 - c. Not sure (Go to 18)
16. What if the final cost estimates showed that the program would cost your household a total of \$40 per month? Would you vote for or against the program?
- a. For (Go to 19)
 - b. Against (Go to 17)
 - c. Not sure (Go to 18)
17. When you voted against the program, what was it that kept you from paying to keep Asarco closed?
- a. Can't afford it (Go to 20)
 - b. It isn't worth paying money to prevent (Go to 20)
 - c. There would be no effect on current or potential businesses (Go to 20)
 - d. Other reason (Specify)_____ (Go to 20)
18. Can you tell me why you aren't sure about paying to keep ASARCO from reopening? (Go to 21)
- a. Indifference between yes and no (Go to 21)
 - b. Inability to make decision without more information (Go to 21)
 - c. Preference for some other mechanism for making this decision (Go to 21)

- d. Bored by this survey and anxious to end it as quickly as possible (Go to 21)
 - e. Other (Specify)_____ (Go to 21)
19. When you voted for the program, what was it about keeping ASARCO from reopening that made you Willing To Pay for it?
- a. Worth money to prevent the potential damage to the environment (Go to 20)
 - b. Other businesses may not come to El Paso if ASARCO reopens (Go to 20)
 - c. Current businesses may leave El Paso if ASARCO reopens (Go to 20)
 - d. Other (Specify)_____ (Go to 20)
20. When you decided to vote for or against the program, did you consider possible damage to the region from pollution?
- a. Yes
 - b. No
21. In the next ten years, if ASARCO reopens what do you think the consequences for the environment will be?
- a. No damage
 - b. More damage
 - c. Less damage
 - d. Not sure
22. On a scale of 1 to 5, where 1 is strongly disagree and 5 is strongly agree; please tell us your opinion about the following statements:
- a. The growth of the economy should be the only consideration in deciding what to do with the environment.
- | | | | | |
|-------------------|----------|---------|-------|----------------|
| Strongly disagree | Disagree | Neutral | Agree | Strongly agree |
| 1 | 2 | 3 | 4 | 5 |
- b. The growth of the economy should be the most important--but not the only--consideration in deciding what to do with the environment.

Strongly disagree	Disagree	Neutral	Agree	Strongly agree
1	2	3	4	5

- c. Protection of the environment and growth of the economy should be given equal consideration in deciding what to do with the environment.

Strongly disagree	Disagree	Neutral	Agree	Strongly agree
1	2	3	4	5

- d. Protection of the environment should be the most important, but not the only, consideration in deciding what to do with the environment.

Strongly disagree	Disagree	Neutral	Agree	Strongly agree
1	2	3	4	5

- e. The only consideration in the growth of the economy should be protection of the environment.

Strongly disagree	Disagree	Neutral	Agree	Strongly agree
1	2	3	4	5

23. How far do you live from ASARCO, which is just across I-10 from UTEP?

- a. Within 2 miles (Kern Place, Mesita, Smelter town)
- b. 2 to 5 miles (Sunland Park Mall to roughly the North Mesa Exit on I-10 or Downtown)
- c. 5 to 10 miles (Redd Road or Bassett Place/Thomason Hospital)
- d. Greater than 10 miles (Beyond Trans Mountain or Beyond Lomaland and I-10).

24. What year were you born? Year _____

25. What was the last formal education you completed:

- a. Did not attend high school

- b. Some high school
- c. High school graduate
- d. Vocational training
- e. Some college
- f. Associate's degree
- g. Bachelor's degree
- h. Postgraduate (Masters, Law degree, Doctorate)
- i. Other

26. How many children or young people under 18 live in your household? _____

27. Which of the following best describes total gross income from all members of your household before taxes for the year 2006? Please include all sources such as wages, salaries, income from business, interest on savings accounts, Social Security or other retirement benefits, child support, public assistance, and so forth.

- a. \$0-\$10,000
- b. \$10,001-\$20,000
- c. \$20,001-\$30,000
- d. \$30,001-\$40,000
- e. \$40,001-\$50,000
- f. \$50,001-\$60,000
- g. \$60,001-\$70,000
- h. \$70,001-\$80,000
- i. \$80,001-\$90,000
- j. \$90,001-\$100,000
- k. Over \$100,001

28. Do you own your own business?

- a. Yes (go to 29)
- b. No (go to 30)

29. Would the reopening of ASARCO have a positive or negative impact on your business?

- a. Positive
- b. Negative
- c. No Impact
- d. Unsure

30. Ethnicity

- a. Hispanic
- b. Caucasian
- c. African American
- d. Asian
- e. Other

31. Zip code _____

32. How long have you been a resident of El Paso or Sunland? _____ (Years)

_____ Months (only enter month if respondent answers in months)

33. Gender (interviewer record or ask)

- a. Male
- b. Female

34. Who do you think contracted the University to conduct this study?

35. What made you think that?

36. Are you in favor of Asarco reopening?

- a. Yes
- b. No
- c. Unsure

Thank you very much for your time.

37. End timestamp

Appendix E

Household In-person Survey in Spanish for Ciudad Juárez, MX

Encuesta de opinión sobre ASARCO

Hola, soy (SU NOMBRE) del Instituto de Política y Desarrollo Económico, una unidad de investigación de La Universidad de Texas en El Paso. Estamos llevando a cabo una encuesta corta (que le tomará alrededor de 9 minutos de su tiempo si preguntan) que busca su opinión acerca de diversos temas. Esta encuesta es voluntaria. Si hacemos una pregunta a la cual no desee responder, solo dígame y seguiremos con la próxima pregunta. ¿Le gustaría participar?

Dirección; _____

Ageb: _____

Nombre del encuestador:

Día y la hora del levantamiento de la encuesta: _____

1. Ciudad Juárez tiene un sinnúmero de retos, los cuales no pueden resolverse fácilmente o a un costo bajo. Le voy a nombrar algunos de estos retos y al mencionar cada uno me gustaría que me dijera si considera que deberíamos gastar mucho más dinero, solo un poco más, la misma cantidad, un poco menos ó significativamente menos dinero de lo que se gasta actualmente:

Asunto	Mucho más	Un poco más	La misma cantidad	Un poco menos	Mucho menos	No seguro
Mejoramiento de Educación Pública	1	2	3	4	5	8
Mejoramiento de la Seguridad Pública	1	2	3	4	5	8
Protección Medio Ambiente	1	2	3	4	5	8
Ampliación de los Servicios de Salud Pública	1	2	3	4	5	8
Construcción de Espacios Deportivos	1	2	3	4	5	8
Mejoramiento y Ampliación de Servicios Públicos	1	2	3	4	5	8
Generación de Empleos mejor pagados	1	2	3	4	5	8

2. Cuales son los principales impactos en el medio ambiente en Cd. Juárez que son causados por las personas, dígame ¿Qué es lo primero que le viene a la mente?

3. ¿Qué tan importantes son para usted las siguientes metas? Le voy a nombrar algunas y por cada una me gustaría que me dijera si considera que son extremadamente importantes, muy importantes, algo importantes, no muy importantes ó sin importancia.

Asunto	Extremada mente Importante	Muy Importante	Importante	No muy Importante	Sin Importancia	No seguro
Mejorar la infraestructura de la ciudad	1	2	3	4	5	8
Congestionamiento vehicular	1	2	3	4	5	8
Reducción de la contaminación del aire	1	2	3	4	5	8
Espacios deportivos para jóvenes	1	2	3	4	5	8
Reducir el consumo de drogas	1	2	3	4	5	8
Transparencia y Rendición de cuentas por el gobierno	1	2	3	4	5	8

4. ¿Sabe usted de la existencia de ASARCO en El Paso?

- a) Si (Pase al No. 5)
- b) No (Pase al párrafo de lectura)

5. ¿Ha leído o escuchado que ASARCO está tratando de renovar su permiso para reanudar sus operaciones en El Paso?

- a) Si (Pase al No. 6)
- b) No (Pase al No. 9)
- c) No estoy seguro(a) (Pase al No. 6)

6. ¿Entiende usted el proceso por el que ASARCO debe de pasar para renovar su permiso?

- a) Muy bien
- b) Moderadamente bien

- c) Más o menos
- d) Para nada
7. ¿Me podría decir si usted ha seguido el proceso que ha tomado ASARCO para renovar su permiso?:
- a) Muy de cerca
- b) Más o menos de cerca
- c) No muy de cerca
- d) No lo he seguido
- e) No estoy seguro(a)
8. ¿En que medio de comunicación ha escuchado sobre ASARCO?
- a) Periódico
- b) Televisión
- c) Radio
- d) Internet
- e) Amigos y familiares
- f) Funcionarios públicos
- g) Otro (especifique) _____

9. La siguiente pregunta tiene que ver con la confianza que usted tiene en las diferentes fuentes de información con respecto a ASARCO. Le voy a nombrar algunas y por cada una me gustaría que me dijera si tiene absoluta confianza, algo de confianza, no mucha confianza ó desconfianza en cuanto a la información que se le proporciona.

Medio	Absoluta confianza	Algo de confianza	No mucha confianza	Desconfianza	No estoy seguro(a)
Periódico	1	2	3	4	5
Televisión	1	2	3	4	5
Radio	1	2	3	4	5
Internet	1	2	3	4	5
Amigos y Familiares	1	2	3	4	5
Funcionarios públicos	1	2	3	4	5
Publicidad de ASARCO	1	2	3	4	5

10. ¿Quién cree usted que tiene el poder de decidir si la planta ASARCO reanuda sus operaciones?

- a) Funcionarios públicos
- b) Expertos del gobierno
- c) Expertos de las organizaciones no gubernamentales
- d) Público en general
- e) Otro (especifique) _____

11. ¿Cree usted que habrá impactos potenciales, ya sean positivos o negativos si la planta ASARCO reanuda operaciones?

- a) Si (Pase al No. 12)
- b) No (Pase al párrafo de lectura)

12. ¿Cuáles serían?

(Entrevistador: A continuación voy a leerle algo de información sobre ASARCO y luego le haré unas preguntas)

Información:

En el 2002, ASARCO comenzó el proceso de renovación de su permiso a través de la Comisión de Calidad Ambiental de Texas, también conocida como TCEQ por sus siglas en inglés. Desde entonces, ambas partes han estado envueltas en una serie de batallas legales. En cuestión, está el impacto potencial en la salud y la posibilidad de ASARCO de cumplir con los requisitos conforme a las normas que regulan el medio ambiente. En mayo del 2007, TCEQ dio a conocer un reporte en el cual autoriza a ASARCO a reanudar operaciones, siempre y cuando modernice la planta.

Como antecedente, en 1996, ASARCO concluyó la actualización a su proceso de fundición de cobre que redujo la emisión de dióxido de sulfuro de 49,200 toneladas por año a menos de 6,700 toneladas por año cuando cerró sus puertas en 1999. Sin embargo, TCEQ también menciona que la reapertura de ASARCO incrementaría el número de emisiones en la región en comparación a que la planta permanezca cerrada.

Estamos llevando a cabo esta encuesta para saber que tanto valoran las personas el medio ambiente en la región. Una forma de hacerlo es evaluando que tanto están dispuestas a pagar las personas para evitar que ASARCO reanude operaciones.

Existe una propuesta del Fondo de Defensa Legal en Contra de ASARCO (FDLA) la cual va a ser creada como una organización de la sociedad civil. FDLA representaría a los ciudadanos mexicanos en acciones legales que podrían mantener ASARCO cerrada. La defensa legal se basará en que la contaminación causada por la fundición de cobre a lo largo de la frontera viola Los Acuerdos de La Paz firmados por Estados Unidos y México en 1983, los cuales prohíben la degradación ambiental dentro de sesenta millas de la frontera internacional. El costo de la defensa legal será pagada en parte por el sector público, privado y los ciudadanos de Ciudad Juárez. La batalla legal podrá tomar hasta un periodo de 10 años.

Los que voten en contra de la propuesta creen que vale la pena pagar para prevenir el daño potencial que ASARCO causaría al medio ambiente si reabre, creen que nuevas empresas no vendrían a Ciudad Juárez si ASARCO reabre o creen que empresas que actualmente están en Ciudad Juárez se irían de la ciudad si ASARCO reanuda operaciones.

Los que voten a favor de la propuesta creen que la iniciativa está fuera de sus posibilidades económicas, creen que tendrían menos dinero para cosas importantes, creen que la reapertura de ASARCO no tendría ningún efecto en las empresas que actualmente están en Ciudad Juárez o en las empresas que estén considerando venir a la ciudad, o creen que la reanudación de operaciones de ASARCO no tendría ningún impacto potencial en el medio ambiente.

13. ¿Tiene sentido para usted esta información? Si (Pase al No. 14, 15 o 16 ; si No clarifique, luego pase al No. 14, 15 o 16)

14. ¿Qué pasaría si para apoyar la propuesta le correspondiera pagar \$17 pesos por mes?
¿Votaría a favor o en contra del programa?

- a) A favor (Pase al No. 19)
- b) En contra (Pase la No. 17)
- c) No estoy seguro(a) (Pase al No. 18)

15. ¿Qué pasaría si para apoyar la propuesta le correspondería pagar \$34 pesos por mes?

¿Votaría a favor o en contra del programa?

- a) A favor (Pase al No. 19)
- b) En contra (Pase la No. 17)
- c) No estoy seguro(a) (Pase al No. 18)

16. ¿Qué pasaría si para apoyar la propuesta le correspondería pagar \$ 68 pesos por mes?

¿Votaría a favor o en contra del programa?

- a) A favor (Pase al No. 19)
- b) En contra (Pase la No. 17)
- c) No estoy seguro(a) (Pase al No. 18)

17. {Si votó en contra del programa}: ¿Qué lo decidió a no pagar y permitir que ASARCO reanude operaciones?

- a) No puedo solventar ese gasto (Pase al No. 20)
- b) No vale la pena pagar para evitar que ASARCO reabra (Pase al No. 20)
- c) No va a tener efecto alguno en las empresas que actualmente están en El Paso ni en las empresas que estén considerando venir a la ciudad (Pase al No. 20)
- d) Otra razón (especifique) _____(Pase al No. 20)

18. ¿Me puede decir porqué no esta seguro(a) de pagar para evitar que ASARCO reabra? (Pase al No. 21)

- a) Indiferencia entre si y no (Pase al No. 21)
- b) No tener la suficiente información para tomar una decisión (Pase al No. 21)
- c) Prefiero que algún otro mecanismo u organización tome esta decisión (Pase al No. 21)
- d) Aburrido(a) con la encuesta y quiero terminarla lo mas rápido posible (Pase al No. 21)
- e) Otro (especifique) _____(Pase al No. 21)

19. {Si votó a favor del programa}: ¿Qué lo decidió a pagar y así evitar que ASARCO reanude operaciones?

- a) Vale la pena pagar para prevenir el daño potencial al medio ambiente (Pase al No. 20)
- b) Otras empresas no vendrían a El Paso si ASARCO reabre (Pase al No. 20)
- c) Empresas que actualmente están en El Paso dejarían la ciudad si ASARCO reanuda operaciones (Pase al No. 20)
- d) Otro (especifique) _____(Pase al No. 20)

20. {Si decidió votar a favor o en contra del programa}: ¿Consideró el posible daño a la región debido a la contaminación?

- a) Si
- b) No

21. En los siguientes diez años, ¿Cuál cree que sean las consecuencias que sufra el medio ambiente si ASARCO reanuda operaciones?

- a) Ningún daño
- b) Más daño
- c) Menos daño
- d) No estoy seguro(a)

22. En una escala del 1 al 5 en donde 1 es firmemente en desacuerdo y 5 firmemente de acuerdo; por favor dígame su opinión sobre los siguientes comentarios:

- a) El desarrollo económico debe de ser la consideración más importante al momento de decidir que hacer con respecto al medio ambiente.

Firmemente en desacuerdo	En desacuerdo	Neutral	De acuerdo	Firmemente de acuerdo
1	2	3	4	5

- b) El desarrollo económico debe de ser la consideración más importante – pero no la única – al momento de decidir que hacer con respecto al medio ambiente.

Firmemente en desacuerdo	En desacuerdo	Neutral	De acuerdo	Firmemente de acuerdo
1	2	3	4	5

- c) La protección al medio ambiente y el desarrollo económico deben de ser considerados por igual al momento de decidir que hacer con respecto al medio ambiente.

Firmemente en desacuerdo	En desacuerdo	Neutral	De acuerdo	Firmemente de acuerdo
1	2	3	4	5

- d) La protección al medio ambiente debe de ser la consideración más importante – pero no la única – al momento de decidir que hacer con respecto al medio ambiente.

Firmemente en desacuerdo	En desacuerdo	Neutral	De acuerdo	Firmemente de acuerdo
1	2	3	4	5

- e) La única consideración en el desarrollo económico debe de ser la protección al medio ambiente.

Firmemente en desacuerdo	En desacuerdo	Neutral	De acuerdo	Firmemente de acuerdo
1	2	3	4	5

23. ¿Qué tan lejos vive usted de la planta ASARCO que se encuentra ubicada al otro lado de UTEP, sobre la Interestatal 10?

- a) Dentro de 3 kilómetros
- b) 3 a 8 Kilómetros
- c) 8 a 16 Kilómetros
- d) más de 16 kilómetros

24. ¿En que año nació? Año _____

25. ¿Hasta que año estudió?

- a) No asistió a la escuela
- b) Primaria incompleta
- c) Primaria completa
- d) Secundaria incompleta
- e) Secundaria completa
- d) Preparatoria
- e) Profesional
- f) Posgrado.

26. ¿Cuántas personas menores de 18 años viven en su casa? _____

27. ¿Cuál es el ingreso bruto (antes de impuesto) familiar por semana?

28. ¿Tiene negocio propio?

- a) Si (Pase al No. 29)
- b) No (Pase al No. 30)

29. La reapertura de ASARCO ¿Tendría un efecto positivo o negativo en su negocio?

- a) Positivo
- b) Negativo
- c) No tendría impacto
- d) No se

30 ¿Dónde nació? _____

31. ¿Desde hace cuanto tiempo es residente de Cd. Juárez? _____ años _____ meses

32. Sexo

a) Masculino

b) Femenino

33. ¿Quién cree que contrató a la UTEP para llevar a cabo este estudio?

34. ¿Qué lo hace pensar eso?

35. ¿Está a favor de que ASARCO reanude operaciones?

a) Si

b) No

c) No estoy seguro (a)

Muchas gracias por su tiempo.

Señalar hora en que termina la encuesta

Appendix F

Frequency Distribution for Residents in El Paso, TX and Sunland Park, NM

1a) How much should we spend on Improving Public Education?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Great Deal More	575	48.9	49.0	49.0
	Somewhat More	387	32.9	33.0	82.0
	Same Amount	153	13.0	13.0	95.1
	Somewhat Less	20	1.7	1.7	96.8
	Great Deal Less	13	1.1	1.1	97.9
	Not Sure	25	2.1	2.1	100.0
	Total	1173	99.8	100.0	
Missing	System	2	.2		
Total		1175	100.0		

1b) How much should we spend on Fighting Crime?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Great Deal More	438	37.3	37.3	37.3
	Somewhat More	441	37.5	37.6	74.9
	Same Amount	255	21.7	21.7	96.7
	Somewhat Less	16	1.4	1.4	98.0
	Great Deal Less	5	.4	.4	98.5
	Not Sure	18	1.5	1.5	100.0
	Total	1173	99.8	100.0	
Missing	System	2	.2		
Total		1175	100.0		

1c) How much should we spend on Protecting the Environment?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Great Deal More	447	38.0	38.1	38.1
	Somewhat More	433	36.9	36.9	75.0
	Same Amount	221	18.8	18.8	93.9
	Somewhat Less	34	2.9	2.9	96.8
	Great Deal Less	9	.8	.8	97.5
	Not Sure	29	2.5	2.5	100.0
	Total	1173	99.8	100.0	
Missing	System	2	.2		
Total		1175	100.0		

1d) How much should we spend on Border Security?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Great Deal More	348	29.6	29.7	29.7
	Somewhat More	338	28.8	28.9	58.6
	Same Amount	320	27.2	27.4	86.0
	Somewhat Less	86	7.3	7.4	93.3
	Great Deal Less	33	2.8	2.8	96.2
	Not Sure	45	3.8	3.8	100.0
	Total	1170	99.6	100.0	
Missing	System	5	.4		
Total		1175	100.0		

1e) How much should we spend on Public Health?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Great Deal More	516	43.9	44.0	44.0
	Somewhat More	437	37.2	37.3	81.2
	Same Amount	152	12.9	13.0	94.2
	Somewhat Less	27	2.3	2.3	96.5
	Great Deal Less	12	1.0	1.0	97.5
	Not Sure	29	2.5	2.5	100.0
	Total	1173	99.8	100.0	
Missing	System	2	.2		
Total		1175	100.0		

1f) How much should we spend on Creating Jobs?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Great Deal More	623	53.0	53.2	53.2
	Somewhat More	410	34.9	35.0	88.1
	Same Amount	89	7.6	7.6	95.7
	Somewhat Less	12	1.0	1.0	96.8
	Great Deal Less	9	.8	.8	97.5
	Not Sure	29	2.5	2.5	100.0
	Total	1172	99.7	100.0	
Missing	System	3	.3		
Total		1175	100.0		

3a) How important is Reducing Air Pollution in Cities?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Extremely Important	433	36.9	36.9	36.9
	Very Important	520	44.3	44.3	81.1
	Somewhat Important	186	15.8	15.8	96.9
	Not Too Important	25	2.1	2.1	99.1
	Not Important at All	5	.4	.4	99.5
	Not Sure	6	.5	.5	100.0
	Total	1175	100.0	100.0	

3b) How important is Dealing with Immigration Issues and Reform?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Extremely Important	322	27.4	27.5	27.5
	Very Important	458	39.0	39.0	66.5
	Somewhat Important	264	22.5	22.5	89.0
	Not Too Important	94	8.0	8.0	97.0
	Not Important at All	14	1.2	1.2	98.2
	Not Sure	21	1.8	1.8	100.0
	Total	1173	99.8	100.0	
Missing	System	2	.2		
Total		1175	100.0		

3c) How important is Reducing Taxes?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Extremely Important	401	34.1	34.1	34.1
	Very Important	441	37.5	37.5	71.7
	Somewhat Important	245	20.9	20.9	92.5
	Not Too Important	70	6.0	6.0	98.5
	Not Important at All	9	.8	.8	99.2
	Not Sure	9	.8	.8	100.0
	Total	1175	100.0	100.0	

3d) How important is Improving Graduation Rates?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Extremely Important	444	37.8	37.8	37.8
	Very Important	524	44.6	44.6	82.5
	Somewhat Important	147	12.5	12.5	95.0
	Not Too Important	35	3.0	3.0	98.0
	Not Important at All	11	.9	.9	98.9
	Not Sure	13	1.1	1.1	100.0
	Total	1174	99.9	100.0	
Missing	System	1	.1		
Total		1175	100.0		

3e) How important are Better Paying Jobs?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Extremely Important	505	43.0	43.1	43.1
	Very Important	506	43.1	43.2	86.3
	Somewhat Important	135	11.5	11.5	97.9
	Not Too Important	13	1.1	1.1	99.0
	Not Important at All	5	.4	.4	99.4
	Not Sure	7	.6	.6	100.0
	Total	1171	99.7	100.0	
Missing	System	4	.3		
Total		1175	100.0		

3f) How important is Ethical Government?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Extremely Important	455	38.7	38.8	38.8
	Very Important	485	41.3	41.3	80.1
	Somewhat Important	164	14.0	14.0	94.1
	Not Too Important	31	2.6	2.6	96.8
	Not Important at All	10	.9	.9	97.6
	Not Sure	28	2.4	2.4	100.0
	Total	1173	99.8	100.0	
Missing	System	2	.2		
Total		1175	100.0		

4) Are you aware of the ASARCO facility?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	1091	92.9	92.9	92.9
	No	84	7.1	7.1	100.0
	Total	1175	100.0	100.0	

5) Have you read or heard about ASARCO trying to renew its air permit to renew operations?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	1049	89.3	96.2	96.2
	No	35	3.0	3.2	99.4
	Not Sure	7	.6	.6	100.0
	Total	1091	92.9	100.0	
Missing	System	84	7.1		
Total		1175	100.0		

6) How would you describe your understanding of the process that ASARCO must go through to renew its air permit?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Very Well	162	13.8	15.4	15.4
	Moderately Well	331	28.2	31.4	46.8
	Slightly	383	32.6	36.3	83.1
	Not at All	178	15.1	16.9	100.0
	Total	1054	89.7	100.0	
Missing	System	121	10.3		
Total		1175	100.0		

7) How closely would you say that you have followed this permit renewal process?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Very Closely	111	9.4	10.6	10.6
	Somewhat Closely	398	33.9	37.9	48.5
	Not Too Closely	341	29.0	32.5	81.0
	Not At All	126	10.7	12.0	93.0
	Not Sure	74	6.3	7.0	100.0
	Total	1050	89.4	100.0	
Missing	System	125	10.6		
Total		1175	100.0		

8a) Do you get your information on ASARCO from the Newspaper?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	679	57.8	57.8	57.8
	No	496	42.2	42.2	100.0
	Total	1175	100.0	100.0	

8b) Do you get your information on ASARCO from Television?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	867	73.8	73.8	73.8
	No	308	26.2	26.2	100.0
	Total	1175	100.0	100.0	

8c) Do you get your information on ASARCO from Radio?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	212	18.0	18.0	18.0
	No	963	82.0	82.0	100.0
	Total	1175	100.0	100.0	

8d) Do you get your information on ASARCO from the Internet?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	177	15.1	15.1	15.1
	No	998	84.9	84.9	100.0
	Total	1175	100.0	100.0	

8e) Do you get your information on ASARCO from Friends and Relatives?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	265	22.6	22.6	22.6
	No	910	77.4	77.4	100.0
	Total	1175	100.0	100.0	

8f) Do you get your information on ASARCO from Elected Officials?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	116	9.9	9.9	9.9
	No	1059	90.1	90.1	100.0
	Total	1175	100.0	100.0	

8g) Do you get your information on ASARCO from Other?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	84	7.1	7.1	7.1
	No	1091	92.9	92.9	100.0
	Total	1175	100.0	100.0	

9a) How much do you trust the Newspaper as an information source?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	A Great Deal	243	20.7	22.4	22.4
	Some	571	48.6	52.6	75.0
	Not Much	131	11.1	12.1	87.1
	None	57	4.9	5.3	92.4
	Not Sure	83	7.1	7.6	100.0
	Total	1085	92.3	100.0	
Missing	System	90	7.7		
Total		1175	100.0		

9b) How much do you trust Television as an information source?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	A Great Deal	244	20.8	22.5	22.5
	Some	616	52.4	56.7	79.2
	Not Much	138	11.7	12.7	91.9
	None	47	4.0	4.3	96.2
	Not Sure	41	3.5	3.8	100.0
	Total	1086	92.4	100.0	
Missing	System	89	7.6		
Total		1175	100.0		

9c) How much do you trust Radio as an information source?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	A Great Deal	130	11.1	12.0	12.0
	Some	508	43.2	46.8	58.7
	Not Much	180	15.3	16.6	75.3
	None	85	7.2	7.8	83.1
	Not Sure	183	15.6	16.9	100.0
	Total	1086	92.4	100.0	
Missing	System	89	7.6		
Total		1175	100.0		

9d) How much do you trust the Internet as information sources?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	A Great Deal	129	11.0	11.9	11.9
	Some	367	31.2	33.9	45.8
	Not Much	135	11.5	12.5	58.3
	None	115	9.8	10.6	68.9
	Not Sure	336	28.6	31.1	100.0
	Total	1082	92.1	100.0	
Missing	System	93	7.9		
Total		1175	100.0		

9e) How much do you trust Friends and Relatives as an information source?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	A Great Deal	240	20.4	22.1	22.1
	Some	423	36.0	39.0	61.0
	Not Much	166	14.1	15.3	76.3
	None	106	9.0	9.8	86.1
	Not Sure	151	12.9	13.9	100.0
	Total	1086	92.4	100.0	
Missing	System	89	7.6		
Total		1175	100.0		

9f) How much do you trust Elected Officials as an information source?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	A Great Deal	56	4.8	5.2	5.2
	Some	371	31.6	34.2	39.3
	Not Much	301	25.6	27.7	67.0
	None	241	20.5	22.2	89.2
	Not Sure	117	10.0	10.8	100.0
	Total	1086	92.4	100.0	
Missing	System	89	7.6		
Total		1175	100.0		

9g) How much do you trust ASARCO Advertisements as an information source?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	A Great Deal	69	5.9	6.4	6.4
	Some	324	27.6	29.9	36.2
	Not Much	272	23.1	25.1	61.3
	None	282	24.0	26.0	87.3
	Not Sure	138	11.7	12.7	100.0
	Total	1085	92.3	100.0	
Missing	System	90	7.7		
Total		1175	100.0		

10a) Who do you think has the best ability to decide if ASARCO should reopen?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Elected Officials	102	8.7	9.5	9.5
	Government Experts	301	25.6	28.2	37.7
	Non-Governmental Experts	100	8.5	9.4	47.1
	General Public	453	38.6	42.4	89.4
	Other	113	9.6	10.6	100.0
	Total	1069	91.0	100.0	
Missing	System	106	9.0		
Total		1175	100.0		

11) Do you think there are positive or negative potential impacts if ASARCO reopens?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	1015	86.4	93.9	93.9
	No	66	5.6	6.1	100.0
	Total	1081	92.0	100.0	
Missing	System	94	8.0		
Total		1175	100.0		

14) Would you vote FOR or AGAINST the program if it cost your household \$20 per month?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	For	126	10.7	32.6	32.6
	Against	175	14.9	45.2	77.8
	Not Sure	86	7.3	22.2	100.0
	Total	387	32.9	100.0	
Missing	System	788	67.1		
Total		1175	100.0		

15) Would you vote FOR or AGAINST the program if it cost your household \$10 per month?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	For	154	13.1	37.7	37.7
	Against	176	15.0	43.0	80.7
	Not Sure	79	6.7	19.3	100.0
	Total	409	34.8	100.0	
Missing	System	766	65.2		
Total		1175	100.0		

16) Would you vote FOR or AGAINST the program if it cost your household \$40 per month?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	For	109	9.3	28.8	28.8
	Against	200	17.0	52.9	81.7
	Not Sure	69	5.9	18.3	100.0
	Total	378	32.2	100.0	
Missing	System	797	67.8		
Total		1175	100.0		

17a) If AGAINST the program, what was it that kept you from paying to keep ASARCO closed?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Can't afford it	142	12.1	25.9	25.9
	It isn't worth paying money to prevent	104	8.9	18.9	44.8
	There would be no effect on current or potential businesses	52	4.4	9.5	54.3
	Other reason	251	21.4	45.7	100.0
	Total	549	46.7	100.0	
Missing	System	626	53.3		
Total		1175	100.0		

18a) If NOT SURE about the program, why you aren't sure about paying to keep ASARCO from reopening?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Indifference between yes and no	20	1.7	8.6	8.6
	Inability to make decision without more info	131	11.1	56.2	64.8
	Preference for some other mechanism for making this decision	16	1.4	6.9	71.7
	Bored by this survey and anxious to end it as quickly as possible	7	.6	3.0	74.7
	Other	59	5.0	25.3	100.0
	Total	233	19.8	100.0	
Missing	System	942	80.2		
Total		1175	100.0		

19a) If FOR the program, what was it about keeping ASARCO from reopening that made you Willing To Pay for it?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Worth money to prevent the potential damage to the environment	307	26.1	79.3	79.3
	Other businesses may not come to El Paso if ASARCO reopens	13	1.1	3.4	82.7
	Current businesses may leave El Paso if ASARCO reopens	8	.7	2.1	84.8
	Other	59	5.0	15.2	100.0
	Total	387	32.9	100.0	
Missing	System	788	67.1		
Total		1175	100.0		

20) If FOR or AGAINST the program, did you consider possible damage to the region from pollution?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	813	69.2	87.1	87.1
	No	120	10.2	12.9	100.0
	Total	933	79.4	100.0	
Missing	System	242	20.6		
Total		1175	100.0		

21) In the next ten years, if ASARCO reopens what will be the damage to the environment?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No damage	133	11.3	11.3	11.3
	More damage	609	51.8	51.9	63.3
	Less damage	85	7.2	7.2	70.5
	Not sure	346	29.4	29.5	100.0
	Total	1173	99.8	100.0	
Missing	System	2	.2		
Total		1175	100.0		

22a) The growth of the economy should be the only consideration in deciding what to do with the environment.

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Strongly Disagree	211	18.0	18.3	18.3
	Disagree	279	23.7	24.2	42.5
	Neutral	298	25.4	25.9	68.4
	Agree	230	19.6	20.0	88.4
	Strongly Agree	134	11.4	11.6	100.0
	Total	1152	98.0	100.0	
Missing	System	23	2.0		
Total		1175	100.0		

22b) The growth of the economy should be the most important, but not only consideration in deciding what to do with the environment.

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Strongly Disagree	78	6.6	6.8	6.8
	Disagree	175	14.9	15.2	21.9
	Neutral	252	21.4	21.8	43.8
	Agree	440	37.4	38.1	81.9
	Strongly Agree	209	17.8	18.1	100.0
	Total	1154	98.2	100.0	
Missing	System	21	1.8		
Total		1175	100.0		

22c) Protection of the environment and growth of the economy should be given equal consideration in deciding what to do with the environment.

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Strongly Disagree	34	2.9	3.0	3.0
	Disagree	91	7.7	7.9	10.9
	Neutral	170	14.5	14.8	25.7
	Agree	480	40.9	41.7	67.4
	Strongly Agree	375	31.9	32.6	100.0
	Total	1150	97.9	100.0	
Missing	System	25	2.1		
Total		1175	100.0		

22d) Protection of the environment should be the most important, but not the only consideration in deciding what to do with the environment.

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Strongly Disagree	35	3.0	3.0	3.0
	Disagree	128	10.9	11.1	14.1
	Neutral	223	19.0	19.3	33.5
	Agree	498	42.4	43.2	76.7
	Strongly Agree	269	22.9	23.3	100.0
	Total	1153	98.1	100.0	
Missing	System	22	1.9		
Total		1175	100.0		

22e) The only consideration in the growth of the economy should be protection of the environment.

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Strongly Disagree	101	8.6	8.8	8.8
	Disagree	319	27.1	27.9	36.7
	Neutral	265	22.6	23.1	59.8
	Agree	294	25.0	25.7	85.5
	Strongly Agree	166	14.1	14.5	100.0
	Total	1145	97.4	100.0	
Missing	System	30	2.6		
Total		1175	100.0		

23) How far do you live from ASARCO, which is just across I-10 from UTEP?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Within 2 miles (Kern Place, Mesita, Smelter Town)	22	1.9	1.9	1.9
	2 to 5 miles (Sunland Park Mall to roughly the North Mesa Exit on I-10 or Downtown)	127	10.8	10.9	12.8
	5 to 10 miles (Redd Road or Bassett Place/Thomason Hospital)	261	22.2	22.3	35.1
	Greater than 10 miles (Beyond Trans Mountain or Beyond Lomaland and I-10)	758	64.5	64.9	100.0
	Total	1168	99.4	100.0	
Missing	System	7	.6		
Total		1175	100.0		

24) Age Groups

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	18 thru 25 years old	114	9.7	10.0	10.0
	26 thru 35 years old	184	15.7	16.1	26.1
	36 thru 45 years old	249	21.2	21.8	47.9
	46 thru 55 years old	244	20.8	21.3	69.2
	56 thru 65 years old	189	16.1	16.5	85.7
	+ 65 years old	163	13.9	14.3	100.0
	Total	1143	97.3	100.0	
Missing	System	32	2.7		
Total		1175	100.0		

25) Education

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Did not attend high school	122	10.4	10.4	10.4
	Some high school	94	8.0	8.0	18.5
	High school graduate	215	18.3	18.4	36.9
	Vocational training	41	3.5	3.5	40.4
	Some college	243	20.7	20.8	61.2
	Associates degree	97	8.3	8.3	69.5
	Bachelor's degree	200	17.0	17.1	86.6
	Postgraduate (Masters, Law degree, Doctorate)	120	10.2	10.3	96.8
	Other	37	3.1	3.2	100.0
	Total	1169	99.5	100.0	
Missing	System	6	.5		
Total		1175	100.0		

26) How many children or young people under 18 live in your household?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	520	44.3	44.7	44.7
	1	224	19.1	19.2	63.9
	2	228	19.4	19.6	83.5
	3	133	11.3	11.4	94.9
	4	36	3.1	3.1	98.0
	5	14	1.2	1.2	99.2
	6	3	.3	.3	99.5
	7	4	.3	.3	99.8
	8	1	.1	.1	99.9
	11	1	.1	.1	100.0
	Total	1164	99.1	100.0	
Missing	System	11	.9		
Total		1175	100.0		

27) Household income

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	\$0 - \$10,000	124	10.6	13.3	13.3
	\$10,001 - \$20,000	144	12.3	15.5	28.8
	\$20,001 - \$30,000	126	10.7	13.5	42.3
	\$30,001 - \$40,000	118	10.0	12.7	54.9
	\$40,001 - \$50,000	88	7.5	9.4	64.4
	\$50,001 - \$60,000	71	6.0	7.6	72.0
	\$60,001 - \$70,000	47	4.0	5.0	77.0
	\$70,001 - \$80,000	59	5.0	6.3	83.4
	\$80,001 - \$90,000	33	2.8	3.5	86.9
	\$90,001 - \$100,000	34	2.9	3.6	90.6
	Over \$100,001	88	7.5	9.4	100.0
	Total	932	79.3	100.0	
Missing	System	243	20.7		
Total		1175	100.0		

28) Do you own your own business?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	147	12.5	12.5	12.5
	No	1025	87.2	87.5	100.0
	Total	1172	99.7	100.0	
Missing	System	3	.3		
Total		1175	100.0		

29) If a business owner, would reopening ASARCO have a positive or negative impact on your business?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Positive	24	2.0	16.3	16.3
	Negative	14	1.2	9.5	25.9
	No Impact	93	7.9	63.3	89.1
	Unsure	16	1.4	10.9	100.0
	Total	147	12.5	100.0	
Missing	System	1028	87.5		
Total		1175	100.0		

30) Ethnicity

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Hispanic	889	75.7	76.5	76.5
	Caucasian	191	16.3	16.4	92.9
	African American	26	2.2	2.2	95.2
	Asian	4	.3	.3	95.5
	Other	52	4.4	4.5	100.0
	Total	1162	98.9	100.0	
Missing	System	13	1.1		
Total		1175	100.0		

31) Area Of Town

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Northeast	202	17.2	17.2	17.2
	West	175	14.9	14.9	32.1
	Central	152	12.9	12.9	45.0
	East/Far East	291	24.8	24.8	69.8
	Lower Valley/Socorro	204	17.4	17.4	87.1
	Non-El Paso	132	11.2	11.2	98.4
	Southern New Mexico	19	1.6	1.6	100.0
	Total	1175	100.0	100.0	

32) Resident Years

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	10 years or less	218	18.6	18.7	18.7
	11 thru 20 years	263	22.4	22.6	41.3
	21 thru 30 years	220	18.7	18.9	60.2
	31 thru 40 years	173	14.7	14.9	75.1
	41 thru 50 years	144	12.3	12.4	87.5
	51 thru 60 years	88	7.5	7.6	95.0
	61 years or more	58	4.9	5.0	100.0
	Total	1164	99.1	100.0	
Missing	System	11	.9		
Total		1175	100.0		

33) Gender

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Male	403	34.3	34.3	34.3
	Female	771	65.6	65.7	100.0
	Total	1174	99.9	100.0	
Missing	System	1	.1		
Total		1175	100.0		

34) Who do you think contracted the University to conduct this study?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	UTEP	55	4.7	4.7	4.7
	ASARCO	229	19.5	19.5	24.2
	Government	306	26.0	26.0	50.2
	Don't know	440	37.4	37.4	87.7
	Citizen organization	26	2.2	2.2	89.9
	Other	57	4.9	4.9	94.7
	Anti-ASARCO group	26	2.2	2.2	96.9
	Undecided between various parties	36	3.1	3.1	100.0
	Total	1175	100.0	100.0	

35) What made you think that?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Survey content	282	24.0	24.0	24.0
	Research/contractor wants to gauge public opinion	162	13.8	13.8	37.8
	Contractor favors a particular outcome	110	9.4	9.4	47.1
	Other	133	11.3	11.3	58.5
	Don't know	488	41.5	41.5	100.0
	Total	1175	100.0	100.0	

36) Are you in favor of ASARCO reopening?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	310	26.4	26.4	26.4
	No	515	43.8	43.8	70.2
	Unsure	350	29.8	29.8	100.0
	Total	1175	100.0	100.0	

Appendix G

Frequency Distribution for Residents in Ciudad Juárez

1b) How much should we spend on Fighting Crime?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Great Deal More	231	65.6	65.6	65.6
	Somewhat More	75	21.3	21.3	86.9
	Same Amount	41	11.6	11.6	98.6
	Somewhat Less	3	.9	.9	99.4
	Great Deal Less	2	.6	.6	100.0
	Total	352	100.0	100.0	

1c) How much should we spend on Protecting the Environment?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Great Deal More	190	54.0	54.4	54.4
	Somewhat More	95	27.0	27.2	81.7
	Same Amount	55	15.6	15.8	97.4
	Somewhat Less	7	2.0	2.0	99.4
	Not Sure	2	.6	.6	100.0
	Total	349	99.1	100.0	
Missing	System	3	.9		
Total		352	100.0		

1d) How much should we spend on Public Health?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Great Deal More	207	58.8	59.1	59.1
	Somewhat More	92	26.1	26.3	85.4
	Same Amount	43	12.2	12.3	97.7
	Somewhat Less	6	1.7	1.7	99.4
	Not Sure	2	.6	.6	100.0
	Total	350	99.4	100.0	
Missing	System	2	.6		
Total		352	100.0		

1e) How much should we spend on Recreational Centers?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Great Deal More	169	48.0	48.0	48.0
	Somewhat More	110	31.3	31.3	79.3
	Same Amount	50	14.2	14.2	93.5
	Somewhat Less	14	4.0	4.0	97.4
	Great Deal Less	4	1.1	1.1	98.6
	Not Sure	5	1.4	1.4	100.0
	Total	352	100.0	100.0	

1f) How much should we spend on Improving Public Services?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Great Deal More	204	58.0	58.1	58.1
	Somewhat More	86	24.4	24.5	82.6
	Same Amount	48	13.6	13.7	96.3
	Somewhat Less	8	2.3	2.3	98.6
	Great Deal Less	3	.9	.9	99.4
	Not Sure	2	.6	.6	100.0
	Total	351	99.7	100.0	
Missing	System	1	.3		
Total		352	100.0		

1g) How much should we spend on Creating Better Paying Jobs?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Great Deal More	259	73.6	73.6	73.6
	Somewhat More	55	15.6	15.6	89.2
	Same Amount	30	8.5	8.5	97.7
	Somewhat Less	5	1.4	1.4	99.1
	Great Deal Less	1	.3	.3	99.4
	Not Sure	2	.6	.6	100.0
	Total	352	100.0	100.0	

3a) How important is Improving City Infrastructure?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Extremely Important	83	23.6	23.6	23.6
	Very Important	125	35.5	35.6	59.3
	Somewhat Important	123	34.9	35.0	94.3
	Not Too Important	17	4.8	4.8	99.1
	Not Important at All	1	.3	.3	99.4
	Not Sure	2	.6	.6	100.0
	Total	351	99.7	100.0	
Missing	System	1	.3		
Total		352	100.0		

3b) How important is Reducing Vehicle Congestion?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Extremely Important	99	28.1	28.1	28.1
	Very Important	134	38.1	38.1	66.2
	Somewhat Important	96	27.3	27.3	93.5
	Not Too Important	14	4.0	4.0	97.4
	Not Important at All	8	2.3	2.3	99.7
	Not Sure	1	.3	.3	100.0
	Total	352	100.0	100.0	

3c) How important is Reducing Air Pollution?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Extremely Important	145	41.2	41.2	41.2
	Very Important	117	33.2	33.2	74.4
	Somewhat Important	85	24.1	24.1	98.6
	Not Too Important	3	.9	.9	99.4
	Not Important at All	1	.3	.3	99.7
	Not Sure	1	.3	.3	100.0
	Total	352	100.0	100.0	

3d) How important is Creating Recreational Centers?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Extremely Important	110	31.3	31.3	31.3
Very Important	126	35.8	35.8	67.0
Somewhat Important	85	24.1	24.1	91.2
Not Too Important	19	5.4	5.4	96.6
Not Important at All	7	2.0	2.0	98.6
Not Sure	5	1.4	1.4	100.0
Total	352	100.0	100.0	

3e) How important is Reducing Drug Consumption?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Extremely Important	247	70.2	70.2	70.2
Very Important	66	18.8	18.8	88.9
Somewhat Important	33	9.4	9.4	98.3
Not Too Important	6	1.7	1.7	100.0
Total	352	100.0	100.0	

3f) How important is Ethical Government?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Extremely Important	141	40.1	40.1	40.1
Very Important	96	27.3	27.3	67.3
Somewhat Important	75	21.3	21.3	88.6
Not Too Important	25	7.1	7.1	95.7
Not Important at All	11	3.1	3.1	98.9
Not Sure	4	1.1	1.1	100.0
Total	352	100.0	100.0	

4) Are you aware of the ASARCO facility?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	225	63.9	63.9	63.9
No	127	36.1	36.1	100.0
Total	352	100.0	100.0	

5) Have you read or heard about ASARCO trying to renew its air permit to renew operations?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	182	51.7	80.9	80.9
No	39	11.1	17.3	98.2
Not Sure	4	1.1	1.8	100.0
Total	225	63.9	100.0	
Missing System	127	36.1		
Total	352	100.0		

6) How would you describe your understanding of the process that ASARCO must go through to renew its air permit?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Very Well	14	4.0	7.5	7.5
	Moderately Well	20	5.7	10.8	18.3
	Slightly	83	23.6	44.6	62.9
	Not at All	69	19.6	37.1	100.0
	Total	186	52.8	100.0	
Missing	System	166	47.2		
Total		352	100.0		

7) How closely would you say that you have followed this permit renewal process?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Somewhat Closely	23	6.5	12.4	12.4
	Not Too Closely	61	17.3	32.8	45.2
	Not At All	99	28.1	53.2	98.4
	Not Sure	3	.9	1.6	100.0
	Total	186	52.8	100.0	
Missing	System	166	47.2		
Total		352	100.0		

8a) Do you get your information on ASARCO from the Newspaper?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	41	11.6	23.0	23.0
	No	137	38.9	77.0	100.0
	Total	178	50.6	100.0	
Missing	System	174	49.4		
Total		352	100.0		

8b) Do you get your information on ASARCO from Television?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	154	43.8	85.1	85.1
	No	27	7.7	14.9	100.0
	Total	181	51.4	100.0	
Missing	System	171	48.6		
Total		352	100.0		

8c) Do you get your information on ASARCO from Radio?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	22	6.3	12.7	12.7
	No	151	42.9	87.3	100.0
	Total	173	49.1	100.0	
Missing	System	179	50.9		
Total		352	100.0		

8c) Do you get your information on ASARCO from Radio?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	22	6.3	12.7	12.7
	No	151	42.9	87.3	100.0
	Total	173	49.1	100.0	
Missing	System	179	50.9		
Total		352	100.0		

8e) Do you get your information on ASARCO from Friends and Relatives?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	5	1.4	2.9	2.9
	No	166	47.2	97.1	100.0
	Total	171	48.6	100.0	
Missing	System	181	51.4		
Total		352	100.0		

8f) Do you get your information on ASARCO from Elected Officials?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No	171	48.6	100.0	100.0
Missing	System	181	51.4		
Total		352	100.0		

8g) Do you get your information on ASARCO from Other?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No	171	48.6	100.0	100.0
Missing	System	181	51.4		
Total		352	100.0		

9a) How much do you trust the Newspaper as an information source?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	A Great Deal	34	9.7	15.1	15.1
	Some	73	20.7	32.4	47.6
	Not Much	79	22.4	35.1	82.7
	None	20	5.7	8.9	91.6
	Not Sure	19	5.4	8.4	100.0
	Total	225	63.9	100.0	
Missing	System	127	36.1		
Total		352	100.0		

9b) How much do you trust Television as an information source?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	A Great Deal	80	22.7	35.6	35.6
	Some	107	30.4	47.6	83.1
	Not Much	34	9.7	15.1	98.2
	None	4	1.1	1.8	100.0
	Total	225	63.9	100.0	
Missing	System	127	36.1		
Total		352	100.0		

9c) How much do you trust Radio as an information source?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	A Great Deal	34	9.7	15.1	15.1
	Some	79	22.4	35.1	50.2
	Not Much	65	18.5	28.9	79.1
	None	17	4.8	7.6	86.7
	Not Sure	30	8.5	13.3	100.0
	Total	225	63.9	100.0	
Missing	System	127	36.1		
Total		352	100.0		

9d) How much do you trust the Internet as an information source?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	A Great Deal	14	4.0	6.2	6.2
	Some	24	6.8	10.7	16.9
	Not Much	39	11.1	17.3	34.2
	None	33	9.4	14.7	48.9
	Not Sure	115	32.7	51.1	100.0
	Total	225	63.9	100.0	
Missing	System	127	36.1		
Total		352	100.0		

9e) How much do you trust Friends and Relatives as an information source?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	A Great Deal	54	15.3	24.1	24.1
	Some	63	17.9	28.1	52.2
	Not Much	61	17.3	27.2	79.5
	None	28	8.0	12.5	92.0
	Not Sure	18	5.1	8.0	100.0
	Total	224	63.6	100.0	
Missing	System	128	36.4		
Total		352	100.0		

9f) How much do you trust Elected Officials as an information source?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	A Great Deal	3	.9	1.3	1.3
	Some	17	4.8	7.6	8.9
	Not Much	54	15.3	24.0	32.9
	None	105	29.8	46.7	79.6
	Not Sure	46	13.1	20.4	100.0
	Total	225	63.9	100.0	
Missing	System	127	36.1		
Total		352	100.0		

9g) How much do you trust ASARCO Advertisements as an information source?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	A Great Deal	3	.9	1.3	1.3
	Some	16	4.5	7.1	8.4
	Not Much	29	8.2	12.9	21.3
	None	89	25.3	39.6	60.9
	Not Sure	88	25.0	39.1	100.0
	Total	225	63.9	100.0	
Missing	System	127	36.1		
Total		352	100.0		

10a) Who do you think has the best ability to decide if ASARCO should reopen?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Elected Officials	51	14.5	22.7	22.7
	Government Experts	58	16.5	25.8	48.4
	Non-Governmental Experts	10	2.8	4.4	52.9
	General Public	97	27.6	43.1	96.0
	Other	9	2.6	4.0	100.0
	Total	225	63.9	100.0	
Missing	System	127	36.1		
Total		352	100.0		

11) Do you think there are potential impacts, either positive or negative, if ASARCO reopens?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	194	55.1	86.2	86.2
	No	31	8.8	13.8	100.0
	Total	225	63.9	100.0	
Missing	System	127	36.1		
Total		352	100.0		

14) Would you vote FOR or AGAINST the program if it cost your household \$20 per month?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	For	56	15.9	45.2	45.2
	Against	49	13.9	39.5	84.7
	Not Sure	19	5.4	15.3	100.0
	Total	124	35.2	100.0	
Missing	System	228	64.8		
Total		352	100.0		

15) Would you vote FOR or AGAINST the program if it cost your household \$10 per month?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	For	32	9.1	28.8	28.8
	Against	62	17.6	55.9	84.7
	Not Sure	17	4.8	15.3	100.0
	Total	111	31.5	100.0	
Missing	System	241	68.5		
Total		352	100.0		

16) Would you vote FOR or AGAINST the program if it cost your household \$40 per month?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	For	28	8.0	23.9	23.9
	Against	69	19.6	59.0	82.9
	Not Sure	20	5.7	17.1	100.0
	Total	117	33.2	100.0	
Missing	System	235	66.8		
Total		352	100.0		

17a) If AGAINST the program, what was it that kept you from paying to keep ASARCO closed?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Can't afford it	80	22.7	44.4	44.4
	It isn't worth paying money to prevent	44	12.5	24.4	68.9
	There would be no effect on current or potential businesses	32	9.1	17.8	86.7
	Other reason	24	6.8	13.3	100.0
	Total	180	51.1	100.0	
Missing	System	172	48.9		
Total		352	100.0		

18a) If NOT SURE about the program, why you aren't sure about paying to keep ASARCO from reopening?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Indifference between yes and no	6	1.7	10.7	10.7
	Inability to make decision without more info	28	8.0	50.0	60.7
	Preference for some other mechanism for making this decision	13	3.7	23.2	83.9
	Bored by this survey and anxious to end it as quickly as possible	2	.6	3.6	87.5
	Other	7	2.0	12.5	100.0
	Total	56	15.9	100.0	
Missing	System	296	84.1		
Total		352	100.0		

19a) If FOR the program, what was it about keeping ASARCO from reopening that made you Willing To Pay for it?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Worth money to prevent the potential damage to the environment	110	31.3	94.8	94.8
	Other businesses may not come to El Paso if ASARCO reopens	1	.3	.9	95.7
	Current businesses may leave El Paso if ASARCO reopens	3	.9	2.6	98.3
	Other	2	.6	1.7	100.0
	Total	116	33.0	100.0	
Missing	System	236	67.0		
Total		352	100.0		

20) If FOR or AGAINST the program, did you consider possible damage to the region from pollution?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	280	79.5	94.3	94.3
	No	17	4.8	5.7	100.0
	Total	297	84.4	100.0	
Missing	System	55	15.6		
Total		352	100.0		

21) In the next ten years, if ASARCO reopens what will be the damage to the environment?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No damage	9	2.6	2.6	2.6
	More damage	276	78.4	78.4	81.0
	Less damage	25	7.1	7.1	88.1
	Not sure	42	11.9	11.9	100.0
	Total	352	100.0	100.0	

22a) The growth of the economy should be the only consideration in deciding what to do with the environment.

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Strongly Disagree	63	17.9	17.9	17.9
	Disagree	93	26.4	26.5	44.4
	Neutral	75	21.3	21.4	65.8
	Agree	106	30.1	30.2	96.0
	Strongly Agree	14	4.0	4.0	100.0
	Total	351	99.7	100.0	
Missing	System	1	.3		
	Total	352	100.0		

22b) The growth of the economy should be the most important, but not only consideration in deciding what to do with the environment.

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Strongly Disagree	7	2.0	2.0	2.0
	Disagree	64	18.2	18.2	20.2
	Neutral	57	16.2	16.2	36.4
	Agree	192	54.5	54.5	90.9
	Strongly Agree	32	9.1	9.1	100.0
	Total	352	100.0	100.0	

22c) Protection of the environment and growth of the economy should be given equal consideration in deciding what to do with the environment.

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Strongly Disagree	17	4.8	4.8	4.8
	Disagree	42	11.9	11.9	16.8
	Neutral	79	22.4	22.4	39.2
	Agree	146	41.5	41.5	80.7
	Strongly Agree	68	19.3	19.3	100.0
	Total	352	100.0	100.0	

22d) Protection of the environment should be the most important, but not the only consideration in deciding what to do with the environment.

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Strongly Disagree	7	2.0	2.0	2.0
	Disagree	40	11.4	11.4	13.4
	Neutral	65	18.5	18.5	31.8
	Agree	186	52.8	52.8	84.7
	Strongly Agree	54	15.3	15.3	100.0
	Total	352	100.0	100.0	

22e) The only consideration in the growth of the economy should be protection of the environment.

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Strongly Disagree	7	2.0	2.0	2.0
	Disagree	66	18.8	18.8	20.8
	Neutral	61	17.3	17.4	38.2
	Agree	161	45.7	45.9	84.0
	Strongly Agree	56	15.9	16.0	100.0
	Total	351	99.7	100.0	
Missing	System	1	.3		
Total		352	100.0		

23) How far do you live from ASARCO, which is just across I-10 from UTEP?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Within 2 miles	7	2.0	2.2	2.2
	2 to 5 miles	37	10.5	11.5	13.7
	5 to 10 miles	116	33.0	36.0	49.7
	Greater than 10 miles	162	46.0	50.3	100.0
	Total	322	91.5	100.0	
Missing	System	30	8.5		
Total		352	100.0		

24) Age Group

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	18 thru 25 years old	52	14.8	14.8	14.8
	26 thru 35 years old	91	25.9	25.9	40.7
	36 thru 45 years old	87	24.7	24.8	65.5
	46 thru 55 years old	52	14.8	14.8	80.3
	56 thru 65 years old	36	10.2	10.3	90.6
	+ 65 years old	33	9.4	9.4	100.0
	Total	351	99.7	100.0	
Missing	System	1	.3		
Total		352	100.0		

25) Education

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Did not attend high school	15	4.3	4.3	4.3
	Some Elementary	44	12.5	12.5	16.8
	Elementary Complete	71	20.2	20.2	36.9
	Some Junior High	45	12.8	12.8	49.7
	Junior High Complete	65	18.5	18.5	68.2
	High School Graduate	67	19.0	19.0	87.2
	Bachelor's degree	43	12.2	12.2	99.4
	Postgraduate (Masters, Law degree, Doctorate)	2	.6	.6	100.0
	Total	352	100.0	100.0	

26) How many children or young people under 18 live in your household?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 0	114	32.4	32.4	32.4
1	75	21.3	21.3	53.7
2	87	24.7	24.7	78.4
3	42	11.9	11.9	90.3
4	22	6.3	6.3	96.6
5	7	2.0	2.0	98.6
6	2	.6	.6	99.1
7	3	.9	.9	100.0
Total	352	100.0	100.0	

27) Gross Household Income

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid \$0 - \$2,500	28	8.0	9.3	9.3
\$2,501 - \$5,000	107	30.4	35.7	45.0
\$5,001 - \$7,500	51	14.5	17.0	62.0
\$7,501 - \$10,000	41	11.6	13.7	75.7
\$10,001 - \$15,000	30	8.5	10.0	85.7
\$15,001 - \$20,000	17	4.8	5.7	91.3
\$20,001 - \$25,000	14	4.0	4.7	96.0
\$25,001 - \$30,000	5	1.4	1.7	97.7
Over \$30,001	7	2.0	2.3	100.0
Total	300	85.2	100.0	
Missing System	52	14.8		
Total	352	100.0		

28) Do you own your own business?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	64	18.2	18.2	18.2
No	287	81.5	81.5	99.7
4	1	.3	.3	100.0
Total	352	100.0	100.0	

29) If a business owner, would reopening ASARCO have a positive or negative impact on your business?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Positive	3	.9	4.8	4.8
Negative	13	3.7	20.6	25.4
No Impact	41	11.6	65.1	90.5
Unsure	6	1.7	9.5	100.0
Total	63	17.9	100.0	
Missing System	289	82.1		
Total	352	100.0		

30) Where were you born?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Cd. Juarez, Chihuahua	153	43.5	43.5	43.5
Other Chihuahua State	61	17.3	17.3	60.8
Non-Chihuahua State	138	39.2	39.2	100.0
Total	352	100.0	100.0	

31) How long have you been a resident of Cd. Juarez?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	10 years or less	53	15.1	15.1	15.1
	11 thru 20 years	60	17.0	17.1	32.2
	21 thru 30 years	84	23.9	23.9	56.1
	31 thru 40 years	71	20.2	20.2	76.4
	41 thru 50 years	48	13.6	13.7	90.0
	51 thru 60 years	23	6.5	6.6	96.6
	61 years or more	12	3.4	3.4	100.0
	Total	351	99.7	100.0	
Missing	System	1	.3		
Total		352	100.0		

32) Gender

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Male	140	39.8	39.9	39.9
	Female	211	59.9	60.1	100.0
	Total	351	99.7	100.0	
Missing	System	1	.3		
Total		352	100.0		

33) Who do you think contracted the University to conduct this study?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	UTEP	12	3.4	3.4	3.4
	ASARCO	40	11.4	11.4	14.8
	Government	79	22.4	22.4	37.2
	Don't know	172	48.9	48.9	86.1
	Citizen organization	18	5.1	5.1	91.2
	Other	31	8.8	8.8	100.0
	Total	352	100.0	100.0	

34) What made you think that?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Survey content	15	4.3	4.3	4.3
	Research/contractor wants to gauge public opinion	61	17.3	17.3	21.6
	Contractor favors a particular outcome	25	7.1	7.1	28.7
	Other	60	17.0	17.0	45.7
	Don't know	191	54.3	54.3	100.0
	Total	352	100.0	100.0	

35) Are you in favor of ASARCO reopening?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	22	6.3	6.3	6.3
	No	300	85.2	85.2	91.5
	Unsure	30	8.5	8.5	100.0
	Total	352	100.0	100.0	

Appendix H

Business Survey for El Paso, TX

ASARCO Business Survey

Main Interview Questionnaire

Hello, I'm (YOUR NAME) from the Institute for Policy and Economic Development, a research unit at UTEP. Can I speak to the owner, general manager, or someone with decision making authority please?

(If they ask what it is about, tell them we are conducting a survey of businesses regarding the potential impact of ASARCO on the El Paso region.)

Hello, I'm (YOUR NAME) from the Institute for Policy and Economic Development, a research unit at UTEP. We are conducting a short survey (if they ask 3 minutes) that asks business owners and managers about their opinions on various issues. This survey is completely voluntary. If we come to any questions you don't want to answer, just let me know and we will go on to the next one. Would you like to participate?

Interviewer name: _____

Interview date and time stamp: _____

1. What is your title?

a. Owner

b. General manager

c. Other (specify) _____

2. The El Paso region has a number of challenges, none of which can be solved easily or inexpensively. I am going to name some of these problems, and for each one I'd like for you as a business owner, manager, or operator, to tell me whether you think we should spend a great deal more, somewhat more, the same, somewhat less, or a great deal less money than we are spending now:

Item	Great deal more	Somewhat more	Same amount	Somewhat less	Great deal less	Not sure
Improving public education	1	2	3	4	5	8
Fighting crime	1	2	3	4	5	8
Protecting the environment	1	2	3	4	5	8
Border	1	2	3	4	5	8

security						
Public health	1	2	3	4	5	8
Creating jobs	1	2	3	4	5	

3. Thinking about major environmental issues in the El Paso region caused by humans, tell me what immediately comes to mind.
-

4. How important do you think each of the following goals are to your business? I am going to name several, and for each one I'd like for you to tell me whether you think that it is extremely important to your business, very important, somewhat important, not too important, or not important at all.

Item	Extremely important	Very important	Somewhat important	Not too important	Not important at all	Not sure
Reducing air pollution in cities	1	2	3	4	5	8
Reducing taxes	1	2	3	4	5	8
Improving graduation rates	1	2	3	4	5	8
Better paying jobs	1	2	3	4	5	8
Ethical government	1	2	3	4	5	8

5. Are you aware of the ASARCO facility in El Paso?

- a. Yes (Go to 6)
- b. No (Go to 13)

6. Have you read or heard about ASARCO trying to renew its air permit to renew operations in El Paso?

- a. Yes (Go to 7)
- b. No (Go to 8)
- c. Not sure (Go to 8)

7. How would you describe your understanding of the process that ASARCO must go through to renew its air permit?
 - a. Very well
 - b. Moderately well
 - c. Slightly
 - d. Not at all
8. Are you in favor of ASARCO reopening?
 - a. Yes
 - b. No
 - c. Unsure
9. If ASARCO were to reopen, how would you describe its impact on your business?
 - a. Highly negative
 - b. Negative
 - c. No impact
 - d. Positive
 - e. Highly positive
 - f. Unsure
10. What kind of impact would you say ASARCO reopening would have on your local suppliers?
 - a. Highly negative
 - b. Negative
 - c. No impact
 - d. Positive
 - e. Highly positive
 - f. Unsure
11. What kind of impact would you say ASARCO reopening would have on businesses looking to relocate in El Paso?
 - a. Highly negative
 - b. Negative

- c. None
 - d. Positive
 - e. Highly positive
 - f. Unsure
12. If a business contact is considering El Paso as a relocation or expansion target, would you mention ASARCO in a:
- a. Highly positive light
 - b. Positive light
 - c. Would not mention it
 - d. Negative light
 - e. Highly negative light
13. How many people does your business employ?
- a. 10 or fewer employees
 - b. 11-50 employees
 - c. 51-100 employees
 - d. 101 or more employees
14. How many years have you been in business? _____ (Years)
- _____ Months (only enter month if respondent answers in months)
15. Zip code _____
16. What industry sector does your business fall under? (Let them first tell you but if you can't match what they say to any of the below options then go over the options with them, if still unsure select "Not Sure" and enter their response in the text box.)
- a. Agriculture, Forestry, Fishing and Hunting
 - b. Mining, Quarrying, and Oil and Gas Extraction
 - c. Utilities
 - d. Construction
 - e. Manufacturing
 - f. Wholesale Trade
 - g. Retail Trade

- h. Transportation and Warehousing
 - i. Information
 - j. Finance and Insurance
 - k. Real Estate and Rental and Leasing
 - l. Professional, Scientific, and Technical Services
 - m. Management of Companies and Enterprises
 - n. Administrative and Support and Waste Management and Remediation Services
 - o. Educational Services
 - p. Health Care and Social Assistance
 - q. Arts, Entertainment, and Recreation
 - r. Accommodation and Food Services
 - s. Other Services (except Public Administration)
 - t. Public Administration
 - u. Not _____ sure (Specify)
-

Thank you very much for your time.

Appendix I

Frequency Distribution for Businesses in El Paso, TX

1a) What is your title?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Owner	252	44.7	44.7	44.7
General Manager	169	30.0	30.0	74.6
Other	143	25.4	25.4	100.0
Total	564	100.0	100.0	

1a) What is your title?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Owner	252	44.7	44.7	44.7
General Manager	169	30.0	30.0	74.6
Other	143	25.4	25.4	100.0
Total	564	100.0	100.0	

2b) How much should we spend on Fighting Crime?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Great Deal More	165	29.3	29.4	29.4
Somewhat More	215	38.1	38.3	67.6
Same Amount	154	27.3	27.4	95.0
Somewhat Less	16	2.8	2.8	97.9
Great Deal Less	4	.7	.7	98.6
Not Sure	8	1.4	1.4	100.0
Total	562	99.6	100.0	
Missing System	2	.4		
Total	564	100.0		

2c) How much should we spend on Protecting the Environment?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Great Deal More	183	32.4	32.6	32.6
Somewhat More	220	39.0	39.2	71.8
Same Amount	107	19.0	19.1	90.9
Somewhat Less	25	4.4	4.5	95.4
Great Deal Less	7	1.2	1.2	96.6
Not Sure	19	3.4	3.4	100.0
Total	561	99.5	100.0	
Missing System	3	.5		
Total	564	100.0		

2d) How much should we spend on Border Security?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Great Deal More	153	27.1	27.4	27.4
	Somewhat More	175	31.0	31.3	58.7
	Same Amount	148	26.2	26.5	85.2
	Somewhat Less	52	9.2	9.3	94.5
	Great Deal Less	15	2.7	2.7	97.1
	Not Sure	16	2.8	2.9	100.0
	Total	559	99.1	100.0	
Missing	System	5	.9		
Total		564	100.0		

2e) How much should we spend on Public Health?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Great Deal More	218	38.7	39.0	39.0
	Somewhat More	217	38.5	38.8	77.8
	Same Amount	92	16.3	16.5	94.3
	Somewhat Less	14	2.5	2.5	96.8
	Great Deal Less	4	.7	.7	97.5
	Not Sure	14	2.5	2.5	100.0
	Total	559	99.1	100.0	
Missing	System	5	.9		
Total		564	100.0		

2f) How much should we spend on Creating Jobs?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Great Deal More	255	45.2	45.7	45.7
	Somewhat More	200	35.5	35.8	81.5
	Same Amount	73	12.9	13.1	94.6
	Somewhat Less	18	3.2	3.2	97.8
	Great Deal Less	4	.7	.7	98.6
	Not Sure	8	1.4	1.4	100.0
	Total	558	98.9	100.0	
Missing	System	6	1.1		
Total		564	100.0		

4a) How important is Reducing Air Pollution in Cities?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Extremely Important	139	24.6	24.7	24.7
	Very Important	208	36.9	36.9	61.6
	Somewhat Important	147	26.1	26.1	87.7
	Not Too Important	35	6.2	6.2	94.0
	Not Important at All	27	4.8	4.8	98.8
	Not Sure	7	1.2	1.2	100.0
	Total	563	99.8	100.0	
Missing	System	1	.2		
Total		564	100.0		

4b) How important is Reducing Taxes?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Extremely Important	194	34.4	34.4	34.4
	Very Important	186	33.0	33.0	67.4
	Somewhat Important	138	24.5	24.5	91.8
	Not Too Important	25	4.4	4.4	96.3
	Not Important at All	7	1.2	1.2	97.5
	Not Sure	14	2.5	2.5	100.0
	Total	564	100.0	100.0	

4c) How important is Improving Graduation Rates?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Extremely Important	148	26.2	26.3	26.3
	Very Important	253	44.9	44.9	71.2
	Somewhat Important	105	18.6	18.7	89.9
	Not Too Important	28	5.0	5.0	94.8
	Not Important at All	24	4.3	4.3	99.1
	Not Sure	5	.9	.9	100.0
	Total	563	99.8	100.0	
Missing	System	1	.2		
Total		564	100.0		

4d) How important are Better Paying Jobs?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Extremely Important	167	29.6	29.7	29.7
	Very Important	247	43.8	43.9	73.5
	Somewhat Important	106	18.8	18.8	92.4
	Not Too Important	30	5.3	5.3	97.7
	Not Important at All	7	1.2	1.2	98.9
	Not Sure	6	1.1	1.1	100.0
	Total	563	99.8	100.0	
Missing	System	1	.2		
Total		564	100.0		

4e) How important is Ethical Government?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Extremely Important	223	39.5	39.6	39.6
	Very Important	214	37.9	38.0	77.6
	Somewhat Important	81	14.4	14.4	92.0
	Not Too Important	23	4.1	4.1	96.1
	Not Important at All	13	2.3	2.3	98.4
	Not Sure	9	1.6	1.6	100.0
	Total	563	99.8	100.0	
Missing	System	1	.2		
Total		564	100.0		

5) Are you aware of the ASARCO facility?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	546	96.8	96.8	96.8
	No	18	3.2	3.2	100.0
	Total	564	100.0	100.0	

6) Have you read or heard about ASARCO trying to renew its air permit to renew operations?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	534	94.7	97.8	97.8
	No	8	1.4	1.5	99.3
	Not Sure	4	.7	.7	100.0
	Total	546	96.8	100.0	
Missing	System	18	3.2		
Total		564	100.0		

7) How would you describe your understanding of the process that ASARCO must go through to renew its air permit?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Very Well	118	20.9	22.1	22.1
	Moderately Well	199	35.3	37.3	59.5
	Slightly	151	26.8	28.3	87.8
	Not at All	65	11.5	12.2	100.0
	Total	533	94.5	100.0	
Missing	System	31	5.5		
Total		564	100.0		

8) Are you in favor of ASARCO reopening?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	256	45.4	47.0	47.0
	No	166	29.4	30.5	77.4
	Unsure	123	21.8	22.6	100.0
	Total	545	96.6	100.0	
Missing	System	19	3.4		
Total		564	100.0		

9) If ASARCO were to reopen, how would you describe its impact on your business?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Highly Negative	22	3.9	4.0	4.0
	Negative	38	6.7	7.0	11.0
	No Impact	250	44.3	45.9	56.9
	Positive Impact	129	22.9	23.7	80.6
	Highly Positive Impact	38	6.7	7.0	87.5
	Unsure	68	12.1	12.5	100.0
	Total	545	96.6	100.0	
Missing	System	19	3.4		
Total		564	100.0		

10) What kind of impact would you say ASARCO reopening would have on your local suppliers?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Highly Negative	15	2.7	2.8	2.8
	Negative	27	4.8	5.0	7.7
	No Impact	194	34.4	35.7	43.4
	Positive Impact	152	27.0	27.9	71.3
	Highly Positive Impact	54	9.6	9.9	81.3
	Unsure	102	18.1	18.8	100.0
	Total	544	96.5	100.0	
Missing	System	20	3.5		
Total		564	100.0		

11) What kind of impact would you say ASARCO reopening would have on businesses looking to relocate in El Paso?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Highly Negative	44	7.8	8.1	8.1
	Negative	82	14.5	15.0	23.1
	No Impact	110	19.5	20.2	43.3
	Positive Impact	143	25.4	26.2	69.5
	Highly Positive Impact	42	7.4	7.7	77.2
	Unsure	124	22.0	22.8	100.0
	Total	545	96.6	100.0	
Missing	System	19	3.4		
Total		564	100.0		

12) How would you mention ASARCO if a business contact were to tell you they were considering El Paso as a relocation or expansion target? In a:

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Highly Positive Light	32	5.7	5.9	5.9
	Positive Light	126	22.3	23.3	29.3
	Would Not Mention It	315	55.9	58.3	87.6
	Negative Light	42	7.4	7.8	95.4
	Highly Negative Light	25	4.4	4.6	100.0
	Total	540	95.7	100.0	
Missing	System	24	4.3		
Total		564	100.0		

13) How many people does your business employ?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	10 or fewer employees	370	65.6	65.7	65.7
	11-50 employees	138	24.5	24.5	90.2
	51-100 employees	32	5.7	5.7	95.9
	101 or more employees	23	4.1	4.1	100.0
	Total	563	99.8	100.0	
Missing	System	1	.2		
Total		564	100.0		

14) Years In Business

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	5 or Years or Less	126	22.3	22.3	22.3
	6 thru 10 Years	116	20.6	20.6	42.9
	11 thru 20 Years	143	25.4	25.4	68.3
	21 thru 30 Years	100	17.7	17.7	86.0
	31 thru 40 Years	45	8.0	8.0	94.0
	41 thru 50 Years	18	3.2	3.2	97.2
	More than 50 Years	16	2.8	2.8	100.0
	Total	564	100.0	100.0	

15) Area of Town

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Northeast	29	5.1	5.1	5.1
	West	103	18.3	18.3	23.4
	Central	175	31.0	31.0	54.4
	East/Far East	196	34.8	34.8	89.2
	Lower Valley/Socorro	55	9.8	9.8	98.9
	Non-El Paso	6	1.1	1.1	100.0
	Total	564	100.0	100.0	

16) What industry sector does your business fall under?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Agriculture, Forestry, Fishing and Hunting	5	.9	.9	.9
	Utilities	3	.5	.5	1.4
	Construction	34	6.0	6.0	7.4
	Manufacturing	49	8.7	8.7	16.1
	Wholesale Trade	27	4.8	4.8	20.9
	Retail Trade	69	12.2	12.2	33.2
	Transportation and Warehousing	28	5.0	5.0	38.1
	Information	11	2.0	2.0	40.1
	Finance and Insurance	40	7.1	7.1	47.2
	Real Estate and Rental and Leasing	42	7.4	7.4	54.6
	Professional, Scientific and Technical Services	61	10.8	10.8	65.4
	Management of Companies and Enterprises	1	.2	.2	65.6
	Administrative and Support and Waste Management and Remediation Services	14	2.5	2.5	68.1
	Educational Services	3	.5	.5	68.6
	Health Care and Social Assistance	65	11.5	11.5	80.1
	Arts, Entertainment and Recreation	11	2.0	2.0	82.1
	Accommodation and Food Services	29	5.1	5.1	87.2
	Other Services (except Public Administration)	68	12.1	12.1	99.3
	Not Sure	4	.7	.7	100.0
	Total	564	100.0	100.0	

Appendix J

El Paso County : Summary trends, benchmark value chain clusters, 1991-2006

Clusters	Employment									Payroll					
	Establishments	2006:Q3	Per Est.	% Private	CQGR		Location Quotient		mil \$	Average Wage (\$)					
					El Paso	US	Change	Ratio to		Ratio to	Ratio				
												'91-'06	'91-'06	2006:Q3	'91-'06
2006:Q3	2006:Q3	2006:Q3	2006:Q3	'91-'06	'91-'06	2006:Q3	'91-'06	2006:Q3	1991:Q3	US	2006:Q3	US	Change		
1 Textiles & apparel	52	2,257	43.4	1.1	-3.43	-1.49	1.7	-3.8	15.2	13,861	0.79	26,962	0.83	0.05	
2 Packaged food products	61	1,747	28.6	0.9	-1.16	-0.07	0.7	-0.6	10.4	14,583	0.65	23,813	0.69	0.03	
3 Plastics & rubber manufacturing	17	712	41.9	0.4	-0.75	-0.59	0.6	0.0	19.4	31,256	0.82	109,206	1.71	0.89	
4 Aluminum & aluminum products	16	1,069	66.8	0.5	-0.03	-0.39	0.9	0.2	9.9	23,136	0.74	37,181	0.75	0.01	
5 Basic health services	3,043	48,611	16.0	24.0	1.06	0.72	1.2	0.2	356.9	22,018	0.76	29,371	0.62	-0.14	
6 Mining	8	65	8.1	0.0	0.73	0.00	0.1	0.0	0.9	36,839	1.07	52,859	0.90	-0.17	
7 Farming	73	579	7.9	0.3	-0.93	-0.01	0.4	-0.3	2.3	12,653	0.93	16,230	0.70	-0.24	
8 Construction	982	12,612	12.8	6.2	0.71	0.79	0.9	0.0	94.5	16,705	0.63	29,966	0.70	0.06	
9 Financial services & insurance	1,484	28,320	19.1	14.0	1.23	0.67	1.0	0.3	197.1	21,767	0.75	27,836	0.53	-0.22	
10 Chemical-based products	7	49	7.0	0.0	0.56	-0.70	0.1	0.0	0.5	13,347	0.35	39,741	0.63	0.29	
11 Machine tools	71	1,554	21.9	0.8	1.41	-0.08	0.8	0.5	16.1	19,907	0.71	41,419	0.95	0.24	
12 Precision instruments	13	546	42.0	0.3	-1.18	-0.52	0.8	-0.3	5.8	20,089	0.64	42,844	0.70	0.06	
13 Printing & publishing	260	2,766	10.6	1.4	0.11	0.30	0.6	0.0	25.3	19,151	0.66	36,535	0.67	0.00	
14 Metalworking & fabr metal products	40	1,493	37.3	0.7	0.90	0.16	1.2	0.4	10.1	17,023	0.64	26,987	0.65	0.00	
15 Dairy products	21	411	19.6	0.2	-0.92	0.01	0.6	-0.4	3.8	18,917	0.80	36,634	1.04	0.24	
16 Nondurable industry machinery	67	1,762	26.3	0.9	-0.14	-0.13	0.6	0.0	15.0	17,821	0.58	34,061	0.67	0.10	
17 Computer & electronic equipment	52	1,367	26.3	0.7	-1.49	-0.43	0.6	-0.5	16.8	24,024	0.65	49,076	0.66	0.00	
18 Wood products & furniture	44	784	17.8	0.4	-0.84	-0.07	0.7	-0.4	4.4	13,903	0.69	22,292	0.66	-0.03	
19 Const machinery & distribution equip	14	585	41.8	0.3	2.69	-0.17	0.5	0.4	4.7	22,495	0.72	31,982	0.63	-0.09	
20 Wood processing	55	835	15.2	0.4	0.09	0.06	0.6	0.0	4.2	13,169	0.66	20,000	0.60	-0.06	
21 Paper	21	938	44.7	0.5	-0.30	-0.41	1.0	0.1	7.8	19,760	0.68	33,130	0.71	0.03	
22 Concrete, brick building products	53	2,024	38.2	1.0	0.57	0.37	1.2	0.2	20.2	20,352	0.84	39,945	1.02	0.18	
23 Motor vehicles	23	1,232	53.6	0.6	-1.01	-0.03	0.6	-0.4	11.4	23,830	0.72	37,161	0.68	-0.04	
24 Wood building products	64	2,862	44.7	1.4	0.63	0.28	1.6	0.3	25.3	18,710	0.79	35,347	0.92	0.13	
25 Plastics products	33	1,731	52.5	0.9	0.28	-0.02	1.2	0.2	12.9	17,736	0.63	29,771	0.69	0.05	
26 Feed products	87	833	9.6	0.4	-1.02	0.03	0.5	-0.4	3.2	12,287	0.72	15,380	0.54	-0.18	
27 Arts & media	1,524	17,620	11.6	8.7	0.18	0.33	0.8	-0.1	145.8	19,423	0.71	33,094	0.67	-0.04	
28 Higher education & hospitals	2,701	42,318	15.7	20.9	0.60	0.50	0.8	0.1	340.4	20,730	0.79	32,180	0.68	-0.11	
29 Information services	1,879	20,328	10.8	10.1	0.27	0.41	0.9	0.0	196.5	22,467	0.71	38,666	0.66	-0.05	
30 Petroleum & gas	69	2,064	29.9	1.0	-0.87	-0.29	0.8	-0.3	39.6	37,004	0.92	76,806	1.08	0.16	
31 Business services	2,720	43,991	16.2	21.8	0.74	0.61	1.0	0.1	311.1	19,413	0.72	28,288	0.57	-0.15	
32 Grain milling	0	0	n/a	0.0	n/a	-0.38	n/a	n/a	0.0	6,404	0.27	n/a	n/a	n/a	
33 Rubber products	16	409	25.6	0.2	-0.17	-0.36	0.5	0.1	3.6	16,998	0.59	34,768	0.78	0.18	
34 Glass products	12	603	50.3	0.3	1.55	-0.21	1.0	0.6	4.3	18,679	0.72	28,743	0.70	-0.02	
35 Pharmaceuticals	8	391	48.9	0.2	3.96	0.01	0.4	0.4	3.3	20,519	0.57	34,103	0.50	-0.07	
36 Steel milling	7	659	94.1	0.3	0.33	-0.52	1.9	0.8	5.9	19,791	0.56	35,695	0.62	0.06	
37 Nonresidential building products	214	4,326	20.2	2.1	0.48	0.44	1.0	0.1	40.9	21,483	0.69	37,833	0.70	0.00	
38 Tobacco products	0	0	n/a	0.0	n/a	-1.06	n/a	n/a	0.0	n/a	n/a	n/a	n/a	n/a	
39 Optical equipment & instruments	10	144	14.4	0.1	-2.67	-0.36	0.2	-0.6	1.3	16,783	0.59	36,129	0.70	0.11	
40 Appliances	61	3,282	53.8	1.6	0.64	0.24	1.7	0.4	28.6	19,322	0.79	34,856	0.88	0.09	
41 Copper & copper products	32	907	28.3	0.4	-0.99	-0.49	2.4	-0.7	9.9	31,226	1.12	43,706	0.95	-0.17	
42 Hotels & transportation services	2,400	45,358	18.9	22.4	1.05	0.60	1.2	0.3	313.2	18,026	0.76	27,617	0.68	-0.08	
43 Aerospace	5	248	49.6	0.1	-0.53	-0.79	0.2	0.0	3.4	43,362	1.08	54,397	0.71	-0.37	
44 Breweries & distilleries	11	732	66.5	0.4	-1.85	-0.23	1.1	-1.8	4.6	13,741	0.50	25,169	0.56	0.06	
45 Leather products	36	1,150	31.9	0.6	-1.35	-1.10	4.7	-0.6	8.4	15,007	0.79	29,246	0.82	0.03	
Total, establishments in VC sectors	7,374	132,231	17.9	65.4	0.24	0.36	0.9	0.0	1,053.7	19,253	0.71	31,875	0.67	-0.04	
Total Private, all establishments	11,098	202,247	18.2	100.0	0.34	0.39	n/a	n/a	1,349.3	17,029	0.72	26,686	0.66	-0.06	

Note: Regional data are from the Texas Workforce Commission (ES-202 file, confidential release). US data are from the US Bureau of Labor Statistics, Quarterly Census of Employment and Wages. Clusters are not mutually exclusive. Data are only for businesses "covered" under unemployment insurance law and include only private sector establishments. COGR: Compound quarterly growth rate (calculated to third quarter 2005 for the US). Quarterly wages are annualized. Sectors not assigned to any cluster include federal, state and local government; the US Postal Service; retail trade; basic consumer services; social services and religious organizations; and household employees. Methodology: Feser, Edward, 2004, "An updated set of benchmark value chains for the United States, 1997," Regional Economics Applications Laboratory, University of Illinois at Urbana-Champaign.

El Paso County : Summary trends, benchmark technology-based value chain clusters, 1991-2006

Clusters	Employment								Payroll					
	Establishments		Per Est.	% Private	CQGR		Location Quotient		mil \$	Average Wage (\$)				
					El Paso	US	Change	Ratio to US		Ratio to US	Ratio to US	Ratio to US		
	2006:Q3	2006:Q3			'91-'06	'91-'06			2006:Q3				'91-'06	2006:Q3
1 Chemicals	10	59	5.9	0.0	3.39	-0.53	0.1	0.1	0.5	35,560	0.91	35,824	0.57	-0.35
2 Precision instruments	8	108	13.5	0.1	-2.10	-0.44	0.2	-0.4	1.0	13,965	0.43	35,748	0.55	0.13
3 Engine equipment	24	2,104	87.7	1.0	0.46	-0.25	1.1	0.4	22.7	17,982	0.57	43,204	0.84	0.27
4 Computer & electronic equipment	22	1,209	55.0	0.6	-1.50	-0.52	0.6	-0.5	15.7	24,767	0.65	51,931	0.65	0.00
5 Information services	159	4,071	25.6	2.0	1.22	0.74	0.7	0.2	49.4	26,453	0.70	48,532	0.64	-0.06
6 Pharmaceuticals	3	334	111.3	0.2	7.25	0.12	0.5	0.4	3.0	16,746	0.45	35,625	0.49	0.04
7 Fertilizer & chemical products	3	9	3.0	0.0	-0.48	-0.68	0.0	0.0	0.1	11,278	0.28	39,491	0.58	0.30
8 Industrial machinery & distribution ec	5	15	3.0	0.0	-1.66	-0.07	0.0	0.0	0.2	20,382	0.66	40,565	0.74	0.09
9 Aerospace	4	237	59.3	0.1	-0.49	-0.77	0.3	0.1	3.2	42,120	1.07	54,836	0.74	-0.33
10 Medical instruments and optics	9	124	13.8	0.1	-2.88	-0.41	0.2	-0.6	1.3	17,115	0.56	42,264	0.78	0.22
11 Motor vehicles	18	1,169	64.9	0.6	-1.08	-0.18	0.7	-0.5	10.4	23,447	0.68	35,751	0.60	-0.08
12 Wiring devices & switches	167	1,526	9.1	0.8	0.12	0.49	0.5	-0.1	17.0	26,334	0.76	44,510	0.72	-0.04
13 Technical & research services	442	4,377	9.9	2.2	0.76	0.95	0.5	0.0	49.0	25,191	0.71	44,805	0.69	-0.02
14 Cable manufacturing	4	99	24.8	0.0	-1.95	-0.42	0.4	-0.5	1.2	21,941	0.75	46,509	0.94	0.19
15 Architectural & engineering services	373	2,796	7.5	1.4	0.59	0.97	0.4	-0.1	31.9	25,978	0.70	45,671	0.65	-0.04
Total, establishments in TVC sectors	660	12,398	18.8	6.1	0.13	0.23	0.6	0.0	143.8	24,690	0.69	46,405	0.69	0.00
Total Private, all establishments	11,098	202,247	18.2	100.0	0.34	0.39	n/a	n/a	1,349.3	17,029	0.72	26,686	0.66	-0.06

Note: Regional data are from the Texas Workforce Commission (ES-202 file, confidential release). US data are from the US Bureau of Labor Statistics, Quarterly Census of Employment and Wages. Clusters are not mutually exclusive. Data are only for businesses "covered" under unemployment insurance law and include only private sector establishments. CQGR: Compound quarterly growth rate (calculated to third quarter 2005 for the US). Quarterly wages are annualized. Sectors not assigned to any cluster include federal, state and local government; the US Postal Service; retail trade; basic consumer services; social services and religious organizations; and household employees. Methodology: Feser, Edward, 2004, "An updated set of benchmark value chains for the United States, 1997," Regional Economics Applications Laboratory, University of Illinois at Urbana-Champaign.