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SUMMARY OF WATER-USE DATA IN ALASKA, 1989

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INTRODUCTION

Water-use data in Alaska are useful for conducting water resources investigations, planning, adjudicating water rights, and facilitating sound economic development. The Alaska Water-Use Data System (AWUDS), operated by the Alaska Division of Geological and Geophysical Surveys (DGGS), collects, stores, evaluates, and distributes these data. DGGS cooperates closely with the U.S. Geological Survey (USGS) and the Alaska Division of Land and Water Management (DLWM) in operating AWUDS.

The goal of AWUDS is to establish and operate a statewide site-specific water-use database for most types of water use in Alaska, to coordinate with other water-use databases, and to publish water-use data. This report presents site-specific data reported from 207 active water-use take points in Alaska for calendar year 1989 with descriptions of data collection, verification, storage, and presentation methodologies. This is a decrease of 9 take points over 1988 data. The water-use data were collected from 70 unique user groups. Most of these data (53 percent) are from public-water supplies in 46 communities in Alaska. Forty-one reported water-use data points from crude petroleum and natural gas related use have the next highest number of take points as a group (20 percent) in this report. AWUDS contains only sporadic data in other water-use categories such as agricultural, commercial, or industrial water supply. This report also describes the location and accessibility of other publicly-available water-use data in Alaska.

LOCATION OF ALASKAN WATER-USE DATA

Statewide summaries of water use in Alaska are published at 5-year intervals by the USGS (U.S. Geological Survey, 1983, 1985). These summaries include both reported data

October 1990 (G.J. Prokosch, DLWM, oral commun., 1990). Southeast Region DLWM has 214 permits and 54 applications pending for mining water rights as of October 1990 (C.C. Landis, DLWM oral commun., 1990).

Most water-use data in Alaska are obtained through the water rights system which is administered by DLWM. Numerous water users are required to submit water-use data to DLWM as a condition of their water-use permits. DLWM maintains computer files of all water rights holders on a Land Administration System (LAS) database. LAS contains numerous databases of which the water rights and water-use systems are parts of. Water-use data are entered in a separate, but related, working area of the LAS and maintained by AWUDS personnel.

DATA ACQUISITION

AWUDS water-use data are acquired in three ways:

- 1) by obtaining photocopies of raw water-use records submitted to DLWM;
- 2) by requesting monthly water-use data from selected water users through questionnaire packets mailed at the beginning of each calendar year; and
- 3) by telephone conversations requesting water-use information from individuals, businesses, or other government agencies.

The first method of obtaining water-use data makes effective use of existing data collection activities of DLWM. DLWM requires metered water-use records from water rights permittees using 30,000 gal/day of water or more. Water-rights permittees using between 500 gal/day and 30,000 gal/day of water may be required to submit water-use

public water systems. DGGs also includes water uses that are in areas of hydrologic interest to the state. Many entities asked to report water use are being monitored for possible deletion from the AWUDS because of non-cooperation or reporting poor quality data. Generally, most sites chosen by DLWM for water-use data reporting continue to be asked by DGGs to cooperate because the quality of information received is at least adequate.

A third method of obtaining water-use data is used if water-use data cannot be collected through DLWM Water Management Section nor via the questionnaire packet. This method involves making personal contact by telephone or mail. Sometimes water-use information is more effectively obtained over the telephone because the feedback is immediate.

When monthly water-use reports from DLWM are missing, or monthly water-use questionnaire mailers lost or delinquent, mail or telephone inquiries are made to fill these gaps in data. DLWM personnel are contacted to make sure there are no missing reports available before reporting parties are contacted regarding missing data.

DATA COLLECTION METHODS

Water-use data are collected through use of water meters, weir techniques, pumping rate and time measurements, and reservoir level change calculations. Water use is most commonly recorded and reported monthly (77 percent). For some systems, daily, quarterly, semi-annual, or annual reports are made. Approximately 3 percent of all reports record water use on a quarterly basis and approximately 23 percent of the reports are sent

database as monthly totals, with information about the number of days per month that water was used or that data are available. Additionally, information such as location, type of water source, type of records, type of use, and qualitative accuracy are entered. These data are available to any LAS user familiar with water rights computer files.

An important feature of water-use data storage is the appropriate classification of types of water use. AWUDS utilizes the Standard Industrial Classification (SIC) system, which is described by the U.S. Office of Management and Budget (1987) as follows:

The Standard Industrial Classification was developed for use in the classification of establishments by type of activity in which they are engaged; for purposes of facilitating the collection, tabulation, presentation, and analysis of data relating to establishments; and for promoting uniformity and comparability in the presentation of statistical data collected by various agencies of the United States government, State agencies, trade associations, and private research organizations. To be recognized as an industry, the group of establishments constituting the proposed classification must be statistically significant in the number of persons employed, the volume of business conducted, and other measures of economic activity.

The SIC system provides for the correlation of unique 4-digit codes to different types of business activities (Appendix F). These codes are assigned to each water user and entered into the LAS system. In addition to classification of water use by type of business activity or establishment, data are assigned hydrologic unit codes as shown in figure 1.

To provide more flexibility in data manipulation and retrievals, the 1988 water use data were transferred from the LAS system to a Data General MV-8000 minicomputer known as the "geoprocessor". This computer has geographic information system capabilities and commercially-available statistical packages (SAS and SASGRAPH). The

data presented in this report were produced from geoprocessor files duplicated from the original LAS database.

All reported water users are assigned unique LAS file numbers. Approximately 84 percent (174) of all reported water users have some form of water rights; 42 percent are certificated, 30 percent are permitted, 6 percent are applications, 6 percent are closed; and the remaining 16 percent (33) are recorded as active water data points and do not have water rights. Priority dates of water rights are stored in the database under the water rights inquiry (WRI) screen data.

RESULTS

Table 1 summarizes types of reported water-use data in Alaska for 1988. In frequency, the dominant category is public water suppliers, representing data from all major communities in Alaska and many smaller ones from all geographic areas. Also, some water-use data are available from a diverse array of water-using establishments (see "other" category, Table 1).

A summary of data contained in this report is presented in Table 2. Appendix A contains complete explanations of data parameters and Appendix B contains a complete data listing ordered by facility name. Appendix C provides a cross reference between commonly used facility names and file numbers with LAS customer identification numbers and Alaska Department of Environmental Conservation (DEC) Public Water Supply Inventory (PWSI) identification number, for use in locating site specific data in Appendix B.

Table 2. Comparison of types of water use by types of withdrawal, 1989.

SIC Code	Description	Transferred Water (TW) (MG)*	Ground Water (GW)(MG)	Surface Water (SW) (MG)	Total (MG)	% of Total Use	% of Total TW Use	% of Total GW Use	% of Total SW Use
921	Aquaculture	11749.896	408.182	-	12158.079	5.22	66.06	5.40	-
1311	Crude Petroleum and Natural Gas	-	-	433.890	433.890	.19	-	-	.21
1629	Heavy Construction	-	14.930	-	14.930	<.01	-	.20	-
2091	Canned and Cured Seafoods	-	-	4.530	4.530	<.01	-	-	<.01
2092	Fresh and Frozen Seafoods	-	4.026	-	4.026	<.01	-	.05	-
2873	Nitrogenous Fertilizers	-	921.958	-	233.021	.10	-	12.21	-
2911	Petroleum Refining	-	233.021	-	233.021	.10	-	3.09	-
4424	Marine Terminal	-	-	72.937	72.937	.03	-	-	.04
4612	Crude Petroleum Pipeline Services	-	6.974	-	6.974	<.01	-	.09	-
4912	Hydroelectric Power Generation	-	-	165718.671	165718.671	71.14	-	-	79.74
4941	Public Water Supply	4788.508	5832.451	9472.505	20093.464	8.63	-	-	-
4952	Sewerage Systems	-	-	31275.003	31275.003	13.43	-	-	15.05
6512	Non-residential Building Operations	-	.283	-	.283	<.01	-	<.01	-
7542	Car Wash	-	.629	-	.629	<.01	-	<.01	-
7999	Recreational Services	-	6.482	-	6.482	<.01	-	.09	-
8211	Secondary School	-	3.465	-	3.465	<.01	-	.05	-
8221	University	-	13.328	-	13.328	<.01	-	.18	-
8422	Zoological Garden	-	1.874	-	1.874	<.01	-	.02	-
9711	National Security	1016.53	104.660	856.367	1977.390	.85	5.79	1.39	.41
TOTAL		17554.767	7552.263	207833.903	232940.934	100.00	100.00	100.01	100.01

* MG = Million Gallons

DLWM definition used in this report differs from the definition of a "public water system" used by SIC and DEC. DEC defines a public water system as:

...any source of water, intake works, collection system, treatment works, storage facility, or distribution system from which water is available for human consumption; the term includes, but is also not limited to, systems providing water to more than one residential dwelling unit, or to a factory, office building, restaurant, school or other similar facility, but does not include a system serving only a single-family residence. (Alaska Department of Environmental Conservation, 1982).

DEC lists 2,777 active public water systems in Alaska (K.L. Lindley, DEC, written commun., 1990) of which 124 are among the 207 sources contained in this report. The discrepancy between the 124 DEC public water systems and the 110 public water suppliers contained in this report (Table 1) is attributable to the greater number of classification categories of the SIC system as compared to the DEC system. The large number (approximately 2,653) of public water systems not contained in this report are mostly relatively small systems. This illustrates, however, that even in a water-use category that has received emphasis from the AWUDS program, a significant amount of water use may be unreported.

Fifty-three percent of all reported water use occurred in the East Cook Inlet area which includes the Municipality of Anchorage (including Eagle River and Girdwood), Palmer, Kenai, Soldotna, and Homer. The next highest area of reported water uses (25 percent) occurs in the Prince William Sound/Eastern Kenai area (hydrologic unit 54). A

DISCUSSION

Water-use data reported here do not always accurately represent actual or complete water use in Alaska. Field verification by AWUDS personnel of water-users data collection procedures does not occur. Water meters are commonly uncalibrated, especially in smaller communities, and leaky water-supply lines occur. Many of the water users with large leakage problems are smaller communities with inadequate funding for maintenance and communities with shallowly-buried water supply lines that are subject to freezing and bursting. Additionally, even though public water supplies are usually used year-round, data are partially missing for 5 of the 207 sources listed in Appendix A.

As previously mentioned, this report does not describe all water use in Alaska in 1989. In addition to omitting data available elsewhere on hydroelectric use, oil and gas related water extraction, and mining use, water is estimated to have been used in Alaska in significantly greater quantities than are reported here for public water-supply, agriculture, seafood processing, manufacturing, and retail trade (U.S. Geological Survey, 1985). Considering all uses of water, the USGS (1985) estimated that 707,005 MG of water was used during 1985. Assuming that water use has not significantly changed between 1985 and 1989, this indicates that only approximately 33 percent of all water use is reported here.

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APPENDIX A

Explanation of Table Headings

The following are explanations of the headings used for information printed in the tables for this report, listed in the order in which they appear.

FAC NAME or FACILITY NAME	The name of the water-using facility or installation with drawing, returning, delivering or releasing, water.
FILE, TYPE, FILE TYPE, or FILE NUMBER	A unique combination of the File Type and Number associated with this case. File types are initiated from the Alaska Division of Lands (ADL) and LAS, respectively. File may be split into TYPE and NUMBER for some tables.
CID	The Customer Identification Number (CID) is a unique code, six-digit maximum length, used to identify the customer in the LAS. Established when new customers are initiated.
DEC-ID	A unique identification number assigned to a well by DEC as part of their statewide PWSI. "A", "B", or "C" following DEC-ID # indicates the DEC water source class.
LATITUDE	The latitude of the water-using facility in degrees, minutes, and seconds. Precision to nearest tenth of a second.
LONGITUDE	The longitude of the water-using facility in degrees, minutes, and seconds. Precision to the nearest tenth of a second. East or west longitude indicated.
MERIDIAN	The meridian that the using facility is located in. (Alaska meridians are Copper River, Fairbanks, Kateel, Seward, and Umiat).
TOWN	The township that the using facility is located in.
RANGE	The range that the using facility is located in.
SECTION	The section that the using facility is located in.
QQ, Q	Aliquot parts of a section, describing the location of the using facility. Quarter quarter (QQ), and quarter (Q) sections are the limit of resolution, chosen from NE, NW, SW, or SE.
CN	The number of chains north of the south line of the Section. A chain equals 66 ft.
CW	The number of chains west of the east line of the Section. A chain equals 66 ft.
SOURCE/ DESTINATION	The name of the river, lake, bay, principal aquifer, public water supplier, sewage treatment facility, or entity from which water is withdrawn by the using facility. The name of the river, lake, bay, principal aquifer, public water supplier, sewage treatment facility, or entity to which water is returned or sent.
STATUS DESCRIPTION	A two-word code used to describe the status of water rights casefile for this particular water source and using facility.

- Good - the figure for the amount of water used is accurate to within 5 to 10 percent of the actual value
- Fair - the figure for the amount of water used is accurate within a range of 10 to 25 percent of the actual value
- Poor - The figure for the amount of water used contains more than a 25 percent error.

The code used is subjectively determined by conversations with meter readers and individuals reporting data. The degree of accuracy is sometimes absolutely known by meter calibrations or actual measurements with other types of flow meters. In instances when the accuracy cannot be reasonably determined, the code is chosen as fair or poor, depending on condition of equipment used or methods.

CONN.	The number of connections branching from the respective water source or supply line. This information is obtained from the DEC PWSI.
WELLS	The number of wells or sets of local springs associated with a particular water-use file type and number and used during the report year. The number of wells listed on a water right may be more than that actually used.
MONTHS	The number of months of the report period year that water-use records were available. A water source may have been used a greater number of months than is shown under this category because of the lack of reported data.
DAYS	The number of days per year that the water source was reported to have been used.
DAILY AVG or DAILYAVG	The average daily amount of water used per day computed for the number of days the water source was reportedly used during the year. Reported in MGD.
YEARLY AVG	The average daily amount of water used per day computed for the number of days in the report year. Reported in MGD. This entry is not calculated and a "." will appear if water-use reports for the calendar year are incomplete. Length of report years may vary from calendar years. YEARLY AVG may differ from DAILY AVG.
MAX. MONTH	The month of the calendar year during which the maximum amount of water was withdrawn or returned from a body of water according to available records. May be indeterminate because of lack or quality of data and field will be blank.
MIN. MONTH	The month of the calendar year during which the minimum amount of water was withdrawn or returned from a body of water according to available records. May be indeterminate because of lack or quality of data and field will be blank.
HYD	The two digit hydrologic unit code for using facility, based on State revisions to the USGS map series, "State Basic Hydrologic Unit Maps" (fig. 1). The series provides a set of maps showing drainage, culture, and hydrologic boundaries. The codes are as follows:

APPENDIX B. Water use in Alaska, 1989, arranged by facility name.

ALASKA WATER-USE DATA SYSTEM 1989 SUMMARY REPORT ALASKA DIVISION OF GEOLOGICAL AND GEOPHYSICAL SURVEYS																		
FACILITY NAME				FILE	CID	DEC-ID	LATITUDE	LONGITUDE	MERIDIAN	TOWN	RANGE	SEC	QQ	Q	CN	CW		
SOURCE / DESTINATION				STATUS DESCRIPTION		POP.	FS	USE CODE	WS	USE TYPE	NWUDS							
SIC	RECORDS	PERIOD	ACCURACY	CONN.	WELLS	MONTHS	DAYS	DAILY AVG	YEARLY AVG	MAX. MONTH	MIN. MONTH	HYD						
JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER							
AK. DEPT. OF FISH & GAME, FRED DIVISION				LAS 12263	163021			611450.3	1494217.2	W	SEWARD	013N	002W	6	SE	NW	46	49
WELL #9 / FT. RICHARDSON HATCHERY				PERMIT ISSUED				1	WITHDRAWAL	1	GROUNDWATER		AQUACULTURE					
921 METERED MONTHLY GOOD					1	12	365	1.1183	1.1183	1.1183		FEBRUARY					53	
1.0800 1.0368 1.0800				1.0720	1.0800	1.1520		1.1520	1.1520	1.1520	1.1520	1.1520	1.1520	1.1520	1.1520	1.1520		
ALASKA ENERGY AUTHORITY, DCED				ADL 67278	124562			610425.4	1461808.5	W	COPPER RIVER	009N	006W	21	NE	SW	39	45
SOLOMON LAKE / POWERHOUSE				PERMIT ISSUED				1	WITHDRAWAL	1	SURFACE WATER		HYDROELECTRIC POWER					
4912 CALCULATED MONTHLY GOOD					1	12	365	63.5478	63.5478	63.5478	SEPTEMBER	APRIL					54	
61.0603 62.2666 60.0869				22.0460	66.6449	65.3570		67.8275	78.8749	107.9534	46.6188	63.4975	60.3665					
ALASKA ENERGY AUTHORITY, DCED				ADL 201559	124562			574107.1	1525447.2	W	SEWARD	029S	023W	2	NE	SE	0	0
TERROR LAKE-RIVER PWRHOUSE / KIZHUYAK RV				PERMIT ISSUED				1	WITHDRAWAL	1	SURFACE WATER		HYDROELECTRIC POWER					
4912 METERED MONTHLY GOOD					1	12	365	88.8921	88.8921	88.8921	MARCH	JANUARY					51	
79.8792 96.9085 97.7616				90.3488	92.6108	90.3488		86.5776	89.4182	86.4712	86.7103	84.7586	87.5699					
ALASKA ENERGY AUTHORITY, DCED				LAS 10581	124562	244646B		594549.2	1505716.1	W	SEWARD	005S	010W	10	NW	NE	69	22
WELL /BRADLEY LAKE CONSTRUCT & CAMP				USE PERMIT ISSUED		2,000		1	WITHDRAWAL	1	GROUNDWATER		COMMERCIAL					
1629 METERED MONTHLY GOOD					1	12	365	0.0409	0.0409	0.0409							53	
0.0260 0.0281 0.0281				0.0281	0.0503	0.0503		0.0503	0.0645	0.0645	0.0645	0.0645	0.0174	0.0174				
ALASKA POWER AND TELEPHONE COMPANY				LAS 12268	106255			592704.8	1351837.6	W	COPPER RIVER	028S	059E	13	NW	NW	70	74
DEWEY LAKE / POWERHOUSE				PERMIT ISSUED				1	WITHDRAWAL	1	SURFACE WATER		HYDROELECTRIC POWER					
4912 CALCULATED MONTHLY GOOD					1	12	365	8.1534	8.1534	8.1534	JUNE	APRIL					62	
2.3460 1.5834 0.9177				0.4912	11.8268	18.0310		17.5721	15.0129	10.7475	11.7040	4.9828	2.0422					
ALASKA ZOO				LAS 3260	174735	215401B		610732.7	1494728.0	W	SEWARD	012N	003W	15	SE	SW	13	52
WELL / ELEPHANT HOUSE				APPLICATION ACCEPTED				1	WITHDRAWAL	1	GROUNDWATER		COMMERCIAL					
8422 METERED MONTHLY FAIR					1	12	365	0.0003	0.0003	0.0003	DECEMBER	NOVEMBER					53	
0.0002 0.0002 0.0003				0.0003	0.0003	0.0003		0.0003	0.0002	0.0002	0.0002	0.0002	0.0002	0.0008				
ALASKA ZOO				LAS 3260	174735	215401B		610732.7	1494728.0	W	SEWARD	012N	003W	15	SE	SW	13	52
WELL / POLAR BEAR HOUSE				APPLICATION ACCEPTED				1	WITHDRAWAL	2	GROUNDWATER		COMMERCIAL					
8422 METERED MONTHLY GOOD					1	12	365	0.0024	0.0024	0.0024	APRIL	DECEMBER					53	
0.0017 0.0029 0.0028				0.0038	0.0033	0.0032		0.0025	0.0013	0.0025	0.0019	0.0015	0.0012					
ALASKA ZOO				LAS 3261	174735	215401B		610726.2	1494723.9	W	SEWARD	012N	003W	15	SE	SW	3	49
PUMPHOUSE WELL / PUBLIC SUPPLY				APPLICATION ACCEPTED				1	WITHDRAWAL	1	GROUNDWATER		COMMERCIAL					
8422 METERED MONTHLY FAIR					1	12	365	0.0025	0.0025	0.0025	OCTOBER	SEPTEMBER					53	
0.0028 0.0024 0.0025				0.0024	0.0020	0.0030		0.0023	0.0024	0.0018	0.0031	0.0022	0.0026					
ALYESKA PIPELINE SERVICE COMPANY				ADL 64153	124668	320010B		685026.5	1484934.4	W	UMIAT	007S	014E	16	NW	NW	66	77
WELL / PUMP STATION #3				PERMIT ISSUED				1	WITHDRAWAL	1	GROUNDWATER		INDUSTRIAL					
4612 METERED MONTHLY GOOD					2	12	365	0.0076	0.0076	0.0076	NOVEMBER	APRIL					11	
0.0086 0.0074 0.0064				0.0055	0.0079	0.0065		0.0065	0.0074	0.0080	0.0078	0.0112	0.0077					

APPENDIX B. Water use in Alaska, 1989, arranged by facility name.

ALASKA WATER-USE DATA SYSTEM 1989 SUMMARY REPORT ALASKA DIVISION OF GEOLOGICAL AND GEOPHYSICAL SURVEYS													
FACILITY NAME		FILE		CID	DEC-ID	LATITUDE	LONGITUDE	MERIDIAN	TOWN	RANGE	SEC	Q	CN CW
SOURCE / DESTINATION		STATUS DESCRIPTION		POP.	FS	USE CODE	WS	USE TYPE	NWUDS				
SIC	RECORDS	PERIOD	ACCURACY	CONN.	WELLS	MONTHS	DAYS	DAILY AVG	YEARLY AVG	MAX. MONTH	MIN. MONTH	HYD	
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
ANCHORAGE, MUN. (AWMU) WELL #41, TOWN & COUNTRY / ANCHORAGE 4941 METERED MONTHLY GOOD 0.0339 0.0504 0.0274				ADL 50924 167803 CERTIFICATE ISSUED				610924.5 1495719.0 W	SEWARD	012N	004W	3 NE SE	25 16
								1 WITHDRAWAL 1	GROUNDWATER				
								0.0639 0.0425	JUNE				
								0.0828 0.0579	0.0000	0.0000	0.0000	0.0000	
ANCHORAGE, MUN. (AWMU) E.R.#4 / EAGLE RIVER HEIGHTS NORTH 4941 METERED MONTHLY GOOD 0.0011 0.0042 0.0503				ADL 51573 167803 CERTIFICATE ISSUED				611907.0 1493216.8 W	SEWARD	014N	002W	12 SE NE	41 4
								1 WITHDRAWAL 1	GROUNDWATER				
								0.0272 0.0250	MAY				
								0.0418 0.0333	0.0268	0.0035	0.0000	0.0044	
ANCHORAGE, MUN. (AWMU) WELL #10A, CHUGACH FOOTHILLS / ANCHORAGE 4941 METERED MONTHLY GOOD 1.6919 1.6389 1.3869				ADL 54850 167803 CERTIFICATE ISSUED		210980C		611030.7 1494315.1 W	SEWARD	013N	003W	36 SE NE	47 13
								1 WITHDRAWAL 1	GROUNDWATER				
								0.9366 0.9366	JANUARY				
								1.0492 1.0901	0.5414	0.2027	0.3292	0.0285	
ANCHORAGE, MUN. (AWMU) WELL #11B, CHUGACH FOOTHILLS / ANCHORAGE 4941 METERED MONTHLY GOOD 0.7258 1.6002 1.6030				ADL 54850 167803 CERTIFICATE ISSUED				611030.7 1494315.1 W	SEWARD	013N	003W	36 SE NE	47 13
								1 WITHDRAWAL 2	GROUNDWATER				
								0.9212 0.9212	MAY				
								1.1495 0.9866	0.2126	0.0695	0.2517	0.0101	
ANCHORAGE, MUN. (AWMU) WELL #25, MILITARY #1 / ANCHORAGE 4941 METERED MONTHLY GOOD 0.2745 0.2795 0.2333				ADL 62222 167803 CERTIFICATE ISSUED				611117.6 1494242.9 W	SEWARD	013N	002W	30 NW SW	39 69
								1 WITHDRAWAL 1	GROUNDWATER				
								0.3321 0.3321	JUNE				
								0.5954 0.2869	0.3726	0.1015	0.0907	0.0629	
ANCHORAGE, MUN. (AWMU) WELL #28A, WINCHESTER HEIGHTS / ANCHORAGE 4941 METERED MONTHLY GOOD 0.0304 0.0260 0.0168				ADL 63855 167803 PERMIT ISSUED				610851.5 1494818.2 W	SEWARD	012N	003W	9 SE NE	54 9
								1 WITHDRAWAL 1	GROUNDWATER				
								0.0363 0.0332	JULY				
								0.1210 0.0265	0.0149	0.0517	0.0006	0.0000	
ANCHORAGE, MUN. (AWMU) WELL #7, 40TH AVE & DENALI / ANCHORAGE 4941 METERED MONTHLY GOOD 0.3467 0.3613 0.3315				ADL 65787 167803 CERTIFICATE ISSUED		210956C		611108.6 1495228.1 W	SEWARD	013N	003W	30 NW SE	25 24
								1 WITHDRAWAL 1	GROUNDWATER				
								0.3440 0.3440	JULY				
								1.1332 0.3173	0.0990	0.1951	0.1966	0.0574	
ANCHORAGE, MUN. (AWMU) WELL #9, CENTENNIAL PARK / ANCHORAGE 4941 METERED MONTHLY GOOD 0.0380 0.1444 0.1690				ADL 67201 167803 CERTIFICATE ISSUED		210972C		611344.5 1494303.0 W	SEWARD	013N	003W	12 NE SE	25 4
								1 WITHDRAWAL 1	GROUNDWATER				
								0.1340 0.1340	NOVEMBER				
								0.1371 0.1381	0.1106	0.1413	0.2212	0.1096	
ANCHORAGE, MUN. (AWMU) WELL #35A, ALAGCO / ANCHORAGE 4941 METERED MONTHLY GOOD 0.0510 0.1139 0.1125				ADL 201555 167803 APPLICATION ACCEPTED				610923.2 1495250.0 W	SEWARD	012N	003W	6 NE SW	23 51
								1 WITHDRAWAL 1	GROUNDWATER				
								0.1353 0.1353	JULY				
								0.4007 0.0557	0.1048	0.1033	0.1050	0.1882	

APPENDIX B. Water use in Alaska, 1989, arranged by facility name.

ALASKA WATER-USE DATA SYSTEM 1989 SUMMARY REPORT ALASKA DIVISION OF GEOLOGICAL AND GEOPHYSICAL SURVEYS													
FACILITY NAME	FILE	CID	DEC-ID	LATITUDE	LONGITUDE	MERIDIAN	TOWN	RANGE	SEC	QQ	Q	CN	CW
SOURCE / DESTINATION	STATUS DESCRIPTION	POP.	FS	USE CODE	WS	USE TYPE	NWUDS						
SIC	RECORDS	PERIOD	ACCURACY	CONN.	WELLS	MONTHS	DAYS	DAILY AVG	YEARLY AVG	MAX. MONTH	MIN. MONTH	HYD	
JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
ANCHORAGE, MUN. (AMMU) OBERG WELL, 184' / PETERS CREEK 4941 METERED MONTHLY GOOD	LAS 11862 APPLICATION ACCEPTED	167803	212877A	612432.3	1492714.0	W	SEWARD	015N	001W	9 NE NE	62 17	WATER SUPPLIER	
0.0022	0.0026	0.0030	0.0044	0.0042	0.0045	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	JULY 53	
ANCHORAGE, MUN. (AMMU) ER WASTEWATER TREAT. PLANT / EAGLE RIVER 4952 METERED MONTHLY GOOD	LAS 12453 ACTIVE DATA POINT	167803		611853.3	1493520.9	W	SEWARD	014N	002W	11 SW NW	20 60	SEWAGE TREATMENT	
26.9000	25.0000	28.6000	29.3000	28.0000	24.4000	23.9000	26.5000	28.4000	29.1000	32.0000	33.8000	JULY 53	
ANCHORAGE, MUN. (AMMU) GIRDWOOD W. TREAT. PLANT / GLACIER CREEK 4952 METERED MONTHLY GOOD	LAS 12454 ACTIVE DATA POINT	167803	212259C	605700.5	1490902.5	W	SEWARD	010N	002E	19 NE NE	80 0	SEWAGE TREATMENT	
11.4040	11.4950	11.9390	20.4100	17.2180	10.8490	9.1400	12.8412	12.8412	15.9000	16.0090	8.0600	NOVEMBER 53	
ANCIENT TREE, INC. 101' WELL / SHORE OF ANCIENT TREE SUBD. 4941 METERED MONTHLY GOOD	LAS 2372 PERMIT ISSUED	10305	224256A	613549.7	1492114.8	W	SEWARD	017N	001E	6 NW NW	64 71	WATER SUPPLIER	
0.0089	0.0089	0.0089	0.0089	0.0089	0.0089	0.0089	0.0089	0.0089	0.0089	0.0089	0.0089	JULY 52	
ARCO ALASKA, INC. WEBSTER RESERVOIR / CAMP USE 1311 METERED MONTHLY GOOD	ADL 67781 PERMIT ISSUED	155174		701536.9	1481823.6	W	UMIAT	011N	015E	34 SE SW	18 53	MINING	
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2899	0.0000	0.0000	0.2947	0.2808	NOVEMBER 11	
ARCO ALASKA, INC. WEBSTER RESERVOIR / RIG USE 1311 METERED MONTHLY GOOD	ADL 67781 PERMIT ISSUED	155174		701536.9	1481823.6	W	UMIAT	011N	015E	34 SE SW	18 53	MINING	
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000	0.0001	OCTOBER 11	
ARCO ALASKA, INC. UGMURAVIK RIVER / KUPARUK CPF-1 FACILITY 1311 METERED MONTHLY GOOD	ADL 400793 CERTIFICATE ISSUED	155174		701936.4	1493741.8	W	UMIAT	011N	010E	9 NW NW	67 70	MINING	
0.0701	0.0706	0.0792	0.0692	0.0636	0.0600	0.0637	0.0726	0.0798	0.0725	0.0601	0.0543	DECEMBER 11	
ARCO ALASKA, INC. UNNAMED LAKE / KUPARUK DRILLING USE 1311 METERED MONTHLY GOOD	ADL 400793 CERTIFICATE ISSUED	155174		702540.0	1495023.8	W	UMIAT	012N	009E	3 SE NW	67 70	MINING	
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0011	0.0001	0.0000	0.0011	0.0000	NOVEMBER 11	
ARCO ALASKA, INC. UNNAMED LAKE / CAMP USE 1311 METERED MONTHLY GOOD	LAS 2762 CERTIFICATE ISSUED	155174		701726.1	1495338.9	W	UMIAT	011N	009E	20 NE SE	26 13	MINING	
0.0079	0.0087	0.0045	0.0063	0.0108	0.0035	0.0072	0.0041	0.0138	0.0175	0.0547	0.0063	JUNE 11	

APPENDIX B. Water use in Alaska, 1989, arranged by facility name.

ALASKA WATER-USE DATA SYSTEM 1989 SUMMARY REPORT ALASKA DIVISION OF GEOLOGICAL AND GEOPHYSICAL SURVEYS															
FACILITY NAME			FILE	CID	DEC-ID	LATITUDE	LONGITUDE	MERIDIAN	TOWN	RANGE	SEC	Q	Q	CN	CW
SOURCE / DESTINATION			STATUS DESCRIPTION		POP.	FS	USE CODE	WS	USE TYPE	NWUDS					
SIC	RECORDS	PERIOD	ACCURACY	CONN.	WELLS	MONTHS	DAYS	DAILY AVG	YEARLY AVG	MAX. MONTH	MIN. MONTH	HYD			
JANUARY			FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
ARCO ALASKA, INC. UNNAMED LAKE / CAMP USE 1311 METERED MONTHLY GOOD 0.0000 0.0000 0.0226			LAS 10094 155174 ACTIVE DATA POINT			12	61	702527.7 16 1494945.1 WITHDRAWAL 0.0184	3 W UMIAT SURFACE WATER 0.0031	012N	009E	3 SE NW	48 50		11
			0.0142	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	MARCH	0.0000	0.0000	0.0000		
ARCO ALASKA, INC. UNNAMED LAKE/ ICE ROAD USE 1311 METERED MONTHLY GOOD 0.0000 0.0000 0.0000			LAS 10094 155174 ACTIVE DATA POINT			12	31	702541.9 20 1494835.4 WITHDRAWAL 0.0009	2 W UMIAT SURFACE WATER 0.0001	012N	009E	3 SE NW	70 14		11
			0.0009	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	MARCH	0.0000	0.0000	0.0000		
ARCO ALASKA, INC. VERN LAKE (SAG."C") / PRUDHOE ICE ROADS 1311 METERED MONTHLY GOOD 0.0000 0.0000 0.0071			LAS 12166 106346 PERMIT ISSUED			12	31	701443.1 1 1481534.9 WITHDRAWAL 0.0071	2 W UMIAT SURFACE WATER 0.0006	010N	015E	2 SE SW	15 45		11
			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	MARCH	0.0000	0.0000	0.0000		
ARCO ALASKA, INC. UNNAMED LAKE /PRUDHOE BAY RIG USE, 1311 METERED MONTHLY GOOD 0.0759 0.0664 0.0702			LAS 12166 106346 SAG C PERMIT ISSUED			12	365	702158.0 1 1483050.2 WITHDRAWAL 0.0389	3 W UMIAT SURFACE WATER 0.0389	012N	014E	26 SE NW	45 45		11
			0.0536	0.0849	0.0238	0.0306	0.0427	0.0180	0.0006	MAY	0.0006	0.0006	0.0006		
ARCO ALASKA, INC. UNNAMED LAKE / PRUDHOE BAY RIG USE 1311 METERED MONTHLY GOOD 0.0000 0.0000 0.0000			LAS 12168 106346 PERMIT ISSUED			12	31	702158.0 1 1483050.2 WITHDRAWAL 0.0023	1 W UMIAT SURFACE WATER 0.0002	012N	014E	26 SE NW	45 45		11
			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	OCTOBER	0.0023	0.0000	0.0000		
ARCO ALASKA, INC. UNNAMED LAKE/ PRUDHOE BAY RIG USE, 1311 METERED MONTHLY GOOD 0.0000 0.0000 0.0000			LAS 12174 106346 DS-4 PERMIT ISSUED			12	183	701626.8 1 1481739.9 WITHDRAWAL 0.0231	3 W UMIAT SURFACE WATER 0.0116	011N	015E	27 SW SE	15 30		11
			0.0000	0.0000	0.0303	0.0577	0.0271	0.0221	0.0007	JULY	0.0002	0.0000	0.0000		
ARCO ALASKA, INC. PINGO LAKE / RIG USE 1311 METERED MONTHLY GOOD 0.0000 0.0000 0.0000			LAS 12188 106346 PERMIT ISSUED			12	31	701709.9 1 1482729.2 WITHDRAWAL 0.0007	1 W UMIAT SURFACE WATER 0.0001	011N	014E	24 SW SE	1 21		11
			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	DECEMBER	0.0000	0.0000	0.0007		
B & J VENTURES, INC. WELL / B & J VENTURES - SHOPPING CENTER 4941 METERED MONTHLY GOOD 0.0049 0.0080 0.0081			LAS 780 161533 213352A PERMIT ISSUED			12	365	613201.6 1 1492942.4 WITHDRAWAL 0.0058	4 W SEWARD GROUNDWATER 0.0058	017N	001W	29 NE SW	33 45		52
			0.0049	0.0048	0.0058	0.0071	0.0040	0.0058	0.0063	MARCH	0.0047	0.0047	0.0047		
BP EXPLORATION BIG LAKE / SOHIO 1311 METERED MONTHLY GOOD 0.0420 0.0420 0.0420			ADL 66117 124848 CERTIFICATE ISSUED			12	365	701720.3 1 1484249.0 WITHDRAWAL 0.0596	1 W UMIAT SURFACE WATER 0.0596	011N	013E	24 SW SE	17 24		11
			0.0277	0.0277	0.0277	0.0937	0.0937	0.0937	0.0742		0.0742	0.0742	0.0742		

APPENDIX B. Water use in Alaska, 1989, arranged by facility name.

ALASKA WATER-USE DATA SYSTEM 1989 SUMMARY REPORT ALASKA DIVISION OF GEOLOGICAL AND GEOPHYSICAL SURVEYS													
FACILITY NAME		FILE		CID	DEC-10	LATITUDE	LONGITUDE	MERIDIAN	TOWN RANGE SEC QQ Q		CN	CW	
SOURCE / DESTINATION		STATUS DESCRIPTION		POP.	FS	USE CODE	WS	USE TYPE	NW/DS				
SIC	RECORDS	PERIOD	ACCURACY	CONN.	WELLS	MONTHS	DAYS	DAILY AVG	YEARLY AVG	MAX. MONTH	MIN. MONTH	HYD	
JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
CONOCO, INC. SAG SITE "CM" / BADAMI EXPLORATORY WELL 1311 METERED MONTHLY GOOD 0.0000 0.0000 0.0000 0.0000 0.0000 12 4 0.0000 0.0263 0.0003 0.0000 0.0000 0.0000 0.0000 0.0263 11													
LAS 12542 106432 701938.3 1492313.9 W UMIAT 011N 011E 8 SE SW 70 14 ACTIVE DATA POINT 1 WITHDRAWAL 1 SURFACE WATER MINING 0.0263 0.0003 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0263 11													
CONOCO, INC. SHELL PIT / BADAMI EXPLORATORY WELL 1311 METERED MONTHLY GOOD 0.0000 0.0000 0.0000 0.0000 0.0000 12 9 0.0000 0.1177 0.0029 0.0000 0.0000 0.0000 0.0000 0.1177 11													
LAS 12542 106432 701938.3 1492313.9 W UMIAT 011N 011E 8 SE SW 70 14 ACTIVE DATA POINT 1 WITHDRAWAL 2 SURFACE WATER MINING 0.1177 0.0029 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.1177 11													
CRAIG, CITY OF WASTEWATER TREATMENT PLANT / OCEAN 4952 METERED MONTHLY GOOD 0.1291 0.0873 0.1748 0.1848 0.1124 12 365 0.1134 0.0934 0.1464 0.1007 0.1819 0.1745 0.1589 67													
ADL 62346 125358 552838.8 1330909.8 W COPPER RIVER 074S 081E 6 SE NE 13 23 CERTIFICATE ISSUED 1 RETURN 1 SURFACE WATER SEWAGE TREATMENT 0.1464 0.1464 0.1464 0.1464 0.1464 0.1464 0.1464 0.1464 0.1464 0.1464 0.1464 0.1464 0.1464 67													
CRAIG, CITY OF SUNNY HAY MT. SPRING / CITY OF CRAIG 4941 METERED MONTHLY GOOD 0.2561 0.3180 0.2442 0.2241 0.2188 12 365 0.2689 0.2760 0.2354 0.2148 0.1866 0.1909 0.1887 67													
ADL 62346 125358 552838.8 1330909.8 W COPPER RIVER 074S 081E 8 SE NE 54 24 CERTIFICATE ISSUED 1 WITHDRAWAL 1 GROUNDWATER WATER SUPPLIER 0.2354 0.2354 0.2354 0.2354 0.2354 0.2354 0.2354 0.2354 0.2354 0.2354 0.2354 0.2354 0.2354 67													
CRESTBROOK WATER ASSOC., INC. WELL / CRESTBROOK WATER ASSOCIATION 4941 METERED MONTHLY GOOD 0.0088 0.0088 0.0075 0.0120 0.0122 12 365 0.0078 0.0062 0.0085 0.0059 0.0075 0.0112 0.0073 53													
ADL 206632 125365 210867A 610842.4 1495304.4 W SEWARD 012N 003W 7 NW SW 40 62 CERTIFICATE ISSUED 1 WITHDRAWAL 1 GROUNDWATER WATER SUPPLIER 0.0085 0.0085 0.0085 0.0085 0.0085 0.0085 0.0085 0.0085 0.0085 0.0085 0.0085 0.0085 0.0085 53													
DILLINGHAM, CITY OF WATER TREATMENT PLANT / DILLINGHAM 4941 METERED MONTHLY GOOD 0.1143 0.1337 0.1291 0.1161 0.1598 12 365 0.2085 0.1069 0.1290 0.0911 0.0807 0.1084 0.1238 42													
ADL 46054 125481 590222.4 1582702.0 W SEWARD 013S 055W 21 NW NE 59 15 CERTIFICATE ISSUED 1 RELEASE 1 TRANSFERRED WATER WATER SUPPLIER 0.1290 0.1290 0.1290 0.1290 0.1290 0.1290 0.1290 0.1290 0.1290 0.1290 0.1290 0.1290 0.1290 42													
DILLINGHAM, CITY OF WELL #1 / CITY OF DILLINGHAM 4941 METERED MONTHLY GOOD 0.0243 0.0265 0.0072 0.0261 0.0159 12 365 0.0333 0.0154 0.0375 0.0243 0.0000 0.1084 0.1238 42													
ADL 46054 125481 590222.4 1582702.0 W SEWARD 013S 055W 21 NW NE 70 28 CERTIFICATE ISSUED 1 WITHDRAWAL 1 GROUNDWATER WATER SUPPLIER 0.0375 0.0375 0.0375 0.0375 0.0375 0.0375 0.0375 0.0375 0.0375 0.0375 0.0375 0.0375 0.0375 42													
DILLINGHAM, CITY OF WELL #2 / CITY OF DILLINGHAM 4941 METERED MONTHLY GOOD 0.0731 0.0838 0.0923 0.0805 0.0968 12 304 0.0681 0.0955 0.0710 0.0911 0.0807 0.0000 0.0000 42													
ADL 46054 125481 590222.4 1582702.0 W SEWARD 013S 055W 21 NW NE 59 15 CERTIFICATE ISSUED 1 WITHDRAWAL 2 GROUNDWATER WATER SUPPLIER 0.0852 0.0852 0.0852 0.0852 0.0852 0.0852 0.0852 0.0852 0.0852 0.0852 0.0852 0.0852 0.0852 42													
EEK, CITY OF EEK RIVER / WATER TREATMENT PLANT 4941 METERED MONTHLY GOOD 0.0015 0.0014 0.0009 0.0010 0.0019 12 365 0.0015 0.0011 0.0012 0.0007 0.0009 0.0012 0.0010 41													
LAS 11320 7264 270281A 601248.6 1620033.1 W SEWARD 002N 073W 31 NE SW 0 0 ACTIVE DATA POINT 1 WITHDRAWAL 1 SURFACE WATER WATER SUPPLIER 0.0012 0.0012 0.0012 0.0012 0.0012 0.0012 0.0012 0.0012 0.0012 0.0012 0.0012 0.0012 0.0012 41													

APPENDIX B. Water use in Alaska, 1989, arranged by facility name.

ALASKA WATER-USE DATA SYSTEM 1989 SUMMARY REPORT ALASKA DIVISION OF GEOLOGICAL AND GEOPHYSICAL SURVEYS													
FACILITY NAME		FILE	CID	DEC-ID	LATITUDE	LONGITUDE	MERIDIAN	TOWN	RANGE	SEC	QQ	Q	CN CW
SOURCE / DESTINATION		STATUS DESCRIPTION		POP.	FS	USE CODE	WS	USE TYPE		NWUDS			
SIC	RECORDS	PERIOD	ACCURACY	CONN.	WELLS	MONTHS	DAYS	DAILY AVG	YEARLY AVG	MAX. MONTH	MIN. MONTH	HYD	
JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
FAIRBANKS MUNICIPAL UTILITY SYSTEM WELL 2A / CITY OF FAIRBANKS 4941 METERED MONTHLY 0.0000 0.0000 0.0000		ADL 53813 CERTIFICATE ISSUED 1 0.0270 0.0000	114790 12 0.0017	310730A 60	645052.4 1 0.0000	1474403.0 2 0.0144 0.0000	W GROUNDWATER 0.0024	FAIRBANKS 001S APRIL	001W 10 NW NW 0.0000	001W 10 NW NW 0.0000	72 JUNE 0.0000	61 34 0.0000	
FAIRBANKS MUNICIPAL UTILITY SYSTEM WELL 3A / CITY OF FAIRBANKS 4941 METERED MONTHLY 0.0000 0.0000 0.0000		ADL 53813 CERTIFICATE ISSUED 1 0.0850 1.2339	114790 12 2.4480	310730A 153	645051.8 1 2.4381	1474355.3 3 1.4880 1.2207	W GROUNDWATER 0.6237	FAIRBANKS 001S JUNE	001W 10 NE NW 0.0000	001W 10 NE NW 0.0000	71 APRIL 0.0000	56 34 0.0000	
FAIRBANKS MUNICIPAL UTILITY SYSTEM WASTEWATER TREATMENT FACILITY / TANANA R 4952 METERED MONTHLY 5.0484 5.3214 5.2381		LAS 225 R CERTIFICATE ISSUED 5.9467 5.7290	114790 12 5.8200	3665	644811.3 1 5.4613	1474614.8 1 5.3932 5.3000	W SURFACE WATER 5.3932	FAIRBANKS 001S APRIL	001W 28 NW NW 5.2419	001W 28 NW NW 5.2400	64 JANUARY 5.1774	68 34 5.1774	
FORT YUKON, CITY OF MAIN WELL / WATER TREATMENT PLANT 4941 METERED MONTHLY 0.0124 0.0169 0.0168		LAS 11321 ACTIVE DATA POINT 1 0.0132 0.0158	6292 12 0.0140	360256A 365	663400.3 1 0.0238	1451600.1 1 0.0159 0.0175	W GROUNDWATER 0.0159	FAIRBANKS 020M JULY	012E 18 NE NE 0.0113	012E 18 NE NE 0.0161	79 OCTOBER 0.0146	49 32 0.0146	
GRAYLING, CITY OF WATER TREATMENT PLANT / LOOP 1 4941 METERED MONTHLY 0.0017 0.0018 0.0016		ADL 75908 APPLICATION ACCEPTED 1 0.0019 0.0017	125869 12 0.0020	280066A 365	625435.6 1 0.0022	1600459.8 1 0.0020 0.0019	W TRANSFERRED WATER 0.0020	SEWARD 033N OCTOBER	057W 34 NW SE 0.0028	057W 34 NW SE 0.0024	57 MARCH 0.0020	72 36 0.0020	
GRAYLING, CITY OF WATER TREATMENT PLANT / LOOP 2 4941 METERED MONTHLY 0.0035 0.0045 0.0055		ADL 75908 APPLICATION ACCEPTED 1 0.0049 0.0068	125869 12 0.0043	280066A 365	625435.6 1 0.0038	1542310.6 2 0.0064 0.0091	W TRANSFERRED WATER 0.0064	SEWARD 033N SEPTEMBER	027W 34 NW SE 0.0052	027W 34 NW SE 0.0044	57 JANUARY 0.0054	72 36 0.0054	
GRAYLING, CITY OF WATER TREATMENT PLANT / IDITAROD SCHOOL 4941 METERED MONTHLY 0.0005 0.0004 0.0005		ADL 75908 APPLICATION ACCEPTED 1 0.0015 0.0003	125869 12 0.0000	280066A 365	625435.6 1 0.0001	1542310.6 3 0.0005 0.0001	W TRANSFERRED WATER 0.0005	SEWARD 033N APRIL	027W 34 NW SE 0.0004	027W 34 NW SE 0.0005	57 JUNE 0.0008	72 36 0.0008	
GRAYLING, CITY OF GRAYLING CREEK / WATER TREATMENT PLANT 4941 METERED MONTHLY 0.0145 0.0108 0.0103		ADL 75908 APPLICATION ACCEPTED 52 0.0113 0.0108	125869 12 0.0148	280066A 250 365	625435.6 1 0.0126	1600459.8 1 0.0126 0.0260	W SURFACE WATER 0.0126	SEWARD 033N AUGUST	057W 34 NW SE 0.0090	057W 34 NW SE 0.0106	57 DECEMBER 0.0085	72 36 0.0085	
HILLSIDE PARK HOMEOWNER'S ASSOCIATION 283' WELL / HILLSIDE PARK SUBDIVISION 4941 METERED MONTHLY 0.0156 0.0156 0.0154		ADL 202909 CERTIFICATE ISSUED 1 0.0167 0.0187	165707 12 0.0232	212461A 190 365	610728.1 1 0.0249	1494444.3 1 0.0185 0.0193	W GROUNDWATER 0.0185	SEWARD 012N JULY	003W 14 SE SE 0.0179	003W 14 SE SE 0.0183	6 MARCH 0.0192	10 53 0.0192	

APPENDIX B. Water use in Alaska, 1989, arranged by facility name.

ALASKA WATER-USE DATA SYSTEM 1989 SUMMARY REPORT ALASKA DIVISION OF GEOLOGICAL AND GEOPHYSICAL SURVEYS													
FACILITY NAME	FILE	CID	DEC-ID	LATITUDE	LONGITUDE	MERIDIAN	TOWN	RANGE	SEC	QQ	Q	CN	CW
SOURCE / DESTINATION	STATUS DESCRIPTION	POP.	FS	USE CODE	WS	USE TYPE	NWUDS						
SIC	RECORDS	PERIOD	ACCURACY	CONN.	WELLS	MONTHS	DAYS	DAILY AVG	YEARLY AVG	MAX. MONTH	MIN. MONTH	HYD	
JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
KING COVE, CITY OF RAM CREEK / CITY OF KING COVE WTP 4941 METERED MONTHLY FAIR	ADL 42595 CERTIFICATE ISSUED	126307	260244A	550339.2	1621910.1	W	SEWARD	059S	086W	22 NE NW	63 72	WATER SUPPLIER	
0.3142 0.3290 0.4427	150	12	365	0.3425	0.3425	0.3425	AUGUST	0.1311	0.2005	SEPTEMBER	0.2233	0.2708	43
KODIAK, CITY OF PILLAR CREEK / CITY OF KODIAK 4941 METERED MONTHLY GOOD	ADL 39797 CERTIFICATE ISSUED	126356	250011A	574807.8	1522442.1	W	SEWARD	027S	019W	30 SE SE	7 13	WATER SUPPLIER	
0.4731 0.9341 2.2355	12	365	0.0000	0.8867	0.8867	0.8867	MARCH	0.2450	1.0000	DECEMBER	0.0000	0.1290	51
KODIAK, CITY OF MONASHKA CREEK / CITY OF KODIAK 4941 METERED MONTHLY GOOD	LAS 1145 PERMIT ISSUED	126356	250011A	575035.0	1522735.9	W	SEWARD	027S	020W	13 NW NW	74 77	WATER SUPPLIER	
3.9968 5.3046 3.8852	12	365	3.7223	3.4960	3.4960	3.4960	AUGUST	2.7804	1.8721	OCTOBER	2.6435	2.3256	51
KODIAK, CITY OF R-25 CREEK / CITY OF KODIAK 4941 METERED MONTHLY GOOD	LAS 1257 CERTIFICATE ISSUED	126356	250011A	622343.7	1525314.2	W	SEWARD	027N	020W	25 SE SE	7 13	WATER SUPPLIER	
0.3226 0.7143 0.3226	12	365	0.3333	0.4110	0.4110	0.4110	FEBRUARY	0.5000	0.3226	0.3333	0.4839		
KODIAK, CITY OF WASTEWATER TREATMENT PLANT / OCEAN 4952 METERED MONTHLY GOOD	LAS 12459 ACTIVE DATA POINT	126356		574820.8	1522110.2	W	SEWARD	027S	019W	27 SW NW	27 79	SEWAGE TREATMENT	
1.6320 1.8700 1.7700	12	365	1.9600	1.8885	1.8885	1.8885	DECEMBER	1.8640	1.8471	JANUARY	1.9300	2.5139	51
KODIAK, CITY OF WATER TREATMENT PLANT / CITY OF KODIAK 4941 METERED MONTHLY GOOD	LAS 12460 ACTIVE DATA POINT	126356		574816.3	1522356.9	W	SEWARD	027S	019W	29 NE SW	20 56	WATER SUPPLIER	
3.4785 5.0357 5.1739	12	6,000	3.7203	4.0463	4.0463	4.0463	AUGUST	4.0803	3.4742	DECEMBER	3.0280	2.8647	51
KOTZEBUE, CITY OF WATER TREATMENT PLANT / CITY OF KOTZEBUE 4941 METERED MONTHLY GOOD	ADL 401827 PERMIT ISSUED	126367	340060A	665359.0	1623451.1	W	KATEEL	017N	018W	3 NW SE	24 28	WATER SUPPLIER	
0.2968 0.2821 0.2428	300	12	365	0.2673	0.2673	0.2673	SEPTEMBER	0.3018	0.2632	MARCH	0.2532	0.2649	21
KOTZEBUE, CITY OF DEVIL'S LAKE, VORTAC RESERVOIR/KOTZEBUE 4941 METERED MONTHLY FAIR	ADL 401827 PERMIT ISSUED	126367	340060A	665315.9	1623208.8	W	KATEEL	017N	018W	11 NE SE	38 10	WATER SUPPLIER	
0.3511 0.3054 0.2473	12	365	0.2626	0.2946	0.2946	0.2946	JANUARY	0.3316	0.2881	MARCH	0.2981	0.3379	21
MCCRATH, CITY OF KUSKOKWIM RIVER / CITY OF MC GRATH 4941 METERED MONTHLY FAIR	LAS 969 PERMIT ISSUED	126607	280155A	625705.6	1553501.3	W	SEWARD	033W	033W	17 SE NW	48 58	WATER SUPPLIER	
0.0278 0.0278 0.0278	142	12	365	0.0320	0.0320	0.0320		0.0316	0.0328	0.0328	0.0328	0.0328	41

APPENDIX B. Water use in Alaska, 1989, arranged by facility name.

ALASKA WATER-USE DATA SYSTEM 1989 SUMMARY REPORT ALASKA DIVISION OF GEOLOGICAL AND GEOPHYSICAL SURVEYS													
FACILITY NAME	FILE	CID	DEC-ID	LATITUDE	LONGITUDE	MERIDIAN	TOWN RANGE	SEC	QQ	Q	CN	CW	
SOURCE / DESTINATION	STATUS DESCRIPTION	POP.	FS	USE CODE	WS	USE TYPE	NWUDS						
SIC	RECORDS	PERIOD	ACCURACY	CONN.	WELLS	MONTHS	DAYS	DAILY AVG	YEARLY AVG	MAX. MONTH	MIN. MONTH	HYD	
JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
OFFSHORE SYSTEMS - KENAI MAIN WELL #1 / COOK INLET PLATFORMS 4941 METERED MONTHLY FAIR	LAS 12953 ACTIVE DATA POINT	180159	244997B	604428.3	1511759.0 W	SEWARD GROUNDWATER	008N	012W	36	SW NE	41	28	
		1	6	0.0802	0.0802	0.0829	0.0802	0.0829	0.0802	0.0829	0.0802	53	
ORTNER, WALTER; DBA EAGLE VIEW CAR WASH WELL / EAGLE VIEW CAR WASH 7542 METERED MONTHLY FAIR	LAS 2102 PERMIT ISSUED	167248		613600.7	1491220.3 W	SEWARD GROUNDWATER	018N	001E	36	SW SW	1	79	
		1	12	0.0017	0.0017	0.0017	0.0011	0.0017	0.0014	0.0015	0.0027	53	
		0.0016	0.0016	0.0016	0.0019	0.0019	0.0015	0.0011	0.0014	0.0015	0.0027	53	
PALMER, CITY OF 624' WELL #1 / CITY OF PALMER 4941 METERED MONTHLY GOOD	ADL 201324 CERTIFICATE ISSUED	127015	226020A	613627.3	1490850.7 W	SEWARD GROUNDWATER	018N	002E	31	SE NE	42	4	
		1	12	0.4078	0.3039	0.1207	0.3878	0.3801	0.3468	0.3468	0.3468	53	
		0.2914	0.5111	0.4446	0.5588	0.4442	0.3321	0.4737	0.3887	0.1207	0.3878	53	
PALMER, CITY OF WELL #2 / CITY OF PALMER 4941 METERED MONTHLY GOOD	ADL 201324 CERTIFICATE ISSUED	127015	226020A	613627.3	1490850.7 W	SEWARD GROUNDWATER	018N	002E	31	SE NE	42	4	
		1	12	0.0914	0.0050	0.1378	0.1148	0.0000	0.0000	0.0000	0.0000	52	
		0.0329	0.0976	0.0958	0.1475	0.1227	0.0811	0.0163	0.1123	0.1378	0.1148	52	
PALMER, CITY OF WELL #3 / CITY OF PALMER 4941 METERED MONTHLY GOOD	ADL 201324 CERTIFICATE ISSUED	127015	226020A	613627.3	1490702.0 W	SEWARD GROUNDWATER	018N	002E	32	SE NE	42	4	
		1	12	0.0669	0.0031	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	52	
		0.0233	0.1025	0.0121	0.1080	0.0467	0.0000	0.0187	0.0673	0.0000	0.0000	52	
PALMER, CITY OF 186' WELL #4 / CITY OF PALMER 4941 METERED MONTHLY GOOD	LAS 9889 APPLICATION ACCEPTED	127015	226020A	613510.1	1490538.5 W	SEWARD GROUNDWATER	017N	002E	4	SW SE	3	23	
		1	12	0.4584	0.2085	0.4692	0.4622	0.4500	0.3666	0.3666	0.3666	53	
		0.4303	0.4670	0.3809	0.0000	0.4915	0.4773	0.5386	0.4598	0.4692	0.4622	53	
PETERSBURG, CITY OF TREATMENT PLANT / CITY OF PETERSBURG 4941 METERED MONTHLY GOOD	LAS 6550 PERMIT ISSUED	127077	130148A	564724.8	1325423.8 W	COPPER RIVER SURFACE WATER	059S	079E	1	NW NW	60	65	
		1	12	0.8891	0.8891	0.5191	0.5024	0.5002	0.4164	0.4164	0.4164	63	
		0.6913	0.8599	0.8437	0.7402	0.8414	0.8885	2.0782	0.7352	0.5191	0.5024	63	
PETERSBURG, CITY OF STREAM / CITY OF PETERSBURG 4941 METERED MONTHLY GOOD	LAS 6550 PERMIT ISSUED	127077	130148A	564724.8	1325423.8 W	COPPER RIVER SURFACE WATER	059S	079E	1	NW NW	60	65	
		1	12	0.9803	0.9803	0.8585	0.5533	0.5560	0.4566	0.4566	0.4566	63	
		0.7546	0.9246	0.9533	0.8185	0.9100	0.9848	1.7000	2.2649	0.8585	0.5533	63	
PHILLIPS PETROLEUM COMPANY WELL #3 / LNG PLANT 2911 METERED MONTHLY GOOD	ADL 42983 CERTIFICATE ISSUED	127093	240969B	604055.1	1512231.9 W	SEWARD GROUNDWATER	007N	012W	22	NW SW	33	74	
		1	12	0.2925	0.2925	0.3502	0.2605	0.2636	0.2895	0.2895	0.2895	53	
		0.1994	0.2681	0.2673	0.2954	0.2310	0.3322	0.3731	0.3794	0.3502	0.2605	53	

APPENDIX B. Water use in Alaska, 1989, arranged by facility name.

ALASKA WATER-USE DATA SYSTEM
1989 SUMMARY REPORT
ALASKA DIVISION OF GEOLOGICAL AND GEOPHYSICAL SURVEYS

FACILITY NAME	FILE	CID	DEC-ID	LATITUDE	LONGITUDE	MERIDIAN	TOWN	RANGE	SEC	Q	Q	CN	CW
SOURCE / DESTINATION	STATUS	DESCRIPTION	POP.	FS	USE CODE	WS	USE TYPE	NWUDS					
SIC	RECORDS	PERIOD	ACCURACY	CONN.	WELLS	MONTHS	DAYS	DAILY AVG	YEARLY AVG	MAX. MONTH	MIN. MONTH	HYD	
JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
SCAMMON BAY, CITY OF HILL STREAM / CITY OF SCAMMON BAY 4941 METERED MONTHLY POOR	ADL 46364 CERTIFICATE ISSUED	127365	270184A	615026.0	1653454.4	W	SEWARD SURFACE WATER	020N	090W	10 SE NW	53 52		
0.0148	0.0294	0.0255	0.0163	0.0203	0.0328	0.0309	0.0213	0.0225	0.0079	0.0132	0.0230	36	
SEWARD, CITY OF FT. RAYMOND WELL #2 / CITY OF SEWARD 4941 ESTIMATED MONTHLY FAIR	ADL 39936 CERTIFICATE ISSUED	127408	240757A	600637.6	1492649.8	W	SEWARD GROUNDWATER	001S	001W	9 NW SE	70 9		
0.1485	0.3247	0.3312	0.3571	0.0116	0.0000	0.0480	0.1248	0.2354	0.0086	0.0093	0.0384	54	
SEWARD, CITY OF FT. RAYMOND WELL #3 / CITY OF SEWARD 4941 METERED MONTHLY GOOD	ADL 39936 CERTIFICATE ISSUED	127408	240757A	600637.0	1492648.4	W	SEWARD GROUNDWATER	001S	001W	9 NW SE	69 8		
0.5185	0.3943	0.4195	0.5211	0.5593	0.3905	0.3144	0.3694	0.4473	0.3416	0.2874	0.2293	54	
SEWARD, CITY OF FT. RAYMOND WELL #4 / CITY OF SEWARD 4941 METERED MONTHLY GOOD	ADL 39936 CERTIFICATE ISSUED	127408	240757A	600610.9	1492709.3	W	SEWARD GROUNDWATER	001S	001W	9 NW SE	29 24		
0.0000	0.0000	0.0000	0.0584	0.0021	0.0293	0.5524	0.1161	0.6841	0.0229	0.0096	0.0003	54	
SEWARD, CITY OF FT. RAYMOND WELL #1 / CITY OF SEWARD 4941 METERED MONTHLY GOOD	ADL 39936 CERTIFICATE ISSUED	127408	240757A	600058.6	1492708.5	W	SEWARD GROUNDWATER	002S	001W	9 NW SE	28 24		
0.2110	0.8517	0.8748	0.8301	0.1987	0.0847	0.4322	0.3626	0.5600	0.0519	0.1738	0.0173	54	
SEWARD, CITY OF MARATHON CREEK / CITY OF SEWARD 4941 METERED MONTHLY GOOD	ADL 210826 PERMIT ISSUED	127408	240757A	600633.1	1492711.9	W	SEWARD SURFACE WATER	001S	001W	9 NW NE	63 26		
0.2304	0.0082	0.0000	0.0203	0.8738	1.0125	0.6391	0.5700	0.4054	0.9822	0.7604	0.9337	54	
SEWARD, CITY OF LOWELL PT. W.W.T.P. / RESURRECTION BAY 4952 METERED MONTHLY GOOD	LAS 1921 CERTIFICATE ISSUED	127408		600629.1	1492750.9	W	SEWARD SURFACE WATER	001S	001W	9 SE NW	57 56		
0.6185	0.7153	0.6693	0.6633	0.6448	0.6363	0.6535	0.7289	0.7402	0.9793	0.8513	0.8500	54	
SEWARD, CITY OF MARINE IND. W.W.T.P. / RESURRECTION BAY 4952 METERED MONTHLY GOOD	LAS 11301 CLOSED	127408		600523.3	1492004.2	W	SEWARD SURFACE WATER	001S	001E	18 NE SE	35 13		
0.0684	0.0484	0.0789	0.0420	0.0375	0.0432	0.0473	0.0576	0.0610	0.0665	0.0670	0.0561	54	
SEWARD, CITY OF WELL A / MARINE INDUSTRIAL CENTER 4941 METERED MONTHLY GOOD	LAS 11311 PERMIT ISSUED	127408	240757A	600551.3	1491946.1	W	SEWARD GROUNDWATER	001S	001E	17 NW NW	78 79		
0.0866	0.0528	0.0450	0.0441	0.0524	0.0479	0.0649	0.0553	0.0397	0.0541	0.0585	0.0494	54	

APPENDIX B. Water use in Alaska, 1989, arranged by facility name.

ALASKA WATER-USE DATA SYSTEM 1989 SUMMARY REPORT ALASKA DIVISION OF GEOLOGICAL AND GEOPHYSICAL SURVEYS																							
FACILITY NAME				FILE	CID	DEC-ID	LATITUDE	LONGITUDE	MERIDIAN	TOWN	RANGE	SEC	QQ	Q	CN	CW							
SOURCE / DESTINATION				STATUS DESCRIPTION		POP.	FS	USE CODE	WS	USE TYPE	NWUDS												
SIC	RECORDS	PERIOD	ACCURACY	CONN.	WELLS	MONTHS	DAYS	DAILY AVG	YEARLY AVG	MAX. MONTH	MIN. MONTH	HYD											
JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
TATITLEK, VILLAGE OF PUMPHOUSE / VILLAGE OF TATITLEK				ADL 76071	127661	291130A	605152.6	1463821.8	W	COPPER RIVER	011S	008W	33	SE	SE	0	0						
4941	METERED	MONTHLY	GOOD	CLOSED			68	1	WITHDRAWAL	1	SURFACE WATER												
				40	1	12	365	0.0298	0.0298	NOVEMBER	JUNE					54							
	0.0275	0.0348	0.0315	0.0346	0.0249	0.0226	0.0291	0.0244	0.0319	0.0343	0.0361	0.0269											
TESORO ALASKA PETROLEUM COMPANY WELL #1 / TESORO ALASKA PETROLEUM CO.				ADL 42906	127684		604111.3	1512213.4	W	SEWARD	007N	012W	22	SE	NW	58	60						
2911	METERED	MONTHLY	GOOD	CERTIFICATE ISSUED			49	1	WITHDRAWAL	1	GROUNDWATER												
					1	12		0.1343	0.0180	OCTOBER	MAY					53							
	0.0846	0.0248	0.0212	0.0225	0.0076	0.0497	0.0123	0.2388	0.2932	0.3049	0.0218	0.0580											
TESORO ALASKA PETROLEUM COMPANY WELL #2 / TESORO ALASKA PETROLEUM CO.				ADL 42906	127684		604111.3	1512152.2	W	SEWARD	007N	012W	22	SE	NW	58	44						
2911	METERED	MONTHLY	GOOD	CERTIFICATE ISSUED			359	1	WITHDRAWAL	2	GROUNDWATER												
					1	12		0.3334	0.3279	FEBRUARY	AUGUST					53							
	0.2832	0.3906	0.3735	0.3418	0.3315	0.3184	0.3218	0.2786	0.3205	0.3437	0.3643	0.3370											
TEXACO USA LAKE #1 UNNAMED / CONST. SURFACE WATER				LAS 11662	172255		701439.8	1495507.6	W	UMIAT	010N	009E	5	SW	SW	10	60						
1311	METERED	MONTHLY	GOOD	CLOSED			93	1	WITHDRAWAL	1	SURFACE WATER												
						12		0.0049	0.0012							11							
	0.0049	0.0049	0.0049	0.0049	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000											
TEXACO USA LAKE #2 UNNAMED / KUPARUK CONST. SW USE				LAS 11662	172255		701229.9	1495428.0	W	UMIAT	010N	009E	20	SW	NE	50	40						
1311	METERED	MONTHLY	GOOD	CLOSED			93	1	WITHDRAWAL	2	SURFACE WATER												
						12		0.0315	0.0080							11							
	0.0315	0.0315	0.0315	0.0315	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000											
TEXACO USA LAKE #3 UNNAMED / KUPARUK CON/DRILL/MAIN				LAS 11662	172255		700646.1	1495647.9	W	UMIAT	009N	009E	19	SW	NE	0	35						
1311	METERED	MONTHLY	GOOD	CLOSED			93	1	WITHDRAWAL	3	SURFACE WATER												
						12		0.0291	0.0074							11							
	0.0291	0.0291	0.0291	0.0291	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000											
TEXACO USA LAKE #5 UNNAMED / KUPARUK CON/DRILL/MAIN				LAS 11662	172255		700108.5	1495918.0	W	UMIAT	008N	009E	30	SE	NW	40	45						
1311	METERED	MONTHLY	GOOD	CLOSED			93	1	WITHDRAWAL	5	SURFACE WATER												
						12		0.0770	0.0196							11							
	0.0770	0.0770	0.0770	0.0770	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000											
TEXACO USA LAKE #6 UNNAMED / KUPARUK CONSTR. USE				LAS 11662	172255		695924.4	1500128.4	W	UMIAT	007N	008E	1	SE	NW	40	40						
1311	METERED	MONTHLY	GOOD	CLOSED			93	1	WITHDRAWAL	6	SURFACE WATER												
						12		0.0000	0.0000							11							
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000											
TEXACO USA LAKE #7 UNNAMED / KUPARUK CONSTR. USE				LAS 11662	172255		695930.9	1500659.6	W	UMIAT	007N	008E	3	SE	NW	50	55						
1311	METERED	MONTHLY	GOOD	CLOSED			93	1	WITHDRAWAL	7	SURFACE WATER												
						12		0.0131	0.0033							11							
	0.0131	0.0131	0.0131	0.0131	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000											

APPENDIX B. Water use in Alaska, 1989, arranged by facility name.

ALASKA WATER-USE DATA SYSTEM 1989 SUMMARY REPORT ALASKA DIVISION OF GEOLOGICAL AND GEOPHYSICAL SURVEYS														
FACILITY NAME		FILE	CID	DEC-ID	LATITUDE	LONGITUDE	MERIDIAN	TOWN	RANGE	SEC	QQ	Q	CH	CW
SOURCE / DESTINATION		STATUS DESCRIPTION		POP.	FS	USE CODE	WS	USE TYPE	NWUDS					
SIC	RECORDS	PERIOD	ACCURACY	CONN.	WELLS	MONTHS	DAYS	DAILY AVG	YEARLY AVG	MAX. MONTH	MIN. MONTH	HYD		
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
U.S. AIR FORCE WELL #42 / ELMENDORF AIR FORCE BASE	LAS 12529	9492	211423A	611443.1	1494755.2 W	SEWARD	013N	003W	3 NW SW	35	61			
9711 METERED MONTHLY GOOD	ACTIVE DATA POINT	1	12	61	1	WITHDRAWAL	42	GROUNDWATER	NOVEMBER	0.0138	0.0005			
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
U.S. AIR FORCE WELL #43 / ELMENDORF AIR FORCE BASE	LAS 12529	9492	211423A	611407.2	1494458.7 W	SEWARD	013N	003W	11 SE NE	60	10			
9711 METERED MONTHLY GOOD	ACTIVE DATA POINT	1	12	91	1	WITHDRAWAL	43	GROUNDWATER	NOVEMBER	0.0244	0.0000			
0.0012	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
U.S. ARMY CORPS OF ENG. CRE DIV., USDOO SHIP CREEK / FT. RICH. TREATMENT PLANT	ADL 45839	114944	212039A	611322.5	1493758.9 W	SEWARD	013N	002W	16 NE NE	71	18			
9711 METERED MONTHLY GOOD	CERTIFICATE ISSUED	1	12	365	1	WITHDRAWAL	1	SURFACE WATER	SEPTEMBER	2.5767	2.2760			
2.5224	2.1523	2.2397	2.3672	2.1975	1.8551	2.2808	2.2752	2.7858	2.6135	2.5767	2.2760			
U.S. ARMY CORPS OF ENG. CRE DIV., USDOO FT. RICH. W.T.P. / LINE #18 TO ELMENDORF	ADL 65557	114944	212039A	611322.5	1493758.9 W	SEWARD	013N	002W	16 NE NE	71	18			
9711 METERED MONTHLY GOOD	CERTIFICATE ISSUED	1	12	365	1	RELEASE	1	TRANSFERRED WATER	JULY	0.6823	0.8011			
0.7391	0.8427	0.7958	0.7499	1.0065	1.3817	1.4366	1.1957	0.9397	0.7961	0.6823	0.8011			
U.S. ARMY CORPS OF ENG. CRE DIV., USDOO FT. RICH. W.T.P. / LINE #20 TO ELMENDORF	ADL 65557	114944	212039A	611322.5	1493758.9 W	SEWARD	013N	002W	16 NE NE	71	18			
9711 METERED MONTHLY GOOD	CERTIFICATE ISSUED	1	12	365	1	RELEASE	2	TRANSFERRED WATER	JUNE	1.3566	1.7270			
1.4325	1.7788	1.7711	1.7527	1.8114	1.8750	1.3036	1.6414	1.6868	1.6712	1.3566	1.7270			
U.S. ARMY CORPS OF ENG. CRE DIV., USDOO FT. RICH. W.T.P. / LINE #21 TO ELMENDORF	ADL 65557	114944	212039A	611322.5	1493758.9 W	SEWARD	013N	002W	16 NE NE	71	18			
9711 METERED MONTHLY GOOD	CERTIFICATE ISSUED	1	12	365	1	RELEASE	3	TRANSFERRED WATER	JULY	0.0939	0.0934			
0.0965	0.0947	0.0973	0.1064	0.0969	0.1104	0.1325	0.0950	0.0928	0.0935	0.0939	0.0934			
U.S. ARMY CORPS OF ENG. CRE DIV., USDOO FT. RICH. W.T.P. / LINE #22 TO ELMENDORF	ADL 65557	114944	212039A	611322.5	1493758.9 W	SEWARD	013N	002W	16 NE NE	71	18			
9711 METERED MONTHLY GOOD	CERTIFICATE ISSUED	1	12	365	1	RELEASE	4	TRANSFERRED WATER	JULY	0.0444	0.0505			
0.0555	0.0560	0.0570	0.0558	0.0557	0.0632	0.0672	0.0628	0.0587	0.0511	0.0444	0.0505			
U.S. ARMY CORPS OF ENG. CRE DIV., USDOO FT. RICH. W.T.P. / ADF&G FT. RICH. HATCH	ADL 65557	114944	212039A	611322.5	1493758.9 W	SEWARD	013N	002W	16 NE NE	71	18			
921 METERED MONTHLY GOOD	CERTIFICATE ISSUED	1	12	212	1	RELEASE	5	TRANSFERRED WATER	JANUARY	0.0000	0.0000			
1.5999	1.4667	1.3589	1.4947	1.4339	1.0591	0.5161	0.0000	0.0000	0.0000	0.0000	0.0000			
U.S. ARMY CORPS OF ENG. CRE DIV., USDOO FT. RICH. W.T.P. / FT. RICH. LAUNDRY	ADL 65557	114944	212039A	611322.5	1493758.9 W	SEWARD	013N	002W	16 NE NE	71	18			
9711 METERED MONTHLY GOOD	CERTIFICATE ISSUED	1	12	365	1	RELEASE	6	TRANSFERRED WATER	DECEMBER	0.0248	0.0177			
0.0326	0.0483	0.0384	0.0485	0.0351	0.0242	0.0230	0.0223	0.0220	0.0257	0.0248	0.0177			

APPENDIX B. Water use in Alaska, 1989, arranged by facility name.

ALASKA WATER-USE DATA SYSTEM 1989 SUMMARY REPORT ALASKA DIVISION OF GEOLOGICAL AND GEOPHYSICAL SURVEYS														
FACILITY NAME		FILE		CID	DEC-ID	LATITUDE	LONGITUDE	MERIDIAN	TOWN	RANGE	SEC	QQ	Q	CN CW
SOURCE / DESTINATION		STATUS DESCRIPTION		POP.	FS	USE CODE	WS	USE TYPE	NWUDS					
SIC	RECORDS	PERIOD	ACCURACY	CONN.	WELLS	MONTHS	DAYS	DAILY AVG	YEARLY AVG	MAX. MONTH	MIN. MONTH	HYD		
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
WASILLA, CITY OF WELL / MISSION HILLS SUB. PHASE 2 & 3				LAS 1141	128025	223763A	613532.9	1493102.7	W	SEWARD	017N	001W	6 NW	SE 38 23
4941	METERED	MONTHLY	GOOD	PERMIT ISSUED			90	1	WITHDRAWAL	1	GROUNDWATER		WATER SUPPLIER	
0.0068	0.0150	0.0177	0.0111	0.0128	0.0091	365	0.0115	0.0120	0.0145	0.0071	MARCH	JANUARY	52	
											0.0154	0.0155		
WASILLA, CITY OF LUCY LAINE WELL / CITY OF WASILLA				LAS 1541	128025	224109A	613558.9	1492602.3	W	SEWARD	017N	001W	3 NE	NW 78 43
4941	METERED	MONTHLY	GOOD	PERMIT ISSUED			25	1	WITHDRAWAL	1	GROUNDWATER		WATER SUPPLIER	
0.0006	0.0006	0.0030	0.0005	0.0006	0.0005	365	0.0007	0.0008	0.0005	0.0006	MARCH	JULY	52	
											0.0005	0.0005		
WASILLA, CITY OF SPRUCE AVE. WELLS 236' / WASILLA WOODS SB				LAS 5204	128025	224646A	613558.2	1492643.3	W	SEWARD	017N	001W	3 NW	NW 77 73
4941	METERED	MONTHLY	GOOD	PERMIT ISSUED			2	1	WITHDRAWAL	1	GROUNDWATER		WATER SUPPLIER	
0.1238	0.1289	0.1292	0.1382	0.1785	0.1396	365	0.2304	0.1728	0.2984	0.1711	AUGUST	JANUARY	52	
											0.1799	0.1801		
WHITTIER, CITY OF 80' WELL #1 / CITY OF WHITTIER				LAS 2531	128079	211952A	604630.1	1484009.8	W	SEWARD	008N	004E	24 NW	NW 70 39
4941	METERED	MONTHLY	FAIR	PERMIT ISSUED			1	1	WITHDRAWAL	1	GROUNDWATER		WATER SUPPLIER	
0.0529	0.0529	0.0529	0.0116	0.0686	0.0997	365	0.1758	0.0626	0.1221	0.0537	JULY	DECEMBER	54	
											0.0148	0.0047		
WHITTIER, CITY OF 80' WELL #2 / CITY OF WHITTIER				LAS 2532	128079	211952A	604632.1	1484202.3	W	SEWARD	008N	004E	23 NE	NE 73 44
4941	CALCULATED	MONTHLY	FAIR	PERMIT ISSUED			1	1	WITHDRAWAL	1	GROUNDWATER		WATER SUPPLIER	
0.0282	0.0282	0.0282	0.1446	0.1446	0.1479	365	0.1577	0.1160	0.1584	0.1452	AUGUST		54	
											0.1292	0.1330	0.1421	
WHITTIER, CITY OF 80' WELL #3 / CITY OF WHITTIER				LAS 2533	128079	211952A	604632.1	1484211.6	W	SEWARD	008N	004E	23 NE	NE 73 51
4941	METERED	MONTHLY	FAIR	PERMIT ISSUED			1	1	WITHDRAWAL	1	GROUNDWATER		WATER SUPPLIER	
0.1101	0.1101	0.1101	0.1031	0.0892	0.1253	365	0.1049	0.1103	0.1255	0.1178	AUGUST	MAY	54	
											0.1157	0.1078		
YAKUTAT, CITY OF MAIN WELL A, 325' / CITY OF YAKUTAT				ADL 43340	128153	130172A	593306.8	1394413.3	W	COPPER RIVER	027S	033E	25 NE	NE 67 15
4941	METERED	MONTHLY	FAIR	CERTIFICATE ISSUED			1	1	WITHDRAWAL	1	GROUNDWATER		WATER SUPPLIER	
0.1693	0.1659	3.9939	0.1210	0.3628	0.2327	365	0.1029	0.4848	0.1153	0.2524	MARCH	NOVEMBER	61	
											0.0312	0.0397		
YAKUTAT, CITY OF BACK-UP (ARCO) WELL / CITY OF YAKUTAT				ADL 43340	128153	130172A	593244.1	1394355.4	W	COPPER RIVER	027S	033E	25 NE	NE 32 1
4941	METERED	MONTHLY	FAIR	CERTIFICATE ISSUED			1	1	WITHDRAWAL	2	GROUNDWATER		WATER SUPPLIER	
0.0000	0.0000	4.4510	0.0913	0.3355	0.0453	184	0.2235	0.8839	0.1042	0.4456	MARCH	JUNE	61	
											0.0000	0.0000	0.0000	
YAKUTAT, CITY OF SMALL WELL / WATER TREATMENT PLANT				ADL 43340	128153	130172A	593308.8	1394413.3	W	COPPER RIVER	027S	033E	25 NE	NE 70 15
4941	METERED	MONTHLY	FAIR	CERTIFICATE ISSUED			1	1	WITHDRAWAL	3	GROUNDWATER		WATER SUPPLIER	
0.0000	0.0084	0.0000	0.0000	0.0067	0.0000	120	0.0078	0.0354	0.0000	0.0116	SEPTEMBER	MAY	61	
											0.0850	0.0000	0.0000	

APPENDIX C. Cross reference of facility names to file types and numbers.

OBS	FILE TYPE	FILE NUMBER	FACILITY NAME	LAS CUSTOMER IDENTIFICATION NUMBER	DEC PWSI IDENTIFICATION NUMBER
1	ADL	39797	KODIAK, CITY OF	126356	250011A
2	ADL	39835	PORT LIONS, CITY OF	127129	250045A
3	ADL	39886	CHUGACH ELECTRIC ASSOCIATION, INC.	125203	
4	ADL	39936	SEWARD, CITY OF	127408	240757A
5	ADL	39936	SEWARD, CITY OF	127408	240757A
6	ADL	39936	SEWARD, CITY OF	127408	240757A
7	ADL	39936	SEWARD, CITY OF	127408	240757A
8	ADL	42514	UNION CHEMICALS DIV., UNOCAL CO.	125261	240919B
9	ADL	42514	UNION CHEMICALS DIV., UNOCAL CO.	125261	240919B
10	ADL	42595	KING COVE, CITY OF	126307	260244A
11	ADL	42906	TESORO ALASKA PETROLEUM COMPANY	127684	
12	ADL	42906	TESORO ALASKA PETROLEUM COMPANY	127684	
13	ADL	42979	PUGET SOUND TUG & BARGE CO.	108787	244696B
14	ADL	42983	PHILLIPS PETROLEUM COMPANY	127093	240969B
15	ADL	42993	NOME, CITY OF	126821	
16	ADL	42993	NOME, CITY OF	126821	340010A
17	ADL	42993	NOME, CITY OF	126821	340599A
18	ADL	42993	NOME, CITY OF	126821	340638B
19	ADL	43340	YAKUTAT, CITY OF	128153	130172A
20	ADL	43340	YAKUTAT, CITY OF	128153	130172A
21	ADL	43340	YAKUTAT, CITY OF	128153	130172A
22	ADL	44439	JUNEAU, CITY & BOROUGH OF	126204	110342A
23	ADL	44626	ANCHORAGE, MUN. (AWMU)	167803	210930C
24	ADL	44626	ANCHORAGE, MUN. (AWMU)	167803	210948C
25	ADL	44944	U.S. DEPARTMENT OF ENERGY, A.P.A.	173270	
26	ADL	45420	ANCHORAGE, MUN. (AWMU)	167803	
27	ADL	45839	U.S. ARMY CORPS OF ENG. CRE DIV., USDOO	114944	212039A
28	ADL	46054	DILLINGHAM, CITY OF	125481	
29	ADL	46054	DILLINGHAM, CITY OF	125481	260197A
30	ADL	46054	DILLINGHAM, CITY OF	125481	260197A
31	ADL	46364	SCAMMON BAY, CITY OF	127365	270184A
32	ADL	50906	ANCHORAGE, MUN. (AWMU)	167803	
33	ADL	50908	ANCHORAGE, MUN. (AWMU)	167803	
34	ADL	50924	ANCHORAGE, MUN. (AWMU)	167803	
35	ADL	51573	ANCHORAGE, MUN. (AWMU)	167803	
36	ADL	52342	SOLDOTNA, CITY OF	127502	241054A
37	ADL	52342	SOLDOTNA, CITY OF	127502	241054A
38	ADL	53282	KENAI, CITY OF	126275	240448A
39	ADL	53282	KENAI, CITY OF	126275	240448A
40	ADL	53813	FAIRBANKS MUNICIPAL UTILITY SYSTEM	114790	310730A
41	ADL	53813	FAIRBANKS MUNICIPAL UTILITY SYSTEM	114790	310730A
42	ADL	53813	FAIRBANKS MUNICIPAL UTILITY SYSTEM	114790	310730A
43	ADL	53813	FAIRBANKS MUNICIPAL UTILITY SYSTEM	114790	310730A
44	ADL	53813	FAIRBANKS MUNICIPAL UTILITY SYSTEM	114790	310730A
45	ADL	54850	ANCHORAGE, MUN. (AWMU)	167803	
46	ADL	54850	ANCHORAGE, MUN. (AWMU)	167803	210980C
47	ADL	62222	ANCHORAGE, MUN. (AWMU)	167803	
48	ADL	62346	CRAIG, CITY OF	125358	
49	ADL	62346	CRAIG, CITY OF	125358	120193A
50	ADL	63855	ANCHORAGE, MUN. (AWMU)	167803	
51	ADL	64153	ALYESKA PIPELINE SERVICE COMPANY	124668	320010B
52	ADL	65557	U.S. ARMY CORPS OF ENG. CRE DIV., USDOO	114944	212039A
53	ADL	65557	U.S. ARMY CORPS OF ENG. CRE DIV., USDOO	114944	212039A

APPENDIX C. Cross reference of facility names to file types and numbers.

OBS	FILE TYPE	FILE NUMBER	FACILITY NAME	LAS CUSTOMER IDENTIFICATION NUMBER	DEC PWS1 IDENTIFICATION NUMBER
107	LAS	1051	ANCHORAGE, MUN. (AWMU)	167803	210906A
108	LAS	1059	ERU, INC.	162712	213289A
109	LAS	1101	ALYESKA UTILITIES, INC.	124675	212021A
110	LAS	1117	ROYAL PACIFIC FISHERIES, INC.	127299	242953B
111	LAS	1141	WASILLA, CITY OF	128025	223763A
112	LAS	1145	KODIAK, CITY OF	126356	250011A
113	LAS	1257	KODIAK, CITY OF	126356	250011A
114	LAS	1270	TURNER COMPANY	159325	227199A
115	LAS	1312	PRINCE WILLIAM SOUND AQUACULTURE CORP.	127145	
116	LAS	1541	WASILLA, CITY OF	128025	224109A
117	LAS	1681	TOGIAK FISHERIES, INC.	165692	
118	LAS	1848	EKLUTNA UTILITIES, INC.	125573	
119	LAS	1921	SEWARD, CITY OF	127408	
120	LAS	1936	CONOCO, INC.	106432	333364B
121	LAS	1937	CONOCO, INC.	106432	333364B
122	LAS	1938	CONOCO, INC.	106432	333364B
123	LAS	1942	JUNEAU, CITY & BOROUGH OF	126204	110342A
124	LAS	1947	CHUGIAK - EAGLE RIVER INDUSTRIES	149989	212746B
125	LAS	2082	JOHNSON ENTERPRISES	13367	
126	LAS	2102	ORTNER, WALTER; DBA EAGLE VIEW CAR WASH	167248	
127	LAS	2282	CONOCO, INC.	106432	333364B
128	LAS	2285	CONOCO, INC.	106432	333364B
129	LAS	2372	ANCIENT TREE, INC.	10305	224256A
130	LAS	2493	ANCHORAGE, MUN. (AWMU)	167803	
131	LAS	2531	WHITTIER, CITY OF	128079	211952A
132	LAS	2532	WHITTIER, CITY OF	128079	211952A
133	LAS	2533	WHITTIER, CITY OF	128079	211952A
134	LAS	2569	ANCHORAGE, MUN. (AWMU)	167803	
135	LAS	2762	ARCO ALASKA, INC.	155174	
136	LAS	2762	ARCO ALASKA, INC.	155174	
137	LAS	2762	ARCO ALASKA, INC.	155174	
138	LAS	2811	EKLUTNA UTILITIES, INC.	125573	211156A
139	LAS	3260	ALASKA ZOO	174735	215401B
140	LAS	3260	ALASKA ZOO	174735	215401B
141	LAS	3261	ALASKA ZOO	174735	215401B
142	LAS	3311	SAINT PAUL, CITY OF	154092	260286A
143	LAS	5036	U.S. DEPT. OF AGRICULTURE, CHUGACH N. F.	151454	213718B
144	LAS	5204	WASILLA, CITY OF	128025	224646A
145	LAS	6516	SOUTHCENTRAL UTILITIES, INC.	186314	214706A
146	LAS	6550	PETERSBURG, CITY OF	127077	130148A
147	LAS	6550	PETERSBURG, CITY OF	127077	130148A
148	LAS	6660	ALYESKA PIPELINE SERVICE COMPANY	124668	360036B
149	LAS	6722	VALDEZ FISHERIES DEVELOPMENT ASSOC., INC	127955	
150	LAS	7611	BP EXPLORATION	107377	
151	LAS	9889	PALMER, CITY OF	127015	226020A
152	LAS	10094	ARCO ALASKA, INC.	155174	
153	LAS	10094	ARCO ALASKA, INC.	155174	
154	LAS	10094	ARCO ALASKA, INC.	155174	
155	LAS	10094	ARCO ALASKA, INC.	155174	
156	LAS	10094	ARCO ALASKA, INC.	155174	
157	LAS	10094	ARCO ALASKA, INC.	155174	
158	LAS	10094	ARCO ALASKA, INC.	155174	
159	LAS	10094	ARCO ALASKA, INC.	155174	

APPENDIX D. 1989 water-use data sorted by SIC codes.

----- SIC CODE=921 USE TYPE=GROUNDWATER -----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
1	AK. DEPT. OF FISH & GAME, FRED DIVISION	LAS	12263	365	1.1183	408.1824

----- SIC CODE=921 USE TYPE=TRANSFERRED WATER -----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
2	PRINCE WILLIAM SOUND AQUACULTURE CORP.	LAS	1312	365	31.4230	11469.3892
3	U.S. ARMY CORPS OF ENG. CRE DIV., USDOO	ADL	65557	212	1.2728	269.8260
4	VALDEZ FISHERIES DEVELOPMENT ASSOC., INC	LAS	6722	89	0.1200	10.6813

USETYPE						11749.8965
SICCODE						12158.0789

----- SIC CODE=1311 USE TYPE=SURFACE WATER -----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
5	ARCO ALASKA, INC.	ADL	67781	92	0.2899	26.6742
6	ARCO ALASKA, INC.	ADL	67781	92	0.0001	0.0052
7	ARCO ALASKA, INC.	ADL	400793	365	0.0680	24.8098
8	ARCO ALASKA, INC.	ADL	400793	30	0.0011	0.0339
9	ARCO ALASKA, INC.	LAS	2762	365	0.0138	5.0436
10	ARCO ALASKA, INC.	LAS	2762	243	0.0172	4.1706
11	ARCO ALASKA, INC.	LAS	2762	92	0.0269	2.4747
12	ARCO ALASKA, INC.	LAS	10094	62	0.0192	1.1905
13	ARCO ALASKA, INC.	LAS	10094	30	0.0118	0.3528
14	ARCO ALASKA, INC.	LAS	10094	90	0.0021	0.1845
15	ARCO ALASKA, INC.	LAS	10094	120	0.0115	1.3835
16	ARCO ALASKA, INC.	LAS	10094	120	0.0137	1.6450
17	ARCO ALASKA, INC.	LAS	10094	61	0.0015	0.0886
18	ARCO ALASKA, INC.	LAS	10094	31	0.0130	0.4023
19	ARCO ALASKA, INC.	LAS	10094	61	0.0184	1.1245
20	ARCO ALASKA, INC.	LAS	10094	31	0.0009	0.0294
21	ARCO ALASKA, INC.	LAS	12166	31	0.0071	0.2205
22	ARCO ALASKA, INC.	LAS	12166	365	0.0389	14.2116
23	ARCO ALASKA, INC.	LAS	12168	31	0.0023	0.0710
24	ARCO ALASKA, INC.	LAS	12174	183	0.0231	4.2295
25	ARCO ALASKA, INC.	LAS	12188	31	0.0007	0.0217
26	BP EXPLORATION	ADL	66117	365	0.0596	21.7525
27	BP EXPLORATION	ADL	75979	365	0.1125	41.0658
28	BP EXPLORATION	LAS	7611	92	0.0009	0.0784
29	CONOCO, INC.	LAS	1936	275	0.4010	110.2709
30	CONOCO, INC.	LAS	1937	306	0.3301	100.9993
31	CONOCO, INC.	LAS	1938	214	0.1892	40.4875
32	CONOCO, INC.	LAS	2282	107	0.0343	3.6669
33	CONOCO, INC.	LAS	2285	157	0.0076	1.1915
34	CONOCO, INC.	LAS	12542	4	0.0263	0.1050
35	CONOCO, INC.	LAS	12542	9	0.1177	1.0590
36	TEXACO USA	LAS	11662	93	0.0049	0.4554
37	TEXACO USA	LAS	11662	93	0.0315	2.9288
38	TEXACO USA	LAS	11662	93	0.0291	2.7070
39	TEXACO USA	LAS	11662	93	0.0770	7.1600

APPENDIX D. 1989 water-use data sorted by SIC codes.

----- SIC CODE=4612 USE TYPE=GROUNDWATER -----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
57	ALYESKA PIPELINE SERVICE COMPANY	ADL	64153	365	0.0076	2.7627
58	ALYESKA PIPELINE SERVICE COMPANY	ADL	401822	365	0.0062	2.2583
59	ALYESKA PIPELINE SERVICE COMPANY	LAS	6660	365	0.0054	1.9531
-----						-----
USETYPE						6.9741
SICCODE						6.9741

----- SIC CODE=4912 USE TYPE=SURFACE WATER -----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
60	ALASKA ENERGY AUTHORITY, DCED	ADL	67278	365	63.5478	23194.9539
61	ALASKA ENERGY AUTHORITY, DCED	ADL	201559	365	88.8921	32445.6139
62	ALASKA POWER AND TELEPHONE COMPANY	LAS	12268	365	8.1534	2975.9793
63	CHUGACH ELECTRIC ASSOCIATION, INC.	ADL	39886	365	60.6065	22121.3791
64	U.S. DEPARTMENT OF ENERGY, A.P.A.	ADL	44944	365	232.8240	84980.7450
-----						-----
USETYPE						165718.6713
SICCODE						165718.6713

----- SIC CODE=4941 USE TYPE=GROUNDWATER -----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
65	ALYESKA UTILITIES, INC.	LAS	1101	365	0.0635	23.1673
66	ANCHORAGE, MUN. (AWMU)	ADL	44626	365	0.1063	38.7969
67	ANCHORAGE, MUN. (AWMU)	ADL	44626	365	0.1596	58.2379
68	ANCHORAGE, MUN. (AWMU)	ADL	45420	307	0.0355	10.8884
69	ANCHORAGE, MUN. (AWMU)	ADL	50906	273	0.0144	3.9211
70	ANCHORAGE, MUN. (AWMU)	ADL	50908	181	0.2136	38.6643
71	ANCHORAGE, MUN. (AWMU)	ADL	50924	243	0.0639	15.5160
72	ANCHORAGE, MUN. (AWMU)	ADL	51573	335	0.0272	9.1200
73	ANCHORAGE, MUN. (AWMU)	ADL	54850	365	0.9366	341.8561
74	ANCHORAGE, MUN. (AWMU)	ADL	54850	365	0.9212	336.2230
75	ANCHORAGE, MUN. (AWMU)	ADL	62222	365	0.3321	121.2329
76	ANCHORAGE, MUN. (AWMU)	ADL	63855	334	0.0363	12.1299
77	ANCHORAGE, MUN. (AWMU)	ADL	65787	365	0.3440	125.5720
78	ANCHORAGE, MUN. (AWMU)	ADL	67201	365	0.1340	48.9122
79	ANCHORAGE, MUN. (AWMU)	ADL	201555	365	0.1353	49.3783
80	ANCHORAGE, MUN. (AWMU)	ADL	201920	365	0.0180	6.5554
81	ANCHORAGE, MUN. (AWMU)	ADL	201921	304	0.0977	29.6999
82	ANCHORAGE, MUN. (AWMU)	ADL	202997	365	0.7390	269.7211
83	ANCHORAGE, MUN. (AWMU)	ADL	203956	303	0.0997	30.2158
84	ANCHORAGE, MUN. (AWMU)	ADL	209828	335	0.0210	7.0239
85	ANCHORAGE, MUN. (AWMU)	LAS	246	365	0.5969	217.8842
86	ANCHORAGE, MUN. (AWMU)	LAS	11862	212	0.0030	0.6311
87	ANCIENT TREE, INC.	LAS	2372	365	0.0089	3.2532
88	B & J VENTURES, INC.	LAS	780	365	0.0058	2.0987
89	CHUGIAK - EAGLE RIVER INDUSTRIES	LAS	1947	304	0.0024	0.7162
90	CRAIG, CITY OF	ADL	62346	365	0.2354	85.9130
91	CRESTBROOK WATER ASSOC., INC.	ADL	206632	365	0.0085	3.0956
92	DILLINGHAM, CITY OF	ADL	46054	365	0.0375	13.6890
93	DILLINGHAM, CITY OF	ADL	46054	304	0.0852	25.9136
94	EKLUTNA UTILITIES, INC.	ADL	210807	365	0.1373	50.1145
95	EKLUTNA UTILITIES, INC.	LAS	1848	365	0.1318	48.1190
96	EKLUTNA UTILITIES, INC.	LAS	2811	365	0.0299	10.9277
97	ELIM, CITY OF	ADL	75895	365	0.0180	6.5839
98	ERU, INC.	LAS	1059	365	0.0082	2.9821
99	FAIRBANKS MUNICIPAL UTILITY SYSTEM	ADL	53813	365	2.8295	1032.7679
100	FAIRBANKS MUNICIPAL UTILITY SYSTEM	ADL	53813	60	0.0144	0.8624
101	FAIRBANKS MUNICIPAL UTILITY SYSTEM	ADL	53813	153	1.4880	227.6640
102	FORT YUKON, CITY OF	LAS	11321	365	0.0159	5.7882
103	HILLSIDE PARK HOMEOWNER'S ASSOCIATION	ADL	202909	365	0.0185	6.7572
104	JUANEAU, CITY & BOROUGH OF	ADL	44439	243	1.3394	325.4810

APPENDIX D. 1989 water-use data sorted by SIC codes.

----- SIC CODE=4941 USE TYPE=SURFACE WATER -----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
157	QUINHAGAK, CITY OF	LAS	11322	365	0.0080	2.9379
158	SAND POINT, CITY OF	LAS	11795	365	0.1658	60.5155
159	SCAMMON BAY, CITY OF	ADL	46364	365	0.0213	7.7898
160	SEWARD, CITY OF	ADL	210826	365	0.5700	208.0445
161	SOUTHPARK TERRACE HOMEOWNERS ASSOCIATION	ADL	209628	365	0.0262	9.5557
162	TATITLEK, VILLAGE OF	ADL	76071	365	0.0298	10.8898
-----						9472.5045
USETYPE						

----- SIC CODE=4941 USE TYPE=TRANSFERRED WATER -----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
163	DILLINGHAM, CITY OF	ADL	46054	365	0.1290	47.0908
164	ELIM, CITY OF	ADL	75895	365	0.0167	6.1021
165	FAIRBANKS MUNICIPAL UTILITY SYSTEM	ADL	53813	365	3.2051	1169.8593
166	FAIRBANKS MUNICIPAL UTILITY SYSTEM	ADL	53813	365	3.0272	1104.9152
167	GRAYLING, CITY OF	ADL	75908	365	0.0020	0.7264
168	GRAYLING, CITY OF	ADL	75908	365	0.0064	2.3313
169	GRAYLING, CITY OF	ADL	75908	365	0.0005	0.1664
170	JUNEAU, CITY & BOROUGH OF	LAS	1942	365	1.5228	555.8067
171	KODIAK, CITY OF	LAS	12460	365	4.0463	1476.8860
172	KOTZEBUE, CITY OF	ADL	401827	365	0.2673	97.5627
173	PETERSBURG, CITY OF	LAS	6550	365	0.8891	324.5160
174	QUINHAGAK, CITY OF	LAS	11322	365	0.0070	2.5451
-----						4788.5080
USETYPE						
SICCODE						20093.4639

----- SIC CODE=4952 USE TYPE=SURFACE WATER -----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
175	ANCHORAGE, MUN. (AWMU)	LAS	2493	365	31.4612	11483.3208
176	ANCHORAGE, MUN. (AWMU)	LAS	12453	365	28.0104	10223.8000
177	ANCHORAGE, MUN. (AWMU)	LAS	12454	365	12.8412	4687.0245
178	CRAIG, CITY OF	ADL	62346	365	0.1464	53.4196
179	FAIRBANKS MUNICIPAL UTILITY SYSTEM	LAS	225	365	5.3932	1968.5001
180	JUNEAU, CITY & BOROUGH OF	LAS	12456	365	1.7427	636.0910
181	JUNEAU, CITY & BOROUGH OF	LAS	12457	365	1.8040	658.4640
182	KENAI, CITY OF	LAS	12458	365	0.7783	284.0861
183	KODIAK, CITY OF	LAS	12459	365	1.8885	689.3021
184	NOME, CITY OF	LAS	12461	365	0.2800	102.2113
185	SEWARD, CITY OF	LAS	1921	365	0.7289	266.0379
186	SEWARD, CITY OF	LAS	11301	365	0.0576	21.0222
187	SOLDOTNA, CITY OF	LAS	12463	365	0.5527	201.7231
-----						31275.0027
USETYPE						
SICCODE						31275.0027

----- SIC CODE=6512 USE TYPE=GROUNDWATER -----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
188	JOHNSON ENTERPRISES	LAS	2082	365	0.0008	0.2832

----- SIC CODE=7542 USE TYPE=GROUNDWATER -----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
189	ORTNER, WALTER; DBA EAGLE VIEW CAR WASH	LAS	2102	365	0.0017	0.6285

APPENDIX E. 1989 water-use data sorted by hydrologic unit.

----- HYDROLOGIC UNIT=11 USETYPE=GROUNDWATER -----						
OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
1	ALYESKA PIPELINE SERVICE COMPANY	ADL	64153	365	0.0076	2.7627
----- HYDROLOGIC UNIT=11 USETYPE=SURFACE WATER -----						
OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
2	ARCO ALASKA, INC.	ADL	67781	92	0.2899	26.6742
3	ARCO ALASKA, INC.	ADL	67781	92	0.0001	0.0052
4	ARCO ALASKA, INC.	ADL	400793	365	0.0680	24.8098
5	ARCO ALASKA, INC.	ADL	400793	30	0.0011	0.0339
6	ARCO ALASKA, INC.	LAS	2762	365	0.0138	5.0436
7	ARCO ALASKA, INC.	LAS	2762	243	0.0172	4.1706
8	ARCO ALASKA, INC.	LAS	2762	92	0.0269	2.4747
9	ARCO ALASKA, INC.	LAS	10094	62	0.0192	1.1905
10	ARCO ALASKA, INC.	LAS	10094	30	0.0118	0.3528
11	ARCO ALASKA, INC.	LAS	10094	90	0.0021	0.1845
12	ARCO ALASKA, INC.	LAS	10094	120	0.0115	1.3835
13	ARCO ALASKA, INC.	LAS	10094	120	0.0137	1.6450
14	ARCO ALASKA, INC.	LAS	10094	61	0.0015	0.0886
15	ARCO ALASKA, INC.	LAS	10094	31	0.0130	0.4023
16	ARCO ALASKA, INC.	LAS	10094	61	0.0184	1.1245
17	ARCO ALASKA, INC.	LAS	10094	31	0.0009	0.0294
18	ARCO ALASKA, INC.	LAS	12166	31	0.0071	0.2205
19	ARCO ALASKA, INC.	LAS	12166	365	0.0389	14.2116
20	ARCO ALASKA, INC.	LAS	12168	31	0.0023	0.0710
21	ARCO ALASKA, INC.	LAS	12174	183	0.0231	4.2295
22	ARCO ALASKA, INC.	LAS	12188	31	0.0007	0.0217
23	BP EXPLORATION	ADL	66117	365	0.0596	21.7525
24	BP EXPLORATION	ADL	75979	365	0.1125	41.0658
25	BP EXPLORATION	LAS	7611	92	0.0009	0.0784
26	CONOCO, INC.	LAS	1936	275	0.4010	110.2709
27	CONOCO, INC.	LAS	1937	306	0.3301	100.9993
28	CONOCO, INC.	LAS	1938	214	0.1892	40.4875
29	CONOCO, INC.	LAS	2282	107	0.0343	3.6669
30	CONOCO, INC.	LAS	2285	157	0.0076	1.1915
31	CONOCO, INC.	LAS	12542	4	0.0263	0.1050
32	CONOCO, INC.	LAS	12542	9	0.1177	1.0590
33	TEXACO USA	LAS	11662	93	0.0049	0.4554
34	TEXACO USA	LAS	11662	93	0.0315	2.9288
35	TEXACO USA	LAS	11662	93	0.0291	2.7070
36	TEXACO USA	LAS	11662	93	0.0770	7.1600
37	TEXACO USA	LAS	11662	93	0.0000	0.0026
38	TEXACO USA	LAS	11662	93	0.0131	1.2157
39	TEXACO USA	LAS	11662	93	0.0108	1.0027
40	TEXACO USA	LAS	11662	93	0.0528	4.9093
41	TEXACO USA	LAS	11662	93	0.0478	4.4432
42	TEXACO USA	LAS	11662	93	0.0002	0.0216
USETYPE						433.8904
HYD						436.6531

----- HYDROLOGIC UNIT=13 USETYPE=SURFACE WATER -----						
OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
43	NOORVIK, CITY OF	ADL	75902	365	0.0060	2.1874
----- HYDROLOGIC UNIT=21 USETYPE=SURFACE WATER -----						
OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
44	KOTZEBUE, CITY OF	ADL	401827	365	0.2946	107.5381

APPENDIX E. 1989 water-use data sorted by hydrologic unit.

----- HYDROLOGIC UNIT=34 USETYPE=TRANSFERRED WATER -----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
61	FAIRBANKS MUNICIPAL UTILITY SYSTEM	ADL	53813	365	3.2051	1169.8593
62	FAIRBANKS MUNICIPAL UTILITY SYSTEM	ADL	53813	365	3.0272	1104.9152

USETYPE						2274.7745
HYD						5555.5992

----- HYDROLOGIC UNIT=35 USETYPE=GROUNDWATER -----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
63	ALYESKA PIPELINE SERVICE COMPANY	ADL	401822	365	0.0062	2.2583

----- HYDROLOGIC UNIT=36 USETYPE=SURFACE WATER -----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
64	GRAYLING, CITY OF	ADL	75908	365	0.0126	4.5826
65	SCAMMON BAY, CITY OF	ADL	46364	365	0.0213	7.7898

USETYPE						12.3724

----- HYDROLOGIC UNIT=36 USETYPE=TRANSFERRED WATER -----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
66	GRAYLING, CITY OF	ADL	75908	365	0.0020	0.7264
67	GRAYLING, CITY OF	ADL	75908	365	0.0064	2.3313
68	GRAYLING, CITY OF	ADL	75908	365	0.0005	0.1664

USETYPE						3.2240
HYD						15.5965

----- HYDROLOGIC UNIT=41 USETYPE=SURFACE WATER -----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
69	EEK, CITY OF	LAS	11320	365	0.0012	0.4307
70	MCGRATH, CITY OF	LAS	969	365	0.0320	11.6902
71	QUINHAGAK, CITY OF	LAS	11322	365	0.0080	2.9379

USETYPE						15.0588

----- HYDROLOGIC UNIT=41 USETYPE=TRANSFERRED WATER -----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
72	QUINHAGAK, CITY OF	LAS	11322	365	0.0070	2.5451

HYD						17.6040

----- HYDROLOGIC UNIT=42 USETYPE=GROUNDWATER -----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
73	DILLINGHAM, CITY OF	ADL	46054	365	0.0375	13.6890
74	DILLINGHAM, CITY OF	ADL	46054	304	0.0852	25.9136

USETYPE						39.6025

APPENDIX E. 1989 water-use data sorted by hydrologic unit.

----- HYDROLOGIC UNIT=53 USETYPE=GROUNDWATER -----						
OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
96	AK. DEPT. OF FISH & GAME, FRED DIVISION	LAS	12263	365	1.1183	408.1824
97	ALASKA ENERGY AUTHORITY, DCED	LAS	10581	365	0.0409	14.9300
98	ALASKA ZOO	LAS	3260	365	0.0003	0.1077
99	ALASKA ZOO	LAS	3260	365	0.0024	0.8665
100	ALASKA ZOO	LAS	3261	365	0.0025	0.8994
101	ALYESKA UTILITIES, INC.	LAS	1101	365	0.0635	23.1673
102	ANCHORAGE, MUN. (AWMU)	ADL	44626	365	0.1063	38.7969
103	ANCHORAGE, MUN. (AWMU)	ADL	44626	365	0.1596	58.2379
104	ANCHORAGE, MUN. (AWMU)	ADL	45420	307	0.0355	10.8884
105	ANCHORAGE, MUN. (AWMU)	ADL	50906	273	0.0144	3.9211
106	ANCHORAGE, MUN. (AWMU)	ADL	50908	181	0.2136	38.6643
107	ANCHORAGE, MUN. (AWMU)	ADL	50924	243	0.0639	15.5160
108	ANCHORAGE, MUN. (AWMU)	ADL	51573	335	0.0272	9.1200
109	ANCHORAGE, MUN. (AWMU)	ADL	54850	365	0.9366	341.8561
110	ANCHORAGE, MUN. (AWMU)	ADL	54850	365	0.9212	336.2230
111	ANCHORAGE, MUN. (AWMU)	ADL	62222	365	0.3321	121.2329
112	ANCHORAGE, MUN. (AWMU)	ADL	63855	334	0.0363	12.1299
113	ANCHORAGE, MUN. (AWMU)	ADL	65787	365	0.3440	125.5720
114	ANCHORAGE, MUN. (AWMU)	ADL	67201	365	0.1340	48.9122
115	ANCHORAGE, MUN. (AWMU)	ADL	201555	365	0.1353	49.3783
116	ANCHORAGE, MUN. (AWMU)	ADL	201920	365	0.0180	6.5554
117	ANCHORAGE, MUN. (AWMU)	ADL	201921	304	0.0977	29.6999
118	ANCHORAGE, MUN. (AWMU)	ADL	202997	365	0.7390	269.7211
119	ANCHORAGE, MUN. (AWMU)	ADL	203956	303	0.0997	30.2158
120	ANCHORAGE, MUN. (AWMU)	ADL	209828	335	0.0210	7.0239
121	ANCHORAGE, MUN. (AWMU)	LAS	246	365	0.5969	217.8842
122	ANCHORAGE, MUN. (AWMU)	LAS	11862	212	0.0030	0.6311
123	CHUGIAK - EAGLE RIVER INDUSTRIES	LAS	1947	304	0.0024	0.7162
124	CRESTBROOK WATER ASSOC., INC.	ADL	206632	365	0.0085	3.0956
125	EKLUTNA UTILITIES, INC.	ADL	210807	365	0.1373	50.1145
126	EKLUTNA UTILITIES, INC.	LAS	1848	365	0.1318	48.1190
127	EKLUTNA UTILITIES, INC.	LAS	2811	365	0.0299	10.9277
128	ERU, INC.	LAS	1059	365	0.0082	2.9821
129	HILLSIDE PARK HOMEOWNER'S ASSOCIATION	ADL	202909	365	0.0185	6.7572
130	KENAI, CITY OF	ADL	53282	365	0.3313	120.9322
131	KENAI, CITY OF	ADL	53282	365	0.3595	131.2131
132	NORFOLK UTILITIES & DEVELOPMENT, INC.	ADL	209576	365	0.2050	74.8104
133	OFFSHORE SYSTEMS - KENAI	LAS	12953	184	0.0811	14.9220
134	ORTNER, WALTER; DBA EAGLE VIEW CAR WASH	LAS	2102	365	0.0017	0.6285
135	PALMER, CITY OF	ADL	201324	272	0.4078	110.9099
136	PALMER, CITY OF	LAS	9889	166	0.4584	76.0936
137	PHILLIPS PETROLEUM COMPANY	ADL	42983	365	0.2925	106.7512
138	PUGET SOUND TUG & BARGE CO.	ADL	42979	238	0.0671	15.9779
139	ROYAL PACIFIC FISHERIES, INC.	LAS	1117	184	0.0219	4.0259
140	SOLDOTNA, CITY OF	ADL	52342	365	0.0149	5.4228
141	SOLDOTNA, CITY OF	ADL	52342	275	0.1144	31.4479
142	SOLDOTNA, CITY OF	ADL	206983	365	0.4306	157.1840
143	SOLDOTNA, CITY OF	ADL	214896	181	0.0337	6.0981
144	SOLDOTNA, CITY OF	LAS	11215	365	0.0021	0.7610
145	SOUTHCENTRAL UTILITIES, INC.	LAS	6516	365	0.0106	3.8799
146	TESORO ALASKA PETROLEUM COMPANY	ADL	42906	49	0.1343	6.5797
147	TESORO ALASKA PETROLEUM COMPANY	ADL	42906	359	0.3334	119.6902
148	TURNER COMPANY	LAS	1270	123	0.0540	6.6388
149	U.S. AIR FORCE	LAS	12529	61	0.1463	8.9260

APPENDIX E. 1989 water-use data sorted by hydrologic unit.

----- HYDROLOGIC UNIT=54 USETYPE=SURFACE WATER -----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
186	ALASKA ENERGY AUTHORITY, DCED	ADL	67278	365	63.5478	23194.9539
187	ALYESKA PIPELINE SERVICE COMPANY	LAS	11813	365	0.1998	72.9370
188	CHUGACH ELECTRIC ASSOCIATION, INC.	ADL	39886	365	60.6065	22121.3791
189	SEWARD, CITY OF	ADL	210826	365	0.5700	208.0445
190	SEWARD, CITY OF	LAS	1921	365	0.7289	266.0379
191	SEWARD, CITY OF	LAS	11301	365	0.0576	21.0222
192	TATITLEK, VILLAGE OF	ADL	76071	365	0.0298	10.8898

USETYPE						45895.2653

----- HYDROLOGIC UNIT=54 USETYPE=TRANSFERRED WATER -----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
193	PRINCE WILLIAM SOUND AQUACULTURE CORP.	LAS	1312	365	31.4230	11469.3892
194	VALDEZ FISHERIES DEVELOPMENT ASSOC., INC	LAS	6722	89	0.1200	10.6813

USETYPE						11480.0705
HYD						57876.8407

----- HYDROLOGIC UNIT=61 USETYPE=GROUNDWATER -----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
195	YAKUTAT, CITY OF	ADL	43340	365	0.4848	176.9429
196	YAKUTAT, CITY OF	ADL	43340	184	0.8839	162.6369
197	YAKUTAT, CITY OF	ADL	43340	120	0.0354	4.2470

USETYPE						343.8268
HYD						343.8268

----- HYDROLOGIC UNIT=62 USETYPE=GROUNDWATER -----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
198	JUNEAU, CITY & BOROUGH OF	ADL	44439	243	1.3394	325.4810
199	JUNEAU, CITY & BOROUGH OF	ADL	100066	365	0.6085	222.0872

USETYPE						547.5682

----- HYDROLOGIC UNIT=62 USETYPE=SURFACE WATER -----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
200	ALASKA POWER AND TELEPHONE COMPANY	LAS	12268	365	8.1534	2975.9793
201	JUNEAU, CITY & BOROUGH OF	LAS	12456	365	1.7427	636.0910
202	JUNEAU, CITY & BOROUGH OF	LAS	12457	365	1.8040	658.4640

USETYPE						4270.5343

----- HYDROLOGIC UNIT=62 USETYPE=TRANSFERRED WATER -----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
203	JUNEAU, CITY & BOROUGH OF	LAS	1942	365	1.5228	555.8067

HYD						5373.9092

----- HYDROLOGIC UNIT=63 USETYPE=SURFACE WATER -----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
204	PETERSBURG, CITY OF	LAS	6550	365	0.9803	357.7949

APPENDIX F.

Standard Industrial Classification (S.I.C.) Code List.

1. Select the "Division" from the list below.

DIVISION A - AGRICULTURE, FORESTRY & FISHING
 DIVISION B - MINING
 DIVISION C - CONSTRUCTION
 DIVISION D - MANUFACTURING
 DIVISION E - TRANSPORTATION, COMMUNICATIONS,
 ELECTRIC, GAS & SANITARY SVCS.

DIVISION F - WHOLESALE TRADE
 DIVISION G - RETAIL TRADE
 DIVISION H - FINANCE, INSURANCE & REAL ESTATE
 DIVISION I - SERVICES
 DIVISION J - PUBLIC ADMINISTRATION
 DIVISION K - NONCLASSIFIABLE ESTABLISHMENTS

2. Check the sub-heading as set out under each "division" on the list.
3. Select the title under the sub-heading which best describes your business activity.
4. Write the four-digit number that appears in front of your selection in the space provided on your application.
5. Numbers ending with 99 will indicate "nec," which means "not elsewhere classified."
6. If the S.I.C. Code that describes your business is printed in bold italics, you must meet additional regulatory requirements. Please see the Instructions on the Alaska Business License Application.

DIVISION A. AGRICULTURE, FORESTRY, & FISHING

0100 Agricultural Production-Crops
 0134 Potatoes
 0160 Vegetables & Melons
 0170 Fruits & Tree Nuts
 0180 Horticultural Specialties
 0190 General Farms
0200 Agricultural Production-Livestock
 0211 Beef Cattle
 0213 Hogs
 0214 Sheep & Goats
 0219 General Livestock
 0240 Dairy Farms
 0250 Poultry & Eggs
 0270 Animal Specialties
 0271 Fur Animals & Rabbits
 0272 Horses & Other Equines
0700 Agricultural Services
 0710 Soil Preparation Services
 0729 Crop Services
 0722 Crop Harvesting
 0729 General Crop Services
 0740 Veterinary Services
 0741 Veterinary Spec. Farm Livestock
 0752 Animal Specialty Services
 0780 Landscape & Horticultural Svcs.
 0781 Landscape Counseling & Planning
 0782 Lawn & Garden Services
0800 Forestry
 0820 Forest Nurseries
 0830 Forest Services
0900 Fishing, Hunting, & Trapping
 0910 Fish Buyer
 0911 Commercial Fishing
 0912 Fishery
 0913 Shellfish
 0919 Misc. Marine Products
 0920 Fish Hatcheries & Preserves
 0970 Hunt, Trap, Game Propagation

DIVISION B. MINING

1000 Metal Mining
 1010 Iron Ores
 1020 Copper Ores
 1030 Lead & Zinc Ores
 1040 Gold & Silver Ores
 1080 Metal Mining Services
 1090 Metal Ores, nec.
1100 Anthracite Mining
1200 Bituminous Coal & Lignite Mining
1300 Oil & Gas Extraction
 1310 Crude Petroleum & Natural Gas
 1320 Natural Gas Liquids
 1380 Oil & Gas Field Services
 1381 Drilling Oil & Gas Wells
 1382 Oil & Gas Exploration Services
 1388 Oil & Gas Field Services, nec.
1400 Nonmetallic Minerals, Except Fuels
 1410 Dimension Stone
 1420 Crushed & Broken Stone
 1440 Sand & Gravel
 1450 Clay & Related Minerals
 1470 Chemical & Fertilizer Minerals
 1480 Misc. Nonmetallic Minerals
 1490 Nonmetallic Minerals, nec.

DIVISION C. CONSTRUCTION

1600 General Building Contractors
 1620 Residential Bldg. Construction
 1622 Residential Construction, nec.
 1630 Operative Buildings
 1640 Nonresidential Bldg. Construction
 1642 Nonresidential Construction, nec.
1800 Heavy Construction Contractors
 1810 Highway & Street Construction
 1820 Heavy Construction, Except Highway
 1822 Bridge, Tunnel, & Elevated Highway
 1823 Water, Sewer, & Utility Lines
 1829 Heavy Construction, nec.

DIVISION D. MANUFACTURING

2000 Food & Kindred Products
 2010 Meat Products
 2020 Dairy Products
 2030 Preserved Fruits & Vegetables
 2040 Grain Mill Products
 2050 Bakery Products
 2060 Sugar & Confectionary Products
 2070 Fats & Oils
 2080 Beverages
 2082 Malt Beverages
 2084 Wines, Brandy & Spirits
 2085 Distilled Liquor, Except Brandy
 2086 Bottled and Canned Soft Drinks
 2087 Flavoring Extracts & Syrups, nec.
 2090 Misc. Foods & Kindred Products
 2091 Canned & Cured Seafoods
 2092 Fresh or Frozen Packaged Fish
 2097 Manufactured Ice
 2098 Food Preparations, nec.
2100 Tobacco Manufacturers
2200 Textile Mill Products
 2270 Floor Covering Mills
 2280 Yarn & Thread Mills
 2290 Misc. Textile Goods
 2299 Textile Goods, nec.
2300 Apparel & Other Textile Products
 2380 Misc. Apparel & Accessories
 2390 Misc. Fabricated Textile Products
2400 Lumber & Wood Products
 2410 Logging Camps & Contractors
 2420 Sawmills & Planing Mills
 2430 Millwork, Plywood, Structural
 2440 Wood Containers
 2450 Wood Buildings & Mobile Homes
 2451 Mobile Homes
 2452 Prefabricated Wood Buildings
 2480 Misc. Wood Products
 2490 Wood Products, nec.
2500 Furniture & Fixtures
 2510 Household Furniture
 2520 Office Furniture
 2540 Partitions & Fixtures
 2580 Misc. Furniture & Fixtures
 2590 Furniture & Fixtures, nec.
2600 Paper & Allied Products
 2610 Paper Mills
 2620 Paper Mills, Except Bldg. Paper
 2630 Paperboard Mills
 2640 Misc. Converted Paper Products
 2650 Paperboard Containers & Boxes
 2660 Building Paper & Board Mills
2700 Printing & Publishing
 2710 Newspapers
 2720 Periodicals
 2721 Book Publishing
 2722 Book Printing
 2740 Miscellaneous Publishing
 2750 Commercial Printing
 2760 Mailbox Business Forms
 2780 Printing Trade Services
2800 Chemicals and Allied Products
 2810 Industrial Inorganic Chemicals
 2820 Plastics and Synthetics
 2830 Drugs
 2840 Soap, Cleaners, & Toilet Goods
 2860 Industrial Organic Chemicals
 2870 Agricultural Chemicals
 2890 Misc. Chemicals Products

DIVISION E. TRANSPORTATION & PUBLIC UTILITIES

2900 Petroleum and Coal Products
 2910 Petroleum Refining
 2950 Paving & Roofing Material
 2990 Misc. Petroleum & Coal Products
3000 Rubber & Misc. Plastics Products
 3010 Misc. Plastics Products
3100 Leather and Leather Products
 3110 Leather Tanning and Finishing
 3130 Boot & Shoe Cut Stock & Findings
 3140 Footwear, Except Rubber
 3150 Leather Goods & Millinery
 3170 Handbags & Personal Leather Goods
 3199 Leather Goods, nec.
3200 Stone, Clay, and Glass Products
 3260 Pottery and Related Products
 3270 Concrete Gypsum & Plaster Products
 3280 Cut Stone & Stone Products
 3299 Nonmetallic Mineral Products, nec.
3300 Primary Metal Industries
3400 Fabricated Metal Products
3500 Machinery, Except Electrical
3600 Electric and Electronic Equipment
3700 Transportation Equipment
 3710 Motor Vehicles & Equipment
 3720 Aircraft & Parts
 3730 Ship & Boat Building & Repairing
 3750 Motorcycles, Bicycles, & Parts
 3760 Misc. Transportation Equipment
 3792 Travel Trailers & Campers
3800 Instruments and Related Products
3900 Miscellaneous Manufacturing Industries
 3910 Jewelry, Silverware, & Plated Ware
 3911 Jewelry, Precious Metal
 3915 Jewelers' Materials & Legendary Work
 3930 Musical Instruments
 3940 Toys & Sporting Goods
 3960 Costume Jewelry & Novelties
 3990 Misc. Manufactures
4000 Railroad Transportation
4100 Local & Interurban Passenger Transit
 4110 Local & Suburban Transportation
 4120 Trolleys
 4130 Intercity Highway Transportation
 4140 Transportation Charter Service
 4151 School Buses
 4170 Bus Terminal & Service Facilities
4200 Trucking & Warehousing
 4210 Trucking, Local & Long Distance
 4220 Public Warehousing
 4230 Trucking Terminal Facilities
4300 U.S. Postal Service
4400 Water Transportation
 4410 Deep Sea Foreign Transportation
 4420 Deep Sea Domestic Transportation
 4450 Local Water Transportation
 4451 Towing & Tugboat Services
 4459 Local Water Transportation, nec.
 4460 Water Transportation Services
 4483 Marine Cargo Handling
 4488 Water Transportation Svcs., nec.
4500 Air Transportation
 4510 Certificated Air Transportation
 4520 Noncertificated Air Transportation
 4580 Air Transportation Services
 4582 Airports & Flying Fields
 4583 Airport Terminal Services
4600 Pipelines, Except Natural Gas
 4610 Pipelines, Except Natural Gas
 4612 Crude Petroleum Pipelines
 4613 Refined Petroleum Pipelines
 4619 Pipelines, nec.