Public-Data File 88-37

SUMMARY OF WATER-USE DATA IN ALASKA, 1987

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SEPTEMBER 1988

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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 175 water-use take points in Alaska for calendar year 1987 with descriptions of data collection, verification, storage, and presentation methodologies. The water-use data were collected from 77 unique user groups. Most of these data (73 percent) are from public-water supplies in 59 communities in Alaska. AWUDS contains only sporadic data in other water-use categories such as mining, agricultural, hydroelectric, 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). These summaries include both reported data and estimates for all types of water use in the state. The Alaska Oil and Gas Conservation Commission (AOGCC) Bulletin is a monthly

publication which has monthly summaries of all oil, gas, and water production, and injection wells serving the oil and gas industry in Alaska. This information is available from the early 1960's to the present, encompassing virtually the entire history of oil and gas production in Alaska. Annual summaries appear in the February issues. The oil and gas related water-use data that appear in this report are collected from sources other than the AOGCC Bulletin. They all are compiled from water rights related reports.

Hydroelectric power generation water-use data are also available for six facilities in Alaska. The Alaska Power Administration has water-use data available in manual files for two hydroelectric projects and the Alaska Power Authority has four hydroelectric projects for which outflow streams are gaged (Eric Marchegiani, Alaska Power Authority, oral commun., 1987). These data are published by USGS in an annual report series entitled "Water Resources Data - Alaska".

The DNR Division of Mining has water-use estimates available from approximately 500 active State placer mining claim applications per year. These claim applications are entered in the LAS mining subsystem and reviewed by DLWM for water rights issuance. Most of the reliable water-use data for mining in Alaska is part of DLWM's water rights adjudication process.

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 the Land Administration System (LAS) database. 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 records at the discretion of the adjudicator (L.A. Carlson, DLWM, oral commun., 1987). The DNR Division of Management (DM) produces a monthly printout which lists all permitted or certified water rights holders that are required to submit water-use data. This printout is used to determine which of these applicants have water-use records available in DLWM's manual files and the potential to be used by AWUDS.

The second method of collecting water-use data is by sending a questionnaire packet directly to the water user asking for voluntary submittal of water-use data. The questionnaire packet requests submittal of information on

the type and location of water sources and historic water-use data not yet submitted. By mid-January of each calendar year all water-use questionnaire packets for that calendar year are mailed to selected communities or water users by AWUDS staff. The questionnaire packets include 12 monthly water-use forms and 12 stamped self-addressed envelopes for use in returning water-use information to DGGs during the calendar year. Criteria for selection of water users to receive packets are: 1) they have received questionnaires in previous years; 2) they are a community with its own public water-supply system; or 3) they are in an area of hydrologic interest to the State.

In assuming responsibility for the AWUDS project from DLWM in 1986, DGGs took the program as a whole. Today, most of the same water users are asked to report water use to DGGs. The main DLWM criteria for an AWUDS water-use site was public suppliers. DGGs philosophy for incorporation of water users into the program, like DLWM includes public water suppliers. Public water supply is a major water-use type in Alaska and as a public supply, the state has an interest in quantity and quality of such water. 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 poor quality data reporting. Generally, most sites chosen by DLWM for water-use data reporting continue to be asked by DGGs to cooperate because they are good choices by DGGs standards.

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 tele-

phone 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 most commonly is recorded and reported monthly. For some systems, daily, quarterly, or annual reports are made. Approximately 18 percent of all reports record water use on a quarterly basis and approximately 3 percent of the reports are sent as daily meter records or water-use quantities that have to be synthesized into monthly reports. Only 1 percent of all reported water-use data are acquired as annually recorded data. About 33 percent of all monthly recorded water-use reports also include daily meter readings or water-use quantities. These reports are stored in AWUDS manual files for potential use. Data are usually collected at well heads or storage tank outlets, rather than at actual points of use.

Some communities in Alaska do not have equipment for measuring actual water use, but provide estimates based on past data and recent events in their community. Although these estimates are included under the term "water-use

data" in this report, they are specifically noted as estimates in the data tables.

DATA VERIFICATION AND STORAGE

Reported water-use data are checked for obvious clerical or reporting errors and stored in the LAS 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 (1972) 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 done, 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 1987 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 file numbers. Approximately 93 percent of all reported water users have water rights, 10 percent of which are temporary water use permits. The remaining 7 percent 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 1987. 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 a complete data listing, ordered by file numbers. Appendix C provides a cross reference between commonly used facility names and file numbers, for use in locating site specific data in Appendix B. Appendix D contains an abbreviated

retrieval of the data ordered by SIC codes, and Appendix E contains an abbreviated retrieval ordered by hydrologic unit code.

Total reported water use in Alaska, 1987, listed here was 182,972 million gallons (MG). Table 2 shows that hydroelectric power generation is the largest reported water use in Alaska in 1987 (163,809 MG), even though only three of the six major hydroelectric facilities operating in Alaska during 1987 are included in this report. Hydroelectric water usage varies seasonally (fig. 2), as a result of low summer and high winter electrical demand patterns.

The second largest reported use of water is public water supplies (13,370 MG), which is at least partly a result of the emphasis of the AWUDS program to collect these types of data. To avoid confusion, it must be pointed out that the definition of public water supplies used in this report differs substantially from the definition of a "public water system" used by the Alaska Department of Environmental Conservation (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 regulates approximately 2400 public water systems in Alaska (Munter and Maynard, 1987) of which 136 are among the 175 sources contained in this report. The discrepancy between the 136 public water systems and the 175 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 2264) 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.

Exclusive of hydroelectric power generation, reported peak water usage generally occurs in the summer and lowest water usage occurs in the winter (fig. 2). With the exception of hydroelectric use, there is little seasonal variance in all reported water use. This phenomenon could possibly be attributed to the practice in many rural areas of keeping household taps partially open through periods of cold weather to avoid freezing of water pipes. Aquaculture needs (4,628 MG) are relatively stable with peak use during the salmon spawning period.

Figure 3 depicts the geographic distribution of all reported water use, and also shows the distribution exclusive of hydroelectric water use. Hydroelectric power generation water use is by far the largest reported use type and skews general statewide water use. Forty-seven 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 (34

percent) occurs in the Sitka area. A large amount of total water use in these areas is hydroelectric use. Exclusive of hydroelectric water use, the percentages of reported water use in the East Cook Inlet area were 52 percent with 6 other hydrologic units having between 5 and 9 percent of the total non-hydroelectric reported water use. Exclusive of aquaculture and hydroelectric reported water use, East Cook Inlet area uses 36 percent of all reported water use in Alaska.

Typically, water use in Alaska is dominated by hydroelectric power generation (fig. 4). Public water supply is the next most dominant reported water-use type in Alaska, followed by aquaculture water use which was only reported in the East Cook Inlet area.

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 water supply lines buried too shallow and subject to freezing and bursting. Additionally, even though public water supplies are usually used year-round, data are partially missing for 39 of the 175 sources listed in Appendix A.

As previously mentioned, this report does not describe all water use in Alaska in 1987. 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, 1983, 1985). Considering all uses of water, the USGS (1983, 1985) estimated that 363,340 MG of water was used during 1980. This indicates that only approximately 50 percent of all water use is reported here.

ACKNOWLEDGEMENTS

This report was funded through a cooperative program with the U.S. Geological Survey. Jim Jurgens of DNR-Division of Management (DM) provided valuable computer assistance in transferring data files from the LAS water subsystem to the DG computer and then translating these files into usable format. Jean Tam, also of DM provided SAS programming, graphics, and report printout assistance. Jim Munter of DGGs provided technical reviews and comments.

REFERENCES CITED

- Alaska Department of Environmental Conservation, 1982, State of Alaska, drinking water regulations, 20 p.
- U.S. Geological Survey, 1976, Hydrologic unit map - 1974, State of Alaska: United State Geological Survey Publication, 1:2,500,000 scale, 1 sh.
- _____, 1983, National Water Summary 1983 - Hydrologic events and issues: Water-supply paper 2250, 243 p.

U.S. Geological Survey, 1985, National Water Summary 1985 - Hydrologic events and surface-water resources: Water-supply paper 2300, 506 p.

U.S. Office of Management and Budget, 1972, Standard Industrial Classification Manual: Statistical Policy Division, 649 p.

REGIONS and SUBREGIONS

10 ARCTIC

- 11 Eastern Arctic Slope
- 12 Colville River System
- 13 Western Arctic Slope

20 NORTHWEST

- 21 Kotzebue Sound
- 22 Norton Sound

30 YUKON

- 31 Canadian Drainage
- 32 Upper Yukon
- 33 Middle Yukon
- 34 Tanana River System
- 35 Koyukuk River System
- 36 Lower Yukon

40 SOUTHWEST

- 41 Kuskokwim River System
- 42 Bristol Bay
- 43 Eastern Aleutians
- 44 Western Aleutians

50 SOUTH-CENTRAL

- 51 Kodiak / East Ak. Penin.
- 52 West Cook Inlet
- 53 East Cook Inlet
- 54 Pt. W. Sound / E. Kenai
- 55 Copper River System

60 SOUTHEAST

- 61 Icy Bay / Yakutat Bay
- 62 SE Mainland - North
- 63 SE Mainland - Central
- 64 SE Mainland - South
- 65 SE Islands - North
- 66 SE Islands - Central
- 67 SE Islands - South

FIGURE 1. Generalized hydrologic unit map of Alaska

1987 Monthly Water Use

FIGURE 2. Comparison of 1987 monthly water use for aquaculture, hydroelectric power generation and all other types.

Comparison of Water Use by Hydrologic Unit

SUM OF MG_YEAR BY HYDRUNIT

All Water-Use Types

Exclusive of Hydroelectric Power Generation

HYDROLOGIC UNITS

- 34 Tanana River System
- 51 Kotlik / Eastern Alaska Penin.
- 53 Eael Cook Inlet
- 54 Pr. Wm. Sound / E. Kenai Penin.
- 62 SE Mainland - North
- 64 SE Mainland - South
- 66 SE Islands - Central

Whole numbers represent HYDROLOGIC UNITS.
Decimal numbers represent millions of gallons of water per year.

FIGURE 3. Comparison of 1987 water use by hydrologic unit.

Comparison of Water Use by SIC Code

SUM OF MG-YEAR BY SICCODE

All Water-Use Types

Exclusive of Hydroelectric Power Generation

Whole numbers represent SIC Codes.
Decimal numbers represent millions of gallons of water per year.

FIGURE 4. Comparison of water use by SIC code.

Table 1. Types of reported water-use in Alaska, 1987.

<u>SIC Category</u>	<u>Number of sources</u>	<u>Percentage of total</u>
Public water supplies	127	73
Oil & gas extraction related	22	13
Aquaculture	5	3
Hydroelectric power generation	3	2
Refineries	3	2
Seafood processing	3	2
Other (zoos, schools, car washes, skating rinks, golf courses, dam construction, visitor's centers, and operators of non-residential buildings)	<u>12</u>	<u>7</u>
TOTAL	175	102

Table 2. Comparison of types of water-use data by SIC code, by WITHDRAWAL TYPE.

SIC Code	Description	Ground water (MG)	% GW	Surface Water (MG)	% SW	Total (MG)	% of Total	% of total GW	% of total SW
921	Aquaculture	1990.3278	43	2637.4200	57	4627.7478	2.53	18.25	1.53
1311	Crude Petroleum & Natural Gas	-	-	83.0178	100	83.0178	.05	-	.05
1629	Heavy Construction	1.9359	100	-	-	1.9359	<.01	.02	-
2091	Canned and Cured Seafoods	-	-	54.0975	100	54.0975	.03	-	.03
2092	Fresh and Frozen Seafoods	6.2806	100	-	-	6.2806	<.01	.06	-
2873	Nitrogenous Fertilizers	600.8338	100	-	-	600.8338	.33	5.51	-
2911	Petroleum Refining	397.8002	100	-	-	397.8002	.22	3.65	-
4612	Crude Petroleum Pipelines	5.6462	-	-	-	5.6462	<.01	.05	-
4912	Electric Power Generation	-	-	163808.6095	100	163808.6095	89.53	-	95.20
4941	Public Water Supply	7889.0100	59	5481.2630	41	13370.2730	7.31	72.33	3.19
6512	Office Bldg. Operations	.0551	100	-	-	.0551	<<.01	<<.01	-
7542	Car washes	.6154	100	-	-	.6154	<<.01	<<.01	-
7992	Golf Courses	.3406	100	-	-	.3406	<<.01	<.01	-
7997	Ice Arenas	8.8381	100	-	-	8.8381	<.01	.08	-
7999	Visitor Centers, Zoo	2.2914	100	-	-	2.2914	<.01	.02	-
8211	Elementary & Secondary Schools	3.5492	100	-	-	3.5492	<.01	.03	-
Total		10907.5243	6	172064.4078	94	182971.9322	100.04	100.01	100.00
Total w/o SIC 4912		10907.5243	57	8255.7983	43	19163.3226	10	100.00	5.00
Total w/o SIC 4912 & 921		8917.1965	61	5618.3783	39	14535.5748	8	82.00	3.00

Table 3. Reported water use from USGS 5-Year Summary, 1980.

OFFSTREAM USE, 1980				
Freshwater Withdrawals				
	GPD	MGD	MG/YEAR	%
Surface water and ground water, total	220		80,520	
Surface water only		170	62,220	
Percentage of total				77
Percentage of total excluding withdrawals for thermoelectric power				78
Ground water only	49		17,934	
Percentage of total	22			
Percentage of total excluding withdrawals for thermoelectric power				26
Category of Use				
Public-supply withdrawals:				
Surface water	30		10,980	
Percentage of total surface water				18
Percentage of total public supply				57
Per capita			265	
Ground water	23		8,418	
Percentage of total groundwater				47
Percentage of total public supply				43
Per capita			134	
Rural-supply withdrawals:				
Domestic:				
Surface water	0.1		37	
Percentage of total surface water				<1
Percentage of total rural domestic				1
Per capita			10	
Ground water	11		4,026	
Percentage of total groundwater				22
Percentage of total rural domestic				99
Per capita			105	
Livestock:				
Surface water	0.1		37	
Percentage of total surface water				<1
Percentage of total livestock				50
Ground water	0			
Percentage of total groundwater				0
Percentage of total rural domestic				0
Industrial self-supplied withdrawals:				
Surface water	140		51,240	
Percentage of total surface water				82
Including withdrawals for thermoelectric power				
Excluding withdrawals for thermoelectric power				91
				95

Table 3. (continued)

	GPD	MGO	MG/YEAR	1
Ground water	14		5,124	
Percentage of total ground water				31
Percentage of total industrial self-supplied:				
Including withdrawals for thermoelectric power				9
Excluding withdrawals for thermoelectric power				11

INSTREAM USE, 1980				
Hydroelectric power	770		281,820	

APPENDIX A

Explanation of Table Headings

The following are explanations of the headings used for information printed in the tables for this report.

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.
FAC_NAME or FACILITY NAME	The name of the water-using facility or installation with-drawing, returning, delivering or releasing, water.
IDENT.	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.
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.
CW	The number of chains west of the east line of the Section. A chain equals 66 ft.
CN	The number of chains north of the south 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.																		
CODE	The numerical code representing the STATUS DESCRIPTION.																		
WITHCODE	A code indicating whether the related data elements are describing a withdrawal or return of water.																		
SEQ	A unique two-digit sequence code, within a facility, to identify a specific withdrawal, delivery or return of water. Facilities having many sources or returns, may have several unique withdrawal/return sequence codes.																		
WITHTYPE or WITHDRAWAL TYPE	<p>The type of water body from which water is withdrawn or returned by the using facility. TYPE codes include:</p> <ul style="list-style-type: none"> -Ground water (GW) -Surface water (SW) -Transferred water (TW) (that is, water transferred between two water-using facilities without passing through a natural water body) -Injection water (IW) (that is, water moved artificially from a surface location to the ground water system for storage or disposal). This code is valid only when the Withdrawal/Return Code is 'R' 																		
NWUDS	<p>The National Water Use Data System sub-category code that pertains to the water-use. NWUDS codes include:</p> <table border="0" style="margin-left: 40px;"> <tr> <td>Agriculture (non-irrigated) (AG)</td> <td>Mining (MI)</td> </tr> <tr> <td>Aquaculture (AQ)</td> <td>Navigation (NV)</td> </tr> <tr> <td>Commercial (CO)</td> <td>Nuclear Energy Power (PN)</td> </tr> <tr> <td>Domestic (DO)</td> <td>Preservation (PR)</td> </tr> <tr> <td>Fossil Fuel Power (PF)</td> <td>Quality Improvement (QI)</td> </tr> <tr> <td>Geothermal Power (PG)</td> <td>Recreation (RC)</td> </tr> <tr> <td>Hydroelectric Power (PH)</td> <td>Sewage Treatment (ST)</td> </tr> <tr> <td>Industrial (IN)</td> <td>Treaties (TR)</td> </tr> <tr> <td>Irrigation (IR)</td> <td>Water Supplier (WS)</td> </tr> </table>	Agriculture (non-irrigated) (AG)	Mining (MI)	Aquaculture (AQ)	Navigation (NV)	Commercial (CO)	Nuclear Energy Power (PN)	Domestic (DO)	Preservation (PR)	Fossil Fuel Power (PF)	Quality Improvement (QI)	Geothermal Power (PG)	Recreation (RC)	Hydroelectric Power (PH)	Sewage Treatment (ST)	Industrial (IN)	Treaties (TR)	Irrigation (IR)	Water Supplier (WS)
Agriculture (non-irrigated) (AG)	Mining (MI)																		
Aquaculture (AQ)	Navigation (NV)																		
Commercial (CO)	Nuclear Energy Power (PN)																		
Domestic (DO)	Preservation (PR)																		
Fossil Fuel Power (PF)	Quality Improvement (QI)																		
Geothermal Power (PG)	Recreation (RC)																		
Hydroelectric Power (PH)	Sewage Treatment (ST)																		
Industrial (IN)	Treaties (TR)																		
Irrigation (IR)	Water Supplier (WS)																		
SIC or SIC CODE	The Standard Industrial Classification (SIC) codes applicable to the type of water-use (see appendix B).																		
RECORDS	The method used by the facility to determine the total quantity of water withdrawn or returned to or from a body of water. Methods are metered, calculated or estimated.																		

ACCURACY	<p>Contains a code indicating the accuracy of the methods used by the facility to measure the water quantity. The codes are:</p> <p>Excellent - the figure for the amount of water used is accurate to within 5 percent of the actual value</p> <p>Good - the figure for the amount of water used is accurate to within 5 to 10 percent of the actual value</p> <p>Fair - the figure for the amount of water used is accurate within a range of 10 to 25 percent of the actual value</p> <p>Poor - The figure for the amount of water used contains more than a 25 percent error.</p> <p>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.</p>
PERIOD	The applicable span of time over which water-use reports have been based. Choices are monthly, quarterly, and yearly.
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 or HYDRUNIT	<p>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:</p> <ul style="list-style-type: none"> 11 - Eastern Arctic Slope 12 - Colville River System 13 - Western Arctic Slope 21 - Kotzebue Sound 22 - Norton Sound 31 - Canadian Drainage 32 - Upper Yukon 33 - Middle Yukon 34 - Tanana River System 35 - Koyukuk River System 36 - Lower Yukon 41 - Kuskokwim River System 42 - Bristol Bay 43 - Eastern Aleutians 44 - Western Aleutians 51 - Kodiak/Eastern Alaska Peninsula 52 - Western Cook Inlet 53 - Eastern Cook Inlet 54 - Prince William Sound/Eastern Kenai 55 - Copper River System 61 - Icy Bay/Yakutat Bay 62 - S.E. AK. Mainland - North 63 - S.E. AK. Mainland - Central 64 - S.E. AK. Mainland - South 65 - S.E. AK. Islands - North 66 - S.E. AK. Islands - Central 67 - S.E. AK. Islands - South
JANUARY.. DECEMBER	The quantity of water used during the named month (MGD). The entry "0.0000" indicates no water-use during the month. The entry " ." indicates no records available for the month.
OBS	The sequential order that a data entry appears in a table.
MG_YEARLY	The cumulative amount of water used in a calendar year. Obtained by multiplying DAYS and DAILYAVG.

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FILE	FACILITY NAME			IDENT.	LATITUDE		LONGITUDE		MERIDIAN	TOWN	RNGE	SEC	QQ	Q	CW	CN
SOURCE / DESTINATION	STATUS DESCRIPTION			CODE	WITHCODE		SEQ		WITHTYPE	NWUDS						
SIC	RECORDS	ACCURACY	PERIOD	MONTHS	DAYS	DAILY AVG	YEARLY AVG	MAX. MONTH	MIN. MONTH							HYD
JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER					
ADL 39797	KODIAK, CITY OF			126356		574807.8	1522442.1 W	SEWARD	27S	19W	30	SE	SE	13	7	
PILLAR CREEK / CITY OF KODIAK				CERTIFICATE ISSUED		12	WITHDRAWAL 01	GROUNDWATER								
4941	METERED	GOOD	MONTHLY	12	365	0.4408	0.4408	JULY		SEPTEMBER						51
0.5108	0.2122	0.3422	0.4000	0.3226	0.2909	0.6496	0.5968	0.1928	0.3769	0.7756						0.5940
ADL 39835	PORT LIONS, CITY OF			127129		575204.5	1525339.5 W	SEWARD	27S	22W	6	NE	NE	3	51	
BRANCHWATER CREEK / CITY OF PORT LIONS				CERTIFICATE ISSUED		12	WITHDRAWAL 01	SURFACE WATER								
4941	METERED	GOOD	MONTHLY	12	365	0.0846	0.0846	DECEMBER		JUNE						51
0.0815	0.0786	0.0864	0.0798	0.0700	0.0660	0.0695	0.0791	0.0908	0.1027	0.0963						0.1143
ADL 39936	SEWARD, CITY OF			127408		600637.6	1492649.8 W	SEWARD	1S	1W	9	NW	SE	9	70	
FT. RAYMOND #2 / CITY OF SEWARD				CERTIFICATE ISSUED		12	WITHDRAWAL 02	GROUNDWATER								
4941	METERED	GOOD	MONTHLY	12	31	0.2525	0.0214	JANUARY								54
0.2525	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
ADL 39936	SEWARD, CITY OF			127408		600637	1492648.4 W	SEWARD	1S	1W	9	NW	SE	8	69	
FT. RAYMOND WELL #3 / CITY OF SEWARD				CERTIFICATE ISSUED		12	WITHDRAWAL 03	GROUNDWATER								
4941	METERED	GOOD	MONTHLY	12	365	0.3904	0.3904	APRIL		NOVEMBER						54
0.0910	0.2186	0.4881	0.7323	0.7145	0.4213	0.5540	0.4077	0.5788	0.2635	0.0782						0.1279
ADL 39936	SEWARD, CITY OF			127408		600610.9	1492709.3 W	SEWARD	1S	1W	9	NW	SE	24	29	
FT. RAYMOND WELL #4 / CITY OF SEWARD				CERTIFICATE ISSUED		12	WITHDRAWAL 04	GROUNDWATER								
4941	METERED	GOOD	MONTHLY	12	30	0.0913	0.0075	APRIL								54
0.0000	0.0000	0.0000	0.0913	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
ADL 39936	SEWARD, CITY OF			127408		600058.6	1492708.5 W	SEWARD	2S	1W	9	NW	SE	24	28	
FT. RAYMOND #1 / CITY OF SEWARD				CERTIFICATE ISSUED		12	WITHDRAWAL 06	GROUNDWATER								
4941	METERED	GOOD	MONTHLY	12	334	0.2520	0.2306	APRIL		DECEMBER						54
0.4003	0.1429	0.3300	0.6141	0.5526	0.1165	0.3041	0.1127	0.1845	0.0000	0.0008						0.0001
ADL 40315	SOLDOTNA, CITY OF			127502		602947.8	1510414.8 W	SEWARD	5N	10W	29	SE	NW	42	46	
WELL 'B' / CITY OF SOLDOTNA				CERTIFICATE ISSUED		12	WITHDRAWAL 01	GROUNDWATER								
4941	METERED	GOOD	MONTHLY	12	212	0.3669	0.2131	JANUARY		MAY						53
0.4282	0.4113	0.4136	0.3404	0.2612	0.3491	0.3675	0.0000	0.0000	0.0000	0.0000						0.0000
ADL 42514	UNION CHEMICALS DIV. UNOCAL CO.			125261		604030.5	1512013.9 W	SEWARD	7N	12W	26	NE	NW	50	75	
WELLS #7, 15, & 16 / UNOCAL				CERTIFICATE ISSUED		12	WITHDRAWAL 01	GROUNDWATER								
2873	METERED	GOOD	MONTHLY	12	365	1.1496	1.1496	JULY		DECEMBER						53
1.0992	1.1210	1.1700	1.2110	1.2592	1.2403	1.2787	1.1567	1.1341	1.0986	1.0187						1.0054
ADL 42595	KING COVE, CITY OF			126307		550339.2	1621910.1 W	SEWARD	59S	86W	22	NE	NW	72	63	
RAM CREEK / CITY OF KING COVE				CERTIFICATE ISSUED		12	WITHDRAWAL 01	SURFACE WATER								
4941	METERED	GOOD	MONTHLY	12	365	0.3061	0.3061	JULY		SEPTEMBER						43
0.2713	0.2529	0.2715	0.2847	0.2871	0.4456	0.5383	0.3813	0.2315	0.2379	0.2318						0.2330

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FILE	FACILITY NAME	IDENT.	STATUS DESCRIPTION	CODE	LATITUDE	LONGITUDE	WITHCODE	SEQ	WITHTYPE	MERIDIAN	TOWN	RNGE	SEC	QQ	Q	CW	CN
SOURCE / DESTINATION	RECORDS	ACCURACY	PERIOD	DAYS	DAILY AVG	YEARLY AVG	MONTH	MAX.	MONTH	MIN.	MONTH	HYD	NOVEMBER	DECEMBER			
JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER						
ADL 42906	TESORO-ALASKAN PETROLEUM COMPANY	127684	604111.3	151213.4	W	SEWARD	7N	12W	22	SE	NW	60	58				
WELL#1 / TESORO-ALASKA PETROLEUM COMPANY	CERTIFICATE ISSUED	12	WITHDRAWAL	01													
2911	METERED	GOOD	MONTHLY	12	0.0086	0.0086	0.0086	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
ADL 42906	TESORO-ALASKAN PETROLEUM COMPANY	127684	604111.3	1512152.2	W	SEWARD	7N	12W	22	SE	NW	44	58				
WELL#2 / TESORO-ALASKA PETROLEUM COMPANY	CERTIFICATE ISSUED	12	WITHDRAWAL	02													
2911	METERED	GOOD	MONTHLY	12	0.3978	0.3967	0.3967	0.4923	0.4100	0.3286	0.3446	53					
0.3324	0.3050	0.3526	0.4423	0.3886	0.4573	0.4640	0.4240										
ADL 42993	NOME, CITY OF	126821	643308.9	1652420.7	W	KATEEL	11S	34W	11	SE	NE	18	53				
MOONLIGHT SPRINGS / CITY OF	PERMIT ISSUED	12	WITHDRAWAL	01													
4941	METERED	GOOD	MONTHLY	12	0.4384	0.4384	0.4384	0.4060	0.4167	0.4295	0.4232	22					
0.4363	0.4471	0.4595	0.4595	0.4470	0.4378	0.4627	0.4258										
ADL 43117	INDIAN COVE WATER COMPANY	126102	582243.3	1344201.5	W	COPPER RIVER	40S	65E	28	NW	NW	78	73				
142'WELL-DESTINATIONS, LOCATIONS UNKNOWN	CERTIFICATE ISSUED	12	WITHDRAWAL	01													
4941	METERED	POOR	MONTHLY	12	0.0079	0.0076	0.0076	0.0007	0.0007	0.0007	0.0007	62					
0.0007	0.0009	0.0009	0.0009	0.0009	0.0009	0.0008	0.0007										
ADL 43340	YAKUTAT, CITY OF	128153	593306.8	1394413.3	W	COPPER RIVER	27S	33E	25	NE	NE	15	67				
MAIN WELL, A. 325' / CITY OF YAKUTAT	CERTIFICATE ISSUED	12	WITHDRAWAL	01													
4941	METERED	FAIR	MONTHLY	12	0.0448	0.0448	0.0448	0.0021	0.0012	0.0012	0.0323	61					
0.0861	0.0734	0.1044	0.1583	0.0008	0.0041	0.0015	0.0743										
ADL 44121	SAXMAN, CITY OF	127363	551925.9	1313540.8	W	COPPER RIVER	75S	91E	33	SE	NW	57	43				
SAXMAN CREEK / CITY OF SAXMAN	PERMIT ISSUED	12	WITHDRAWAL	01													
4941	METERED	GOOD	MONTHLY	12	0.0394	0.0392	0.0392	0.0407	0.0625	0.0434	0.0526	64					
0.0456	0.0306	0.0367	0.0334	0.0237	0.0178	0.0295	0.0595										
ADL 44197	ANCHORAGE, MUN. (AWWU)	167803	611926.5	1493333.9	W	SEWARD	14N	2W	12	NW	NW	61	71				
EAGLE RIVER #7 / SUNNYSLOPE	CERTIFICATE ISSUED	12	WITHDRAWAL	01													
4941	METERED	GOOD	MONTHLY	12	0.0718	0.0478	0.0478	0.0000	0.0000	0.0000	0.0000	53					
0.0802	0.0797	0.0874	0.0923	0.0634	0.0669	0.0717	0.0339										
ADL 44439	JUNEAU, CITY & BOROUGH OF	126204	581826.2	1342348.6	W	COPPER RIVER	41S	67E	23	NE	NE	3	78				
GOLD CREEK BASIN / CITY OF JUNEAU	CERTIFICATE ISSUED	12	WITHDRAWAL	01													
4941	METERED	GOOD	MONTHLY	12	1.6342	1.6342	1.6342	2.1657	1.1659	1.1717	1.1765	62					
2.4532	1.1648	1.4220	0.7279	1.3611	1.5542	2.7872	2.3852										
ADL 44626	ANCHORAGE, MUN. (AWWU)	167803	611314.7	1495132.1	W	SEWARD	13N	3W	17	SW	NW	62	59				
WELL #3, 3RD AVENUE / ANCHORAGE	CERTIFICATE ISSUED	12	WITHDRAWAL	03													
4941	METERED	GOOD	MONTHLY	12	0.1453	0.1329	0.1329	0.0218	0.0000	0.0226	0.1112	53					
0.1406	0.1132	0.1973	0.3364	0.3817	0.1764	0.0757	0.0175										

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SOURCE / DESTINATION	STATUS DESCRIPTION	CODE	WITHCODE	SEQ	WITHTYPE	NWUDS						
SIC	RECORDS	ACCURACY	PERIOD	MONTHS	DAYS	DAILY AVG	YEARLY AVG	MAX. MONTH	MIN. MONTH	HYD		
JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
ADL 44626	ANCHORAGE, MUN. (AWWU)	167803	611330.1	1494931.0 W	SEWARD	13N	3W	9	SE	SW	52	3
WELL #4, COMMERCIAL DR. / ANCHORAGE	CERTIFICATE ISSUED	12	0.2074	0.1897	GROUNDWATER							
4941	METERED GOOD MONTHLY	12	334	0.1726	0.1333	0.0948	0.1182	0.0000	0.0471	0.0368		
0.2156	0.1396	0.2628	0.3938	0.6566	0.1726	0.1333	0.0948	0.1182	0.0000	0.0471	0.0368	
ADL 44944	U.S. DEPARTMENT OF ENERGY, A.P.A.	173270	612945.1	1490727.8 W	SEWARD	16N	2E	8	NE	NE	14	63
EKLUTNA LAKE / POWERPLANT TAILRACE	CERTIFICATE ISSUED	12	207.7558	207.7558	SURFACE WATER							
4912	CALCULATED GOOD MONTHLY	12	365	0.2499	136.0577	183.4539	227.5490	256.2150	210.5960	278.8772		
248.6844	243.8480	281.0225	215.6381	208.6821	0.2499	136.0577	183.4539	227.5490	256.2150	210.5960	278.8772	
ADL 45127	ANCHORAGE, MUN. (AWWU)	167803	610633.7	1495015.8 W	SEWARD	12N	3W	20	SW	SE	17	2
WELL #44 / BROOKWOOD #1, ANCHORAGE	CLOSED	44	0.0191	0.0159	GROUNDWATER							
4941	METERED GOOD MONTHLY	12	304	0.0212	0.0211	0.0199	0.0170	0.0166	0.0000	0.0000		
0.0203	0.0218	0.0138	0.0174	0.0222	0.0212	0.0211	0.0199	0.0170	0.0166	0.0000	0.0000	
ADL 45420	ANCHORAGE, MUN. (AWWU)	167803	610913.4	1495145.4 W	SEWARD	12N	3W	6	SE	SE	3	8
WELL #34 / HOLLOWBROOK, ANCHORAGE	CERTIFICATE ISSUED	12	0.3952	0.3952	GROUNDWATER							
4941	METERED GOOD MONTHLY	12	365	0.2679	0.2306	0.3904	0.3285	0.4253	0.5833	0.5743		
0.4686	0.5193	0.3870	0.2590	0.3150	0.2679	0.2306	0.3904	0.3285	0.4253	0.5833	0.5743	
ADL 46054	DILLINGHAM, CITY	125481	590229.5	1582718.4 W	SEWARD	13S	5SW	21	NW	NE	28	70
WELLS 1 & 2 / CITY OF DILLINGHAM	CERTIFICATE ISSUED	12	0.0925	0.0925	GROUNDWATER							
4941	METERED GOOD MONTHLY	12	365	0.1170	0.1116	0.0965	0.0943	0.1008	0.0806	0.0965		
0.0703	0.0786	0.0774	0.0892	0.0958	0.1170	0.1116	0.0965	0.0943	0.1008	0.0806	0.0965	
ADL 46360	VALDEZ, CITY OF	127957	610807.9	1462141.6 W	COPPER RIVER	8S	6W	31	SE	NE	17	61
HANAGITA WELL #1 / CITY OF VALDEZ	PERMIT ISSUED	11	0.4390	0.1708	GROUNDWATER							
4941	METERED GOOD MONTHLY	12	142	0.0000	0.3299	0.4491	0.5207	0.0001	0.0000	0.0000		
0.0000	0.0000	0.0000	0.4621	0.5382	0.0000	0.3299	0.4491	0.5207	0.0001	0.0000	0.0000	
ADL 46360	VALDEZ, CITY OF	127957	610807.9	1462141.6 W	COPPER RIVER	8S	6W	31	SE	NE	17	61
HANAGITA WELL #3 / CITY OF VALDEZ	PERMIT ISSUED	11	0.6972	0.6857	GROUNDWATER							
4941	METERED GOOD MONTHLY	12	359	0.9098	0.9731	0.9109	0.3065	0.7097	0.7484	0.7833		
0.7700	0.7270	0.7381	0.6878	0.2006	0.9098	0.9731	0.9109	0.3065	0.7097	0.7484	0.7833	
ADL 46364	SCAMMON BAY, CITY OF	127365	615026	1653454.4 W	SEWARD	20N	90W	10	SE	NW	52	53
HILL STREAM / CITY OF SCAMMON BAY	CERTIFICATE ISSUED	12	0.0005	0.0005	SURFACE WATER							
4941	METERED POOR MONTHLY	12	365	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005		
0.0004	0.0005	0.0004	0.0004	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	
ADL 48794	KETCHIKAN, CITY OF	126297	552136.1	1313707.3 W	COPPER RIVER	75S	91E	17	SE	SW	52	3
KETCHIKAN LAKE DAM SITE / KETCHIKAN	CERTIFICATE ISSUED	12	3.2893	3.2893	SURFACE WATER							
4941	METERED GOOD MONTHLY	12	365	3.1204	3.4513	3.4996	3.2941	3.0483	3.6143	4.0950		
3.1819	3.1598	3.3200	2.9707	2.6988	3.1204	3.4513	3.4996	3.2941	3.0483	3.6143	4.0950	

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SOURCE / DESTINATION	STATUS DESCRIPTION			CODE	WITHCODE	SEQ	WITHTYPE	NWUDS						
SIC	RECORDS	ACCURACY	PERIOD	MONTHS	DAYS	DAILY AVG	YEARLY AVG	MAX. MONTH	MIN. MONTH					HYD
JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER			
ADL 48795	KETCHIKAN, CITY OF			126297	552210.6	1314123.2 W	COPPER RIVER 75S	90E 14 SW NE 38 56						
CARLANNA LAKE DAM SITE / KETCHIKAN				CERTIFICATE ISSUED	12	WITHDRAWAL 01	SURFACE WATER	WATER SUPPLIER						
4941	METERED	GOOD	MONTHLY	12	319	1.3424	1.1732	AUGUST	OCTOBER					64
1.3968	1.3378	1.3621	1.4075	1.2071	1.5312	1.4443	1.5583	1.2279	1.0788	1.1686	0.0000			
ADL 50906	ANCHORAGE, MUN. (AWWU)			167803	611305.6	1494500.1 W	SEWARD	13N	3W 14 SE NE 11 45					
WELL #20, CREEKSIDE PARK / ANCHORAGE				CERTIFICATE ISSUED	12	WITHDRAWAL 01	GROUNDWATER	WATER SUPPLIER						
4941	METERED	GOOD	MONTHLY	12	334	0.1378	0.1261	APRIL	SEPTEMBER					53
0.2386	0.2097	0.2309	0.2723	0.1279	0.0518	0.1622	0.0771	0.0454	0.0000	0.0570	0.0460			
ADL 50907	ANCHORAGE, MUN. (AWWU)			167803	610834.6	1495549.8 W	SEWARD	12N	4W 11 NW SE 30 28					
WELL #40 / DIMOND HIGH SCHOOL, ANCHORAGE				CERTIFICATE ISSUED	12	WITHDRAWAL 01	GROUNDWATER	WATER SUPPLIER						
4941	METERED	GOOD	MONTHLY	12	337	0.4422	0.4083	MAY	MARCH					53
0.1036	0.0000	0.0183	0.5678	0.6568	0.5942	0.5490	0.5374	0.4734	0.4893	0.4255	0.4581			
ADL 50908	ANCHORAGE, MUN. (AWWU)			167803	610745.1	1495618.0 W	SEWARD	12N	4W 14 NE SW 51 32					
WELL #37 / CAMPBELL LAKE, ANCHORAGE				CERTIFICATE ISSUED	12	WITHDRAWAL 01	GROUNDWATER	WATER SUPPLIER						
4941	METERED	GOOD	MONTHLY	12	276	0.2145	0.1622	DECEMBER	JANUARY					53
0.0201	0.0000	0.0000	0.0000	0.0788	0.2574	0.2480	0.2497	0.2170	0.2708	0.2901	0.3020			
ADL 50909	ANCHORAGE, MUN. (AWWU)			167803	611027.4	1495017.2 W	SEWARD	13N	3W 32 SE NE 7 42					
WELL #27, HOMESTEAD ACRES / ANCHORAGE				CERTIFICATE ISSUED	12	WITHDRAWAL 01	GROUNDWATER	WATER SUPPLIER						
4941	METERED	GOOD	MONTHLY	12	365	0.0156	0.0156	JANUARY	MARCH					53
0.0773	0.0376	0.0004	0.0033	0.0066	0.0090	0.0088	0.0091	0.0093	0.0099	0.0088	0.0087			
ADL 50920	ANCHORAGE, MUN. (AWWU)			167803	611225.1	1494527.0 W	SEWARD	13N	3W 23 NW NE 31 63					
WELL #22, SHADY LANE / ANCHORAGE				CLOSED	44	WITHDRAWAL 01	GROUNDWATER	WATER SUPPLIER						
4941	METERED	GOOD	MONTHLY	12	31	0.0547	0.0046	JULY						53
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0547	0.0000	0.0000	0.0000	0.0000	0.0000			
ADL 50923	ANCHORAGE, MUN. (AWWU)			167803	610610.4	1495045.1 W	SEWARD	12N	3W 29 NW SE 39 46					
WELL #32 / STATE MANOR, ANCHORAGE				CLOSED	44	WITHDRAWAL 01	GROUNDWATER	WATER SUPPLIER						
4941	METERED	GOOD	MONTHLY	12	365	0.2991	0.2991	JANUARY	DECEMBER					53
0.4089	0.4055	0.3924	0.3927	0.4000	0.3806	0.3339	0.3033	0.2896	0.2881	0.0003	0.0003			
ADL 50924	ANCHORAGE, MUN. (AWWU)			167803	610924.5	1495719.0 W	SEWARD	12N	4W 3 NE SE 16 25					
WELL #41 / TOWN & COUNTRY, ANCHORAGE				CERTIFICATE ISSUED	12	WITHDRAWAL 01	GROUNDWATER	WATER SUPPLIER						
4941	METERED	GOOD	MONTHLY	12	365	0.1303	0.1303	MARCH	SEPTEMBER					53
0.2009	0.2222	0.2324	0.1051	0.1544	0.1458	0.1598	0.0798	0.0024	0.0801	0.0957	0.0883			
ADL 50926	ANCHORAGE, MUN. (AWWU)			167803	611041.7	1495029.3 W	SEWARD	13N	3W 32 NE NE 16 64					
WELL #26, WICKERSHAM PARK / ANCHORAGE				CERTIFICATE ISSUED	12	WITHDRAWAL 01	GROUNDWATER	WATER SUPPLIER						
4941	METERED	GOOD	MONTHLY	12	365	0.0312	0.0312	MARCH	AUGUST					53
0.0362	0.0735	0.1076	0.0034	0.0202	0.0198	0.0190	0.0180	0.0198	0.0197	0.0197	0.0198			

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SOURCE / DESTINATION	STATUS DESCRIPTION			CODE	WITHCODE	SEQ	WITHTYPE	NWUDS						
SIC	RECORDS	ACCURACY	PERIOD	MONTHS	DAYS	DAILY AVG	YEARLY AVG	MAX. MONTH	MIN. MONTH		HYD			
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
ADL 50927 ANCHORAGE, MUN. (AWWU)														
WELL #42 / WINDEMERE, ANCHORAGE														
4941 METERED GOOD MONTHLY														
0.5842 0.5831 0.5760 0.5537 0.5500 0.4883 0.5086 0.4706														
ADL 51543 SITKA, CITY & BOROUGH OF														
BLUE LAKE DAM / CITY OF SITKA														
4941 METERED FAIR MONTHLY														
4.0941 4.0488 4.4279 3.8911 3.8798 4.0741 4.0438 4.0715														
ADL 51573 ANCHORAGE, MUN. (AWWU)														
E.R.#4 / EAGLE RIVER HEIGHTS NORTH														
4941 METERED GOOD MONTHLY														
0.0308 0.0323 0.0123 0.0319 0.0005 0.0003 0.0000 0.0222														
ADL 52342 SOLDOTNA, CITY OF														
WELL 'A' / CITY OF SOLDOTNA														
4941 METERED GOOD MONTHLY														
0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0063 0.0271														
ADL 52514 ANCHORAGE, MUN. (AWWU)														
E.R.#5 / EAGLE RIVER HEIGHTS														
4941 METERED GOOD MONTHLY														
0.0082 0.0101 0.0087 0.0103 0.0123 0.0121 0.0118 0.0098														
ADL 53282 KENAI, CITY OF														
WELL #1 / CITY OF KENAI														
4941 METERED GOOD MONTHLY														
0.2910 0.2740 0.2830 0.3110 0.2250 0.2170 0.2210 0.2360														
ADL 53282 KENAI, CITY OF														
WELL #2 / CITY OF KENAI														
4941 METERED GOOD MONTHLY														
0.4200 0.4850 0.5460 0.6750 0.6490 0.5580 0.5510 0.4750 0.4590 0.4650 0.4910														
ADL 53292 DIV. ADMIN. CONTR. & FAC. OFFICE, DFG														
SHIP CREEK / FT. RICHARDSON HATCHERY														
921 METERED FAIR MONTHLY														
5.1850 5.1840 5.1840 5.1270 5.1270 5.1270 5.1837 5.1837														
ADL 53813 FAIRBANKS MUNICIPAL UTILITY SYSTEM														
WELL 2A / CITY OF FAIRBANKS														
4941 METERED GOOD MONTHLY														
0.0000 0.0000 0.0000 0.0000 0.0105 0.0000 0.1515 0.0000 0.0000 0.0052 0.0054 0.0000														

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SOURCE / DESTINATION				STATUS DESCRIPTION		CODE	WITHCODE	SEQ	WITHTYPE	NWUDS				
SIC	RECORDS	ACCURACY	PERIOD	MONTHS	DAYS	DAILY AVG	YEARLY AVG		MAX. MONTH	MIN. MONTH				HYD
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
ADL 53813	FAIRBANKS MUNICIPAL UTILITY SYSTEM			114790		645051.8	1474355.3 W		FAIRBANKS	15	1W	10	NE	NW 56 71
WELL 3A / CITY OF FAIRBANKS				CERTIFICATE ISSUED		12	WITHDRAWAL 03		GROUNDWATER		WATER SUPPLIER			
4941	METERED	GOOD	MONTHLY	12	365	2.4388	2.4388		AUGUST		JULY			34
	2.4480	2.4480	2.4480	2.4480	2.4480	2.4283	2.4480	2.3592	2.4480	2.4480	2.4480		2.4480	
ADL 54850	ANCHORAGE, MUN. (AWWU)			167803		611030.7	1494315.1 W		SEWARD	13N	3W	36	SE	NE 13 47
WELL #10A, CHUGACH FOOTHILLS / ANCHORAGE				CERTIFICATE ISSUED		12	WITHDRAWAL 01		GROUNDWATER		WATER SUPPLIER			
4941	METERED	GOOD	MONTHLY	12	365	1.0852	1.0852		JANUARY		SEPTEMBER			53
	1.4961	1.2961	1.4753	1.1803	1.3619	1.0457	0.8885	0.6220	0.5932	0.7222	1.3034		1.0511	
ADL 54850	ANCHORAGE, MUN. (AWWU)			167803		611030.7	1494315.1 W		SEWARD	13N	3W	36	SE	NE 13 47
WELL #11B, CHUGACH FOOTHILLS / ANCHORAGE				CERTIFICATE ISSUED		12	WITHDRAWAL 02		GROUNDWATER		WATER SUPPLIER			
4941	METERED	GOOD	MONTHLY	12	365	0.7626	0.7626		JULY		OCTOBER			53
	0.7874	0.6496	0.7023	0.9479	0.6940	0.9479	1.1803	0.9943	0.6259	0.2668	0.6983		0.6508	
ADL 57850	HOMER, CITY			126046		594040.3	1513413.3 W		SEWARD	6S	13W	7	NE	NE 78 74
BRIDGE CREEK DAM / CITY OF HOMER				CERTIFICATE ISSUED		12	WITHDRAWAL 01		SURFACE WATER		WATER SUPPLIER			
4941	METERED	GOOD	MONTHLY	12	365	0.4229	0.4229		AUGUST		DECEMBER			53
	0.3712	0.3144	0.4192	0.4918	0.3813	0.4408	0.5481	0.5545	0.4928	0.3970	0.3599		0.3113	
ADL 62222	ANCHORAGE, MUN. (AWWU)			167803		611117.6	1494242.9 W		SEWARD	13N	2W	30	NW	SW 69 39
WELL #25, MILITARY #1 / ANCHORAGE				CERTIFICATE ISSUED		12	WITHDRAWAL 01		GROUNDWATER		WATER SUPPLIER			
4941	METERED	GOOD	MONTHLY	12	365	0.5158	0.5158		DECEMBER		NOVEMBER			53
	0.4789	0.5609	0.5667	0.5304	0.5656	0.5089	0.4760	0.4790	0.4866	0.5343	0.4231		0.5795	
ADL 62233	LAGEN, WM. S., DBA TRIDENT SEAFOODS CORP.			114842		540815.2	1654748.4 W		SEWARD	70S	112W	10	NE	NE 9 74
UNAMED STREAM / TRIDENT SEAFOODS CORP.				PERMIT ISSUED		11	WITHDRAWAL 01		SURFACE WATER		COMMERCIAL			
2091	METERED	GOOD	MONTHLY	11	334	0.1457			JULY		JANUARY			43
	0.0929	0.1221	0.0939	0.0945		0.1596	0.1926	0.1774	0.1812	0.1768	0.1705		0.1455	
ADL 62346	CRAIG, CITY			125358		552813.7	1330739.1 W		COPPER RIVER	74S	81E	8	SE	NE 24 54
SUNNAHAE MT. SPRING / CITY OF CRAIG				CERTIFICATE ISSUED		12	WITHDRAWAL 01		SURFACE WATER		WATER SUPPLIER			
4941	METERED	FAIR	MONTHLY	12	365	0.2076	0.2076		AUGUST		OCTOBER			67
	0.1981	0.1910	0.2290	0.1963	0.2049	0.2091	0.2302	0.2322	0.1986	0.1789	0.1976		0.2232	
ADL 63855	ANCHORAGE, MUN. (AWWU)			167803		610851.5	1494818.2 W		SEWARD	12N	3W	9	SE	NE 9 54
WELL 28A, WINCHESTER HEIGHTS / ANCHORAGE				PERMIT ISSUED		11	WITHDRAWAL 01		GROUNDWATER		WATER SUPPLIER			
4941	METERED	GOOD	MONTHLY	12	365	0.0287	0.0287		DECEMBER		APRIL			53
	0.0401	0.0405	0.0169	0.0051	0.0209	0.0254	0.0335	0.0323	0.0300	0.0344	0.0252		0.0478	
ADL 64153	ALYESKA PIPELINE SERVICE COMPANY			124668		685026.5	1484934.4 W		UMIAT	7S	14E	16	NW	NW 77 66
WELL / PUMP STATION#3				CERTIFICATE ISSUED		12	WITHDRAWAL 01		GROUNDWATER		INDUSTRIAL			
4612	METERED	GOOD	MONTHLY	12	365	0.0048	0.0048		DECEMBER		JANUARY			11
	0.0034	0.0045	0.0052	0.0050	0.0047	0.0051	0.0052	0.0055	0.0044	0.0052	0.0044		0.0055	

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SOURCE / DESTINATION	STATUS DESCRIPTION			CODE	WITHCODE	SEQ	WITHTYPE	NWUOS						
SIC	RECORDS	ACCURACY	PERIOD	MONTHS	DAYS	DAILY AVG	YEARLY AVG	MAX. MONTH	MIN. MONTH		HYD			
JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER			
ADL 65644	ANCHORAGE, MUN. (AWWU)			167803	610840.5	1495331.6 W	SEWARD	12N	4W	12	NE	SE	7	37
WELL #36 / QUEENSGATE, ANCHORAGE	CERTIFICATE ISSUED			12	365	0.1098	0.1098	GROUNDWATER	JANUARY		WATER SUPPLIER			
4941	METERED	GOOD	MONTHLY	12	365	0.1098	0.1098	GROUNDWATER	JANUARY		NOVEMBER			
0.1460	0.1324	0.1430	0.1432	0.1405	0.1134	0.1222	0.0870	0.0756	0.0772	0.0664	0.0700			
ADL 65787	ANCHORAGE, MUN. (AWWU)			167803	611108.6	1495228.1 W	SEWARD	13N	3W	30	NW	SE	24	25
WELL #7, 40TH AVE & DENALI / ANCHORAGE	CERTIFICATE ISSUED			12	334	0.1925	0.1761	GROUNDWATER	JULY		WATER SUPPLIER			
4941	METERED	GOOD	MONTHLY	12	334	0.1925	0.1761	GROUNDWATER	JULY		SEPTEMBER			
0.2381	0.3534	0.1494	0.2211	0.2883	0.1729	0.3760	0.0666	0.0572	0.0000	0.0775	0.1243			
ADL 66117	SOMIO			124848	701720.3	1484249.0 W	UMIAT	11N	13E	24	SW	SE	24	17
BIG LAKE / SOMIO	CERTIFICATE ISSUED			12	365	0.0578	0.0578	SURFACE WATER	AUGUST		INDUSTRIAL			
1311	METERED	GOOD	MONTHLY	12	365	0.0578	0.0578	SURFACE WATER	AUGUST		MAY			
0.0562	0.0562	0.0562	0.0534	0.0534	0.0534	0.0609	0.0609	0.0609	0.0608	0.0608	0.0608			
ADL 67201	ANCHORAGE, MUN. (AWWU)			167803	611344.5	1494303.0 W	SEWARD	13N	3W	12	NE	SE	4	25
WELL #9, CENTENNIAL PARK / ANCHORAGE	CERTIFICATE ISSUED			12	334	0.1533	0.1402	GROUNDWATER	MAY		WATER SUPPLIER			
4941	METERED	GOOD	MONTHLY	12	334	0.1533	0.1402	GROUNDWATER	MAY		DECEMBER			
0.1115	0.1123	0.1007	0.1182	0.5808	0.1565	0.2057	0.1281	0.0875	0.0000	0.0631	0.0117			
ADL 73658	ANCHORAGE, MUN. (AWWU)			167803	610554.8	1494926.3 W	SEWARD	12N	3W	28	NE	SW	60	22
WELL #30 / TURNAGAIN VIEW, ANCHORAGE	CLOSED			12	273	0.0742	0.0555	GROUNDWATER	MARCH		WATER SUPPLIER			
4941	METERED	GOOD	MONTHLY	12	273	0.0742	0.0555	GROUNDWATER	MARCH		JULY			
0.0671	0.0901	0.1590	0.1481	0.0719	0.0336	0.0303	0.0492	0.0195	0.0000	0.0000	0.0000			
ADL 74176	NORTH WOODS, INC.			115001	612509.6	1492736.1 W	SEWARD	15N	1W	4	NW	SE	33	39
340' WELL / NORTH WOODS SUBDIVISION	PERMIT ISSUED			12	367	0.0376	0.0378	GROUNDWATER	JANUARY		WATER SUPPLIER			
4941	METERED	GOOD	MONTHLY	12	367	0.0376	0.0378	GROUNDWATER	JANUARY		OCTOBER			
0.0483	0.0333	0.0362	0.0362	0.0410	0.0410	0.0313	0.0471	0.0335	0.0298	0.0362	0.0331			
ADL 74699	SETTLERS BAY PROPERTIES, INC.			127403	613104.5	1493656.3 W	SEWARD	17N	2W	34	NE	SW	44	25
WELL #223179 / CONDOS	PERMIT ISSUED			10	292	0.0002	0.0002	GROUNDWATER	JUNE		WATER SUPPLIER			
4941	METERED	GOOD	MONTHLY	10	292	0.0002	0.0002	GROUNDWATER	JUNE		JUNE			
0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001					
ADL 74700	SETTLERS BAY PROPERTIES, INC.			127403	613023.3	1493644.9 W	SEWARD	16N	2W	3	SE	NW	41	42
WELL #1, #221834/RESIDENCES & GOLF COURSE	PERMIT ISSUED			10	291	0.0043	0.0067	GROUNDWATER	JUNE		WATER SUPPLIER			
4941	METERED	GOOD	MONTHLY	10	291	0.0043	0.0067	GROUNDWATER	JUNE		JUNE			
0.0031	0.0034	0.0041	0.0034	0.0045	0.0075	0.0067	0.0037	0.0034	0.0033					
ADL 74700	SETTLERS BAY PROPERTIES, INC.			127403	613115.5	1493652.2 W	SEWARD	17N	2W	34	NE	SW	41	42
WELL #1, #221834 / GOLF COURSE ONLY	PERMIT ISSUED			12	80	0.0043	0.0009	GROUNDWATER	JUNE		RECREATION			
7992	METERED	GOOD	MONTHLY	12	80	0.0043	0.0009	GROUNDWATER	JUNE		AUGUST			
0.0000	0.0000	0.0000	0.0000	0.0044	0.0062	0.0033	0.0034	0.0035	0.0000	0.0000	0.0000			

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SIC	RECORDS	ACCURACY	PERIOD	MONTHS	DAYS	DAILY AVG	YEARLY AVG	MAX. MONTH	MIN. MONTH					
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	HYD	
ADL 75891 CHEFORNAK, CITY OF						125164	600934.5	1641617.2 W	SEWARD	1N	86W	19 SE SE	12 21	
119' WELL / CITY OF CHEFORNAK				CERTIFICATE	ISSUED	12		WITHDRAWAL 01	GROUNDWATER			WATER SUPPLIER		
4941 METERED FAIR MONTHLY				3	57	0.0003							41	
0.0003 0.0003 0.0005														
ADL 75895 ELIM, CITY						125579	645551	1610948.5 W	KATEEL	6S	12W	31 NE NE	11 70	
CITY OF ELIM				CERTIFICATE	ISSUED	12		WITHDRAWAL 01	GROUNDWATER			WATER SUPPLIER		
4941 METERED FAIR MONTHLY				12	365	0.0215	0.0215	0.0215	OCTOBER			APRIL	22	
0.0178 0.0182 0.0184				0.0185	0.0213	0.0200	0.0174	0.0253	0.0248	0.0255	0.0263	0.0255		
ADL 75901 SHISHMAREF, CITY OF						127428	661516.1	1660336.4 W	KATEEL	10N	35W	24 SW NW	76 47	
CITY WELL / CITY OF SHISHMAREF				CERTIFICATE	ISSUED	12		WITHDRAWAL 01	GROUNDWATER			WATER SUPPLIER		
4941 METERED FAIR MONTHLY				8	212	0.0017							21	
0.0008 0.0008 0.0005				0.0079	0.0001	0.0000					0.0005	0.0010		
ADL 75901 SHISHMAREF, CITY OF						127428	661516.1	1660336.4 W	KATEEL	10N	35W	24 SW NW	76 47	
CITY WELL / WASHETERIA				CERTIFICATE	ISSUED	12		WITHDRAWAL 02	GROUNDWATER			WATER SUPPLIER		
4941 METERED FAIR MONTHLY				12	365	0.0025	0.0025	0.0025	SEPTEMBER			MAY	21	
0.0018 0.0019 0.0017				0.0047	0.0013	0.0016	0.0028	0.0026	0.0049	0.0021	0.0021	0.0029		
ADL 75901 SHISHMAREF, CITY OF						127428	661516.1	1660336.4 W	KATEEL	10N	35W	24 SW NW	76 47	
PUBLIC SELF-SERVICE WELL / SHISHMAREF				CERTIFICATE	ISSUED	12		WITHDRAWAL 03	GROUNDWATER			WATER SUPPLIER		
4941 METERED FAIR MONTHLY				12	365	0.0014	0.0014	0.0014	SEPTEMBER			MAY	21	
0.0003 0.0003 0.0003				0.0029	0.0002	0.0003	0.0009	0.0008	0.0091	0.0005	0.0005	0.0010		
ADL 75902 NOORVIK, CITY OF						126822	665001.8	1610213.9 W	KATEEL	17N	11W	34 NW NE	17 59	
KOBUK RIVER / CITY OF NOORVIK				CERTIFICATE	ISSUED	12		WITHDRAWAL 01	SURFACE WATER			WATER SUPPLIER		
4941 ESTIMATED FAIR MONTHLY				12	365	0.0059	0.0059	0.0059	JUNE			DECEMBER	21	
0.0062 0.0062 0.0055				0.0062	0.0057	0.0064	0.0050	0.0060	0.0061	0.0063	0.0058	0.0046		
ADL 75908 GRAYLING, CITY OF						125869	625435.6	1600459.8 W	SEWARD	33N	57W	34 NW SE	72 57	
29' WELL / LOOP #1, GRAYLING INFILTR				SYS APPLICATION	ACCEPTED	10		WITHDRAWAL 01	SURFACE WATER			WATER SUPPLIER		
4941 METERED FAIR MONTHLY				8	365	0.0140							36	
0.0298 0.0251 0.0246				0.0107	0.0120	0.0214	0.0174	0.0188	0.0023	0.0023	0.0023	0.0023		
ADL 75908 GRAYLING, CITY OF						125869	625436.9	1600459.9 W	SEWARD	33N	57W	34 NW SE	72 59	
29' WELL / LOOP #2, GRAYLING INFILTR				SYS APPLICATION	ACCEPTED	10		WITHDRAWAL 02	SURFACE WATER			WATER SUPPLIER		
4941 METERED FAIR MONTHLY				8	365	0.0083							36	
0.0023 0.0023 0.0034				0.0167	0.0181	0.0048	0.0130	0.0066	0.0081	0.0081	0.0081	0.0081		
ADL 75979 SOMIO						107377	701954.5	1485708.5 W	UMIAT	11N	13E	6 SW SW	70 15	
KUPARUK RIVER / RESERVOIR				CERTIFICATE	ISSUED	12		WITHDRAWAL 01	SURFACE WATER			INDUSTRIAL		
1311 METERED GOOD MONTHLY				12	365	0.0533	0.0533	0.0533	MAY			NOVEMBER	11	
0.0338 0.0338 0.0338				0.0334	0.0334	0.0334	0.0617	0.0617	0.0617	0.0835	0.0835	0.0835		

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SIC	RECORDS	ACCURACY	PERIOD	MONTHS	DAYS	DAILY AVG	YEARLY AVG	MAX. MONTH	MIN. MONTH		MYD			
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
ADL 76070 SAINT MICHAEL, CITY														
CLEAR LAKE / MAIN WELL														
4941 METERED FAIR MONTHLY														
0.0021 0.0008 0.0003 0.0004 0.0004 0.0003 0.0002 0.0009														
ADL 76071 TATITLEK, VILLAGE OF														
PUMPHOUSE / VILLAGE OF TATITLEK														
4941 METERED GOOD MONTHLY														
0.0002 0.0002 0.0001 0.0002 0.0002 0.0002 0.0002 0.0001														
ADL 78075 UNION OIL COMPANY OF CA.														
WELLS #1 & 5 / UNOCAL														
2911 METERED GOOD MONTHLY														
0.6403 0.6874 0.6991 0.7588 0.7242 0.6745 0.5925 0.6707														
ADL 80511 DIV. ADM. CONTR. & FAC. OFC., DFG														
8 WELLS, 24-44' DEEP / FISH HATCHERY														
921 METERED FAIR MONTHLY														
1.7280 1.7280 1.7280 1.7090 1.7091 1.7091 1.4011 1.4011														
ADL 100007 SITKA, CITY & BOROUGH OF														
GREEN LAKES DAM / HYDROELECTRIC POWER														
4912 CALCULATED FAIR MONTHLY														
162.2143 143.4724 214.5623 189.3577 144.7649 157.6904 115.6827 145.4112														
ADL 100066 JUNEAU, CITY & BOROUGH OF														
WELL #3 / CITY OF JUNEAU														
4941 METERED GOOD MONTHLY														
0.1995 0.1194 0.3751 0.2714 0.1612 0.1034 0.1269 0.1262														
ADL 201324 PALMER, CITY OF														
WELLS 1, 2, & 3 / CITY OF PALMER														
4941 METERED GOOD MONTHLY														
0.6744 0.6573 0.6627 0.6478 0.4831 0.4455 0.4466 0.4389														
ADL 201555 ANCHORAGE, MUN. (AWWU)														
WELL #35A / ALAGCO, ANCHORAGE														
4941 METERED GOOD MONTHLY														
0.8563 0.9143 1.0319 0.7730 0.7213 0.7118 0.6014 0.5636														
ADL 201558 ALASKA POWER AUTHORITY														
TERROR RIVER DISCHARGE FLOWS - POWER GEN PERMIT ISSUED														
4912 METERED FAIR MONTHLY														
78.1660 78.1660 78.1660 78.8120 78.8120 78.8120 71.0600 71.0600														

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SOURCE / DESTINATION	STATUS DESCRIPTION			CODE	WITHCODE	SEQ	WITHTYPE	NWUDS						
SIC	RECORDS	ACCURACY	PERIOD	MONTHS	DAYS	DAILY AVG	YEARLY AVG	MAX. MONTH	MIN. MONTH		HYD			
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
ADL 201881	ANCHORAGE, MUN. (AWWU)			167803		611936.1	1493451.1 W	SEWARD	14N	2W	2	SW	SE	38 6
SHIP CREEK / EAGLE GLEN WEST, E.R.#1	PERMIT ISSUED			11		0.0141	0.0058	WITHDRAWAL 01	GROUNDWATER					
4941	METERED	GOOD	MONTHLY	12	151			APRIL						53
	0.0087	0.0085	0.0085	0.0435	0.0017	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
ADL 201920	ANCHORAGE, MUN. (AWWU)			167803		610822.3	1494703.8 W	SEWARD	12N	3W	10	SW	SE	34 9
WELL #29, SERVICE HANSEW H.S./ANCHORAGE	PERMIT ISSUED			11		0.0066	0.0066	WITHDRAWAL 01	GROUNDWATER					
4941	METERED	GOOD	MONTHLY	12	365			AUGUST						53
	0.0055	0.0063	0.0062	0.0066	0.0062	0.0066	0.0073	0.0080	0.0062	0.0067	0.0065	0.0064		
ADL 202909	HILLSIDE PARK HOMEOWNER'S ASSOCIATION			165707		610728.1	1494444.3 W	SEWARD	12N	3W	14	SE	SE	10 6
283' WELL / HILLSIDE PARK SUBDIVISION	CERTIFICATE ISSUED			12		0.0123	0.0124	WITHDRAWAL 01	GROUNDWATER					
4941	METERED	GOOD	MONTHLY	12	366			JULY						53
	0.0101	0.0112	0.0098	0.0126	0.0140	0.0136	0.0140	0.0135	0.0121	0.0116	0.0117	0.0128		
ADL 202997	ANCHORAGE, MUN. (AWWU)			167803		611103.4	1495255.0 W	SEWARD	13N	3W	30	SE	SW	44 17
WELL #12, 40TH AVE. & "B" STS./ANCHORAGE	PERMIT ISSUED			11		0.2158	0.2158	WITHDRAWAL 01	GROUNDWATER					
4941	METERED	GOOD	MONTHLY	12	365			JUNE						53
	0.2643	0.2176	0.5878	0.2803	0.2007	0.6434	0.1896	0.0302	0.0240	0.0050	0.0844	0.0675		
ADL 203480	UNION OIL OF CALIF.			106901		604112.8	1512259.6 W	SEWARD	7N	12W	21	SE	NE	15 60
WELL #6 / UNION OIL OF CALIF.	PERMIT ISSUED			11		0.5034	0.4965	WITHDRAWAL 01	GROUNDWATER					
2873	METERED	GOOD	MONTHLY	12	360			OCTOBER						53
	0.4022	0.3544	0.5410	0.4333	0.4959	0.5456	0.5374	0.5403	0.4660	0.6623	0.5031	0.5441		
ADL 203956	ANCHORAGE, MUN. (AWWU)			167803		610621.5	1494958.0 W	SEWARD	12N	3W	29	NE	NE	4 63
WELL #31 / HUFFMAN HILLS, ANCHORAGE	APPLICATION ACCEPTED			10		0.2995	0.2995	WITHDRAWAL 01	GROUNDWATER					
4941	METERED	GOOD	MONTHLY	12	365			DECEMBER						53
	0.2440	0.2345	0.2048	0.2370	0.2521	0.2493	0.2900	0.3426	0.2663	0.2573	0.4951	0.5159		
ADL 206632	CRESTBROOK WATER ASSOC., INC.			125365		610842.4	1495304.4 W	SEWARD	12N	3W	7	NW	SW	62 40
WELL / CRESTBROOK WATER ASSOCIATION	PERMIT ISSUED			11		0.0097	0.0096	WITHDRAWAL 01	GROUNDWATER					
4941	METERED	GOOD	MONTHLY	12	364			MARCH						53
	0.0118	0.0121	0.0134	0.0108	0.0084	0.0090	0.0085	0.0090	0.0083	0.0083	0.0093	0.0083		
ADL 206780	DIV. ADM. CONTR. & FAC. OFC., DFG			124286		611434.7	1494234.7 W	SEWARD	13N	2W	6	SE	SW	62 22
10 SHALLOW WELLS / FISH HATCHERY	PERMIT ISSUED			11		3.0532	3.0532	WITHDRAWAL 01	GROUNDWATER					
921	METERED	FAIR	MONTHLY	12	365			AUGUST						53
	3.0240	3.0240	3.0240	2.9908	2.9908	2.9908	3.6043	3.6043	3.6043	2.5924	2.5924	2.5924		
ADL 206983	SOLDOTNA, CITY OF			127502		602932.8	1510536.2 W	SEWARD	5N	10W	30	NW	SE	24 23
WELL 'C' / CITY OF SOLDOTNA	CERTIFICATE ISSUED			12		0.3089	0.3089	WITHDRAWAL 01	GROUNDWATER					
4941	METERED	GOOD	MONTHLY	12	365			AUGUST						53
	0.2723	0.2851	0.2714	0.2933	0.3691	0.3387	0.3008	0.3824	0.2523	0.2888	0.2892	0.3595		

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ADL 209104	WASILLA, CITY OF			128025	613513.3	1492607.8 W	SEWARD	17N	1W	3	SE	SE	47	8
4941	METERED	GOOD	MONTHLY	12	365	0.1783	0.1783	WITHDRAWAL 01	GROUNDWATER					
	0.2776	0.2054	0.2295	0.1682	0.1927	0.1830	0.1463	0.1580	0.1251	0.1381	0.1658	0.1498		52
ADL 209576	NORFOLK UTILITIES & DEVELOPMENT, INC.			126831	611857.8	1493205.3 W	SEWARD	14N	1W	7	NW	SW	73	27
4941	METERED	GOOD	MONTHLY	12	365	0.1746	0.1746	WITHDRAWAL 01	GROUNDWATER					
	0.1610	0.1624	0.1635	0.1718	0.2107	0.2004	0.2008	0.1777	0.1513	0.1615	0.1573	0.1569		53
ADL 209628	SOUTHPARK TERRACE HOMEOWNERS ASSOCIATION			177519	610446.6	1494801.1 W	SEWARD	11N	3W	3	NW	NW	77	77
4941	METERED	GOOD	MONTHLY	12	370	0.0254	0.0258	WITHDRAWAL 01	SURFACE WATER					
	0.0207	0.0216	0.0225	0.0240	0.0287	0.0297	0.0283	0.0269	0.0280	0.0245	0.0245	0.0249		53
ADL 209799	VALDEZ, CITY OF			127957	610752.3	1462251.5 W	COPPER RIVER	8S	6W	31	NW	SW	89	37
4941	METERED	GOOD	MONTHLY	12	359	0.6387	0.6282	WITHDRAWAL 01	GROUNDWATER					
	0.5711	0.7468	0.4987	0.6235	0.5832	0.6425	0.8546	0.8673	0.6392	0.5401	0.5644	0.5785		54
ADL 209828	ANCHORAGE, MUN. (AWWU)			167803	611848.1	1493202.6 W	SEWARD	14N	1W	7	SW	SW	71	12
4941	METERED	GOOD	MONTHLY	12	365	0.0309	0.0309	WITHDRAWAL 01	GROUNDWATER					
	0.0719	0.0708	0.0910	0.0820	0.0104	0.0115	0.0099	0.0069	0.0015	0.0053	0.0076	0.0054		53
ADL 210826	SEWARD, CITY OF			127408	600633.1	1492711.9 W	SEWARD	1S	1W	9	NW	NE	28	63
4941	METERED	GOOD	MONTHLY	12	335	0.5731	0.5260	WITHDRAWAL 01	GROUNDWATER					
	0.1213	0.4984	0.0916	0.0000	0.0034	0.6480	1.1522	0.6271	0.2884	0.5852	1.7026	0.6285		54
ADL 214896	SOLDOTNA, CITY OF			127502	602854.9	1510524.3 W	SEWARD	5N	10W	31	SE	SW	15	45
7997	METERED	GOOD	MONTHLY	12	365	0.0242	0.0242	WITHDRAWAL 01	GROUNDWATER					
	0.0035	0.0105	0.0055	0.0040	0.0013	0.0015	0.0014	0.0026	0.0002	0.0073	0.0926	0.1589		53
ADL 215028	ANCHORAGE, MUN. (AWWU)			167803	611934.7	1493449.8 W	SEWARD	14N	2W	2	SW	SE	37	4
4941	METERED	GOOD	MONTHLY	12	151	0.0070	0.0029	WITHDRAWAL 01	GROUNDWATER					
	0.0060	0.0058	0.0003	0.0230	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		53
ADL 215411	COOK INLET AQUACULTURE ASSOCIATION			156400	612836.1	1490908.3 W	SEWARD	16N	2E	18	NE	SE	8	37
921	METERED	GOOD	MONTHLY	12	226	3.2942	2.0397	WITHDRAWAL 01	SURFACE WATER					
	2.5000	2.5000	2.5000	2.5000	2.5000	0.0000	4.2188	4.5000	4.5000	4.5000	0.0000	0.0000		53

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	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
ADL 400616 NENANA, CITY OF / CITY OF NENANA 4941 METERED GOOD MONTHLY 0.0237 0.0232 0.0252 0.0314 0.0309 0.0503 0.0407 0.0399									FAIRBANKS GROUNDWATER JUNE	4S	8W 14 SW SE 24 11			
ADL 400793 ARCO ALASKA, INC. UGNURAVIK RIVER / KUPARUK CPF-1 FACILITY PERMIT ISSUED 1311 METERED GOOD MONTHLY 0.0655 0.0705 0.0709 0.0705 0.0648 0.0669									UMIAT SURFACE WATER	11N	10E 9 NW NW 70 67			
ADL 401822 ALYESKA PIPELINE SERVICE COMPANY 40' WELL / PUMP STATION #5 4612 METERED GOOD MONTHLY 0.0063 0.0059 0.0061 0.0069 0.0101 0.0070 0.0076 0.0063									FAIRBANKS GROUNDWATER MAY	23N	14W 18 SE NW 51 47			
ADL 401827 KOTZEBUE, CITY OF DEVIL'S LAKE, VORTAC RESERVOIR/KOTZEBUE PERMIT ISSUED 4941 METERED GOOD MONTHLY 0.3055 0.3193 0.2941 0.2931 0.2942 0.2476 0.3147 0.3481									KATEEL SURFACE WATER AUGUST	17N	18W 13 NE NE 19 75			
ADL 403254 NORTH POLE, CITY OF WELLS 2 & 3 / CITY OF NORTH POLE 4941 METERED GOOD MONTHLY 0.1097 0.1314 0.1238 0.1452 0.1755 0.1340 0.1301 0.1343									FAIRBANKS GROUNDWATER NOVEMBER	2S	2E 9 SW SE 21 16			
LAS 185 COOK INLET AQUACULTURE ASSOCIATION EKLUTNA LAKE / EKLUTNA FISH HATCHERY PERMIT ISSUED 921 METERED GOOD MONTHLY 0.5089 1.0508 0.9733 0.9698 0.6967 0.6353 0.5182 0.5685									SEWARD GROUNDWATER MARCH	16N	2E 18 NE SE 4 37			
LAS 246 ANCHORAGE, MUN. (AWWU) WELL #13 / SPRUCE & E. 64TH STS. ANCHORAG CERTIFICATE ISSUED 4941 METERED GOOD MONTHLY 2.4857 2.1216 2.1671 2.4312 2.4561 2.0957 2.4751 2.4343									SEWARD GROUNDWATER DECEMBER	12N	3W 4 NW NE 38 63			
LAS 563 ANCHORAGE SCHOOL DISTRICT 74' WELL / BEAR VALLEY ELEMENTARY SCHOOL PERMIT ISSUED 8211 METERED GOOD MONTHLY 0.0017 0.0014 0.0011 0.0013 0.0014 0.0004 0.0011 0.0003									SEWARD GROUNDWATER	12N	3W 35 NE SE 7 24			
LAS 636 ANCHORAGE SCHOOL DISTRICT WELL / RAVENWOOD ELEMENTARY SCHOOL PERMIT ISSUED 8211 METERED GOOD MONTHLY 0.0178 0.0190 0.0167 0.0239 0.0177 0.0079 0.0016 0.0159									SEWARD GROUNDWATER	14N	1W 17 SW NW 62 52			

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JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
LAS 803 ER#6 / BRANDEE SUBD., MC ALPINE SYSTEM 4941 METERED GOOD 0.0075	ANCHORAGE, MUN. (AWWU) MONTHLY 0.0060	167803 11 151 0.0377	612020.3 0.0126 0.0000	1493343.4 W WITHDRAWAL 01 0.0052	SEWARD GROUNDWATER APRIL 0.0000	14N	2W	1	NE NW	68	74	
LAS 897 ELEPHANT EAR MTN. CREEK / HOONAH 4941 METERED FAIR 0.2991	MONTHLY 0.3014	126050 11 365 0.2660	580353.9 0.2917 0.2959	1352329.5 W WITHDRAWAL 01 0.2917	COPPER RIVER 44S SURFACE WATER DECEMBER 0.2832		61E	11	SE SW	47	16	
LAS 907 ANCHORAGE, MUN. (AWWU) WELL #14, SPRINGHILL ELEM. SCHOOL / ANCH APPLICATION ACCEPTED 4941 METERED GOOD 0.1340	MONTHLY 0.1262	167803 10 365 0.1173	610730.8 0.1909 0.2932	1494903.5 W WITHDRAWAL 01 0.1909	SEWARD GROUNDWATER AUGUST 0.2085	12N	3W	16	SE SW	43	10	
LAS 969 MCGRATH, CITY KUSKOKWIM RIVER / CITY OF MC GRATH 4941 METERED GOOD 0.0201	MONTHLY 0.0279	126607 11 365 0.0301	625705.6 0.0274 0.0233	1553501.3 W WITHDRAWAL 01 0.0274	SEWARD SURFACE WATER DECEMBER 0.0320	33N	33W	17	SE NW	58	48	
LAS 1059 ERU, INC. WELLS #1 & 2 / HYLEN CREST SUBDIVISION 4941 METERED GOOD 0.0053	MONTHLY 0.0065	162712 11 344 0.0097	611845.5 0.0061 0.0075	1492907.7 W WITHDRAWAL 01 0.0058	SEWARD GROUNDWATER MAY 0.0065	14N	1W	8	SW SE	22	8	
LAS 1101 ALYESKA UTILITIES, INC. ALYESKA UTILITIES, INC. 4941 METERED GOOD 0.0894	MONTHLY 0.0894	124675 11 365 0.0884	605750.1 0.0743 0.0884	1490643.6 W WITHDRAWAL 01 0.0743	SEWARD GROUNDWATER FEBRUARY 0.0591	10N	2E	16	NE NW	56	76	
LAS 1141 WASILLA, CITY OF WELL#223763/MISSION HILLS SUB.PHASE 2&3 4941 METERED GOOD 0.0053	MONTHLY 0.0072	128025 11 365 0.0098	613532.9 0.0073 0.0075	1493102.7 W WITHDRAWAL 01 0.0073	SEWARD GROUNDWATER JULY 0.0047	17N	1W	6	NW SE	23	38	
LAS 1145 KODIAK, CITY OF MONASHKA CREEK / CITY OF KODIAK 4941 METERED GOOD 1.0344	MONTHLY 3.5696	126356 11 365 1.4249	575035 2.5741 1.2992	1522735.9 W WITHDRAWAL 01 2.5741	SEWARD SURFACE WATER AUGUST 3.7591	27S	20W	13	NW NW	77	74	
LAS 1257 KODIAK, CITY OF R-25 CREEK / CITY OF KODIAK 4941 METERED GOOD 1.4839	MONTHLY 0.3226	126356 12 365 1.5667	622343.7 0.8301 1.3333	1525314.2 W WITHDRAWAL 01 0.8301	SEWARD SURFACE WATER APRIL 0.5000	27N	20W	25	SE SE	13	7	
										0.6667	0.3226	

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LAS 1270	TURNER COMPANY	159325	613607.8	1491004.4 W	SEWARD	18N	2E	31	SE	SW	58	12
2 WELLS / EQUESTRIAN SUBDIVISION	PERMIT ISSUED	11	WITHDRAWAL 01		GROUNDWATER				WATER SUPPLIER			
4941	METERED GOOD	359	0.0005	0.0005	DECEMBER				OCTOBER			53
0.0005	0.0005	0.0005	0.0006	0.0006	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0006	
LAS 1541	WASILLA, CITY OF	128025	613558.9	1492602.3 W	SEWARD	17N	1W	3	NE	NW	43	78
LUCY LAINE WELL#224109 / CITY OF WASILLA	PERMIT ISSUED	11	WITHDRAWAL 01		GROUNDWATER				WATER SUPPLIER			
4941	METERED GOOD	365	0.0008	0.0008	JUNE				JANUARY			52
0.0006	0.0007	0.0007	0.0011	0.0009	0.0008	0.0008	0.0008	0.0011	0.0011	0.0010	0.0010	
LAS 1681	TOGIK FISHRIES	165692	590325.6	1601956.9 W	SEWARD	13S	66W	17	NW	NW	71	76
TOGIK RIVER / CANNERY	PERMIT ISSUED	11	WITHDRAWAL 01		SURFACE WATER				COMMERCIAL			
2091	METERED GOOD	60	0.0907	0.1266	JULY							42
0.1827	0.1798	0.1957	0.1985	0.1897	0.1494	0.1628	0.1443	0.1171	0.1165	0.1209	0.1094	
LAS 1848	EKLUTNA UTILITIES, INC.	125573	611838.8	1493247.9 W	SEWARD	14N	2W	13	NW	NE	27	78
EAGLERIDGE WELLS 1-3 / PARKVIEW TERRACE	APPLICATION ACCEPTED	10	WITHDRAWAL 01		GROUNDWATER				WATER SUPPLIER			
4941	METERED GOOD	367	0.1555	0.1564	APRIL				DECEMBER			53
0.1827	0.1798	0.1957	0.1985	0.1897	0.1494	0.1628	0.1443	0.1171	0.1165	0.1209	0.1094	
LAS 1942	JUNEAU, CITY & BOROUGH OF	126204	581937.1	1342740.0 W	COPPER RIVER	41S	67E	9	NW	SE	30	27
NEW SALMON CREEK TAILRACE / JUNEAU	PERMIT ISSUED	11	WITHDRAWAL 01		GROUNDWATER				WATER SUPPLIER			
4941	METERED GOOD	365	0.9621	0.9621	APRIL				AUGUST			62
0.7523	0.7283	1.2843	0.8440	0.8632	0.8099	0.6894	1.1660	0.9416	1.2834	0.7710	0.7710	
LAS 2082	JOHNSON ENTERPRISES	7784	613455.6	1493755.4 W	SEWARD	17N	2W	9	NE	NE	7	61
2-101' WELLS / BUSINESS	PERMIT ISSUED	11	WITHDRAWAL 01		GROUNDWATER				COMMERCIAL			
6512	METERED FAIR	112	0.0005				0.0010	0.0005	0.0003	0.0003	0.0003	52
LAS 2102	WALTER P. ORTNER	167248	613600.7	1491220.3 W	SEWARD	18N	1E	36	SW	SW	79	1
WELL / EAGLE VIEW CAR WASH	PERMIT ISSUED	11	WITHDRAWAL 01		GROUNDWATER				COMMERCIAL			
7542	METERED FAIR	365	0.0017	0.0017	FEBRUARY				AUGUST			53
0.0021	0.0021	0.0021	0.0017	0.0017	0.0012	0.0012	0.0012	0.0017	0.0017	0.0017	0.0017	
LAS 2282	CONOCO, INC.	106432	702735	1492507.0 W	UMIAT	13N	11E	19	SW	SW	78	4
UNNAMED LAKE	PERMIT ISSUED	11	WITHDRAWAL 01		SURFACE WATER				INDUSTRIAL			
1311	METERED GOOD	13	0.0054	0.0002	JULY				JUNE			11
0.0000	0.0000	0.0000	0.0044	0.0063	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
LAS 2283	CONOCO, INC.	106432	702554.8	1492628.9 W	UMIAT	13N	10E	36	SW	SE	41	10
UNNAMED LAKE / WATER SOURCE #3	PERMIT ISSUED	11	WITHDRAWAL 01		SURFACE WATER				INDUSTRIAL			
1311	METERED GOOD	7	0.0075	0.0001	JULY				INDUSTRIAL			11
0.0000	0.0000	0.0000	0.0000	0.0075	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

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LAS 2285	CONOCO, INC.					106432	701904.6	1492419.4 W	UMIAT	11N	11E	8	SE SW 48 18	
MINE SITE 'B' (GRAVEL PIT) / 7				PERMIT	ISSUED		11	WITHDRAWAL 01	SURFACE WATER		INDUSTRIAL			
1311	METERED	GOOD	MONTHLY	12	269	0.0051	0.0038	JULY		OCTOBER			11	
	0.0047	0.0050	0.0057	0.0049	0.0057	0.0046	0.0063	0.0049	0.0056	0.0037	0.0055	0.0047		
LAS 2372	ANCIENT TREE, INC.					10305	613549.7	1492114.8 W	SEWARD	17N	1E	6	NW NW 71 84	
101' WELL / SHORE OF ANCIENT TREE SUBD.				PERMIT	ISSUED		11	WITHDRAWAL 01	GROUNDWATER		WATER SUPPLIER			
4941	METERED	FAIR	MONTHLY	12	361	0.0126	0.0125						52	
	0.0134	0.0134	0.0134	0.0134	0.0134	0.0134	0.0134	0.0115	0.0115	0.0115	0.0115	0.0115		
LAS 2498	ARCO ALASKA, INC.					155174	702352.7	1494905.9 W	UMIAT	12N	9E	15	NW NE 30 82	
UNAMED LAKE, RESERVOIR CPF-3 / ARCO				PERMIT	ISSUED		11	WITHDRAWAL 01	SURFACE WATER		INDUSTRIAL			
1311	METERED	GOOD	MONTHLY	6	30	0.0009							11	
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0009								
LAS 2531	WHITTIER, CITY OF					128079	604630.1	1484009.8 W	SEWARD	8N	4E	24	NW NW 39 70	
80' WELL #1 / CITY OF WHITTIER				PERMIT	ISSUED		11	WITHDRAWAL 01	GROUNDWATER		WATER SUPPLIER			
4941	ESTIMATED	POOR	MONTHLY	6	184	0.4500							54	
						0.4500	0.4500	0.4500	0.4500	0.4500	0.4500	0.4500		
LAS 2532	WHITTIER, CITY OF					128079	604632.1	1484202.3 W	SEWARD	8N	4E	23	NE NE 44 73	
80' WELL #2 / CITY OF WHITTIER				PERMIT	ISSUED		11	WITHDRAWAL 01	GROUNDWATER		WATER SUPPLIER			
4941	ESTIMATED	POOR	MONTHLY	6	184	0.2160							54	
						0.2160	0.2160	0.2160	0.2160	0.2160	0.2160	0.2160		
LAS 2533	WHITTIER, CITY OF					128079	604632.1	1484211.6 W	SEWARD	8N	4E	23	NE NE 51 73	
80' WELL #3 / CITY OF WHITTIER				PERMIT	ISSUED		11	WITHDRAWAL 01	GROUNDWATER		WATER SUPPLIER			
4941	ESTIMATED	POOR	MONTHLY	6	184	0.2592							54	
						0.2592	0.2592	0.2592	0.2592	0.2592	0.2592	0.2592		
LAS 2698	VALDEZ, CITY OF					127957	610553.9	1461207.4 W	COPPER RIVER	9S	6W	12	SE SE 16 15	
WELL #7, ROBE RIVER / CITY OF VALOEZ				PERMIT	ISSUED		11	WITHDRAWAL 01	GROUNDWATER		WATER SUPPLIER			
4941	METERED	GOOD	MONTHLY	11	324	0.0676			APRIL	JULY			54	
	0.0623	0.0667	0.0795	0.0911	0.0724	0.0593	0.0566	0.0638	0.0644	0.0628	0.0655			
LAS 2699	VALDEZ, CITY OF					127957	610747.7	1461703.4 W	COPPER RIVER	8S	6W	34	NE SW 50 30	
WELL #5, LOOP ROAD / CITY OF VALDEZ				PERMIT	ISSUED		11	WITHDRAWAL 01	GROUNDWATER		WATER SUPPLIER			
4941	METERED	GOOD	MONTHLY	12	362	0.0179	0.0177		MAY	FEBRUARY			54	
	0.0160	0.0084	0.0090	0.0155	0.0314	0.0241	0.0235	0.0250	0.0174	0.0102	0.0240	0.0111		
LAS 2700	VALDEZ, CITY OF					127957	610734	1461431.4 W	COPPER RIVER	8S	6W	35	SE SE 17 9	
WELL #6, SOUTHCENTRAL / CITY OF VALOEZ				PERMIT	ISSUED		11	WITHDRAWAL 01	GROUNDWATER		WATER SUPPLIER			
4941	METERED	GOOD	MONTHLY	12	364	0.3815	0.3804		DECEMBER	NOVEMBER			54	
	0.3966	0.3993	0.3909	0.3818	0.3855	0.3746	0.3767	0.3825	0.3851	0.3787	0.2952	0.4185		

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FILE	FACILITY NAME			IDENT.	LATITUDE	LONGITUDE	MERIDIAN	TOWN	RNGE	SEC	QO	Q	CW	CH									
SOURCE / DESTINATION				STATUS DESCRIPTION		CODE	WITHCODE	SEQ	WITHTYPE	NWUDS													
SIC	RECORDS	ACCURACY	PERIOD	MONTHS	DAYS	DAILY AVG	YEARLY AVG	MAX. MONTH	MIN. MONTH				HYD										
JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
LAS 2761	ARCO ALASKA, INC.			155174		701914.3	1493720.5 W	UMIAT	11N	10E	9	NE	SW	59	33								
UNNAMED LAKE / ARCO				PERMIT ISSUED		11	WITHDRAWAL 01	SURFACE WATER		INDUSTRIAL													
1311	METERED	GOOD	MONTHLY	4	61	0.0006									11								
0.0000		0.0000		0.0006		0.0005																	
LAS 2762	ARCO ALASKA, INC.			155174		701726.1	1495338.9 W	UMIAT	11N	9E	20	NE	SE	13	26								
UNAMED LAKE / ARCO ALASKA, INC.				PERMIT ISSUED		11	WITHDRAWAL 01	SURFACE WATER		INDUSTRIAL													
1311	METERED	GOOD	MONTHLY	6	181	0.0187									11								
0.0670		0.0075		0.0240		0.0095		0.0010		0.0015													
LAS 2767	ARCO ALASKA, INC.			155174		702702.3	1494125.5 W	UMIAT	13N	9E	25	NW	SE	24	34								
UNNAMED LAKE / ?				PERMIT ISSUED		11	WITHDRAWAL 01	SURFACE WATER		INDUSTRIAL													
1311	METERED	GOOD	MONTHLY	6	90	0.0397									11								
0.0591		0.0547		0.0067		0.0000		0.0000															
LAS 2838	ALASKA POWER AUTHORITY			124562		594549.2	1505716.1 W	SEWARD	5S	10W	10	NW	NE	22	69								
80' WELL / BRADLEY LAKE CONSTRUCTION				CMP PERMIT ISSUED		11	WITHDRAWAL 01	GROUNDWATER		INDUSTRIAL													
1629	METERED	GOOD	MONTHLY	12	134	0.0144	0.0053	APRIL	JANUARY				53										
0.0089		0.0167		0.0184		0.0188		0.0000		0.0000		0.0000		0.0000									
LAS 2915	STANDARD ALASKA PRODUCTION CO.			107377		701433.4	1480401.2 W	UMIAT	10N	16E	4	NW	SE	0	0								
TEMPORARY WATER-USE PERMIT				ACTIVE DATA POINT		10	WITHDRAWAL 01	SURFACE WATER		INDUSTRIAL													
1311	METERED	GOOD	MONTHLY	12	92	0.0600	0.0151								11								
0.0000		0.0000		0.0000		0.0000		0.0600		0.0600		0.0600		0.0000									
LAS 3024	FISHERMAN'S PACKING, INC.			174220		603212	1511516.4 W	SEWARD	5N	11W	8	NE	NW	64	28								
140' WELL / PROCESSING PLANT				PERMIT ISSUED		11	WITHDRAWAL 01	GROUNDWATER		COMMERCIAL													
2092	METERED	GOOD	MONTHLY	7	90	0.0698		JULY	JUNE				54										
						0.0080	0.1042	0.0817	0.0221	0.0000	0.0000	0.0000	0.0000										
LAS 3280	ALASKA ZOO			174735		610732.7	1494728.0 W	SEWARD	12N	3W	15	SE	SW	52	13								
ALASKA ZOO ELEPHANT & POLAR BEAR HOUSES				APPLICATION ACCEPTED		10	WITHDRAWAL 01	GROUNDWATER		COMMERCIAL													
7999	METERED	GOOD	MONTHLY	12	371	0.0022	0.0022								53								
0.0021		0.0017		0.0017		0.0017		0.0017		0.0017		0.0042		0.0023									
														0.0023									
														0.0031									
														0.0019									
														0.0027									
LAS 3281	ALASKA ZOO			174735		610726.2	1494723.9 W	SEWARD	12N	3W	15	SE	SW	49	3								
ALASKA ZOO PUMPHOUSE / PUBLIC SUPPLY				APPLICATION ACCEPTED		10	WITHDRAWAL 01	GROUNDWATER		COMMERCIAL													
7999	METERED	GOOD	MONTHLY	12	371	0.0028	0.0029								53								
0.0058		0.0025		0.0025		0.0025		0.0025		0.0025		0.0027		0.0029									
														0.0027									
														0.0028									
														0.0026									
LAS 3311	SAINT PAUL, CITY OF			154092		570845	1701528.3 W	SEWARD	35S	131W	18	SE	SW	58	3								
NORTH & SOUTH WELLS / CITY OF SAINT PAUL				PERMIT ISSUED		11	WITHDRAWAL 01	GROUNDWATER		WATER SUPPLIER													
4941	METERED	FAIR	MONTHLY	12	365	0.0609	0.0609	MARCH	OCTOBER				44										
0.0836		0.0807		0.1045		0.0979		0.0372		0.0357		0.0437		0.0575									
														0.0490									
														0.0351									
														0.0615									
														0.0460									

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SOURCE / DESTINATION	STATUS DESCRIPTION			CODE	WITHCODE	SEQ	WITHTYPE	NWUDS						
SIC	RECORDS	ACCURACY	PERIOD	MONTHS	DAYS	DAILY AVG	YEARLY AVG	MAX. MONTH	MIN. MONTH			HYD		
JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER			
LAS 3348	ARCO ALASKA, INC.			155174	702456.5	1494808.3 W	UMIAT	12N	9E	3	SE	NW	0	0
? / KUPARUK ICE ROADS	CLOSED			44	WITHDRAWAL	01	SURFACE WATER	INDUSTRIAL						
1311	METERED	GOOD	MONTHLY	6	31	0.0114							11	
0.0114	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000								
LAS 3348	ARCO ALASKA, INC.			155174	702220.6	1495042.0 W	UMIAT	12N	9E	21	NE	SW	0	0
? / KUPARUK RIG & CAMP USE	CLOSED			44	WITHDRAWAL	04	SURFACE WATER	INDUSTRIAL						
1311	METERED	GOOD	MONTHLY	6	31	0.0198							11	
0.0000	0.0000	0.0198	0.0000	0.0000	0.0000	0.0000								
LAS 3355	ALYESKA PIPELINE SERVICE COMPANY			124668	655502.6	1494739.5 W	FAIRBANKS	13N	11W	26	NE	NE	0	0
/ PUMP STATION #6	ACTIVE DATA POINT			10	WITHDRAWAL	01	GROUNDWATER	INDUSTRIAL						
4612	METERED	GOOD	MONTHLY	12	365	0.0043	0.0043	JULY	JANUARY				11	
0.0025	0.0032	0.0030	0.0036	0.0042	0.0074	0.0081	0.0050	0.0033	0.0035	0.0041	0.0036			
LAS 3485	ANCHORAGE, MUN. (AWWU)			167803	611855.3	1493310.9 W	SEWARD	14N	2W	12	NE	SW	44	23
EAGLE RIVER WELL #9 / PALOS VERDES	APPLICATION ACCEPTED			10	WITHDRAWAL	01	GROUNDWATER	WATER SUPPLIER						
4941	METERED	GOOD	MONTHLY	12	273	0.0058	0.0043	APRIL	SEPTEMBER				53	
0.0051	0.0029	0.0059	0.0189	0.0067	0.0054	0.0015	0.0053	0.0005	0.0000	0.0000	0.0000			
LAS 3884	KLUKWAN, CITY OF			126331	592416.6	1355257.3 W	COPPER RIVER	28S	56E	33	SE	NE	9	51
SPRING / KLUKWAN RESERVOIR	PERMIT ISSUED			11	WITHDRAWAL	01	GROUNDWATER	WATER SUPPLIER						
4941	METERED	FAIR	MONTHLY	2	59	0.0374							62	
0.0364	0.0385													
LAS 5036	USDA/FS, CHUGACH NATIONAL FOREST			151454	604705.7	1485021.4 W	SEWARD	8N	3E	13	SW	NE	24	45
100' WELL / PORTAGE VISITOR'S CENTER	PERMIT ISSUED			11	WITHDRAWAL	01	GROUNDWATER	RECREATION						
7999	ESTIMATED	FAIR	MONTHLY	9	257	0.0017							53	
0.0001	0.0001	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0028						
LAS 5204	WASILLA, CITY OF			128025	613558.2	1492643.3 W	SEWARD	17N	1W	3	NW	NW	73	77
236' WELL / WASILLA WOODS SUBDIVISION	PERMIT ISSUED			11	WITHDRAWAL	01	GROUNDWATER	WATER SUPPLIER						
4941	METERED	GOOD	MONTHLY	12	275	0.0943	0.0711	OCTOBER	APRIL				52	
0.0000	0.0000	0.0000	0.0702	0.0925	0.0942	0.1057	0.0873	0.1054	0.1106	0.0908	0.0916			
LAS 6362	ARCO ALASKA, INC.			155174	701944.8	1494035.4 W	UMIAT	11N	10E	6	SW	NE	0	0
? / KUPARUK ICE ROADS	ACTIVE DATA POINT			10	WITHDRAWAL	01	SURFACE WATER	INDUSTRIAL						
1311	METERED	GOOD	MONTHLY	6	31	0.0426							11	
0.0426	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000								
LAS 6550	PETERSBURG, CITY OF			127077	564724.8	1325423.8 W	COPPER RIVER	59S	79E	1	NW	NW	65	60
STREAM / CITY OF PETERSBURG	PERMIT ISSUED			11	WITHDRAWAL	01	SURFACE WATER	WATER SUPPLIER						
4941	METERED	GOOD	MONTHLY	12	365	0.8696	0.8696	JULY	NOVEMBER				63	
0.6743	0.7341	0.6361	0.5939	0.8266	1.0610	1.9138	1.2650	0.8450	0.6310	0.5677	0.6622			

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SOURCE / DESTINATION				STATUS DESCRIPTION		CODE	WITHCODE	SEQ	WITHTYPE	NWUOS													
SIC	RECORDS	ACCURACY	PERIOD	MONTHS	DAYS	DAILY AVG	YEARLY AVG	MAX.	MONTH	MIN. MONTH								HYD					
JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
LAS 8675	YAKUTAT, CITY OF			128153		593244.1		1394355.4 W		COPPER RIVER 27S		33E		25		SE SE		1		32			
BACK-UP WELL / CITY OF YAKUTAT				PERMIT ISSUED		11		WITHDRAWAL 01		GROUNDWATER		NOVEMBER		WATER SUPPLIER									
4941	METERED	GOOD	MONTHLY	12	183	0.0038	0.0019	MAY	NOVEMBER								61						
0.0000		0.0000		0.0000		0.0000		0.0157		0.0023		0.0024		0.0019		0.0001		0.0000		0.0000		0.0000	
LAS 7611	STANDARD ALASKA PRODUCTION CO.			107377		701436.6		1481554.1 W		UMIAT 10N		15E		2		SE SW		55		5			
PATTI LAKE, SAG. SITE 'C' / SOMIO				PERMIT ISSUED		11		WITHDRAWAL 01		SURFACE WATER		INDUSTRIAL		NOVEMBER									
1311	METERED	GOOD	MONTHLY	12	365	0.0061	0.0061	MAY	NOVEMBER								11						
0.0075		0.0075		0.0075		0.0134		0.0134		0.0134		0.0032		0.0032		0.0032		0.0003		0.0003		0.0003	
LAS 10094	ARCO ALASKA, INC.			155174		702404.7		1500047.5 W		UMIAT 12N		8E		11		SW NE		0		0			
? / KUPARUK RIG & CAMP USE				ACTIVE DATA POINT		10		WITHDRAWAL 07		SURFACE WATER		INDUSTRIAL											
1311	METERED	GOOD	MONTHLY	6	122	0.0434											11						
0.0000		0.0000		0.0431		0.0654		0.0526		0.0122													
LAS 10094	ARCO ALASKA, INC.			155174		702128.8		1500047.2 W		UMIAT 12N		8E		26		NW SE		0		0			
? / KUPARUK ICE ROADS & PADS				ACTIVE DATA POINT		10		WITHDRAWAL 010		SURFACE WATER		INDUSTRIAL											
1311	METERED	GOOD	MONTHLY	6	28	0.0137											11						
0.0000		0.0137		0.0000		0.0000		0.0000															
LAS 11215	SOLDOTNA, CITY OF			127502		602840.6		1510150.8 W		SEWARD 5N		10W		33		NE SE		13		23			
WELL 'E' / CITY OF SOLDOTNA				APPLICATION ACCEPTED		10		WITHDRAWAL 01		GROUNDWATER		NOVEMBER		WATER SUPPLIER									
4941	METERED	GOOD	MONTHLY	12	365	0.0009	0.0009	NOVEMBER	SEPTEMBER								53						
0.0007		0.0006		0.0012		0.0014		0.0007		0.0006		0.0015		0.0009		0.0003		0.0007		0.0015		0.0007	
LAS 11220	ARCO ALASKA, INC.			155174		701433.4		1481408.5 W		UMIAT 10N		15E		2		NW SE		0		0			
? / PRUDHOE BAY RIG & CAMP USE				ACTIVE DATA POINT		10		WITHDRAWAL 01		SURFACE WATER		INDUSTRIAL											
1311	METERED	GOOD	MONTHLY	6	28	0.0048											11						
0.0000		0.0048		0.0000		0.0000		0.0000															
LAS 11222	VALLI VUE ESTATES SUBDIVISION			127962		610732.7		1494521.9 W		SEWARD 12N		3W		14		SW SE		38		13			
179' WELL / VALLI VUE ESTATES SUBD.				APPLICATION ACCEPTED		10		WITHDRAWAL 01		GROUNDWATER		WATER SUPPLIER											
4941	CALCULATED	GOOD	MONTHLY	2	59	0.0490											53						
0.0496		0.0482																					
LAS 11228	ARCO ALASKA, INC.			106346		701433.4		1481134.8 W		UMIAT 10N		15E		1		NE SW		0		0			
? / PRUDHOE BAY RIG & CAMP USE				ACTIVE DATA POINT		10		WITHDRAWAL 02		SURFACE WATER		INDUSTRIAL											
1311	METERED	GOOD	MONTHLY	6	151	0.0382											11						
0.0885		0.0406		0.0407		0.0207		0.0003		0.0000													
LAS 11267	ALAKANUK, VILLAGE OF			6343		624007		1643914.4 W		SEWARD 30N		82W		21		NE NE		0		0			
ALUKONUK SLOUGH / VILLAGE OF ALAKANUK				ACTIVE DATA POINT		10		WITHDRAWAL 01		SURFACE WATER		WATER SUPPLIER											
4941	METERED	POOR	MONTHLY	4	120	0.0093											36						
0.0083		0.0116		0.0117		0.0057																	

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SOURCE / DESTINATION				STATUS DESCRIPTION		CODE	WITHCODE	SEQ	WITHTYPE	NWUDS					
SIC	RECORDS	ACCURACY	PERIOD	MONTHS	DAYS	DAILY AVG	YEARLY AVG		MAX. MONTH	MIN. MONTH					HYD
JANUARY		FEBRUARY		MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
LAS 11267	ALAKANUK, VILLAGE OF					6343	624007	1643914.4 W	SEWARD	30N	82W	21	NE	NE	0 0
4941	ALUKONUK SLOUGH / HIGH SCHOOL			ACTIVE	DATA	POINT	10	WITHDRAWAL 02	SURFACE	WATER	WATER	SUPPLIER			
	METERED	POOR	MONTHLY	4	120		0.0042						36		
	0.0029	0.0054	0.0054	0.0034											
LAS 11267	ALAKANUK, VILLAGE OF					6343	624007	1643914.4 W	SEWARD	30N	82W	21	NE	NE	0 0
4941	ALUKONUK SLOUGH / WASHETERIA			ACTIVE	DATA	POINT	10	WITHDRAWAL 03	SURFACE	WATER	WATER	SUPPLIER			
	METERED	POOR	MONTHLY	4	120		0.0029						36		
	0.0027	0.0033	0.0033	0.0024											
LAS 11267	ALAKANUK, VILLAGE OF					6343	624007	1643914.4 W	SEWARD	30N	82W	21	NE	NE	0 0
4941	ALUKONUK SLOUGH / PUBLIC WATERING POINT			ACTIVE	DATA	POINT	10	WITHDRAWAL 04	SURFACE	WATER	WATER	SUPPLIER			
	METERED	POOR	MONTHLY	4	120		0.0002						36		
	0.0002	0.0003	0.0003	0.0002											
LAS 11267	ALAKANUK, VILLAGE OF					6343	624007	1643914.4 W	SEWARD	30N	82W	21	NE	NE	0 0
4941	ALUKONUK SLOUGH / SAUNA & SHOWERS			ACTIVE	DATA	POINT	10	WITHDRAWAL 05	SURFACE	WATER	WATER	SUPPLIER			
	METERED	POOR	MONTHLY	1	31		0.0025						36		
	0.0025														
LAS 11320	EEK, CITY					7264	601248.6	1620033.1 W	SEWARD	2N	73W	31	NE	SW	0 0
4941	UNKNOWN / CITY OF EEK			ACTIVE	DATA	POINT	10	WITHDRAWAL 01	SURFACE	WATER	WATER	SUPPLIER			
	METERED	FAIR	MONTHLY	12	365		0.0022	0.0022	OCTOBER		JANUARY		41		
	0.0004	0.0006	0.0018	0.0016	0.0006	0.0021	0.0020	0.0022	0.0013	0.0089	0.0035	0.0012			
LAS 11321	FORT YUKON, CITY					6292	663309	1451440.2 W	FAIRBANKS	20N	12E	18	NE	NE	0 0
4941	MAIN WELL / CITY OF FORT YUKON			ACTIVE	DATA	POINT	10	WITHDRAWAL 01	GROUNDWATER		WATER	SUPPLIER			
	METERED	GOOD	MONTHLY	12	365		0.0159	0.0159	JULY		MARCH		32		
	0.0162	0.0126	0.0116	0.0122	0.0138	0.0170	0.0238	0.0166	0.0154	0.0172	0.0171	0.0166			
LAS 11322	QUINHAGAK, CITY OF					6293	594504.7	1615148.2 W	SEWARD	5S	74W	9	SW	NW	0 0
4941	KANEXTOK RIVER / CITY OF QUINHAGAK			ACTIVE	DATA	POINT	10	WITHDRAWAL 01	SURFACE	WATER	WATER	SUPPLIER			
	METERED	FAIR	MONTHLY	12	395		0.0052	0.0056	SEPTEMBER		FEBRUARY		41		
	0.0026	0.0026	0.0026	0.0061	0.0061	0.0061	0.0061	0.0061	0.0109	0.0081	0.0028	0.0055			
LAS 11323	UNALAKLEET, CITY OF					6295	635611.8	1604835.3 W	KATEEL	18S	11W	9	SE	SW	0 0
4941	POWERS CREEK / CITY OF UNALAKLEET			ACTIVE	DATA	POINT	10	WITHDRAWAL 01	SURFACE	WATER	WATER	SUPPLIER			
	METERED	FAIR	MONTHLY	12	365		0.0727	0.0727	MARCH		NOVEMBER		22		
	0.0774	0.0750	0.0819	0.0767	0.0677	0.0767	0.0677	0.0742	0.0867	0.0626	0.0623	0.0642			
LAS 11324	WALES, CITY OF					6298	653547.8	1690314.4 W	KATEEL	2N	45W	5	SW	NW	0 0
4941	GILBERT CREEK / WASHETERIA			ACTIVE	DATA	POINT	10	WITHDRAWAL 01	SURFACE	WATER	WATER	SUPPLIER			
	METERED	FAIR	MONTHLY	2	59		0.0010						22		
	0.0011	0.0010													

APPENDIX B

APPENDIX B

ALASKA WATER-USE DATA SYSTEM
1987 SUMMARY REPORT
ALASKA DIVISION OF GEOLOGICAL AND GEOPHYSICAL SURVEYS

FILE	FACILITY NAME	IDENT.	LATITUDE	LONGITUDE	MERIDIAN	TOWN	RNGE	SEC	Q	CW	CN
SOURCE / DESTINATION	STATUS DESCRIPTION	CODE	WITHCODE	SEQ	WTHTYPE						
SIC	RECORDS	ACCURACY	PERIOD	MONTHS	DAYS	DAILY AVG	YEARLY AVG	MAX.	MONTH	MIN.	MONTH
JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
LAS 11329	KASAAN, CITY OF		128238	553234.9	1322349.2 W	COPPER RIVER 73S	86E	18	SW	NE	32 56
LINKUM CREEK / CITY OF KASAAN				11	WITHDRAWAL 01	SURFACE WATER					
4941 METERED	FAIR	MONTHLY	PERMIT ISSUED	4	0.0269						87
0.0159	0.0275	0.0412	0.0239	12)							
LAS 11465	THORNE BAY, CITY OF		154125	554134.7	1323048.7 W	COPPER RIVER 71S	84E	22	SW	SE	35 6
WATER LAKE / CITY OF THORNE BAY				11	WITHDRAWAL 01	SURFACE WATER					
4941 METERED	FAIR	MONTHLY	PERMIT ISSUED	10	0.0044						67
0.0040	0.0033	0.0033	0.0035	303	0.0041	0.0040	0.0046	0.0052	0.0059	0.0061	
LAS 11795	SAND POINT, CITY OF		127351	552031.3	1602901.1 W	SEWARD	73W	9	SW	SW	79 19
HUMBOLDT CREEK / CITY OF SAND POINT				11	WITHDRAWAL 01	SURFACE WATER					
4941 METERED	GOOD	MONTHLY	PERMIT ISSUED	12	0.1801						43
0.2007	0.1927	0.1892	0.1685	365	0.1801	0.1718	0.1727	0.1745	0.1690	0.1812	0.2118
LAS 11862	ANCHORAGE, MUN. (AWMU)		167803	612432.3	1492714.0 W	SEWARD	1W	9	NE	NE	17 62
OBORG WELL (184') / PETERS CREEK				10	WITHDRAWAL 01	GROUNDWATER					
4941 METERED	GOOD	MONTHLY	APPLICATION ACCEPTED	12	0.0252						53
0.0176	0.0183	0.0288	0.0208	365	0.0252	0.0386	0.0485	0.0497	0.0207	0.0087	0.0038

APPENDIX C. Cross reference of file number to locations.

OBS	FACILITY NAME	FILE TYPE	FILE NUMBER	CUSTOMER IDENTIFICATION NUMBER
1	ALAKANUK, VILLAGE OF	LAS	11267	6343
2	ALAKANUK, VILLAGE OF	LAS	11267	6343
3	ALAKANUK, VILLAGE OF	LAS	11267	6343
4	ALAKANUK, VILLAGE OF	LAS	11267	6343
5	ALAKANUK, VILLAGE OF	LAS	11267	6343
6	ALASKA POWER AUTHORITY	ADL	201559	124562
7	ALASKA POWER AUTHORITY	LAS	2838	124562
8	ALASKA ZOO	LAS	3260	174735
9	ALASKA ZOO	LAS	3261	174735
10	ALYESKA PIPELINE SERVICE COMPANY	ADL	64153	124668
11	ALYESKA PIPELINE SERVICE COMPANY	ADL	401822	124668
12	ALYESKA PIPELINE SERVICE COMPANY	LAS	3355	124668
13	ALYESKA UTILITIES, INC.	LAS	1101	124675
14	ANCHORAGE SCHOOL DISTRICT	LAS	563	168395
15	ANCHORAGE SCHOOL DISTRICT	LAS	636	168395
16	ANCHORAGE, MUN. (AWMU)	ADL	44197	167803
17	ANCHORAGE, MUN. (AWMU)	ADL	44626	167803
18	ANCHORAGE, MUN. (AWMU)	ADL	44626	167803
19	ANCHORAGE, MUN. (AWMU)	ADL	45127	167803
20	ANCHORAGE, MUN. (AWMU)	ADL	45420	167803
21	ANCHORAGE, MUN. (AWMU)	ADL	50906	167803
22	ANCHORAGE, MUN. (AWMU)	ADL	50907	167803
23	ANCHORAGE, MUN. (AWMU)	ADL	50908	167803
24	ANCHORAGE, MUN. (AWMU)	ADL	50909	167803
25	ANCHORAGE, MUN. (AWMU)	ADL	50920	167803
26	ANCHORAGE, MUN. (AWMU)	ADL	50923	167803
27	ANCHORAGE, MUN. (AWMU)	ADL	50924	167803
28	ANCHORAGE, MUN. (AWMU)	ADL	50926	167803
29	ANCHORAGE, MUN. (AWMU)	ADL	50927	167803
30	ANCHORAGE, MUN. (AWMU)	ADL	51573	167803
31	ANCHORAGE, MUN. (AWMU)	ADL	52514	167803
32	ANCHORAGE, MUN. (AWMU)	ADL	54850	167803
33	ANCHORAGE, MUN. (AWMU)	ADL	54850	167803
34	ANCHORAGE, MUN. (AWMU)	ADL	62222	167803
35	ANCHORAGE, MUN. (AWMU)	ADL	63855	167803
36	ANCHORAGE, MUN. (AWMU)	ADL	65644	167803
37	ANCHORAGE, MUN. (AWMU)	ADL	65787	167803
38	ANCHORAGE, MUN. (AWMU)	ADL	67201	167803
39	ANCHORAGE, MUN. (AWMU)	ADL	73658	167803
40	ANCHORAGE, MUN. (AWMU)	ADL	201555	167803
41	ANCHORAGE, MUN. (AWMU)	ADL	201881	167803
42	ANCHORAGE, MUN. (AWMU)	ADL	201920	167803
43	ANCHORAGE, MUN. (AWMU)	ADL	202997	167803
44	ANCHORAGE, MUN. (AWMU)	ADL	203956	167803
45	ANCHORAGE, MUN. (AWMU)	ADL	209828	167803
46	ANCHORAGE, MUN. (AWMU)	ADL	215028	167803
47	ANCHORAGE, MUN. (AWMU)	LAS	246	167803
48	ANCHORAGE, MUN. (AWMU)	LAS	803	167803
49	ANCHORAGE, MUN. (AWMU)	LAS	907	167803
50	ANCHORAGE, MUN. (AWMU)	LAS	3485	167803
51	ANCHORAGE, MUN. (AWMU)	LAS	11862	167803
52	ANCIENT TREE, INC.	LAS	2372	10305
53	ARCO ALASKA, INC.	ADL	400793	155174
54	ARCO ALASKA, INC.	LAS	2498	155174
55	ARCO ALASKA, INC.	LAS	2761	155174
56	ARCO ALASKA, INC.	LAS	2762	155174
57	ARCO ALASKA, INC.	LAS	2767	155174
58	ARCO ALASKA, INC.	LAS	3348	155174
59	ARCO ALASKA, INC.	LAS	6362	155174
60	ARCO ALASKA, INC.	LAS	10094	155174
61	ARCO ALASKA, INC.	LAS	10094	155174
62	ARCO ALASKA, INC.	LAS	11220	155174

APPENDIX C. (continued)

OBS	FACILITY NAME	FILE TYPE	FILE NUMBER	CUSTOMER IDENTIFICATION NUMBER
63	ARCO ALASKA, INC.	LAS	11228	106346
64	ARCO ALASKA, INC.	LAS	3348	155174
65	CHEFORNAK, CITY OF	ADL	75891	125164
66	CONOCO, INC.	LAS	2282	106432
67	CONOCO, INC.	LAS	2283	106432
68	CONOCO, INC.	LAS	2285	106432
69	COOK INLET AQUACULTURE ASSOCIATION	ADL	215411	156400
70	COOK INLET AQUACULTURE ASSOCIATION	LAS	185	156400
71	CRAIG, CITY	ADL	62346	125358
72	CRESTBROOK WATER ASSOC., INC.	ADL	206632	125365
73	DILLINGHAM, CITY	ADL	46054	125481
74	DIV. ADM. CONTR. & FAC. OFC., DFG	ADL	53292	124286
75	DIV. ADM. CONTR. & FAC. OFC., DFG	ADL	80511	124286
76	DIV. ADM. CONTR. & FAC. OFC., DFG	ADL	206780	124286
77	EEL, CITY	LAS	11320	7264
78	EKLUTNA UTILITIES, INC.	LAS	1848	125573
79	ELIM, CITY	ADL	75895	125579
80	ERU, INC.	LAS	1059	162712
81	FAIRBANKS MUNICIPAL UTILITY SYSTEM	ADL	53813	114790
82	FAIRBANKS MUNICIPAL UTILITY SYSTEM	ADL	53813	114790
83	FISHERMAN'S PACKING, INC.	LAS	3024	174220
84	FORT YUKON, CITY	LAS	11321	6292
85	GRAYLING, CITY OF	ADL	75908	125869
86	GRAYLING, CITY OF	ADL	75908	125869
87	HILLSIDE PARK HOMEOWNER'S ASSOC.	ADL	202909	165707
88	HOMER, CITY	ADL	57850	126046
89	HOONAH, CITY	LAS	897	126050
90	INDIAN COVE WATER COMPANY	ADL	43117	126102
91	JOHNSON ENTERPRISES	LAS	2082	7784
92	JUNEAU, CITY & BOROUGH OF	ADL	44439	126204
93	JUNEAU, CITY & BOROUGH OF	ADL	100066	126204
94	JUNEAU, CITY & BOROUGH OF	LAS	1942	126204
95	KASAAH, CITY OF	LAS	11329	126238
96	KENAI, CITY OF	ADL	53282	126275
97	KENAI, CITY OF	ADL	53282	126275
98	KETCHIKAN, CITY OF	ADL	48794	126297
99	KETCHIKAN, CITY OF	ADL	48795	126297
100	KING COVE, CITY OF	ADL	42595	126307
101	KLUKWAN, CITY OF	LAS	3864	126331
102	KODIAK, CITY OF	ADL	39797	126356
103	KODIAK, CITY OF	LAS	1145	126356
104	KODIAK, CITY OF	LAS	1257	126356
105	KOTZEBUE, CITY OF	ADL	401827	126367
106	LAGEN, WM. S., DBA TRIDENT SEAFOODS	ADL	62233	114842
107	MCGRATH, CITY	LAS	969	126607
108	NENANA, CITY OF	ADL	400616	126781
109	NOME, CITY OF	ADL	42993	126821
110	NOORVIK, CITY OF	ADL	75902	126822
111	NORFOLK UTILITIES & DEVELOPMENT	ADL	209576	126831
112	NORTH POLE, CITY OF	ADL	403254	126845
113	NORTH WOODS, INC.	ADL	74176	115001
114	PALMER, CITY OF	ADL	201324	127015
115	PETERSBURG, CITY OF	LAS	6550	127077
116	PORT LYONS, CITY OF	ADL	39835	127129
117	QUINHAGAK, CITY OF	LAS	11322	6293
118	SAINT MICHAEL, CITY	ADL	76070	127559
119	SAINT PAUL, CITY OF	LAS	3311	154092
120	SAND POINT, CITY OF	LAS	11795	127351
121	SAXMAN, CITY OF	ADL	44121	127363
122	SCAMMON BAY, CITY OF	ADL	46364	127365
123	SETTLERS BAY PROPERTIES, INC.	ADL	74699	127403
124	SETTLERS BAY PROPERTIES, INC.	ADL	74700	127403

APPENDIX C. (continued)

OBS	FACILITY NAME	FILE TYPE	FILE NUMBER	CUSTOMER IDENTIFICATION NUMBER
125	SETTLERS BAY PROPERTIES, INC.	ADL	74700	127403
126	SEWARD, CITY OF	ADL	39936	127408
127	SEWARD, CITY OF	ADL	39936	127408
128	SEWARD, CITY OF	ADL	39936	127408
129	SEWARD, CITY OF	ADL	39936	127408
130	SEWARD, CITY OF	ADL	210826	127408
131	SHISHMAREF, CITY OF	ADL	75901	127428
132	SHISHMAREF, CITY OF	ADL	75901	127428
133	SHISHMAREF, CITY OF	ADL	75901	127428
134	SITKA, CITY & BOROUGH OF	ADL	51543	127456
135	SITKA, CITY & BOROUGH OF	ADL	100007	127456
136	SOHIO	ADL	66117	124848
137	SOHIO	ADL	75979	107377
138	SOLDOTNA, CITY OF	ADL	40315	127502
139	SOLDOTNA, CITY OF	ADL	52342	127502
140	SOLDOTNA, CITY OF	ADL	206983	127502
141	SOLDOTNA, CITY OF	ADL	214896	127502
142	SOLDOTNA, CITY OF	LAS	11215	127502
143	SOUTHPARK TERRACE HOMEOWNERS ASSOC.	ADL	209628	177519
144	STANDARD ALASKA PRODUCTION CO.	LAS	2915	107377
145	STANDARD ALASKA PRODUCTION CO.	LAS	7611	107377
146	TATITLEK, VILLAGE OF	ADL	76071	127661
147	TESORO-ALASKAN PETROLEUM COMPANY	ADL	42906	127684
148	TESORO-ALASKAN PETROLEUM COMPANY	ADL	42906	127684
149	THORNE BAY, CITY OF	LAS	11465	154125
150	TOGIAK FISHERIES	LAS	1681	165692
151	TURNER COMPANY	LAS	1270	159325
152	U.S. DEPARTMENT OF ENERGY, A.P.A.	ADL	44944	173270
153	UNALAKLEET, CITY OF	LAS	11323	6295
154	UNION CHEMICALS DIV, UNOCAL CO.	ADL	42514	125261
155	UNION OIL COMPANY OF CA.	ADL	78075	127892
156	UNION OIL OF CALIF.	ADL	203480	106901
157	USDA/FS, CHUGACH NATIONAL FOREST	LAS	5036	151454
158	VALDEZ, CITY OF	ADL	46360	127957
159	VALDEZ, CITY OF	ADL	46360	127957
160	VALDEZ, CITY OF	ADL	209799	127957
161	VALDEZ, CITY OF	LAS	2698	127957
162	VALDEZ, CITY OF	LAS	2699	127957
163	VALDEZ, CITY OF	LAS	2700	127957
164	VALLI VUE ESTATES SUBDIVISION	LAS	11222	127962
165	WALES, CITY OF	LAS	11324	6298
166	WALTER P. ORTNER	LAS	2102	167248
167	WASILLA, CITY OF	ADL	209104	128025
168	WASILLA, CITY OF	LAS	1141	128025
169	WASILLA, CITY OF	LAS	1541	128025
170	WASILLA, CITY OF	LAS	5204	128025
171	WHITTIER, CITY OF	LAS	2531	128079
172	WHITTIER, CITY OF	LAS	2532	128079
173	WHITTIER, CITY OF	LAS	2533	128079
174	YAKUTAT, CITY OF	ADL	43340	128153
175	YAKUTAT, CITY OF	LAS	6675	128153

APPENDIX D. 1987 water-use data sorted by SIC codes.

-----SIC CODE=921 WITHDRAWAL TYPE=GROUNDWATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
1	COOK INLET AQUACULTURE ASSOCIATION	LAS	185	365	0.7588	276.9678
2	DIV. ADM. CONTR. & FAC. OFC., DFG	ADL	80511	365	1.6409	598.9402
3	DIV. ADM. CONTR. & FAC. OFC., DFG	ADL	206780	365	3.0532	1114.4198
-----						-----
WTHTYPE						1990.3278

-----SIC CODE=921 WITHDRAWAL TYPE=SURFACE WATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
4	COOK INLET AQUACULTURE ASSOCIATION	ADL	215411	226	3.2942	744.5000
5	DIV. ADMIN. CONTR. & FAC. OFFICE, DFG	ADL	53292	365	5.1861	1892.9199
-----						-----
WTHTYPE						2637.4200
SICCODE						4627.7478

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

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
6	ARCO ALASKA, INC.	ADL	400793	181	0.0681	12.3333
7	ARCO ALASKA, INC.	LAS	2498	30	0.0009	0.0265
8	ARCO ALASKA, INC.	LAS	2761	61	0.0006	0.0343
9	ARCO ALASKA, INC.	LAS	2762	181	0.0187	3.3930
10	ARCO ALASKA, INC.	LAS	2767	90	0.0397	3.5729
11	ARCO ALASKA, INC.	LAS	3348	31	0.0198	0.6144
12	ARCO ALASKA, INC.	LAS	6362	31	0.0426	1.3209
13	ARCO ALASKA, INC.	LAS	10094	122	0.0434	5.2936
14	ARCO ALASKA, INC.	LAS	10094	28	0.0137	0.3837
15	ARCO ALASKA, INC.	LAS	11220	28	0.0048	0.1340
16	ARCO ALASKA, INC.	LAS	11228	151	0.0382	5.7700
17	ARCO ALASKA, INC.	LAS	3348	31	0.0114	0.3520
18	CONOCO, INC.	LAS	2282	13	0.0054	0.0704
19	CONOCO, INC.	LAS	2283	7	0.0075	0.0528
20	CONOCO, INC.	LAS	2285	269	0.0051	1.3743
21	SOHIO	ADL	66117	365	0.0578	21.1090
22	SOHIO	ADL	75979	365	0.0533	19.4366
23	STANDARD ALASKA PRODUCTION CO.	LAS	2915	92	0.0600	5.5230
24	STANDARD ALASKA PRODUCTION CO.	LAS	7611	365	0.0061	2.2229
-----						-----
WTHTYPE						83.0178
SICCODE						83.0178

-----SIC CODE=1629 WITHDRAWAL TYPE=GROUNDWATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
25	ALASKA POWER AUTHORITY	LAS	2838	134	0.0144	1.9359

APPENDIX D. (continued)

-----SIC CODE=2091 WITHDRAWAL TYPE=SURFACE WATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
26	LAGEW, WM. S., OBA TRIDENT SEAFOODS CORP.	ADL	62233	334	0.1457	48.6534
27	TOGIAK FISHERIES	LAS	1681	60	0.0907	5.4441

WTHTYPE						54.0975
SICCODE						54.0975

-----SIC CODE=2092 WITHDRAWAL TYPE=GROUNDWATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
28	FISHERMAN'S PACKING, INC.	LAS	3024	90	0.0698	6.2806

-----SIC CODE=2873 WITHDRAWAL TYPE=GROUNDWATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
29	UNION CHEMICALS DIV, UNOCAL CO.	ADL	42514	365	1.1496	419.6098
30	UNION OIL OF CALIF.	ADL	203480	360	0.5034	181.2240

WTHTYPE						600.8338
SICCODE						600.8338

-----SIC CODE=2911 WITHDRAWAL TYPE=GROUNDWATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
31	TESORO-ALASKAN PETROLEUM COMPANY	ADL	42906	364	0.0086	3.1366
32	TESORO-ALASKAN PETROLEUM COMPANY	ADL	42906	364	0.3978	144.8076
33	UNION OIL COMPANY OF CA.	ADL	78075	365	0.6845	249.8560

WTHTYPE						397.8002
SICCODE						397.8002

-----SIC CODE=4612 WITHDRAWAL TYPE=GROUNDWATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
34	ALYESKA PIPELINE SERVICE COMPANY	ADL	64153	365	0.0048	1.7666
35	ALYESKA PIPELINE SERVICE COMPANY	ADL	401822	365	0.0063	2.3104
36	ALYESKA PIPELINE SERVICE COMPANY	LAS	3355	365	0.0043	1.5691

WTHTYPE						5.6462
SICCODE						5.6462

APPENDIX D. (continued)

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

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
37	ALASKA POWER AUTHORITY	ADL	201559	365	75.0705	27400.7362
38	SITKA, CITY & BOROUGH OF	ADL	100007	365	165.9644	60577.0133
39	U.S. DEPARTMENT OF ENERGY, A.P.-A.	ADL	44944	365	207.7558	75830.8601
-----						-----
WITHTYPE						163808.6095
SICCODE						163808.6095

-----SIC CODE=4941 WITHDRAWAL TYPE=GROUNDWATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
40	ALYESKA UTILITIES, INC.	LAS	1101	365	0.0743	27.1199
41	ANCHORAGE, MUN. (AWMU)	ADL	44197	243	0.0718	17.4384
42	ANCHORAGE, MUN. (AWMU)	ADL	44626	334	0.1453	48.5242
43	ANCHORAGE, MUN. (AWMU)	ADL	44626	334	0.2074	69.2572
44	ANCHORAGE, MUN. (AWMU)	ADL	45127	304	0.0191	5.8088
45	ANCHORAGE, MUN. (AWMU)	ADL	45420	365	0.3952	144.2305
46	ANCHORAGE, MUN. (AWMU)	ADL	50906	334	0.1378	46.0259
47	ANCHORAGE, MUN. (AWMU)	ADL	50907	337	0.4422	149.0190
48	ANCHORAGE, MUN. (AWMU)	ADL	50908	276	0.2145	59.1896
49	ANCHORAGE, MUN. (AWMU)	ADL	50909	365	0.0156	5.7104
50	ANCHORAGE, MUN. (AWMU)	ADL	50920	31	0.0547	1.6943
51	ANCHORAGE, MUN. (AWMU)	ADL	50923	365	0.2991	109.1850
52	ANCHORAGE, MUN. (AWMU)	ADL	50924	365	0.1303	47.5562
53	ANCHORAGE, MUN. (AWMU)	ADL	50926	365	0.0312	11.3920
54	ANCHORAGE, MUN. (AWMU)	ADL	50927	365	0.5591	204.0799
55	ANCHORAGE, MUN. (AWMU)	ADL	51573	334	0.0189	6.3156
56	ANCHORAGE, MUN. (AWMU)	ADL	52514	365	0.0097	3.5504
57	ANCHORAGE, MUN. (AWMU)	ADL	54850	365	1.0852	396.0962
58	ANCHORAGE, MUN. (AWMU)	ADL	54850	365	0.7626	278.3410
59	ANCHORAGE, MUN. (AWMU)	ADL	62222	365	0.5158	188.2601
60	ANCHORAGE, MUN. (AWMU)	ADL	63855	365	0.0287	10.4711
61	ANCHORAGE, MUN. (AWMU)	ADL	65644	365	0.1098	40.0788
62	ANCHORAGE, MUN. (AWMU)	ADL	65787	334	0.1925	64.2790
63	ANCHORAGE, MUN. (AWMU)	ADL	67201	334	0.1533	51.1868
64	ANCHORAGE, MUN. (AWMU)	ADL	73658	273	0.0742	20.2593
65	ANCHORAGE, MUN. (AWMU)	ADL	201555	365	0.6660	243.0893
66	ANCHORAGE, MUN. (AWMU)	ADL	201881	151	0.0141	2.1286
67	ANCHORAGE, MUN. (AWMU)	ADL	201920	365	0.0066	2.3922
68	ANCHORAGE, MUN. (AWMU)	ADL	202997	365	0.2158	78.7579
69	ANCHORAGE, MUN. (AWMU)	ADL	203956	365	0.2995	109.3018
70	ANCHORAGE, MUN. (AWMU)	ADL	209028	365	0.0309	11.2858
71	ANCHORAGE, MUN. (AWMU)	ADL	215028	151	0.0070	1.0581
72	ANCHORAGE, MUN. (AWMU)	LAS	246	365	2.1471	783.6981
73	ANCHORAGE, MUN. (AWMU)	LAS	803	151	0.0126	1.9094
74	ANCHORAGE, MUN. (AWMU)	LAS	907	365	0.1909	69.6770
75	ANCHORAGE, MUN. (AWMU)	LAS	3485	273	0.0058	1.5834
76	ANCHORAGE, MUN. (AWMU)	LAS	11862	365	0.0252	9.1805
77	ANCIENT TREE, INC.	LAS	2372	361	0.0126	4.5598
78	CHEFORNAK, CITY OF	ADL	75891	57	0.0003	0.0197
79	CRESTBROOK WATER ASSOC., INC.	ADL	206632	364	0.0097	3.5206
80	DILLINGHAM, CITY	ADL	46054	365	0.0925	33.7501
81	EKLUTNA UTILITIES, INC.	LAS	1848	367	0.1555	57.0755
82	ELIM, CITY	ADL	75895	365	0.0215	7.8300
83	ERU, INC.	LAS	1059	344	0.0061	2.1142
84	FAIRBANKS MUNICIPAL UTILITY SYSTEM	ADL	53813	123	0.0435	5.3459
85	FAIRBANKS MUNICIPAL UTILITY SYSTEM	ADL	53813	365	2.4388	890.1540
86	FORT YUKON, CITY	LAS	11321	365	0.0159	5.8061
87	HILLSIDE PARK HOMEOWNER'S ASSOCIATION	ADL	202909	366	0.0123	4.5110
88	INDIAN COVE WATER COMPANY	ADL	43117	351	0.0079	2.7729

APPENDIX D. (continued)

-----SIC CODE=4941 WITHDRAWAL TYPE=GROUNDWATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
89	JUNEAU, CITY & BOROUGH OF	ADL	44439	365	1.6342	596.4881
90	JUNEAU, CITY & BOROUGH OF	ADL	100066	365	0.1857	67.7911
91	JUNEAU, CITY & BOROUGH OF	LAS	1942	365	0.9621	351.1508
92	KENAI, CITY OF	ADL	53282	245	0.2574	63.0750
93	KENAI, CITY OF	ADL	53282	334	0.5257	175.5992
94	KLUKWAN, CITY OF	LAS	3864	59	0.0374	2.2039
95	KODIAK, CITY OF	ADL	39797	365	0.4408	160.8986
96	WENANA, CITY OF	ADL	400616	365	0.0341	12.4337
97	NOME, CITY OF	ADL	42993	365	0.4384	159.9999
98	NORFOLK UTILITIES & DEVELOPMENT, INC.	ADL	209576	365	0.1746	63.7210
99	NORTH POLE, CITY OF	ADL	403254	365	0.1444	52.7122
100	NORTH WOODS, INC.	ADL	74176	367	0.0376	13.8135
101	PALMER, CITY OF	ADL	201324	365	0.5189	189.4105
102	SAINT PAUL, CITY OF	LAS	3311	365	0.0609	22.2205
103	SETTLERS BAY PROPERTIES, INC.	ADL	74699	292	0.0002	0.0517
104	SETTLERS BAY PROPERTIES, INC.	ADL	74700	291	0.0043	1.2507
105	SEWARD, CITY OF	ADL	39936	31	0.2525	7.8270
106	SEWARD, CITY OF	ADL	39936	365	0.3904	142.4792
107	SEWARD, CITY OF	ADL	39936	30	0.0913	2.7390
108	SEWARD, CITY OF	ADL	39936	334	0.2520	84.1690
109	SEWARD, CITY OF	ADL	210826	335	0.5731	191.9975
110	SHISHMAREF, CITY OF	ADL	75901	212	0.0017	0.3506
111	SHISHMAREF, CITY OF	ADL	75901	365	0.0025	0.9235
112	SHISHMAREF, CITY OF	ADL	75901	365	0.0014	0.4990
113	SOLDOTNA, CITY OF	ADL	40315	212	0.3669	77.7853
114	SOLDOTNA, CITY OF	ADL	52342	184	0.0229	4.2156
115	SOLDOTNA, CITY OF	ADL	206983	365	0.3089	112.7605
116	SOLDOTNA, CITY OF	LAS	11215	365	0.0009	0.3307
117	TURNER COMPANY	LAS	1270	359	0.0005	0.1888
118	VALDEZ, CITY OF	ADL	46360	142	0.4390	62.3340
119	VALDEZ, CITY OF	ADL	46360	359	0.6972	250.2959
120	VALDEZ, CITY OF	ADL	209799	359	0.6387	229.2771
121	VALDEZ, CITY OF	LAS	2698	324	0.0676	21.9089
122	VALDEZ, CITY OF	LAS	2699	362	0.0179	6.4664
123	VALDEZ, CITY OF	LAS	2700	364	0.3815	138.8591
124	VALLI VUE ESTATES SUBDIVISION	LAS	11222	59	0.0490	2.8889
125	WASILLA, CITY OF	ADL	209104	365	0.1783	65.0737
126	WASILLA, CITY OF	LAS	1141	365	0.0073	2.6802
127	WASILLA, CITY OF	LAS	1541	365	0.0008	0.3099
128	WASILLA, CITY OF	LAS	5204	275	0.0943	25.9421
129	WHITTIER, CITY OF	LAS	2531	184	0.4500	82.8000
130	WHITTIER, CITY OF	LAS	2532	184	0.2160	39.7440
131	WHITTIER, CITY OF	LAS	2533	184	0.2592	47.6928
132	YAKUTAT, CITY OF	ADL	43340	365	0.0448	16.3662
133	YAKUTAT, CITY OF	LAS	6675	183	0.0038	0.6932
-----						7889.0100
WITHTYPE						

APPENDIX D. (continued)

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

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
134	ALAKANUK, VILLAGE OF	LAS	11267	120	0.0093	1.1164
135	ALAKANUK, VILLAGE OF	LAS	11267	120	0.0042	0.5098
136	ALAKANUK, VILLAGE OF	LAS	11267	120	0.0029	0.3503
137	ALAKANUK, VILLAGE OF	LAS	11267	120	0.0002	0.0277
138	ALAKANUK, VILLAGE OF	LAS	11267	31	0.0025	0.0774
139	CRAIG, CITY	ADL	62346	365	0.2076	75.7871
140	EEK, CITY	LAS	11320	365	0.0022	0.8048
141	GRAYLING, CITY OF	ADL	75908	365	0.0140	5.1053
142	GRAYLING, CITY OF	ADL	75908	365	0.0083	3.0426
143	HOMER, CITY	ADL	57850	365	0.4229	154.3716
144	HOONAH, CITY	LAS	897	365	0.2917	106.4752
145	KASAAH, CITY OF	LAS	11329	121	0.0269	3.2551
146	KETCHIKAN, CITY OF	ADL	48794	365	3.2893	1200.5989
147	KETCHIKAN, CITY OF	ADL	48795	319	1.3424	428.2310
148	KING COVE, CITY OF	ADL	42595	365	0.3061	111.7181
149	KODIAK, CITY OF	LAS	1145	365	2.5741	939.5509
150	KODIAK, CITY OF	LAS	1257	365	0.8301	303.0000
151	KOTZEBUE, CITY OF	ADL	401827	365	0.2971	108.4583
152	MCGRATH, CITY	LAS	969	365	0.0274	10.0174
153	NOORVIK, CITY OF	ADL	75902	365	0.0059	2.1455
154	PETERSBURG, CITY OF	LAS	6550	365	0.8696	317.4219
155	PORT LIONS, CITY OF	ADL	39835	365	0.0846	30.8925
156	QUINHAGAK, CITY OF	LAS	11322	395	0.0052	2.0350
157	SAINT MICHAEL, CITY	ADL	76070	243	0.0007	0.1628
158	SAND POINT, CITY OF	LAS	11795	365	0.1801	65.7343
159	SAXMAN, CITY OF	ADL	44121	363	0.0394	14.3066
160	SCAMMON BAY, CITY OF	ADL	46364	365	0.0005	0.1734
161	SITKA, CITY & BOROUGH OF	ADL	51543	365	4.2698	1558.4730
162	SOUTHPARK TERRACE HOMEOWNERS ASSOCIATION	ADL	209628	370	0.0254	9.4128
163	TATITLEK, VILLAGE OF	ADL	76071	365	0.0002	0.0697
164	THORNE BAY, CITY OF	LAS	11465	303	0.0044	1.3359
165	UNALAKLEET, CITY OF	LAS	11323	365	0.0727	26.5399
166	WALES, CITY OF	LAS	11324	59	0.0010	0.0617
-----						5481.2630
WTHTYPE						13370.2730
SICCODE						

-----SIC CODE=6512 WITHDRAWAL TYPE=GROUNDWATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
167	JOHNSON ENTERPRISES	LAS	2082	112	0.0005	0.0551

-----SIC CODE=7542 WITHDRAWAL TYPE=GROUNDWATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
168	WALTER P. ORTNER	LAS	2102	365	0.0017	0.6154

APPENDIX D. (continued)

-----SIC CODE=7992 WITHDRAWAL TYPE=GROUNDWATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
169	SETTLERS BAY PROPERTIES, INC.	ADL	74700	80	0.0043	0.3406

-----SIC CODE=7997 WITHDRAWAL TYPE=GROUNDWATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
170	SOLDOTNA, CITY OF	ADL	214896	365	0.0242	8.8381

-----SIC CODE=7999 WITHDRAWAL TYPE=GROUNDWATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
171	ALASKA ZOO	LAS	3260	371	0.0022	0.8080
172	ALASKA ZOO	LAS	3261	371	0.0028	1.0503
173	USDA/FS, CHUGACH NATIONAL FOREST	LAS	5036	257	0.0017	0.4330
-----						-----
WITHTYPE						2.2914
SICCODE						2.2914

-----SIC CODE=8211 WITHDRAWAL TYPE=GROUNDWATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
174	ANCHORAGE SCHOOL DISTRICT	LAS	563	206	0.0011	0.2182
175	ANCHORAGE SCHOOL DISTRICT	LAS	636	191	0.0174	3.3310
-----						-----
WITHTYPE						3.5492
SICCODE						3.5492
						=====
						182971.9322

APPENDIX E. 1987 water-use data sorted by hydrologic unit.

-----HYDROLOGIC UNIT=11 WITHTYPE=GROUNDWATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
1	ALYESKA PIPELINE SERVICE COMPANY	ADL	64153	365	0.0048	1.7666
2	ALYESKA PIPELINE SERVICE COMPANY	LAS	3355	365	0.0043	1.5691

WITHTYPE						3.3357

-----HYDROLOGIC UNIT=11 WITHTYPE=SURFACE WATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
3	ARCO ALASKA, INC.	ADL	400793	181	0.0681	12.3333
4	ARCO ALASKA, INC.	LAS	2498	30	0.0009	0.0265
5	ARCO ALASKA, INC.	LAS	2761	61	0.0006	0.0343
6	ARCO ALASKA, INC.	LAS	2762	181	0.0187	3.3930
7	ARCO ALASKA, INC.	LAS	2767	90	0.0397	3.5729
8	ARCO ALASKA, INC.	LAS	3348	31	0.0198	0.6144
9	ARCO ALASKA, INC.	LAS	6362	31	0.0426	1.3209
10	ARCO ALASKA, INC.	LAS	10094	122	0.0434	5.2936
11	ARCO ALASKA, INC.	LAS	10094	28	0.0137	0.3837
12	ARCO ALASKA, INC.	LAS	11220	28	0.0048	0.1340
13	ARCO ALASKA, INC.	LAS	11228	151	0.0382	5.7700
14	ARCO ALASKA, INC.	LAS	3348	31	0.0114	0.3520
15	CONOCO, INC.	LAS	2282	13	0.0054	0.0704
16	CONOCO, INC.	LAS	2283	7	0.0075	0.0528
17	CONOCO, INC.	LAS	2285	269	0.0051	1.3743
18	SOHIO	ADL	66117	365	0.0578	21.1090
19	SOHIO	ADL	75979	365	0.0533	19.4366
20	STANDARD ALASKA PRODUCTION CO.	LAS	2915	92	0.0600	5.5230
21	STANDARD ALASKA PRODUCTION CO.	LAS	7611	365	0.0061	2.2229

WITHTYPE						83.0178
HYDRUNIT						86.3535

-----HYDROLOGIC UNIT=21 WITHTYPE=GROUNDWATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
22	SHISHMAREF, CITY OF	ADL	75901	212	0.0017	0.3506
23	SHISHMAREF, CITY OF	ADL	75901	365	0.0025	0.9235
24	SHISHMAREF, CITY OF	ADL	75901	365	0.0014	0.4990

WITHTYPE						1.7731

-----HYDROLOGIC UNIT=21 WITHTYPE=SURFACE WATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
25	KOTZEBUE, CITY OF	ADL	401827	365	0.2971	108.4583
26	NOORVIK, CITY OF	ADL	75902	365	0.0059	2.1455

WITHTYPE						110.6038
HYDRUNIT						112.3768

APPENDIX E. (continued)

-----HYDROLOGIC UNIT=22 WITHTYPE=GROUNDWATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
27	ELIM, CITY	ADL	75895	365	0.0215	7.8300
28	WOME, CITY OF	ADL	42993	365	0.4384	159.9999
-----						-----
WITHTYPE						167.8299

-----HYDROLOGIC UNIT=22 WITHTYPE=SURFACE WATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
29	SAINT MICHAEL, CITY	ADL	76070	243	0.0007	0.1628
30	UNALAKLEET, CITY OF	LAS	11323	365	0.0727	26.5399
31	WALES, CITY OF	LAS	11324	59	0.0010	0.0617
-----						-----
WITHTYPE						26.7644
HYDRUNIT						194.5943

-----HYDROLOGIC UNIT=32 WITHTYPE=GROUNDWATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
32	FORT YUKON, CITY	LAS	11321	365	0.0159	5.8061

-----HYDROLOGIC UNIT=34 WITHTYPE=GROUNDWATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
33	FAIRBANKS MUNICIPAL UTILITY SYSTEM	ADL	53813	123	0.0435	5.3459
34	FAIRBANKS MUNICIPAL UTILITY SYSTEM	ADL	53813	365	2.4388	890.1540
35	WENANA, CITY OF	ADL	400616	365	0.0341	12.4337
36	NORTH POLE, CITY OF	ADL	403254	365	0.1444	52.7122
-----						-----
WITHTYPE						960.6458
HYDRUNIT						960.6458

-----HYDROLOGIC UNIT=35 WITHTYPE=GROUNDWATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
37	ALYESKA PIPELINE SERVICE COMPANY	ADL	401822	365	0.0063	2.3104

APPENDIX E. (continued)

-----HYDROLOGIC UNIT=36 WITHTYPE=SURFACE WATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
38	ALAKANUK, VILLAGE OF	LAS	11267	120	0.0093	1.1164
39	ALAKANUK, VILLAGE OF	LAS	11267	120	0.0042	0.5098
40	ALAKANUK, VILLAGE OF	LAS	11267	120	0.0029	0.3503
41	ALAKANUK, VILLAGE OF	LAS	11267	120	0.0002	0.0277
42	ALAKANUK, VILLAGE OF	LAS	11267	31	0.0025	0.0774
43	GRAYLING, CITY OF	ADL	75908	365	0.0140	5.1053
44	GRAYLING, CITY OF	ADL	75908	365	0.0083	3.0426
45	SCAMMON BAY, CITY OF	ADL	46364	365	0.0005	0.1734
-----						-----
WITHTYPE						10.4028
HYDRUNIT						10.4028

-----HYDROLOGIC UNIT=41 WITHTYPE=GROUNDWATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
46	CHEFORMAK, CITY OF	ADL	75891	57	0.0003	0.0197

-----HYDROLOGIC UNIT=41 WITHTYPE=SURFACE WATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
47	EEK, CITY	LAS	11320	365	0.0022	0.8048
48	MCGRATH, CITY	LAS	969	365	0.0274	10.0174
49	QUINHAGAK, CITY OF	LAS	11322	395	0.0052	2.0350
-----						-----
WITHTYPE						12.8573
HYDRUNIT						12.8770

-----HYDROLOGIC UNIT=42 WITHTYPE=GROUNDWATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
50	DILLINGHAM, CITY	ADL	46054	365	0.0925	33.7501

-----HYDROLOGIC UNIT=42 WITHTYPE=SURFACE WATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
51	TOGTAK FISHERIES	LAS	1681	60	0.0907	5.4441
-----						-----
HYDRUNIT						39.1942

-----HYDROLOGIC UNIT=43 WITHTYPE=SURFACE WATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
52	KING COVE, CITY OF	ADL	42595	365	0.3061	111.7181
53	LAGEN, WM. S., DBA TRIDENT SEAFOODS CORP.	ADL	62233	334	0.1457	48.6534
54	SAND POINT, CITY OF	LAS	11795	365	0.1801	65.7343
-----						-----
WITHTYPE						226.1059
HYDRUNIT						226.1059

APPENDIX E. (continued)

-----HYDROLOGIC UNIT=44 WITHTYPE=GROUNDWATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
55	SAINT PAUL, CITY OF	LAS	3311	365	0.0609	22.2205

-----HYDROLOGIC UNIT=51 WITHTYPE=GROUNDWATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
56	KODIAK, CITY OF	ADL	39797	365	0.4408	160.8986

-----HYDROLOGIC UNIT=51 WITHTYPE=SURFACE WATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
57	ALASKA POWER AUTHORITY	ADL	201559	365	75.0705	27400.7362
58	KODIAK, CITY OF	LAS	1145	365	2.5741	939.5509
59	KODIAK, CITY OF	LAS	1257	365	0.8301	303.0000
60	PORT LIONS, CITY OF	ADL	39835	365	0.0846	30.8925
WITHTYPE						28674.1795
HYDRUNIT						28835.0781

-----HYDROLOGIC UNIT=52 WITHTYPE=GROUNDWATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
61	ANCIENT TREE, INC.	LAS	2372	361	0.0126	4.5598
62	JOHNSON ENTERPRISES	LAS	2082	112	0.0005	0.0551
63	SETTLERS BAY PROPERTIES, INC.	ADL	74699	292	0.0002	0.0517
64	SETTLERS BAY PROPERTIES, INC.	ADL	74700	291	0.0043	1.2507
65	SETTLERS BAY PROPERTIES, INC.	ADL	74700	80	0.0043	0.3406
66	WASILLA, CITY OF	ADL	209104	365	0.1783	65.0737
67	WASILLA, CITY OF	LAS	1141	365	0.0073	2.6802
68	WASILLA, CITY OF	LAS	1541	365	0.0008	0.3099
69	WASILLA, CITY OF	LAS	5204	275	0.0943	25.9421
WITHTYPE						100.2638
HYDRUNIT						100.2638

-----HYDROLOGIC UNIT=53 WITHTYPE=GROUNDWATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
70	ALASKA POWER AUTHORITY	LAS	2838	134	0.0144	1.9359
71	ALASKA ZOO	LAS	3260	371	0.0022	0.8080
72	ALASKA ZOO	LAS	3261	371	0.0028	1.0503
73	ALYESKA UTILITIES, INC.	LAS	1101	365	0.0743	27.1199
74	ANCHORAGE SCHOOL DISTRICT	LAS	563	206	0.0011	0.2182
75	ANCHORAGE SCHOOL DISTRICT	LAS	636	191	0.0174	3.3310
76	ANCHORAGE, MUN. (AWWJ)	ADL	44197	243	0.0718	17.4384
77	ANCHORAGE, MUN. (AWWJ)	ADL	44626	334	0.1453	48.5242
78	ANCHORAGE, MUN. (AWWJ)	ADL	44626	334	0.2074	69.2572
79	ANCHORAGE, MUN. (AWWJ)	ADL	45127	304	0.0191	5.8088
80	ANCHORAGE, MUN. (AWWJ)	ADL	45420	365	0.3952	144.2305
81	ANCHORAGE, MUN. (AWWJ)	ADL	50906	334	0.1378	46.0259
82	ANCHORAGE, MUN. (AWWJ)	ADL	50907	337	0.4422	149.0190
83	ANCHORAGE, MUN. (AWWJ)	ADL	50908	276	0.2145	59.1896
84	ANCHORAGE, MUN. (AWWJ)	ADL	50909	365	0.0156	5.7104
85	ANCHORAGE, MUN. (AWWJ)	ADL	50920	31	0.0547	1.6943
86	ANCHORAGE, MUN. (AWWJ)	ADL	50923	365	0.2991	109.1850

APPENDIX E. (continued)

-----HYDROLOGIC UNIT=53 WITHTYPE=GROUNDWATER-----						
OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
87	ANCHORAGE, MUN. (AWMU)	ADL	50924	365	0.1303	47.5562
88	ANCHORAGE, MUN. (AWMU)	ADL	50926	365	0.0312	11.3920
89	ANCHORAGE, MUN. (AWMU)	ADL	50927	365	0.5591	204.0799
90	ANCHORAGE, MUN. (AWMU)	ADL	51573	334	0.0189	6.3156
91	ANCHORAGE, MUN. (AWMU)	ADL	52514	365	0.0097	3.5504
92	ANCHORAGE, MUN. (AWMU)	ADL	54850	365	1.0852	396.0962
93	ANCHORAGE, MUN. (AWMU)	ADL	54850	365	0.7626	278.3410
94	ANCHORAGE, MUN. (AWMU)	ADL	62222	365	0.5158	188.2601
95	ANCHORAGE, MUN. (AWMU)	ADL	63855	365	0.0287	10.4711
96	ANCHORAGE, MUN. (AWMU)	ADL	65644	365	0.1098	40.0788
97	ANCHORAGE, MUN. (AWMU)	ADL	65787	334	0.1925	64.2790
98	ANCHORAGE, MUN. (AWMU)	ADL	67201	334	0.1533	51.1868
99	ANCHORAGE, MUN. (AWMU)	ADL	73658	273	0.0742	20.2593
100	ANCHORAGE, MUN. (AWMU)	ADL	201555	365	0.6660	243.0893
101	ANCHORAGE, MUN. (AWMU)	ADL	201881	151	0.0141	2.1286
102	ANCHORAGE, MUN. (AWMU)	ADL	201920	365	0.0066	2.3922
103	ANCHORAGE, MUN. (AWMU)	ADL	202997	365	0.2158	78.7579
104	ANCHORAGE, MUN. (AWMU)	ADL	203956	365	0.2995	109.3018
105	ANCHORAGE, MUN. (AWMU)	ADL	209828	365	0.0309	11.2858
106	ANCHORAGE, MUN. (AWMU)	ADL	215028	151	0.0070	1.0581
107	ANCHORAGE, MUN. (AWMU)	LAS	246	365	2.1471	783.6981
108	ANCHORAGE, MUN. (AWMU)	LAS	803	151	0.0126	1.9094
109	ANCHORAGE, MUN. (AWMU)	LAS	907	365	0.1909	69.6770
110	ANCHORAGE, MUN. (AWMU)	LAS	3485	273	0.0058	1.5834
111	ANCHORAGE, MUN. (AWMU)	LAS	11862	365	0.0252	9.1805
112	COOK INLET AQUACULTURE ASSOCIATION	LAS	185	365	0.7588	276.9678
113	CRESTBROOK WATER ASSOC., INC.	ADL	206632	364	0.0097	3.5206
114	DIV. ADM. CONTR. & FAC. OFC., DFG	ADL	80511	365	1.6409	598.9402
115	DIV. ADM. CONTR. & FAC. OFC., DFG	ADL	206780	365	3.0532	1114.4198
116	EKLUTNA UTILITIES, INC.	LAS	1848	367	0.1555	57.0755
117	ERU, INC.	LAS	1059	344	0.0061	2.1142
118	HILLSIDE PARK HOMEOWNER'S ASSOCIATION	ADL	202909	366	0.0123	4.5110
119	KENAI, CITY OF	ADL	53282	245	0.2574	63.0750
120	KENAI, CITY OF	ADL	53282	334	0.5257	175.5992
121	NORFOLK UTILITIES & DEVELOPMENT, INC.	ADL	209576	365	0.1746	63.7210
122	NORTH WOODS, INC.	ADL	74176	367	0.0376	13.8135
123	PALMER, CITY OF	ADL	201324	365	0.5189	189.4105
124	SOLDOTNA, CITY OF	ADL	40315	212	0.3669	77.7853
125	SOLDOTNA, CITY OF	ADL	52342	184	0.0229	4.2156
126	SOLDOTNA, CITY OF	ADL	206983	365	0.3089	112.7605
127	SOLDOTNA, CITY OF	ADL	214896	365	0.0242	8.8381
128	SOLDOTNA, CITY OF	LAS	11215	365	0.0009	0.3307
129	TESORO-ALASKAN PETROLEUM COMPANY	ADL	42906	364	0.0086	3.1366
130	TESORO-ALASKAN PETROLEUM COMPANY	ADL	42906	364	0.3978	144.8076
131	TURNER COMPANY	LAS	1270	359	0.0005	0.1888
132	UNION CHEMICALS DIV, UNOCAL CO.	ADL	42514	365	1.1496	419.6098
133	UNION OIL COMPANY OF CA.	ADL	78075	365	0.6845	249.8560
134	UNION OIL OF CALIF.	ADL	203480	360	0.5034	181.2240
135	USDA/FS, CHUGACH NATIONAL FOREST	LAS	5036	257	0.0017	0.4330
136	VALLI VJE ESTATES SUBDIVISION	LAS	11222	59	0.0490	2.8889
137	WALTER P. ORTNER	LAS	2102	365	0.0017	0.6154
-----						7096.3339
WITHTYPE						

APPENDIX E. (continued)

-----HYDROLOGIC UNIT=53 WITHTYPE=SURFACE WATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
138	COOK INLET AQUACULTURE ASSOCIATION	ADL	215411	226	3.2942	744.5000
139	DIV. ADMIN. CONTR. & FAC. OFFICE, DFG	ADL	53292	365	5.1861	1892.9199
140	HOMER, CITY	ADL	57850	365	0.4229	154.3716
141	SOUTHPARK TERRACE HOMEOWNERS ASSOCIATION	ADL	209628	370	0.0254	9.4128
142	U.S. DEPARTMENT OF ENERGY, A.P.A.	ADL	44944	365	207.7558	75830.8601

WITHTYPE						78632.0645
HYDRUNIT						85728.3983

-----HYDROLOGIC UNIT=54 WITHTYPE=GROUNDWATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
143	FISHERMAN'S PACKING, INC.	LAS	3024	90	0.0698	6.2806
144	SEWARD, CITY OF	ADL	39936	31	0.2525	7.8270
145	SEWARD, CITY OF	ADL	39936	365	0.3904	142.4792
146	SEWARD, CITY OF	ADL	39936	30	0.0913	2.7390
147	SEWARD, CITY OF	ADL	39936	334	0.2520	84.1690
148	SEWARD, CITY OF	ADL	210826	335	0.5731	191.9975
149	VALDEZ, CITY OF	ADL	46360	142	0.4390	62.3340
150	VALDEZ, CITY OF	ADL	46360	359	0.6972	250.2959
151	VALDEZ, CITY OF	ADL	209799	359	0.6387	229.2771
152	VALDEZ, CITY OF	LAS	2698	324	0.0676	21.9089
153	VALDEZ, CITY OF	LAS	2699	362	0.0179	6.4664
154	VALDEZ, CITY OF	LAS	2700	364	0.3815	138.8591
155	WHITTIER, CITY OF	LAS	2531	184	0.4500	82.8000
156	WHITTIER, CITY OF	LAS	2532	184	0.2160	39.7440
157	WHITTIER, CITY OF	LAS	2533	184	0.2592	47.6928

WITHTYPE						1314.8705

-----HYDROLOGIC UNIT=54 WITHTYPE=SURFACE WATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
158	TATITLEK, VILLAGE OF	ADL	76071	365	0.0002	0.0697

HYDRUNIT						1314.9403

-----HYDROLOGIC UNIT=61 WITHTYPE=GROUNDWATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
159	YAKUTAT, CITY OF	ADL	43340	365	0.0448	16.3662
160	YAKUTAT, CITY OF	LAS	6675	183	0.0038	0.6932

WITHTYPE						17.0594
HYDRUNIT						17.0594

APPENDIX E. (continued)

-----HYDROLOGIC UNIT=62 WITHTYPE=GROUNDWATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
161	INDIAN COVE WATER COMPANY	ADL	43117	351	0.0079	2.7729
162	JUNEAU, CITY & BOROUGH OF	ADL	44439	365	1.6342	596.4881
163	JUNEAU, CITY & BOROUGH OF	ADL	100066	365	0.1857	67.7911
164	JUNEAU, CITY & BOROUGH OF	LAS	1942	365	0.9621	351.1508
165	KLUKWAN, CITY OF	LAS	3864	59	0.0374	2.2039

WITHTYPE						1020.4068
HYDRUNIT						1020.4068

-----HYDROLOGIC UNIT=63 WITHTYPE=SURFACE WATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
166	PETERSBURG, CITY OF	LAS	6550	365	0.8696	317.4219

-----HYDROLOGIC UNIT=64 WITHTYPE=SURFACE WATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
167	KETCHIKAN, CITY OF	ADL	48794	365	3.2893	1200.5989
168	KETCHIKAN, CITY OF	ADL	48795	319	1.3424	428.2310
169	SAXMAN, CITY OF	ADL	44121	363	0.0394	14.3066

WITHTYPE						1643.1365
HYDRUNIT						1643.1365

-----HYDROLOGIC UNIT=66 WITHTYPE=SURFACE WATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
170	HOONAH, CITY	LAS	897	365	0.2917	106.4752
171	SITKA, CITY & BOROUGH OF	ADL	51543	365	4.2698	1558.4730
172	SITKA, CITY & BOROUGH OF	ADL	100007	365	165.9644	60577.0133

WITHTYPE						62241.9615
HYDRUNIT						62241.9615

-----HYDROLOGIC UNIT=67 WITHTYPE=SURFACE WATER-----

OBS	FAC_NAME	TYPE	NUMBER	DAYS	DAILYAVG	MG_YEAR
173	CRAIG, CITY	ADL	62346	365	0.2076	75.7871
174	KASAAN, CITY OF	LAS	11329	121	0.0269	3.2551
175	THORNE BAY, CITY OF	LAS	11465	303	0.0044	1.3359

WITHTYPE						80.3782
HYDRUNIT						80.3782
						=====
						182971.9322

APPENDIX F. Standard Industrial Classification (SIC) code listing.

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
 - 0218 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 Svcs. Farm Livestock
 - 0752 Animal Speciality Services
 - 0780 Landscape & Horticultural Svcs.
 - 0781 Landscape Counseling & Planning
 - 0782 Lawn & Garden Services
- 0800 **Forestry**
 - 0820 Forest Nurseries
 - 0850 Forest Services
- 0900 **Fishing, Hunting, & Trapping**
 - 0910 Fish Buyer
 - 0911 Commercial Fishing
 - 0912 Finfish
 - 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
 - 1099 Metal Ores, nec.
- 1100 **Anthracite Mining**
- 1200 **Bituminous Coal & Lignite Mining**
- 1300 **Oil & Gas Extraction**
 - 1310 Crude Petroleum & Natural Gas
 - 1320 Natural Gas Liquids
 - 1350 Oil & Gas Field Services
 - 1381 Drilling Oil & Gas Wells
 - 1382 Oil & Gas Exploration Services
 - 1389 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
 - 1490 Misc. Nonmetallic Minerals
 - 1499 Nonmetallic Minerals, nec.

DIVISION C. CONSTRUCTION

- 1500 **General Building Contractors**
 - 1520 Residential Bldg. Construction
 - 1522 Residential Construction, nec.
 - 1530 Operative Builders
 - 1540 Nonresidential Bldg. Construction
 - 1542 Nonresidential Construction, nec.
- 1600 **Heavy Construction Contractors**
 - 1610 Highway & Street Construction
 - 1620 Heavy Construction, Except Highway
 - 1622 Bridge, Tunnel, & Elevated Highway
 - 1623 Water, Sewer, & Utility Lines
 - 1629 Heavy Construction, nec.

1700 Special Trade Contractors

- 1710 Plumbing, Heating, Air Conditioning
- 1720 Painting, Paper Hanging, Decorating
- 1730 Electrical Work
- 1740 Masonry, Stonework, & Plastering
- 1750 Carpentering & Flooring
- 1751 Carpentering
- 1752 Floor Laying & Floor Work, nec.
- 1760 Roofing & Sheet Metal Work
- 1770 Concrete Work
- 1780 Water Well Drilling
- 1790 Misc. Special Trade Contractors
- 1799 Special Trade Contractors, 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
 - 2099 Food Preparations, nec.
- 2100 **Tobacco Manufacturers**
- 2200 **Textile Mill Products**
 - 2210 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 & Planning Mills
 - 2430 Millwork, Plywood, Structural
 - 2440 Wood Containers
 - 2450 Wood Buildings & Mobile Homes
 - 2451 Mobile Homes
 - 2452 Prefabricated Wood Buildings
 - 2490 Misc. Wood Products
 - 2499 Wood Products, nec.
- 2500 **Furniture & Fixtures**
 - 2510 Household Furniture
 - 2520 Office Furniture
 - 2540 Partitions & Fixtures
 - 2590 Misc. Furniture & Fixtures
 - 2599 Furniture & Fixtures, nec.
- 2600 **Paper & Allied Products**
 - 2610 Pulp 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
 - 2731 Book Publishing
 - 2732 Book Printing
 - 2740 Miscellaneous Publishing
 - 2750 Commercial Printing
 - 2760 Manifold Business Forms
 - 2790 Printing Trade Services
- 2800 **Chemicals and Like 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

- 2900 **Petroleum and Coal Products**
 - 2910 Petroleum Refining
 - 2950 Paving & Roofing Material
 - 2990 Misc. Petroleum & Coal Products

- 3000 **Rubber & Misc. Plastics Products**
 - 3070 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 Gloves & Mittens
 - 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
 - 3790 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 & Lapidary Work
 - 3930 Musical Instruments
 - 3940 Toys & Sporting Goods
 - 3960 Costume Jewelry & Notions
 - 3990 Misc. Manufactures

DIVISION E. TRANSPORTATION & PUBLIC UTILITIES

4000 Railroad Transportation

- 4100 **Local & Interurban Passenger Transit**
 - 4110 Local & Suburban Transportation
 - 4120 Taxicabs
 - 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
 - 4454 Towing & Tugboat Service
 - 4459 Local Water Transportation, nec.
 - 4460 Water Transportation Services
 - 4463 Marine Cargo Handling
 - 4469 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.

APPENDIX F. (continued)

4700 Transportation Services	5961 Mail Order Houses	7800 Motion Pictures
4712 Freight Forwarding	5963 Direct Selling Organizations	7810 Motion Picture Production & Services
4720 Transportation Arrangement	5983 Fuel Oil Dealers	7813 Motion Picture Production, except TV
4780 Misc. Transportation Services	5984 Liquefied Petroleum Gas Dealers	7814 Motion Picture Production for TV
	5992 Florists	7819 Services Allied to Motion Pictures
4800 Communication	5993 Cigar Stores & Stands	7820 Motion Picture Dist. & Services
4810 Telephone Communication	5994 News Dealers & Newsstands	7830 Motion Picture Theaters
4820 Telegraph Communication	5999 Misc. Retail Stores, Nec.	7833 Drive-In Motion Picture Theaters
4832 Radio Broadcasting		
4833 TV Broadcasting	DIVISION H. FINANCE, INSURANCE, & REAL ESTATE	
4899 Communication Service, nec.		
4900 Electric, Gas & Sanitary Services	6000 Banking	7900 Amusement & Recreation Services
4911 Electric Services	6010 Federal Reserve Banks	7910 Dance Halls, Studios, & Schools
4920 Gas Production & Distribution	6020 Commercial & Stock Savings Banks	7920 Producers, Orchestras, Entertainers
4930 Combination Utility Services	6022 State Banks, Federal Reserve	7929 Entertainers & Entertainment Groups
4940 Water Supply	6025 National Banks, Federal Reserve	7932 Billiard, Pool Establishments
4950 Sanitary Services	6030 Mutual Savings Banks	7933 Bowling Alleys
4952 Sewerage Systems	6040 Trust Companies, Nondeposit	7940 Commercial Sports
4953 Refuse Systems	6050 Functions Closely Related to Banking	7990 Misc. Amusement, Recreational Svcs.
		7993 Coin-op Amusement Devices
DIVISION F. WHOLESALE TRADE		
5000 Wholesale Trade Durable Goods	6100 Credit Agencies Other Than Banks	8000 Health Services
5010 Motor Vehicles & Auto Equipment	6110 Redcounting & Financing Institutions	8010 Offices of Physicians
5013 Automotive Parts & Supplies	6120 Savings & Loan Associations	8020 Offices of Dentists
5014 Tires & Tubes	6130 Agricultural Credit Institutions	8030 Offices of Osteopathic Physicians
5020 Furniture & Home furnishings	6140 Personal Credit Institutions	8040 Offices of Other Health Practitioners
5030 Lumber & Related Products	6150 Business Credit Institutions	8041 Offices of Chiropractors
5040 Sporting Goods, Toys & Hobby Goods	6160 Mortgage Bankers & Brokers	8042 Offices of Optometrists
5060 Electrical Goods	6200 Security, Commodity Brokers & Services	8049 Offices of Health Practitioners, nec
5070 Hardware, Plumbing & Heating Equip	6300 Insurance Carriers	8050 Nursing & Personal Care Facilities
5080 Machinery, Equipment, & Supplies	6310 Life Insurance	8050 Hospitals
5090 Misc. Durable Goods	6320 Medical Service & Health Insurance	8062 General Medical & Surgical Hospitals
5094 Jewelry, Watches, & Precious Stones	6330 Fire, Marine, & Casualty Insurance	8063 Psychiatric Hospitals
5099 Durable Goods, nec.	6350 Surety Insurance	8069 Specialty Hospitals, exc. Psych
	6360 Title Insurance	8070 Medical & Dental Laboratories
5100 Wholesale Trade-Nondurable Goods	6370 Pension, Health, & Welfare Funds	8071 Medical Laboratories
5110 Paper & Paper Products	6390 Insurance Carriers, nec.	8072 Dental Laboratories
5122 Drugs, Proprietarys, & Sundries	6400 Insurance Agents, Brokers & Service	8080 Outpatient Care Facilities
5130 Apparel, Piece Goods, & Notions		8090 Health & Allied Services, nec
5140 Groceries & Related Products	6500 Real Estate	8100 Legal Services
5150 Farm-Products Raw Materials	6510 Real Estate Operators & Lessors	8200 Educational Services
5160 Chemicals & Allied Products	6512 Nonresidential Building Operators	8210 Elementary & Secondary Schools
5170 Petroleum & Petroleum Products	6513 Apartment Building Operators	8220 Colleges & Universities
5180 Beer, Wine, & Distilled Beverages	6514 Dwelling Operators, exc. Apt.	8230 Libraries & Information Centers
5190 Misc. Nondurable Goods	6515 Mobile Home Site Operators	8241 Correspondence Schools
	6530 Real Estate Agents Managers	8243 Data Processing Schools
	6540 Title Abstract Offices	8244 Business & Secretarial Schools
	6550 Subdividers & Developers	8249 Vocational Schools, nec.
DIVISION G. RETAIL TRADE		
5200 Building Materials & Garden Supplies	6600 Combined Real Estate, Insurance, etc.	8300 Social Services
5210 Lumber & Other Building Materials	6700 Holding & Other Investment Offices	8320 Individual & Family Services
5230 Paint, Glass, & Wallpaper Stores	6710 Holding Offices	8330 Job Training & Related Services
5250 Hardware Stores	6720 Investment Offices	8350 Child Day Care Services
5260 Retail Nurseries & Garden Stores	6730 Trusts	8399 Social Services, nec.
5270 Mobile Home Dealers	6790 Misc. Investing	
5300 General Merchandise Stores	DIVISION I. SERVICES	8400 Museums, Botanical, Zoological Gardens
5310 Department Stores	7000 Hotels, & Other Lodging Places	8600 Membership Organizations
5330 Variety Stores	7010 Hotels, Motels, & Tourist Courts	8610 Business Associations
5399 Misc. General Merchandise Stores	7020 Rooming & Boarding Houses	8620 Professional Associations
	7030 Camps & Trailer Parks	8630 Labor Organizations
5400 Food Stores	7200 Personal Services	8640 Civic & Social Associations
5410 Grocery Stores	7210 Laundry, Cleaning, & Garment Svcs	8650 Political Organizations
5420 Meat Markets & Freezer Provisioners	7215 Coin-op Laundry & Cleaning	8660 Religious Organizations
5430 Fruit Stores & Vegetables Markets	7216 Dry Cleaning Plants, except Rug	
5440 Candy, Nut & Confectionary Stores	7217 Carpet & Upholstery Cleaning	8800 Private Households
5450 Dairy Products Stores	7220 Photo Studios, Portrait	8900 Miscellaneous Services
5460 Retail Bakeries	7230 Beauty Shops	8910 Engineering & Architectural Svcs.
5499 Misc. Food Stores	7240 Barber Shops	8920 Noncommercial Research Organizations
	7250 Shoe Repair	8930 Accounting, Auditing & Bookkeeping
5500 Automotive Dealers & Service Stations	7260 Funeral Service & Crematories	8999 Services, nec.
5510 New & Used Car Dealers	7299 Misc. Personal Services	
5520 Used Car Dealers		DIVISION J. PUBLIC ADMINISTRATION
5530 Auto & Home Supply Stores	7300 Business Services	9100 Executive Legislative, & General
5540 Gas Service Stations	7310 Advertising	9200 Justice, Public Order, & Safety
5550 Boat Dealers	7320 Credit Reporting & Collection	9300 Finance, Taxation & Monetary Policy
5560 Recreation and Utility Trailer Dealers	7330 Mailing, Reproduction, Steno	9400 Administration of Human Resources
5570 Motorcycle Dealers	7333 Commercial Photography & Art	9500 Environmental Quality & Housing
	7340 Services to Buildings	9600 Administration of Economic Programs
5600 Apparel & Accessory Stores	7341 Window Cleaning	9700 National Security & Intl. Affairs
5610 Men's & Boy's Clothing & Furnishings	7342 Disinfecting & Exterminating	
5620 Women's Ready-to-Wear Stores	7349 Building Maintenance Svcs, nec.	DIVISION K. NONCLASSIFIABLE ESTABLISHMENTS
5630 Women's Accessory & Specialty Stores	7350 News Syndicates	9900 Nonclass Establishments
5640 Children's & Infants' Wear Stores	7359 Personnel Supply Services	
5650 Family Clothing Stores	7370 Computer & Data Processing Svcs.	
5660 Shoe Stores	7390 Misc. Business Services	
5680 Furriers & Fur Shops	7392 Management & Public Relations	
5699 Misc. Apparel & Accessories	7393 Detective & Protective Services	
5700 Furniture & Home Furnishings Stores	7394 Equipment Rental & Leasing	
5712 Furniture Stores	7395 Photofinishing Labs	
5713 Floor Covering Stores	7399 Business Services, Nec.	
5714 Drapery & Upholstery Stores		