

*Source Water Assessment -*  
Municipality of Anchorage (MOA)  
Well #12, Anchorage, Alaska

A Hydrogeologic Susceptibility and Vulnerability Analysis

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DRINKING WATER PROTECTION PROGRAM REPORT 432  
PWSID 210906.003

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By MICHAEL J. CROTTEAU

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# Source Water Assessment – Municipality of Anchorage (MOA) Well #12, Anchorage, Alaska

## A Hydrogeologic Susceptibility and Vulnerability Analysis

By Michael J. Crotteau

### Drinking Water Protection Program Alaska Department of Environmental Conservation

#### EXECUTIVE SUMMARY

Municipality of Anchorage (MOA) Well #12 is a Class A (community) drinking water source consisting of one well. Identified potential and current sources of contaminants for MOA Well #12 include many agricultural, commercial, industrial, transportation, recreation, waste disposal, and natural resource extraction type activities as well as areas of identified contaminant releases. These identified potential and existing sources of contamination are considered sources of bacteria and viruses, nitrates and/or nitrites, volatile organic chemicals, heavy metals, synthetic organic chemicals, and other synthetic organic chemicals. Overall, MOA Well #12 public water source received a vulnerability rating of **Medium** for volatile organic chemicals and heavy metals, and **Low** for bacteria and viruses, nitrates and/or nitrites, synthetic organic chemicals, and other synthetic organic chemicals.

#### INTRODUCTION

The purpose of this environmental assessment is to provide public water system owners/operators, communities, and local governments with information they can use to preserve the quality of Alaska's public drinking water supplies. This assessment was completed for the MOA Well #12's source of public drinking water. This source consists of one well in the Anchorage-area (see Figure 1). This assessment, known under the Alaska Drinking Water Protection Program as the *Source Water Assessment*, has combined a review of the natural hydrogeologic sensitivity with potential and existing contaminant risks to arrive at an overall vulnerability of the drinking water source to contamination. This assessment has been completed as a basis for local voluntary protection efforts and to assist agencies in their efforts to reduce risk to this public drinking water supply.

#### DESCRIPTION OF THE ANCHORAGE-AREA, ALASKA

##### Location

Anchorage, located in southcentral Alaska, encompasses 1,698 square miles of land and 264 square miles of water. The area containing a majority of the urban development, commonly referred to as the Anchorage Bowl, encompasses approximately 180 square miles [Partick, Brabets, and Glass, 1989] and envelopes the low lands of the area. This area is bounded on the east by the Chugach Mountains and the north, west, and south by the Knik and Turnagain Arms of Cook Inlet (Figure 1). In recent times, urban development has extended eastward along the flanks of the Chugach Mountains. This area, known locally as the Anchorage Hillside, contains development at elevations exceeding 3700 feet in elevation above sea level.



Figure 1. Index map showing the location of Anchorage, Alaska



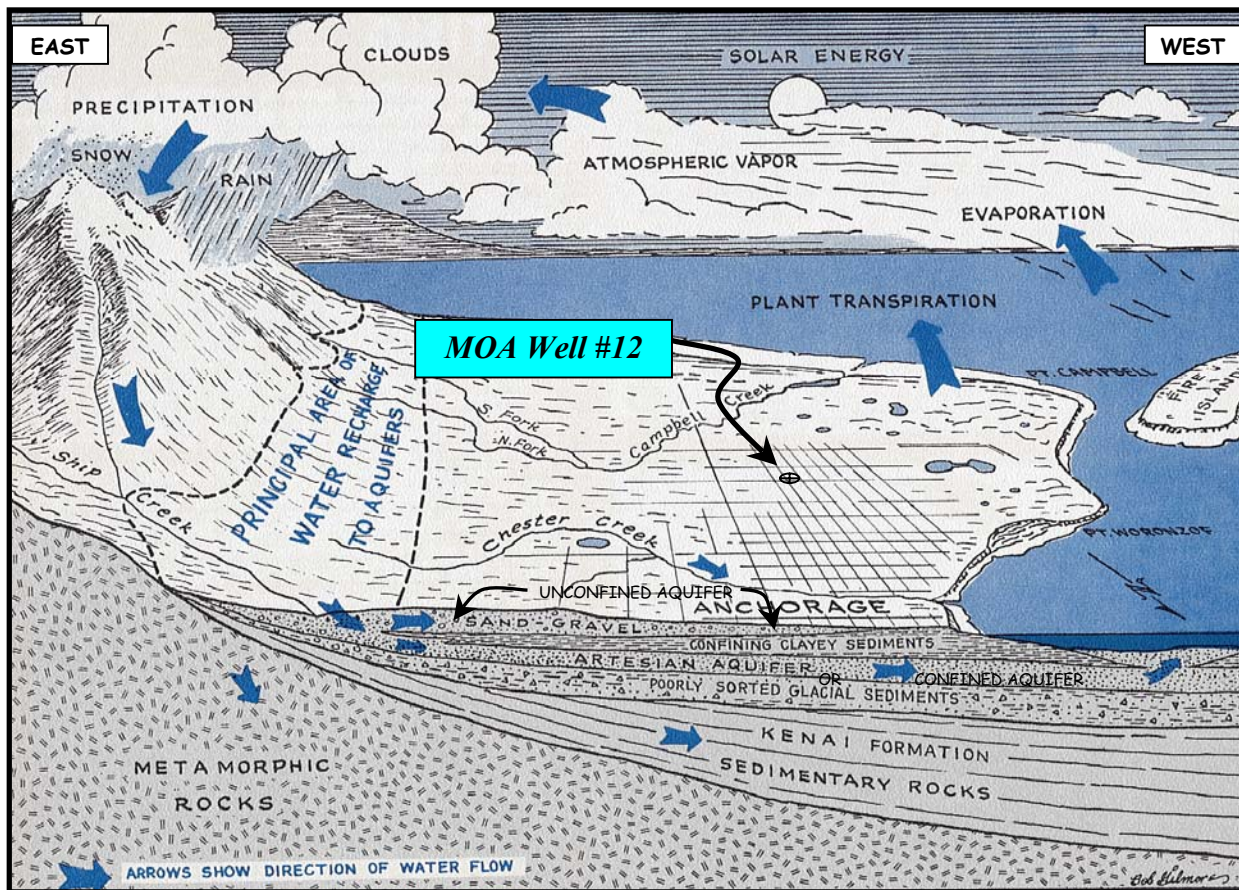


Figure 2. Generalized hydrologic cycle in the Anchorage-area [Barnwell, George, Dearborn, Weeks, and Zenone, 1972].

### Climate

The Anchorage-area climate is somewhat transitional in that it does not experience large daily and annual temperature fluctuations like those experienced in the interior of Alaska nor does it experience high amounts of precipitation typified by gulf coast regions. Mean annual precipitation at the Anchorage International Airport is approximately 16 inches per year. On the average, Anchorage receives a total snow accumulation of 69 inches per year. Precipitation generally increased inland toward the Chugach Mountains where annual precipitation may exceed 160 inches per year [Barnwell, George, Dearborn, Weeks, and Zenone, 1972]. Mean daily temperature ranges from 65° F during July to 8° F in January [Western Regional Climate Center, 2000].

### Physiography and Groundwater Conditions

Surface elevations in the Anchorage-area range from sea level at the Knik and Turnagain Arms to well over 5000 feet in the peaks that bound the area. Glacial moraine and outwash deposits primarily mantle the surface of the Anchorage Bowl.

The backbone of the Chugach Mountains is composed primarily of metamorphic marine and volcanic rocks (bedrock). These high peaks that bound Anchorage's east-side are flanked with colluvium or slope deposits. These slope deposits eventually grade into the glacial and stream deposits at lower elevations in the Anchorage Bowl.

In the Anchorage-area, two principal groundwater flow systems or aquifers exist (see Figure 2). The upper unconfined aquifer or water-table aquifer is separated from a lower confined aquifer system by layers of silty, clayey glacially derived sediments (confining layer) [Ulery and Updike, 1983]. The lower confined aquifer system consists of a series of hydrologically interconnected layers and lenses of gravel, sand and silt that, collectively, form the confined aquifer. The confining layer ranges from 0 to 270 feet thick throughout the Anchorage-area and generally thins with increasing distance from Cook Inlet, thus pinching out at the mountain front [Patrick, Brabets, and Glass, 1989].

Water enters or recharges these two aquifer systems in several different ways. Along the front of the Chugach Mountains, groundwater seeps from fractures in bedrock into the sediments. At these higher elevations, rain and



snowmelt also enters the sediments. This area along the mountain front is considered the principal recharge area for wells in the Anchorage-area. Precipitation in the low lands may also percolate directly into the ground. Lastly, aquifers may also be recharged by streams where surface water percolates into surrounding permeable sediments (losing reaches of streams). Groundwater flow in the confined aquifer is generally east to west from the mountain front toward Cook Inlet, except in areas where the direction of flow is influenced by large municipal or industrial production wells. The direction of groundwater flow in the upper unconfined aquifer is more variable due to the influence from surficial topography as well as its close connection with surface water bodies.

### MOA WELL #12 PUBLIC WATER SOURCE

MOA Well #12 public water source is a Class A (community) water source, which is owned by and operated by the Municipality of Anchorage – Anchorage Water & Wastewater Utility (AWWU). The source consists of one well in the Anchorage Bowl and is at an elevation of 110 feet above sea level. The well is located on Lot 2 Industrial Park 4000 approximately 40 feet east

of C Street (see Figure 3 and Map 2 in Appendix B). According to the well log, MOA Well #12 does not appear to be grouted and penetrates 76 feet of silty sand, 40 feet of sandy clay with gravel, 40 feet of sand and gravel with clay, 34 feet of blue clay, 45 feet of gray clay with gravel, 24 feet of brown clay, 45 feet of clean sand and gravel, and eight feet of black clay to a total depth of 312 feet below land surface. The well is screened in the clean sand and gravel from 259 to 298 feet below land surface. The well log for MOA Well #12 indicated a static water level of 111 feet below land surface at the time of drilling (1971).

In 2001, MOA Well #12 production ranged from 77,913,000 gallons (1745 gallons per minute) in April to 6,878,000 gallons in December. During these periods of operation, the water from MOA Well #12 is pumped directly into the distribution system for the Anchorage area. AWWU’s drinking water sources collectively serve approximately 212,000 residents and non-residents through multiple service connections. More information on AWWU can be obtained from their website at <http://www.awwu.ci.anchorage.ak.us/website/default.htm>.

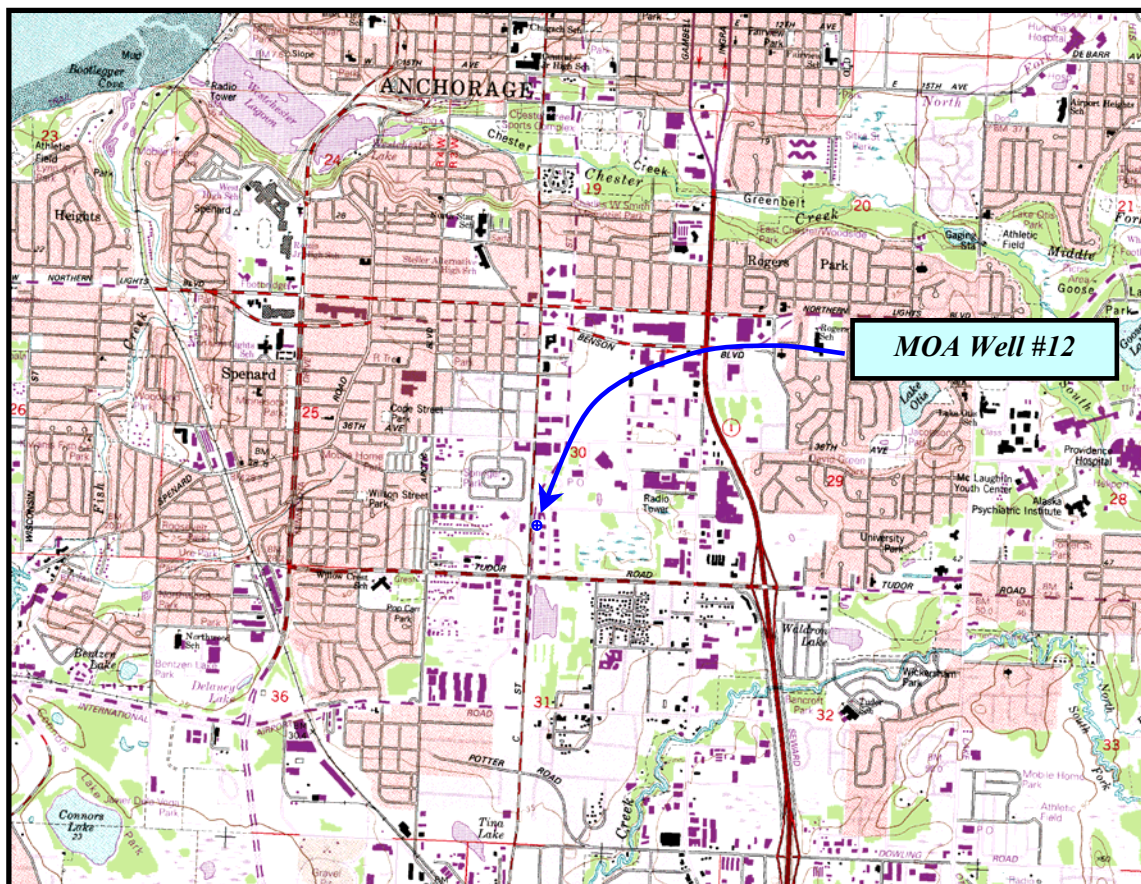


Figure 3. Map showing the location of the drinking water source for MOA Well #12 [Basemaps: USGS Anchorage A8 NW].

## ASSESSMENT AND PROTECTION AREA FOR MOA WELL #12 DRINKING WATER SOURCE

The Drinking Water Protection and Assessment Area that has been established for MOA Well #12's well is the area that is most sensitive to contamination. This area has served as a basis for assessing the risk of the drinking water source to contamination. This zone around the drinking water source is the most critical area for the preservation of the quality of the drinking water for this source. For simplicity, this area will be known as your Drinking Water Protection Area and will serve as the area of focus for voluntary protection efforts.

Conceptually, groundwater enters the aquifer systems along the front range of the Chugach Mountains (Figure 2) and flows toward Cook Inlet. An analytical calculation was used to calculate the size and shape of the area that contributes water to the well. The input parameters describing the attributes of the aquifer in this calculation were adopted from the U.S. Geological Survey [*Patrick, Brabets, and Glass, 1989*]. This analytical calculation was used as a guide as the first step in establishing the protection area for MOA Well #12. Additional methods were further employed to take into account any uncertainties in groundwater flow and aquifer characteristics to arrive at a meaningful and conservative protection area with respect to public health (Please refer to the Guidance Manual for Class A Public Water Systems for additional information).

The Drinking Water Protection Areas established for wells by the Alaska Department of Environmental Conservation are separated into zones. These zones correspond to a time-of-travel. Time-of-travel is the time required for water to move in the saturated zone of the ground from a specific point to the well. The Drinking Water Protection Area for MOA Well #12 contain four zones, Zone A through Zone D (See Map 1 in Appendix B). Zone A corresponds to the area between the well and the distance equal to  $\frac{1}{4}$  of the distance of the 2-year time-of-travel. Depending on where a contaminant source is located within Zone A, travel time for a contaminant to the well may be on the order of several days to several hours. Zone A also extends downgradient from the well to take into account the area of the aquifer that is influenced by pumping of the well (zone of contribution).

The Zone B protection area for MOA Well #12 corresponds to a time-of-travel of less than two years and extends 4560 feet from the well toward the Chugach Mountains. Lastly, the Zone C and Zone D protection areas correspond to less than 5-years and 10-years time-of-travel, respectively. The 10-year time-of-travel isochrone (line of equal time) extends approximately 2.9

miles from the well toward the base of the Chugach Mountains.

## INVENTORY OF POTENTIAL AND EXISTING CONTAMINANT SOURCES

The Drinking Water Protection Program has completed an inventory of potential and existing sources of contamination within MOA Well #12 Drinking Water Protection Area. This survey was completed through a search of agency records and other publicly available information. This contaminant source inventory was not verified by AWWU.

Potential sources of contamination to drinking water supplies cover a wide range of categories and types. Potential drinking water contaminants are found within agricultural, residential, commercial, and industrial areas, but can also occur within areas that have little or no development.

For the basis of this assessment and all Class A public water system assessments, six categories of drinking water contaminants were inventoried. They include:

- Bacteria and viruses;
- Nitrates and/or nitrites;
- Volatile organic chemicals;
- Heavy metals, cyanide, and other inorganic chemicals;
- Synthetic organic chemicals; and
- Other synthetic organic chemicals.

Maps 3 through Map 6 and Plate 1 in Appendix C depict the Contaminant Source Inventory for MOA Well #12. Inventoried potential sources of contamination within Zones A through Zone C were associated with residential, commercial, transportation, and light industrial type activities (see Table 1 in Appendix A). Only high and very high potential and existing sources of contamination are inventoried within the Zone D protection area, as well as identified sites that are administered by ADEC or the U.S. EPA. Below is a summary of the contaminant sources inventoried within the MOA Well #12 protection area (Zones A – C):

- Two (2) agricultural chemical sales/storage facilities;
- an aircraft maintenance shop;
- activities associated with paved roads;
- three (3) appliance repair shops;
- three (3) asphalt tar processing/storage facilities;
- four (4) beverage industry facilities;
- a boat engine/body repair shop;
- a boat yard storage yard;

- three (3) battery manufacturing/recycling facilities;
- thirty-three (33) body shops;
- a bowling center;
- a bus maintenance facility;
- seven (7) car washes;
- seventeen (17) closed underground storage tanks (USTs);
- three (3) commercial greenhouses;
- ninety-three (93) construction trade areas;
- thirty-six (36) ADEC-recognized Contaminated Sites;
- domestic wastewater sewer lines;
- seven (7) dry cleaners;
- fifteen (15) electronic communications equipment/component manufacturing business;
- a firehouse;
- a fish hatchery;
- ten (10) florists;
- nineteen (19) furniture manufacturing and repair shops;
- twenty-seven (27) gasoline stations;
- three (3) gravel pits;
- three (3) government vehicle maintenance facilities;
- seventy-two (72) hardware stores;
- forty-six (46) heavy equipment rental/storage facilities;
- an injection well (Class V) cooling water return flow well;
- four (4) injection wells (Class V) industrial process water disposal well;
- three (3) injection wells (Class V) large-capacity septic systems;
- seventy-three (73) potential injection wells (Class V) motor vehicle waste disposal wells;
- three (3) iron and steel manufacturing businesses;
- six (6) jewelers;
- four (4) jewelry manufacturers;
- thirteen (13) laboratories (chemical, soils, research);
- four (4) areas with landscaping around commercial, industrial, or government buildings;
- two (2) laundromats;
- four (4) lawn and garden supply/service facilities;
- fifty-six (56) open leaking underground storage tank (LUST) sites;
- fifty-three (53) closed leaking underground storage tank (LUST) sites;
- three (3) leather processing facilities;
- two (2) lube shops;
- eight (8) lumber processing and preservation facilities;
- seven (7) machine and metal work shops;
- five (5) meat processing facilities;
- one hundred and thirty-four (134) medical/veterinary facilities;
- three (3) metal fabrication facilities;
- two (2) metal finishing shops;
- a metal refining business;
- seventy-one (71) motor vehicle repair shops;
- forty-eight (48) motor vehicle dealerships and rental facilities;
- twenty-one (21) motor vehicle/general storage yards;
- forty-one (41) motor vehicle supply stores;
- fifteen (15) municipal parks;
- two (2) organic chemical manufacturers;
- nine (9) paint sales and storage businesses;
- two (2) pest extermination businesses;
- three (3) pet groomers;
- six (6) petroleum bulk station/terminals;
- eight (8) pharmacies;
- twelve (12) photographic supplies/photo processing laboratories;
- forty-seven (47) printers, publishers, and copies;
- a automotive race track;
- three (3) recycling and waste reduction facilities;
- approximately 1016 acres of residential area;
- forty-one (41) residential septic systems;
- a rubber fabrication/manufacture;
- seven (7) scrap, salvage, or junk yards;
- nine (9) seafood processing facilities;
- a septic tank cleaning and servicing business;
- five (5) sign manufacturers;
- two (2) stone and clay manufacturers;
- one-hundred and nine (109) underground storage tanks (USTs);
- three (3) taxidermists;
- a textile manufacturer;
- a vocational training facility;
- five (5) welding shops; and
- six (6) windshield/glass repair shops.

These potential contaminant sources present risk for all six categories of drinking water contaminants for MOA Well #12 drinking water source.

## RANKING OF CONTAMINANT RISKS

Potential and existing sources of contamination have been identified, sorted, and ranked according to what type and level of risk they represent. Ranking of contaminant risks for a “potential” or “existing” source of contamination is a function of toxicity and volumes of specific contaminants associated with that source. Contaminant risks are further a function of the number and density of those types of contaminant sources as well as the proximity of those sources to the well.

## VULNERABILITY OF MOA WELL #12 DRINKING WATER SOURCE

Vulnerability of a drinking water source to contamination is a combination of two factors:

- natural susceptibility; and
- contaminant risks.

Each of the six categories of drinking water contaminants has been analyzed and an overall vulnerability score of 0 to 100 is ultimately assigned:

$$\begin{aligned} & \text{Natural Susceptibility (0 – 50 points)} \\ & \quad + \\ & \quad \text{Contaminant Risks (0 – 50 points)} \\ & \quad = \\ & \quad \text{Vulnerability of the} \\ & \text{Drinking Water Source to Contamination (0 – 100).} \end{aligned}$$

A score for the Natural Susceptibility is achieved by analyzing the properties of the well and the aquifer.

$$\begin{aligned} & \text{Susceptibility of the Wellhead (0 – 25 Points)} \\ & \quad + \\ & \quad \text{Susceptibility of the Aquifer (0 – 25 Points)} \\ & = \text{Natural Susceptibility (Susceptibility of the Well)} \\ & \quad \text{(0 – 50 Points)} \end{aligned}$$

MOA Well #12 is completed in a confined aquifer setting. In its upper 76 feet, the well penetrates a silty sand that harbors the unconfined aquifer. Below that layer, the well penetrates 40 feet of sandy clay. The twenty-inch well casing also penetrates 40 feet of sand and gravel with clay between 116 and 156 feet below land surface. This layer may be characterized as the upper confined aquifer. Below this layer of sand and gravel, the well penetrates an additional 103 feet of clay, including 34 feet of the cohesive facies of the Bootlegger Cove Formation, commonly referred to in the Anchorage area as the “blue clay” [Ulery and Updike, 1983] before entering the lower confined aquifer.

The well penetrates four different layers of clay that act as

protective barriers against the movement of contaminants. These confining units have a cumulative thickness of 142 feet. The well casing is screened between 259 and 298 feet below land surface. Other wells that penetrate the confining units within the Drinking Water Protection Area may act as quick conduits for contaminants to the subsurface. Contamination of the lower confined aquifer could occur if other pumping wells in the protection area pull contaminants from the unconfined aquifer along the well casing, therefore, short circuiting the confining units (see Map 4 in Appendix D for locations of other drinking water wells within the protection area). The well does not appear to be properly grouted as indicated previously from information obtained from Department records. The absence of grouting can promote the transport of contaminants along the well casing. Lastly, contamination of the lower confined aquifer can also occur through the direct injection of contaminants through a well. Although several routing mechanisms for contamination exists, the source water of MOA Well #12 are amongst the most protective in the state of Alaska, primarily due to the thickness of the clay layers. As a result, Contaminant Risks were further reduced to take into account the probability of contamination (See Contaminant Risks in Appendix D).

Combining the susceptibility of the wellhead and the aquifer to contamination leads to a score (0 – 50 points) and rating of overall Susceptibility (See Appendix D). Table 1 shows the overall Susceptibility score and rating for MOA Well #12.

**Table 1. Natural Susceptibility - Susceptibility of the Wellhead and Aquifer to Contamination**

	Score	Rating
Susceptibility of the Wellhead	5	Low
Susceptibility of the Aquifer	6	Low
Natural Susceptibility	11	Low

Contaminant risks to a drinking water source depend on the type, number or density, and distribution of contaminant sources.

A score (0 – 50 points) and rating of Contaminant Risks (See Appendix D) is assigned based on the findings of the

Contaminant Source Inventory (Appendix B - Table 1 – Table 7). This portion of the analysis examines any existing or historical contamination that has been detected. A score for the Natural Susceptibility is achieved by analyzing the properties of the well and the

aquifer. at the drinking water source through routine sampling. It also reviews contamination that has or may have occurred but has not arrived or been detected at the well. Table 2 summarizes the Contaminant Risks for each category of drinking water contaminants.

**Table 2. Contaminant Risks**

Contaminant Risks	Score	Rating
Bacteria and Viruses	17	Low
Nitrates and/or Nitrites	19	Low
Volatile Organic Chemicals	35	High
Heavy Metals, Cyanide, and other Inorganic Chemicals	47	Very High
Synthetic Organic Chemicals	16	Low
Other Synthetic Organic Chemicals	16	Low

Appendix D contains fourteen charts, which together form the ‘Vulnerability Analysis’ for a source water assessment for a public drinking water source. Chart 1 analyzes the ‘Susceptibility of the Wellhead’ to contamination by looking at the construction of the well and its surrounding area. Chart 2 analyzes the ‘Susceptibility of the Aquifer’ to contamination by looking at the naturally occurring attributes of the water source and influences on the groundwater system that might lead to contamination. Chart 3 analyzes ‘Contaminant Risks’ for the drinking water source with respect to bacteria and viruses. The ‘Contaminant Risks’ portion of the analysis considers potential sources of contaminants as well as a review of contamination that has or may have occurred but has not arrived or been detected at the well. Lastly, Chart 4 contains the ‘Vulnerability Analysis for Bacteria and Viruses’. Charts 5 through 14 contain the Contaminant Risks and Vulnerability Analysis for nitrates and nitrites, volatile organic chemicals, heavy metals, synthetic organic chemicals, and other synthetic organic chemicals, respectively.

Vulnerability of the drinking water source to contamination is the combination of susceptibility of the aquifer and the well with contaminant risks. Table 3 contains the overall vulnerability scores (0 – 100) and ratings for each of the six categories of drinking water contaminants (See Appendix D). Note: scores are rounded off to the nearest five.

**Table 3. Overall Vulnerability of MOA Well #12’s Public Drinking Water Source to Contamination by Category**

Category	Score	Rating
Bacteria and Viruses	25	Low
Nitrates and Nitrites	25	Low
Volatile Organic Chemicals	45	Medium
Heavy Metals, Cyanide, and other Inorganic Chemicals	55	Medium
Synthetic Organic Chemicals	25	Low
Other Synthetic Organic Chemicals	25	Low

Tables 2 through 7 in Appendix A contain the ranking of potential and existing sources of contamination with respect to bacteria and viruses, nitrates and/or nitrites, and volatile organic chemicals, heavy metals, synthetic organic chemicals, and other synthetic organic chemicals.

## DISCUSSION OF CONTAMINANT RISKS

### Existing Contamination

Nitrates and/or nitrites are found in natural background concentrations at the site, as elsewhere in the Alaska. Sampling history of MOA Well #12’s source waters indicate low concentrations of nitrate (See Chart 5 – Contaminant Risks for Nitrates/Nitrites in Appendix D). Existing nitrate contamination is approximately 8% of the allowable limit (MCL) for this contaminant. The Maximum Contaminant Level or MCL is the maximum level of contaminant that is allowed to exist in drinking water and still be consumed by humans without harmful health effects. Due to the high solubility and weak retention by soil, nitrates are very mobile in soil, moving at approximately the same rate as water. Nevertheless, the current nitrate concentration in MOA Well #12’s source waters remains at safe levels with respect to human health.

Heavy metals are also found in natural background concentrations at the site. Sampling history of MOA Well #12 source waters indicate low concentrations of barium and nickel and moderate concentrations of arsenic and thallium in past sampling periods (See Chart 9 – Contaminant Risks for Heavy Metals, Cyanide, and Other Inorganic Chemicals in Appendix D). Nickel, barium, and arsenic levels during past sampling periods have been as high as 1%, 2%, and 20% of the allowable limit (MCL) for these contaminants, respectively. Thallium was detected at a concentration of 0.001 milligrams per liter (mg/L) on November 10, 1998. The MCL for thallium is

0.002 mg/L. Thallium was not detected in the source waters of MOA Well #12 during the last sampling period for this contaminant (April 3, 2001).

Thallium is a trace metal that is found in natural deposits of ore in association with copper, gold, silver, cadmium, arsenic, zinc, barium, and chromium. The greatest use of thallium is in specialized electronic equipment. Human-made sources of thallium contamination are gaseous emissions from cement factories, coal burning power plants, and metal sewers. The leaching of thallium from ore processing operations is the major source of elevated thallium concentrations in water today.

Existing thallium in the source waters for MOA Well #12 is more than likely naturally occurring, having been derived from the glaciomarine (glacial and oceanic) sedimentary deposits. Thallium, which was detected at the detection level for this contaminant, was 50% of the MCL. Existing background thallium contamination therefore drives Inorganic Risks for Heavy Metals, Cyanide, and other Inorganic Chemicals. However, due the lack of potential human-induced sources of thallium within the protection area for MOA Well #12, a no detect of thallium in the last sampling period, and the low probability that natural thallium concentrations could increase more than 50% of the MCL, Contaminant Risks were reduced for this contaminant category.

Regardless of the quantity of these heavy metals in the source waters of MOA Well #12, the current concentrations remain at safe levels with respect to human health

**Potential Contamination**

MOA Well #12 is located in an area of the Anchorage Bowl, commonly referred to locally as “Midtown”. This area is characterized as one the most commercialized areas of the Anchorage Bowl. The Drinking Water Protection Area for MOA Well #12 envelops a vast array of land use types, ranging from heavy commercial use to light residential areas and vacant land. Table 4 shows the distribution of land use within the protection area for MOA Well #12.

Clearing of trees and development of the land to the east of MOA Well #12 began in the early 1950’s. From the onset of initial development, land use close to the well (Zone A and B Protection Areas) has been focused around a vast array of commercial and industrial types. As a result of this type of development, petroleum hydrocarbons, such as gasoline and diesel, and other hazardous waste have been generated and, in some cases, poorly managed in this area. The end product has been a plethora of contaminant release sites that have been

identified by the Alaska Department of Environmental Conservation (ADEC) as having a potential threat to human health and the environment.

**Table 4. Land Use within the Drinking Water Protection Area for MOA Well #12**

Land Use	Area (Acres)	Percentage of Total
Residential	1497	35.5
Commercial	931	22
Vacant Land	929	22
Recreational	527	12.5
Government Services	251	6
Waste Disposal	63	1.5
Industrial	18	0.5

\*Area does not include highways and roads and their associated right-of ways

The Alaska Department of Environmental Conservation (ADEC) has identified one hundred and forty-five (145) type sites within the Drinking Water Protection Area for MOA Well #12. These include thirty-seven (37) ADEC-recognized Contaminated Sites and one hundred and eight (108) sites that have contained leaking underground storage tanks (LUSTs).

Based on the quantity of contaminant release sites in this commercial and somewhat industrial area, there is a strong likelihood that many other contaminant releases have gone undetected. This is evidenced through the findings of several contaminant plumes where the sources of contamination have not been identified

Of the thirty-seven ADEC-recognized Contaminated Sites, ten (10) are currently “active” where corrective action is taking place, fifteen (15) are “closed” where contamination has been cleaned up to acceptable ADEC standards, three (3) where “No Further Action” is pending, and nine (9) are “inactive” which are those sites which currently have no ADEC oversight and/or pose a low to moderate ranking for corrective action.

Of the one hundred and eight (108) LUST sites within the protection area for MOA Well #12, fifty-two (52) are currently “open” and have active corrective action underway and fifty-six (56) are “closed” where the sites have been cleaned up to acceptable ADEC standards for soil and groundwater.

Of the 145 above mentioned sites where confirmed contamination of soil and/or groundwater has occurred, only nine (9) sites have been identified that contain a



contaminant plume that extends off-site (off-property) away from the contaminant source area. (U4-1, U7-9, U7-10, U7-12, U7-16, U7-17, U7-19, U7-21, U7-42). Amongst these sites, the greatest distance a contaminant plume has traveled that has been identified is 200 feet (U7-10). This distance is relatively small compared with other areas of the state where contaminant plumes have traveled upwards of thousands of feet, such as Skagway or Fairbanks. This is due in part to several factors. To begin with, for the most part, contaminant sources have been identified and removed. Other factors that contribute to lower mobility of contaminants in groundwater in the Anchorage Bowl are the higher percentages of natural organic material and clay in the subsurface. These characteristics aid in the retardation or natural attenuation of most organic and inorganic contaminants.

Documented groundwater contamination within the protection area for MOA Well #12 is limited to the uppermost unconfined or water table aquifer. Due to variety of organic and inorganic compounds that have been utilized and poorly managed within the protection area, complex plumes of contaminated water has resulted.

If fuel leaks into the ground and migrates through the soil to groundwater, the fuel can float on the water table as “free product”. However, if the contaminant dissolves in water, it will flow along with the groundwater and will sink slightly below the water table. Of the components of gasoline and diesel, benzene has the highest solubility and, therefore, highest mobility in groundwater. This is true, unless the fuel contained a fuel additive called methyl *tert*-butyl ether.

Some sites of known contamination contain certain contaminants that are unique to that site. Methyl *tert*-butyl ether (MTBE) is a volatile oxygen-containing compound that has been used as an octane enhancer in gasoline to improve air quality in several areas in Alaska. Several states in the U.S. have detected MTBE in groundwater, including drinking water supplies.

MTBE oxygenated fuel use was limited to control areas in Anchorage and Fairbanks in late 1992 [ADEC, 2001]. On December 15, 1992, Governor Hickel issued a moratorium on the use of MTBE in Alaska due to health concerns.

The U.S. EPA has tentatively classified MTBE as a possible human carcinogen, but no drinking water standard has been established for MTBE to date [U.S. Environmental Protection Agency, 1997]. However, the U.S. EPA has ordered a drinking water advisory of 20 to 40 µg/L (micrograms per liter). This advisory is based upon taste and odor thresholds.

MTBE is very soluble in water. Due to this characteristic, MTBE has a very high mobility in groundwater. Gasoline with MTBE can contaminate large amounts of water; 1 gallon of MTBE-containing gasoline mixed with 4 million gallons of fresh water will yield 20 µg/L MTBE in water [Squillace, Pankow, Korte, and Zogorski, 1996].

Of the 145 above-mentioned sites where confirmed contamination of soil and/or groundwater has occurred, only one site (U7-19) contains MTBE. A concentration of MTBE in excess of 278 µg/L in one of three monitoring wells was detected in 2001. This site is located at 2927 Seward Highway within the Zone B Protection Area and is over 4100 feet to the south-southwest of MOA Well #12. Off-property migration of MTBE has not been documented, however, the detection mentioned above was obtained from a monitoring well on the edge of the property. Therefore, it can be assumed that off-site migration of contaminants is occurring. Regardless of the high level of MTBE in groundwater and current off-property migration, this site poses no risk to the quality of drinking water for MOA Well #12.

No sites that have been identified in this assessment, where contaminants have leached to groundwater, pose an immediate risk to the lower confined aquifer, the source waters of MOA Well #12. The closest site of identified existing groundwater contamination is 905 feet to the south, near the corner of C Street and Tudor Road (see below U7-3; ADEC LUST File # L30.12 and Site Name MAPCO - EXPRESS #5012). Recent groundwater sampling at this site shows that concentrations of all constituents have decreased since the June 2000 sampling period. This is due mostly in part to the removal of the contaminated soils coupled with the natural attenuation and dispersion of the contaminant plume.

Due to the protectiveness of the source waters of MOA Well #12, the lack of high risk contaminant sources close to the well, and for the sake of brevity, please refer to the “Comments” field in Tables 1 through 7 in Appendix B for additional information on other sites within the protection area.

#### Class V Injection Wells – Motor Vehicle Waste Disposal Wells

Seventy-three (73) properties within the Drinking Water Protection Area for MOA Well #12 have been identified as potentially having a Class V Injection Well – Motor Vehicle Waste Disposal Well. These sites were identified by the U.S. Environmental Protection Agency (EPA). The EPA has banned this type of injection well since April 2000 because of their extreme threat to groundwater quality. This ban requires all existing injection wells of this type be phased out and closed. Properties within this



area are serviced with city wastewater sewer. However, floor drains and sumps within facilities may still be connected to onsite shallow waste disposal systems. No information is available at this time regarding the status of these properties and their potential for having Class V Injection Wells – Motor Vehicle Waste Disposal Wells.

Typical contaminants associated with these types of activities include petroleum hydrocarbons, heavy metals, small amounts of other synthetic organic chemicals (OOCs), and in some cases, chlorinated hydrocarbons.

Five (5) potential Class V Injection Well – Motor Vehicle Waste Disposal Wells are located within the Zone A Protection Area for MOA Well #12 and one is within 1360 feet of the well (D42-4). However, this potential contaminant source is not upgradient of MOA Well #12. In order to determine if contamination of MOA Well #12 could occur, one must consider the transport and routing mechanisms for contamination of the well. If a Class V Injection Well – Motor Vehicle Disposal Well exists at this site, it is more than likely a shallow disposal system. Therefore, injection of waste below the confining units at this site or any other Class V Injection Well – Motor Vehicle Disposal Well within the protection area is not likely.

Secondly, one must consider the contaminants that may be involved. Petroleum hydrocarbons and, in some cases, chlorinated hydrocarbons are utilized in motor vehicle maintenance. Petroleum products, such as gasoline, have a specific gravity less than that of water and tend to float on the water table. Therefore, the chances of these types of contaminants reaching the confined aquifer is not likely, unless the contaminants are pulled along the well casing of a pumping well that penetrates to that depth. Chlorinated hydrocarbons, on the other hand, are heavier than water and have a tendency to sink in aquifers. Contamination could occur either through gaps in the clay layers or through the routing of contaminants along the well casing of an improperly designed pumping well that penetrates to the second confined aquifer. However, clay layers near MOA Well #12 are quite continuous and provide adequate protection against these contaminants. Travel time of contaminants through these clay layers may be on the order of several hundred years [Nelson, 1982]. Therefore, routing of contaminants along the well casing

of MOA Well #12 or an adjacent pumping well is the most likely mechanism for contamination.

Lastly, the volume of the contaminants in the groundwater must be great enough to reach the source waters providing the contaminant plume doesn't degrade and disperse adequately upon arrival at the well. As contaminated fluid flows through the aquifer, it will mix with noncontaminated groundwater. The result will be a dilution of the contaminant by a process known as dispersion. Based on the proximity of all Class V Injection Well – Motor Vehicle Disposal Wells relative to MOA Well #12, volumes of waste generated and injected by these facilities are not great enough to pose a risk to the source waters of MOA Well #12.

#### Domestic Wastewater Sewerlines; Contaminant Source (D1)

Approximately 105 miles of domestic wastewater sewerlines are found within the Drinking Water Protection Area for MOA Well #12. The closest sewerlines run within 160 feet of MOA Well #12 along B Street to the east. The risk associated with a catastrophic failure of the sewerlines as well as their close proximity to this drinking water source contributes to a medium bacteria and virus as well as nitrate and nitrite contaminant risk for MOA Well #12.

#### **SUMMARY**

A *Source Water Assessment* has been completed for the MOA Well #12 source of public drinking water. The overall vulnerability of this source to contamination is **Medium** for volatile organic chemicals and heavy metals, and **Low** for bacteria and viruses, nitrates and/or nitrites, synthetic organic chemicals, and other synthetic organic chemicals. This assessment of contaminant risks can be used as a foundation for local voluntary protection efforts as well as a basis for the continuous efforts on the part of the AWWU to protect public health. It is anticipated that *Source Water Assessments* will be updated every five years to reflect any changes in the vulnerability and/or susceptibility of the public drinking water source.

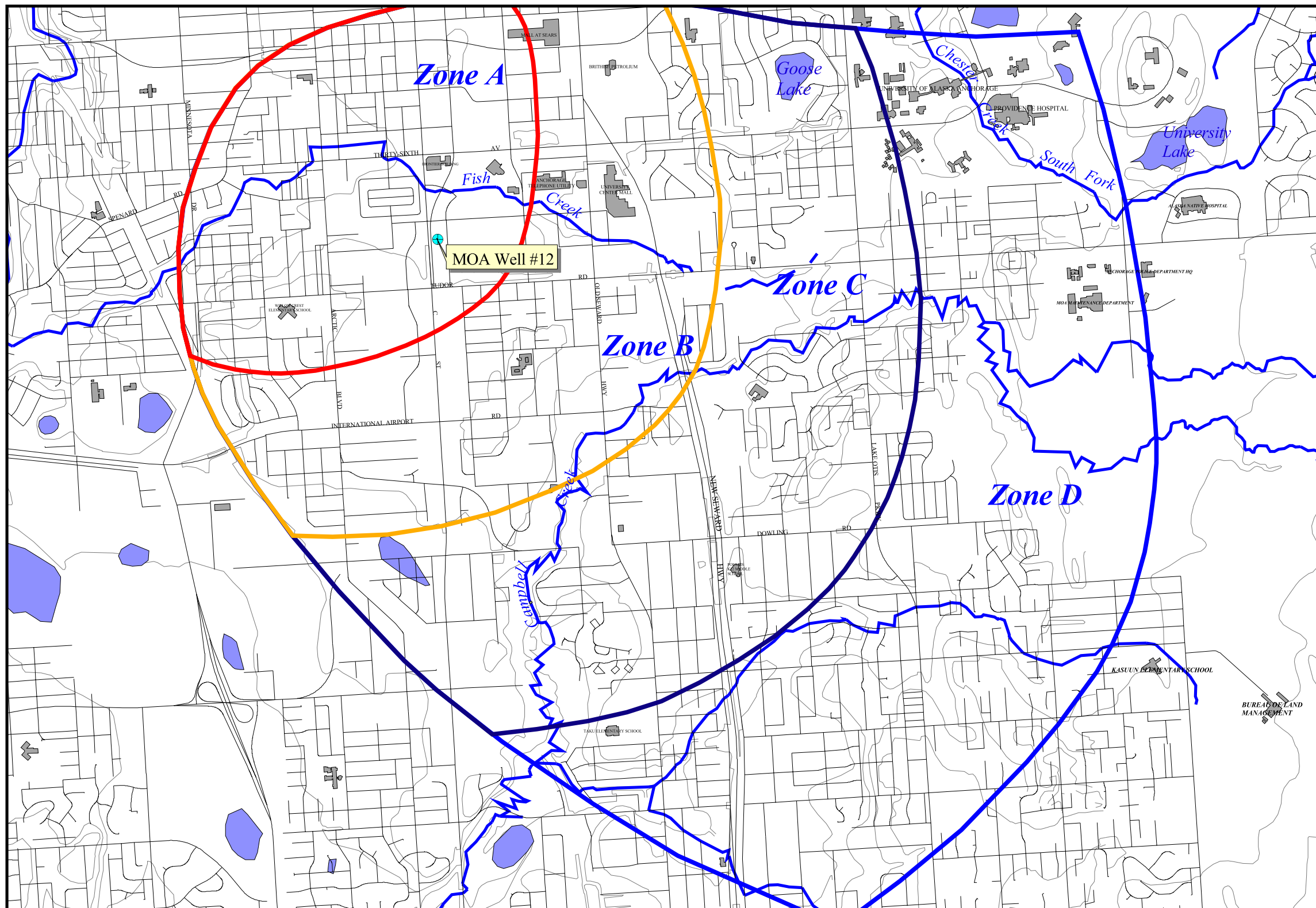
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## **APPENDIX A**

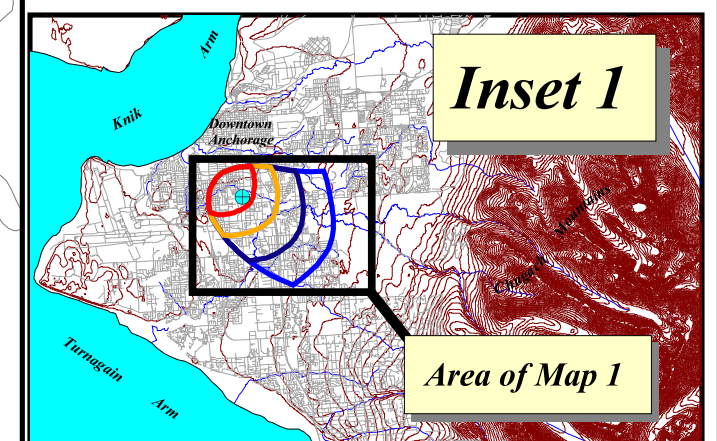
### **MOA Well #12 Drinking Water Protection Area**

# Drinking Water Protection Area for MOA Well #12



**Legend**

- MOA Well #12
- Zone A Protection Area
- ▭ Several Months Travel Time
- Zone B Protection Area
- ▭ Less Than 2-Years Travel Time
- Zone C Protection Area
- ▭ Less Than 5-Years Travel Time
- Zone D Protection Area
- ▭ Less Than 10-Years Travel Time
- ▭ Roads
- ▭ Buildings
- ▭ Elevation contours



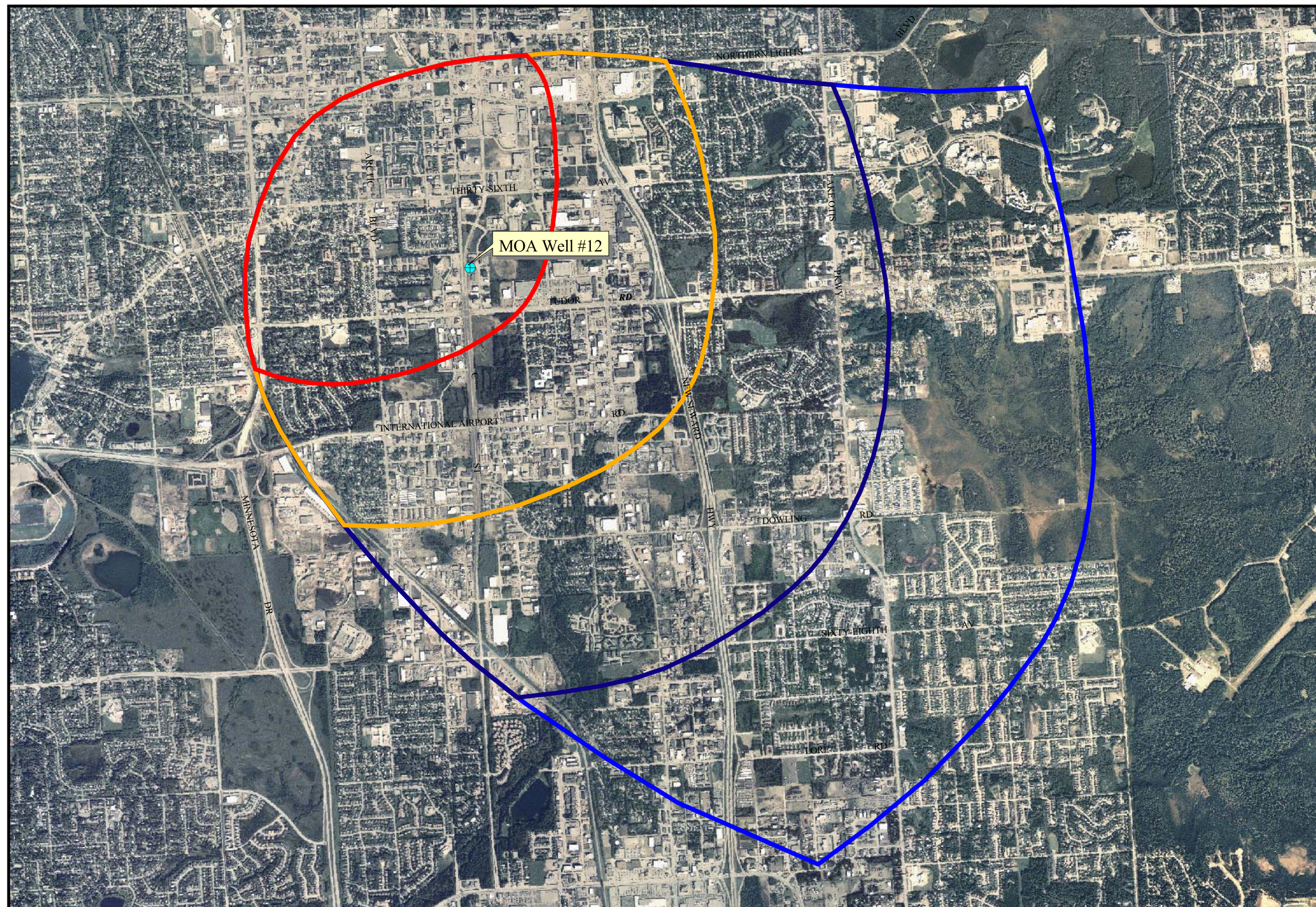
PWSID 210906.003



*Map 1*

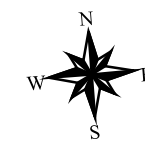
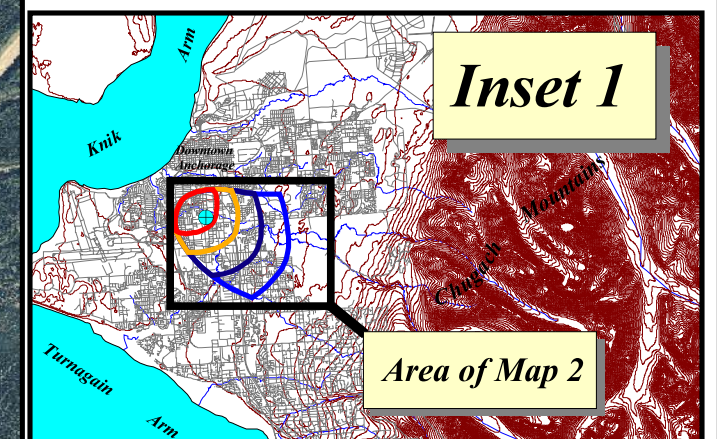


# Drinking Water Protection Area for MOA Well #12



## Legend

- MOA Well #12
- Zone A Protection Area  
Several Months Travel Time
- Zone B Protection Area  
Less Than 2-Years Travel Time
- Zone C Protection Area  
Less Than 5-Years Travel Time
- Zone D Protection Area  
Less Than 10-Years Travel Time



1 0 1 Miles

PWSID 210906.003

*Map 2*



## **APPENDIX B**

### **Contaminant Source Inventory and Risk Ranking for MOA Well #12**

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Gasoline stations (without repair shop)	C15	C15-7	A	3230 C ST	Plate 1	
Tanks, diesel (underground)	T08	T8-6	A	3230 C ST	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-4	A	3330 ARCTIC BLVD	Plate 1	ADEC LUST File # L10.? and Site Name 3300-40 ARCTIC BLVD. CORPORATION. Petroleum contaminated soils and groundwater were identified in October of 1989 during the removal of two 5,000-gallon underground petroleum tanks. Site closure was granted by ADEC in February of 1990. No further action required at this time.
Motor vehicle dealerships - cars, trucks, motor cycles, ATVs, snow machines, boats (with service department)	C27	C27-1	A	3202 SPENARD RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-17	A	3400 SPENARD RD # 4	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-18	A	510 W TUDOR RD # 111	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-1	A	4141 B ST	Plate 1	
Construction trade areas and materials	C09	C9-1	A	200 W 34TH AVE # 374	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-1	A	502 W NORTHERN LIGHTS BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-2	A	360 W BENSON BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-19	A	3201 C ST # 602	Plate 1	
Body shops (automotive)	C05	C5-1	A	3685 SPRINGER ST	Plate 1	
Motor / motor vehicle repair shops	C31	C31-1	A	3800 ARCTIC BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-20	A	3330 C ST # 100	Plate 1	
Printers, publishers, copiers	C37	C37-3	A	501 W NORTHERN LIGHTS BL # 100	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-1	A	3705 ARCTIC BLVD # 1693	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-21	A	511 W 41ST AVE # 102	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-1	A	4011 ARCTIC BLVD # 101	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-6	A	4300 B ST	Plate 1	ADEC LUST File # L55.96 and Site Name ALASKA ENERGY BUILDING . Soil contamination was discovered during the excavation of a 500-gallon diesel underground storage tank in October of 1990. No groundwater contamination was detected. Approximately 10 - 12 cubic yards of contaminated soils were excavated below the tank and was transported offsite for thermal treatment. File closed out to ADEC's satisfaction in September of 1991.
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-2	A	3689 ARCTIC BLVD	Plate 1	
Beverage industry	I07	I7-1	A	4141 B ST	Plate 1	
Car washes with engine or undercarriage cleaning	C08	C8-1	A	3800 MINNESOTA DR	Plate 1	
Body shops (automotive)	C05	C5-2	A	2905 ARCTIC BLVD	Plate 1	
Orchards or nurseries	A10	A10-1	A	601 W 41ST AVE # D	Plate 1	
Printers, publishers, copiers	C37	C37-4	A	3685 ARCTIC BLVD	Plate 1	
Hardware stores	C17	C17-1	A	4205 COPE ST	Plate 1	
Seafood processing	N10	N10-1	A	2914 ARCTIC BLVD	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-1	A	4040 B ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-2	A	700 W 41ST AVE # J	Plate 1	
Hardware stores	C17	C17-2	A	3207 ARCTIC BLVD	Plate 1	
Lawn and garden supplies/services	C23	C23-1	A	3105 CHEECHAKO ST	Plate 1	
Pest extermination services/pesticide sales	C33	C33-1	A	1403 W 33RD AVE	Plate 1	
Printers, publishers, copiers	C37	C37-5	A	4220 B ST # 210	Plate 1	
Construction trade areas and materials	C09	C9-2	A	511 W 41ST AVE	Plate 1	
Sign manufacturing	I39	I39-1	A	3404 ARCTIC BLVD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-2	A	100 E 51ST AVE	Plate 1	
Gasoline stations (with repair shop)	C16	C16-2	A	3607 SPENARD RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-6	A	3607 SPENARD RD	Plate 1	
Tanks, diesel (underground)	T08	T8-13	A	3607 SPENARD RD	Plate 1	



Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-1	A	3607 SPENARD RD	Plate 1	ADEC LUST File # L20.02-1 and Site Name Tesoro - Olson Gas Services Store #1. Petroleum hydrocarbon contamination was found in the trench along Spenard Road during road construction in October of 1988. The former UST system at this site was removed in September of 1995. Considerable contamination was noted during the closure process, however, no attempt was made to excavate further, thus leaving a significant amount of contaminated soil on-site. In September of 2001, approximately 1,120 tons of fuel contaminated soil was excavated beneath the former UST system. Diesel contamination was found below the water table during the excavation. The removed contaminated soils were later exported off-site for thermal treatment. While a large amount of diesel-contaminated soil was removed during this work, high-level contamination remains in the soils below the water table. In October of 2001, the 3rd party contractor for the responsible party submitted a work plan for pilot testing a soil and groundwater remediation system. The proposed remediation approach consists of the installation and operation of a soil vapor extraction (SVE) system and an in-well vapor stripping and circulation (VSC) system. In conjunction with with these systems, they have proposed the injection of additional enzymes into the groundwater at this site. These enzymes, extracted from living bacteria, will be utilized to enhance the effectiveness of the remediation system and , therefore, natural degradation of the diesel range contaminants. This plan has been conditionally approved, however, no enzymes injection or reinjection of water will be utilized. No information is currently available for monitoring in 2002.
Heavy equipment rental/storage	C18	C18-1	A	3600 ARCTIC BLVD	Plate 1	
Battery manufacturing/recycling	I06	I6-1	A	200 W 34TH AVE # 1076	Plate 1	
Printers, publishers, copiers	C37	C37-6	A	600 W NORTHERN LIGHTS BLVD	Plate 1	
Heavy equipment rental/storage	C18	C18-2	A	3940 ARCTIC BLVD # 300	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-23	A	343 W BENSON BLVD # 3	Plate 1	
Race tracks (automotive)	C38	C38-1	A	3600 EUREKA ST	Plate 1	
Printers, publishers, copiers	C37	C37-7	A	702 W 32ND AVE	Plate 1	
Hardware stores	C17	C17-3	A	3699 SPRINGER ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-2	A	101 E NORTHERN LIGHTS BLVD	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-5	A	3719 ARCTIC BLVD.	Plate 1	ADEC LUST File # L55.48 and Site Name ARCTIC ANNEX BUILDING. Gasoline contaminated soil and groundwater was discovered during the removal of a 6,000-gallon unleaded gasoline UST in November of 1989. Approximately 65 cubic yards of contaminated soils were excavated and were temporarily stockpiled onsite. Sampling/results of groundwater from monitoring wells indicated 1.34 ppm benzene, 4.4 ppm ethylbenzene, 19.2 ppm toluene, and 25.5 ppm xylenes during the November sampling period. Contaminated soils were transported offsite for disposal at the Anchorage Regional Landfill in September of 1990. Groundwater samples taken in 1991 - 1998 continued to show petroleum hydrocarbons above the MCL for both soil and drinking water. In July of 1998, ADEC requested that the responsible party continue to monitor groundwater contamination on a semi-annual basis coupled with the submittal of a Corrective Action Plan for the existing soil contamination at this site. No information has been received by ADEC since 1998.
Laundromats without dry cleaning	C22	C22-1	A	701 W 36TH AVE	Plate 1	
Gasoline stations (without repair shop)	C15	C15-3	A	3603 ARCTIC BLVD	Plate 1	
Tanks, gasoline (underground)	T12	T12-17	A	3603 ARCTIC BLVD	Plate 1	
Tanks, diesel (underground)	T08	T8-9	A	3603 ARCTIC BLVD	Plate 1	
Gasoline stations (with repair shop)	C16	C16-1	A	810 W TUDOR RD	Plate 1	
Tanks, gasoline (underground)	T12	T12-10	A	810 W TUDOR RD	Plate 1	10,000-gallons, double-walled
Tanks, gasoline (underground)	T12	T12-11	A	810 W TUDOR RD	Plate 1	10,000-gallons, double-walled
Tanks, gasoline (underground)	T12	T12-12	A	810 W TUDOR RD	Plate 1	10,000-gallons, double-walled
Tanks, lubricants or other petroleum products (underground)	T20	T20-1	A	810 W TUDOR RD	Plate 1	550-gallons, double-walled, Manual Tank Testing
Tanks, diesel (underground)	T08	T8-12	A	810 W TUDOR RD	Plate 1	10,000-gallon

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-2	A	810 W TUDOR RD	Plate 1	ADEC LUST File # L25.09 and Site Name ARCTIC TEXACO. Soil and groundwater contamination was discovered in February of 1992 as the result of a line failure between a turbine pump and the dispenser for a fuel UST system. Approximately 1,481 tons of contaminated soils were removed and transported offsite for treatment and processing. Groundwater monitoring wells were installed and samples were taken of the groundwater in January of 1994. Petroleum hydrocarbon concentrations during this sampling period were above MCLs for drinking water. A soil vapor extraction system (VES) was installed to aid in the remediation of the site in 1989. Additionally, a groundwater treatment system (GTS) was installed in 1997-1998. Quarterly groundwater samples were submitted to ADEC beginning in 1994 through continue today. Groundwater samples/results from March of 2001 continued to show petroleum hydrocarbons above MCLs for drinking water. Sample results from December 2001 are currently being reviewed by ADEC.
Agricultural chemical sales/storage	C02	C2-1	A	701 W 41ST AVE # 103	Plate 1	
Tanks, gasoline (underground)	T12	T12-9	A	3000 ARCTIC BLVD.	Plate 1	3,000-gallons, double-walled and cathodically protected
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-6	A	3000 ARCTIC BLVD.	Plate 1	ADEC LUST File # L69.42 and Site Name AWWU - ANCHORAGE WATER & WASTEWATER UTILITY HEADQUARTERS BUILDING. Soil contamination was discovered during the removal of two gasoline USTs in April of 1993. Approximately 630 tons of contaminated soils exceeding Level A Cleanup Standards were excavated and transported offsite for thermal treatment. ADEC has no additional information is available at this time on current site conditions.
Florists	C12	C12-1	A	3600 SPENARD RD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-1	A	700 W 41ST AVE	Plate 1	
Pet groomers	C34	C34-1	A	409 W NORTHERN LIGHTS BLVD # 1	Plate 1	
Printers, publishers, copiers	C37	C37-8	A	4639 KENT ST	Plate 1	
Scrap, salvage, or junk yards	D59	D59-1	A	1310 W. 56th Avenue	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-3	A	1310 W. 56th Avenue	Plate 1	ADEC Contaminated Sites File # CS100.1081 and Site Name BP Exploration Transfer Yard. Diesel contamination was found in vicinity of some BPX stored equipment in April of 1993. A site assessment was conducted and No Further Action was granted in July of 1993. This site is CLOSED.
Lumber processing and preservation	N04	N4-1	A	4300 B ST # 603	Plate 1	
Construction trade areas and materials	C09	C9-3	A	3120 DENALI ST	Plate 1	
Jewelry manufacturing	I22	I22-1	A	3000 A ST	Plate 1	
Pharmacies (with on-site wastewater disposal)	C35	C35-1	A	173 E NORTHERN LIGHTS BLVD	Plate 1	
Bowling centers	C06	C6-1	A	3717 MINNESOTA DR	Plate 1	
Seafood processing	N10	N10-2	A	555 W NORTHERN LIGHTS BLVD	Plate 1	
Tanks, heating oil, nonresidential (underground)	T16	T16-1	A	3900 DENALI ST	Plate 1	10,000-gallons, single-walled. Tank and piping leak detection is unknown.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-24	A	4500 BUSINESS PARK BLVD # C10	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-25	A	4500 BUSINESS PARK BLVD # 10	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-26	A	700 W NORTHERN LIGHTS BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-27	A	405 W 36TH AVE # 100	Plate 1	
Hardware stores	C17	C17-4	A	3227 ARCTIC BLVD	Plate 1	
Construction trade areas and materials	C09	C9-4	A	1206 CHUGACH WAY	Plate 1	
Construction trade areas and materials	C09	C9-5	A	1503 W 45TH AVE	Plate 1	
Beverage industry	I07	I7-2	A	598 W NORTHERN LIGHTS BLVD	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-2	A	3565 ARCTIC BLVD	Plate 1	
Construction trade areas and materials	C09	C9-6	A	3605 ARCTIC BLVD # 729	Plate 1	
Fish hatcheries	X46	X40-45	A	4606 GARFIELD ST	Plate 1	
Construction trade areas and materials	C09	C9-7	A	3333 DENALI ST	Plate 1	
Heavy equipment rental/storage	C18	C18-3	A	700 W 41ST AVE	Plate 1	
Hardware stores	C17	C17-5	A	4263 MINNESOTA DR	Plate 1	
Hardware stores	C17	C17-6	A	4011 ARCTIC BLVD # 206	Plate 1	
Heavy equipment rental/storage	C18	C18-4	A	101 W BENSON BLVD # 503	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-5	A	1401 W. 33RD	Plate 1	<i>ADEC LUST File # L55.02 and Site Name E. J. YOUNG.</i> Soil contamination was discovered during the excavation of an UST in May of 1990. Contaminated soils were excavated and stockpiled onsite for bioremediation in June of 1990. Treated soils were then placed back into the excavation pit in 1992. In December of 1997, the excavation surface was paved to decrease the amount of precipitation that infiltrates the soil at this site. On December 17, 1997, a No Further Action letter was issued by ADEC and site closure was complete.
Construction trade areas and materials	C09	C9-8	A	1207 W 47TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-9	A	3300 ARCTIC BLVD # 205	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-2	A	3400 SPENARD RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-3	A	411 W TUDOR RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-4	A	411 W TUDOR RD	Plate 1	
Jewelers	C19	C19-1	A	601 W 36TH AVE # 16	Plate 1	
Florists	C12	C12-2	A	343 W BENSON BLVD # 7	Plate 1	
Printers, publishers, copiers	C37	C37-9	A	3685 ARCTIC BLVD	Plate 1	
Textile manufacturing	I45	I45-1	A	510 W 41ST AVE	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-2	A	3231 SPENARD RD	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-3	A	701 W 41ST AVE	Plate 1	
Construction trade areas and materials	C09	C9-10	A	4101 ARTIC BLVD # 102	Plate 1	
Government vehicle maintenance facilities	X19	X19-2	A	3601 C ST # 1034	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-2	A	1311 W 40th Avenue	Plate 1	<i>ADEC Contaminated Sites File # CS100.148 and Site Name Former Auto Repair Shop.</i> Evicted tenants left drums and batteries, junk autos, and several open containers. Site assessment in August of 1995 found petroleum had been discharged from 55-gallon drums onto the driveway that resulted in contamination of soil in adjacent unpaved, shallow roadside ditch. Site is INACTIVE.

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U04	U4-38	A	2808 Eureka Street	Plate 1	ADEC Contaminated Sites File # CS96.67 and Site Name Former Icicle Seafood Unreg. UST. Soil and groundwater contamination was discovered resulting from an unregulated leaking 1,000-gallon commercial heating oil underground storage tank (UST). Contaminated soils were removed and groundwater monitoring continued up until late 1996 when petroleum hydrocarbon contamination decreased enough to issue a "No Further Action" request for the site. This site has been CLOSED since March of 1997.
Hardware stores	C17	C17-19	A	3309 SPENARD RD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-2	A	3903 COPE ST	Plate 1	
Construction trade areas and materials	C09	C9-11	A	3705 ARCTIC BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-10	A	2805 BERING ST	Plate 1	
Body shops (automotive)	C05	C5-3	A	1306 CHUGACH WAY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-28	A	3510 SPENARD RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-3	A	111 E NORTHERN LIGHTS BLVD	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-7	A	111 E NORTHERN LIGHTS BLVD	Plate 1	ADEC LUST File # L55.98 and Site Name GRAND AUTO SUPPLY #217. Waste oil contamination was discovered in the soils during the removal of a 500-gallon UST in October of 1990. Approximately 45 cubic yards of contaminated soil was excavated from the site and transported offsite. No further action was required and site closure was complete in August of 1992.
Construction trade areas and materials	C09	C9-12	A	4041 B ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-29	A	702 W 32ND AVE # 202	Plate 1	
Closed tanks, gasoline (underground)	T13	T13-1	A	3704 WILSON ST	Plate 1	500-gallon
Construction trade areas and materials	C09	C9-13	A	301 W NORTHERN LIGHTS # 300	Plate 1	
Printers, publishers, copiers	C37	C37-11	A	341 W TUDOR RD # 206	Plate 1	
Motor / motor vehicle repair shops	C31	C31-4	A	3207 DENALI ST	Plate 1	
Hardware stores	C17	C17-7	A	341 W TUDOR RD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-3	A	1408 W 36TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-14	A	4041 B ST # 202	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-5	A	301 E NORTHERN LIGHTS BLVD	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-3	A	301 E NORTHERN LIGHTS BLVD	Plate 1	ADEC LUST File # and Site Name HEGEDUS & SONS FIRESTONE. Petroleum soil & shallow groundwater contamination found during gasoline & waste oil tank removal. Amount of product loss unknown. Site closed out unless concrete apron is removed then further action will need to be taken.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-30	A	2909 ARCTIC BLVD # 101	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-3	A	701 SESAME ST # 200	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-2	A	4500 BUSINESS PARK BLVD # 18	Plate 1	
Taxidermists	C41	C41-1	A	704 W 45TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-15	A	3333 DENALI ST	Plate 1	
Hardware stores	C17	C17-8	A	1207 W 36TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-16	A	1204 CHUGACH WAY	Plate 1	
Hardware stores	C17	C17-9	A	500 W 41ST AVE	Plate 1	
Hardware stores	C17	C17-10	A	3703 SPENARD RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-31	A	541 W 36TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-17	A	3705 ARCTIC BLVD # 1189	Plate 1	
Jewelers	C19	C19-2	A	1303 W 33RD AVE	Plate 1	
Closed tanks, diesel (underground)	T09	T9-1	A	3202 ARCTIC BLVD.	Plate 1	1,000-gallons, tank closed in place
Motor / motor vehicle repair shops	C31	C31-5	A	3611 1/2 SPENARD RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-4	A	300 CALAIS DR	Plate 1	
Rubber fabrication or manufacturing	I38	I38-1	A	3380 C ST # 205	Plate 1	
Motor / motor vehicle repair shops	C31	C31-6	A	3330 DENALI ST	Plate 1	
Printers, publishers, copiers	C37	C37-12	A	4220 B ST # 210	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-4	A	4101 ARCTIC BLVD	Plate 1	
Closed tanks, diesel (underground)	T09	T9-2	A	909 CHUGACH WAY #12	Plate 1	1,000-gallons, closure status unknown
Furniture manufacturing, repair, and finishing shops	C14	C14-5	A	501 W 41ST AVE	Plate 1	
Printers, publishers, copiers	C37	C37-13	A	700 W 41ST AVE	Plate 1	
Hardware stores	C17	C17-11	A	4141 B ST # 207	Plate 1	
Asphalt and tar processing/storage	I03	I3-1	A	4141 B ST # 410	Plate 1	
Lumber processing and preservation	N04	N4-2	A	3501 DENALI ST # 202	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-32	A	401 E 36TH AVE	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

<b>Contaminant Source Category</b>	<b>Contaminant Source ID</b>	<b>CS ID tag</b>	<b>Zone</b>	<b>Location</b>	<b>Map</b>	<b>Comments</b>
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-33	A	3501 DENALI ST # 302	Plate 1	
Printers, publishers, copiers	C37	C37-14	A	600 W 41ST AVE # A	Plate 1	
Paint sales /service	C32	C32-1	A	555 W NORTHERN LIGHTS BL # 207	Plate 1	
Machine and metal work shops	I23	I23-1	A	200 W 34TH AVE # 979	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV s, snow machines, boats (with service department)	C27	C27-3	A	3710 SPENARD RD	Plate 1	
Gasoline stations (without repair shop)	C15	C15-1	A	150 W TUDOR RD	Plate 1	
Tanks, diesel (underground)	T08	T8-7	A	150 W TUDOR RD	Plate 1	no longer in use



Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-3	A	150 W TUDOR RD	Plate 1	ADEC LUST File # L30.12 and Site Name MAPCO - EXPRESS #5012. Petroleum hydrocarbon contaminated soil and groundwater was encountered in September of 1987 during the removal of three (3) USTs (two gasoline and one diesel). Approximately 1,100 cubic yards of contaminated soils were removed in May of 1989 and later transported offsite for treatment and disposal. Groundwater monitoring wells were installed to determine the magnitude and extent of contamination. Benzene concentrations during the groundwater sampling periods in 1990 and 1991 were as high as 35 ppm in MW-3. An in-situ vapor extraction system (VES) was installed to aid in the remediation of groundwater at this site in 1993 and operated on a continuous basis until April of 2000. In conjunction with the VES, an air injection system (AIS) was installed in October of 1996 following the discovery of free petroleum product on the water table. Groundwater samples taken September 28, 2001 indicated the presence of petroleum hydrocarbons in MW-11 (north of excavation) with benzene (0.97 ppm) still over the MCL (0.005 ppm) for drinking water. However, concentrations of all constituents have shown a marked decrease since the June 2000 sampling period. This is due mostly impart to the removal of the contaminated soils coupled with the natural attenuation and dispersion of the contaminant plume. The next sampling period was scheduled for March 2002. The results of those tests are currently not available.
Gasoline stations (without repair shop)	C15	C15-4	A	3201 C ST # 700	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-22	A	2805 DAWSON ST # 100	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-34	A	601 W 41ST AVE # 102	Plate 1	
Jewelry manufacturing	I22	I22-2	A	3300 ARCTIC BLVD	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-1	A	3737 ARCTIC BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-15	A	601 W 36TH AVE # 7	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-35	A	4101 ARCTIC BLVD	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-7	A	4333 BERING ST	Plate 1	<i>ADEC LUST File # L69.43 and Site Name MOA - BERING STREET MAINTENANCE SHOP.</i> Soil contamination was discovered during the removal of 5,000-gallon used oil UST in May of 1993 (Event ID 360). During this closure event, one 5,000-gallon gasoline and one 500-gallon used oil USTs were discovered. The two 5,000-gallon tanks were removed and the 500-gallon tank was closed in place. Approximately 400 cubic yards of contaminated soils were removed from the excavation. In October of 1996, a soil vapor extraction (SVE) system was installed to enhance the remediation of the site. In October of 1998, a 12,000-gallon gasoline UST was removed from the same property (Event ID 2656). Soils and groundwater contained gasoline range organics and BTEX over the MCL for ADEC Level A Cleanup Standards. Contaminated soils were removed from the excavation pit and transported offsite for thermal treatment. The Work Plan for this site entails quarterly groundwater monitoring in 2001. Laboratory results were expected in January 2002 and a report summarizing the results should have been submitted to ADEC in February 2002. ADEC is in the process of acquiring the results of the February 2002 sampling period.
Body shops (automotive)	C05	C5-4	A	1104 1/2 W 30TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-18	A	3702 SPENARD RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-36	A	240 E TUDOR RD # 100	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-5	A	3400 SPENARD RD # A	Plate 1	
Tanks, diesel (underground)	T08	T8-3	A	301 W NORTHERN LIGHTS BLVD	Plate 1	1,500-gallons, cathodically protected with inventory control, ATG and other methods
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-10	A	301 W NORTHERN LIGHTS BLVD	Plate 1	<i>ADEC LUST File # L55.161 and Site Name NATIONAL BANK OF ALASKA Corp HQ.</i> Soil and slight groundwater contamination was discovered during the removal of a 500-gallon diesel UST in November of 1992. Groundwater monitoring wells were installed and contaminated soils were excavated in June of 1993. Contaminated soils were spread onsite due to their low level of contamination. Monitoring wells were decommissioned and site closure was complete on June 22, 1993.
Construction trade areas and materials	C09	C9-19	A	712 W 36TH AVE	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-37	A	3330 EAGLE ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-6	A	3408 ARCTIC BLVD	Plate 1	
Heavy equipment rental/storage	C18	C18-5	A	4700 BUSINESS PARK BLVD # 19	Plate 1	
Leather processing	C24	C24-1	A	3605 ARCTIC BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-16	A	4011 ARCTIC BLVD # 103	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-38	A	207 E NORTHERN LIGHTS BL # 201	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-39	A	4101 ARCTIC BLVD	Plate 1	
Hardware stores	C17	C17-12	A	702 W 32ND AVE	Plate 1	
Windshield/glass repair shops	C44	C44-1	A	3221 DENALI ST	Plate 1	
Heavy equipment rental/storage	C18	C18-6	A	101 W BENSON BLVD # 503	Plate 1	
Construction trade areas and materials	C09	C9-20	A	240 E TUDOR RD # 200	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-4	A	240 E TUDOR RD # 200	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-40	A	3601 C ST # 260	Plate 1	
Construction trade areas and materials	C09	C9-21	A	3510 SPENARD RD # 105	Plate 1	
Metal refining	I28	I28-1	A	3406 ARCTIC BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-41	A	4000 CREDIT UNION DR # 600	Plate 1	
Hardware stores	C17	C17-13	A	3209 SPENARD RD	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-8	A	3707 ARCTIC BLVD	Plate 1	<i>ADEC LUST File # 55.103 and Site Name LK COMSTOCK AND COMPANY</i> . Near surface soil contamination was discovered during the removal of one 800-gallon diesel tank and one 1200-gallon gasoline UST in January of 1991. Contaminated soils were excavated and transported offsite from disposal. A groundwater monitoring well installed downgradient of the contaminated area detected no petroleum hydrocarbons. No further action was issued by ADEC in February of 1992.
Petroleum product bulk station/terminals	X11	X11-1	A	3111 C ST # 500	Plate 1	
Heavy equipment rental/storage	C18	C18-7	A	502 W NORTHERN LIGHTS BLVD	Plate 1	
Dry cleaners	C10	C10-1	A	2700 A ST	Plate 1	
Injection wells (Class V) Industrial Process Water & Water Disposal Wells	D40	D40-1	A	2700 A ST	Plate 1	
Printers, publishers, copiers	C37	C37-17	A	702 W NORTHERN LIGHTS BLVD	Plate 1	
Meat processing	N05	N5-1	A	3701 EUREKA ST # 10B	Plate 1	
Lawn and garden supplies/services	C23	C23-2	A	3807 COPE ST	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-3	A	520 W 41ST AVE # A	Plate 1	
Welding shops	C43	C43-1	A	3705 ARCTIC BLVD # 111	Plate 1	
Construction trade areas and materials	C09	C9-22	A	1401 W 34TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-23	A	1399 W 34TH AVE # 205	Plate 1	
Motor / motor vehicle repair shops	C31	C31-7	A	1207 CHUGACH WAY	Plate 1	
Printers, publishers, copiers	C37	C37-18	A	600 W NORTHERN LIGHTS BLVD	Plate 1	
Hardware stores	C17	C17-14	A	702 W 32ND AVE # 101	Plate 1	
Construction trade areas and materials	C09	C9-24	A	1206 W 47TH AVE # A	Plate 1	
Motor / motor vehicle repair shops	C31	C31-8	A	1106 WILSHIRE AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-1	A	1106 WILSHIRE AVE	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-1	A	810 W Tudor Road	Plate 1	<i>ADEC Contaminated Sites File # CS92.30 and Site Name AFSC Pipeline Tudor &amp; Arctic . During the investigation of a leaking underground storage tanks at the Texaco station on the corner of Tudor and Arctic in April of 1994, free petroleum product was identified on the water table. The free product was identified as a diesel fuel, specifically jet fuel. Since Texaco did not distribute diesel fuel the suspect source is the jet fuel pipeline located along Arctic Boulevard. Approximately 500 feet of pipeline was removed in May of 2000. Eleven new monitoring wells and a free product recovery well was installed in October of 2000. Quarterly groundwater monitoring continues. This site is ACTIVE.</i>
Sign manufacturing	I39	I39-2	A	3909 ARCTIC BLVD	Plate 1	
Paint sales /service	C32	C32-2	A	3705 ARCTIC BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-19	A	3201 C ST # 115	Plate 1	
Hardware stores	C17	C17-15	A	3300 C ST	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-5	A	207 E NORTHERN LIGHTS # 103-A	Plate 1	
Construction trade areas and materials	C09	C9-25	A	3700 SPRINGER ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-7	A	401 W TUDOR RD # C	Plate 1	
Asphalt and tar processing/storage	I03	I3-2	A	701 W 41ST AVE # 103	Plate 1	
Hardware stores	C17	C17-16	A	3205 SPENARD RD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-6	A	1107 W 36TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-42	A	3803 MCCAIN LOOP	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Florists	C12	C12-3	A	601 W 41ST AVE # B	Plate 1	
Printers, publishers, copiers	C37	C37-20	A	521 W 41ST AVE	Plate 1	
Dry cleaners	C10	C10-2	A	2811 DAWSON ST	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-11	A	3630 SPRINGER ST	Plate 1	<i>ADEC LUST File # L55.277 and Site Name SUNRISE DISTRIBUTING CO, INC.</i>
Hardware stores	C17	C17-17	A	3695 SPRINGER ST	Plate 1	
Gasoline stations (without repair shop)	C15	C15-2	A	101 E NORTHERN LIGHTS BLVD	Plate 1	
Tanks, gasoline (underground)	T12	T12-5	A	101 E NORTHERN LIGHTS BLVD	Plate 1	20,000-gallons, double-walled
Tanks, gasoline (underground)	T12	T12-6	A	101 E NORTHERN LIGHTS BLVD	Plate 1	15,000-gallons, double-walled
Tanks, diesel (underground)	T08	T8-8	A	101 E NORTHERN LIGHTS BLVD	Plate 1	15,000-gallon
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-9	A	101 E NORTHERN LIGHTS BLVD	Plate 1	<i>ADEC LUST File # 55.130 and Site Name TESORO NORTHSTORE #72 and BAILEYS RENT ALL (FORMERLY).</i> In October of 1991, soil contamination was discovered during the removal of a diesel, gasoline, and used oil underground tanks (500 gallons each). Contaminated soils were excavated. No further action was issued and site cleanup was complete in September of 1996..
Tanks, diesel (underground)	T08	T8-2	A	3601 C ST	Plate 1	500-gallons, double-walled, cathodically protected with interstit. Double-wall Monitoring
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-12	A	3601 C ST	Plate 1	<i>ADEC LUST File # L55.327 nfa and Site Name THE FRONTIER BUILDING.</i> Minor soil contamination was discovered during the removal of a 300-gallon diesel UST in February of 1999. Contaminated soils were removed from the excavation. A No Further Action letter written by ADEC on 05 May 1999.
Printers, publishers, copiers	C37	C37-21	A	300 W 36TH AVE	Plate 1	
Seafood processing	N10	N10-3	A	2909 ARTIC BLVD	Plate 1	
Hardware stores	C17	C17-18	A	701 SESAME ST # 102	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-2	A	341 W TUDOR RD	Plate 1	
Pest extermination services/pesticide sales	C33	C33-2	A	1104 W 30TH AVE	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-4	A	401 W Tudor Road	Plate 1	<i>ADEC Contaminated Sites File # CS100.158 and Site Name Tudor Rd. Dimond Z.</i> Surface staining and soil contamination was discovered during a property transfer on May 26, 1994. Minor groundwater contamination had occurred. This site is CLOSED (September 1999).
Lawn and garden supplies/services	C23	C23-3	A	3804 WILSON ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-43	A	701 SESAME ST # 101	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Florists	C12	C12-4	A	242 W 34TH AVE	Plate 1	
Government vehicle maintenance facilities	X19	X19-3	A	3301 C ST # 300	Plate 1	
Closed tanks, lubricants or other petroleum products (underground)	T21	T21-1	A	300 E 36TH AVE	Plate 1	500-gallons
Government vehicle maintenance facilities	X19	X19-1	A	300 E 36TH AVE	Plate 1	
Printers, publishers, copiers	C37	C37-22	A	200 W 34TH AVE # 658	Plate 1	
Pharmacies (with on-site wastewater disposal)	C35	C35-2	A	3101 A ST	Plate 1	
Construction trade areas and materials	C09	C9-26	A	3909 ARCTIC BLVD	Plate 1	
Meat processing	N05	N5-2	A	405 W BENSON BLVD	Plate 1	
Construction trade areas and materials	C09	C9-27	A	4101 ARCTIC BLVD # 203	Plate 1	
Motor / motor vehicle repair shops	C31	C31-9	A	1303 W 33RD AVE	Plate 1	
Construction trade areas and materials	C09	C9-28	A	511 W 41ST AVE	Plate 1	
Jewelry manufacturing	I22	I22-3	A	3300 ARCTIC BLVD	Plate 1	
Gasoline stations (without repair shop)	C15	C15-6	A	3500 C ST	Plate 1	
Tanks, gasoline (underground)	T12	T12-7	A	3500 C ST	Plate 1	20,000-gallons, double-walled
Tanks, gasoline (underground)	T12	T12-8	A	3500 C ST	Plate 1	15,000-gallons, double-walled
Tanks, diesel (underground)	T08	T8-1	A	3500 C ST	Plate 1	10,000-gallon, double-walled
Gasoline stations (without repair shop)	C15	C15-5	A	3201 C ST	Plate 1	
Tanks, gasoline (underground)	T12	T12-18	A	3201 C ST	Plate 1	
Tanks, diesel (underground)	T08	T8-10	A	3201 C ST	Plate 1	
Gasoline stations (without repair shop)	C15	C15-8	A	3727 SPENARD RD	Plate 1	
Tanks, gasoline (underground)	T12	T12-1	A	3727 SPENARD RD	Plate 1	10,000-gallons, double-walled
Tanks, gasoline (underground)	T12	T12-2	A	3727 SPENARD RD	Plate 1	10,000-gallons, double-walled
Tanks, gasoline (underground)	T12	T12-3	A	3727 SPENARD RD	Plate 1	10,000-gallons, double-walled
Tanks, gasoline (underground)	T12	T12-4	A	3727 SPENARD RD	Plate 1	10,000-gallons, double-walled
Tanks, diesel (underground)	T08	T8-11	A	3727 SPENARD RD	Plate 1	10,000-gallon, double-walled

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-8	A	3727 SPENARD RD	Plate 1	<i>ADEC LUST File # L.30.30 and Site Name WILLIAMS EXPRESS #5030.</i> A 2,500-gallon heating oil UST was removed from the site in 1991. Confirmation soil samples indicated the presence of petroleum hydrocarbons. Further site characterization work in 1991 confirmed impacted soils and groundwater. In June and July of 1999 soils were excavated to determine severity of the release during tank upgrades (Event ID 2349). Approximately 120 cubic yards of fuel contaminated soil was removed from the excavation and transported offsite for treatment and disposal. To evaluate the magnitude and extent of groundwater contamination, six monitoring wells were installed. Groundwater samples confirmed the presence of elevated petroleum hydrocarbons. On March 22, 2001 gasoline was spilled on-site due to overfilling of the USTs (Event ID 2660). An additional monitoring well was installed and sampled. The results of that sampling verified the presence of petroleum impacted groundwater. It is not apparent whether or not the impacted groundwater is a result of the 2001 spill event. the existing contaminant plume from the former UST excavations on-site, or contaminant sources on adjacent properties. A phased approach for addressing groundwater contamination at this site is described in a November 7, 2001submittal of a Corrective Action Plan (CAP). In the spring of 2002, the CAP will be implemented and will include a combined vapor extraction and air injection system to treat the impacted contaminant source area. Groundwater was sampled in March/April of 2002. The results of those tests are currently not available.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-44	A	341 W TUDOR RD # 106	Plate 1	
Lubrication shops	C25	C25-1	A	150 E BENSON BLVD	Plate 1	
Gasoline stations (with repair shop)	C16	C16-3	A	3304 SPENARD RD	Plate 1	
Tanks, gasoline (underground)	T12	T12-13	A	3304 SPENARD RD	Plate 1	12,000-gallons, single-walled, Tank Tightness Testing, Inventory Control, ATG, and Groundwater Monitoring
Tanks, gasoline (underground)	T12	T12-14	A	3304 SPENARD RD	Plate 1	10,000-gallons, single-walled, Tank Tightness Testing, Inventory Control, ATG, and Groundwater Monitoring
Tanks, gasoline (underground)	T12	T12-15	A	3304 SPENARD RD	Plate 1	10,000-gallons, single-walled, Tank Tightness Testing, Inventory Control, ATG, and Groundwater Monitoring

Table 1

**Contaminant Source Inventory for  
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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Tanks, lubricants or other petroleum products (underground)	T20	T20-2	A	3304 SPENARD RD	Plate 1	550-gallons, single-walled, Manual Tank Testing, Tank Tightness Testing, and Inventory Control
Tanks, diesel (underground)	T08	T8-5	A	3304 SPENARD RD	Plate 1	8,000-gallon, single-walled with Auto Line Leak Detection and groundwater monitoring
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-2	A	3304 SPENARD RD	Plate 1	<i>ADEC LUST File # L25.07.44 and Site Name Y &amp; B TEXACO #24.</i> Gasoline and waste oil contamination was encountered in soils during an waste oil UST removal in August of 1988. Approximately 300 cubic yards of soil was excavated and disposed of in an ADEC approved manner. The excavation was then backfilled with clean gravel and sand prior to the installation of the new UST system. Site cleanup was complete in October of 1988.
Tanks, diesel (underground)	T08	T8-4	A	3600 DENALI ST	Plate 1	1,000-gallons, double-walled
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-13	A	3600 DENALI ST	Plate 1	<i>ADEC LUST File # L69.62 and Site Name Z J LOUSSAC PUBLIC LIBRARY.</i> Minimal soil contamination was discovered during the removal of a 1,000-gallon diesel UST in December of 1997. The tank was removed and a new 1,000-gallon double-walled UST was put in its place. No further action was required by ADEC in September of 1998.
Printers, publishers, copiers	C37	C37-1	A	4011 ARTIC BLVD # 107	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-1	A	3300 C ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-2	A	3601 C ST # 574	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-3	A	3201 C ST # 107	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-4	A	3401 DENALI ST # 203	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-5	A	405 W 36TH AVE # 101	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-6	A	3340 ARCTIC BLVD # 104	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-7	A	3401 DENALI ST # 102	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-8	A	240 E TUDOR RD # 100	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-9	A	3401 DENALI ST # 201	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-10	A	741 SESAME ST	Plate 1	



Table 1

**Contaminant Source Inventory for  
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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-11	A	3401 DENALI ST # 102	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-12	A	3201 C ST # 107	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-13	A	4060 B ST # 110	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-14	A	3900 ARCTIC BLVD # 103	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-15	A	4141 B ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-16	A	4300 B ST # 202	Plate 1	
Residential area	R01	R1-1	A	Zone A Protection Area	3	266 acres
Landscaping around commercial, industrial, or government buildings	X03	X3-1	A	Eureka and 36th Avenue	3	
Landscaping around commercial, industrial, or government buildings	X03	X3-2	A	3800 Arctic Blvd	3	
Landscaping around commercial, industrial, or government buildings	X03	X3-3	A	3500 Spenard	3	
Landscaping around commercial, industrial, or government buildings	X03	X3-4	A	401 - 405 Northern Lights Blvd	3	
Municipal or city parks (with green areas)	X04	X4-1	A	Midtown Park	3	
Municipal or city parks (with green areas)	X04	X4-2	A	Springer Park	3	
Municipal or city parks (with green areas)	X04	X4-3	A	Pop Carr park	3	
Municipal or city parks (with green areas)	X04	X4-4	A	48th St	3	
Municipal or city parks (with green areas)	X04	X4-5	A	Arctic/Benson Park	3	
Municipal or city parks (with green areas)	X04	X4-6	A	Wilson Street Park	3	
Highways and roads, paved (cement or asphalt)	X20	X20-1 - X20-80	A	All roads in Zone A Protection Area	4	
Residential septic systems (serves one single-family home)	R02	R2-1 - R2-6	A	All septic systems in Zone A Protection Area	5	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-1 - D1-115	A	All sewerlines in Zone A Protection Area	5	
Furniture manufacturing, repair, and finishing shops	C14	C14-7	B	4841 FAIRBANKS ST # 1	Plate 1	
Gasoline stations (without repair shop)	C15	C15-12	B	5121 ARCTIC BLVD	Plate 1	
Tanks, gasoline (underground)	T12	T12-38	B	5121 ARCTIC BLVD	Plate 1	
Tanks, diesel (underground)	T08	T8-31	B	5121 ARCTIC BLVD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-8	B	501 W INTL AIRPORT RD	Plate 1	

Table 1

**Contaminant Source Inventory for  
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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Motor / motor vehicle repair shops	C31	C31-24	B	601 W 58TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-12	B	737 E INTL AIRPORT RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-12	B	4617 OLD SEWARD HWY	Plate 1	
Printers, publishers, copiers	C37	C37-29	B	549 W INTL AIRPORT RD # 812	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATV's, snow machines (with service department)	C30	C30-5	B	512 W INTL AIRPORT RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-10	B	600 Telephone Avenue	Plate 1	
Tanks, gasoline (underground)	T12	T12-28	B	600 Telephone Avenue	Plate 1	10,000-gallons, double-walled and cathodically protected
Tanks, heating oil, nonresidential (underground)	T16	T16-2	B	600 Telephone Avenue	Plate 1	1,000-gallons, single-walled. Tank and piping leak detection is unknown.
Tanks, diesel (underground)	T08	T8-19	B	600 Telephone Avenue	Plate 1	10,000-gallon, double-walled and cathodically protected
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-5	B	600 Telephone Avenue	Plate 1	<i>ADEC Contaminated Sites File # CS 100.155 and Site Name ACS Warehouse.</i> Hydraulic fluid released from a floor lift under the facility building. Approximately 40 cubic yards of soil was reportedly excavated from this area. Analytical results indicate that diesel range organic (DRO) concentrations remaining in the soil were as high as 2,130 mg/kg and residual range organic (RRO) concentration at 6,350 mg/kg. This site is currently INACTIVE.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-20	B	600 Telephone Avenue	Plate 1	<i>ADEC LUST File # L69.21 and Site Name MOA - ANCHORAGE TELEPHONE UTILITY.</i> This is a combination ADEC Contaminated Site (CS 100.155 ) and LUST Site. See Contaminant Source ID Tag U4-5. Petroleum hydrocarbon contamination was found during an underground tank system removal in July of 1991. The tanks and contaminated soils were excavated from the site and cleanup was completed in March of 1993.
Motor / motor vehicle repair shops	C31	C31-25	B	5610 SILVERADO WAY # A3	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-5	B	3901 OLD SEWARD HWY	Plate 1	
Heavy equipment rental/storage	C18	C18-18	B	100 W INTERNATIONAL AIRPORT RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-26	B	737 E INTL AIRPORT RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-16	B	5235 A ST	Plate 1	
Construction trade areas and materials	C09	C9-37	B	261 E 56TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-38	B	520 W 58TH AVE # J	Plate 1	

Table 1

**Contaminant Source Inventory for  
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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-4	B	910 W INTERNATIONAL AIRPORT RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-10	B	4109 OLD SEWARD HWY # 100	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-25	B	3200 SEWARD HWY	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-5	B	350 E INTL AIRPORT RD	Plate 1	
Construction trade areas and materials	C09	C9-39	B	720 W 58TH AVE # D	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-50	B	4637 OLD SEWARD HWY	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-6	B	4550 Gambell Street	Plate 1	<i>No ADEC Contaminated Sites File #. Site Name Alaska Club Partners. Drums of petroleum products have spilled over the years creating patches of contamination in the surface and subsurface soil. Contaminated soil are stockpiled (12 cy) and will be transported offsite for thermal treatment in the spring of 2002. Site is currently ACTIVE.</i>
Motor/motor vehicle supplies stores	C28	C28-17	B	552 W 58TH AVE # J	Plate 1	
Construction trade areas and materials	C09	C9-32	B	4953 EAGLE ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-18	B	1200 W INTL AIRPORT RD	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-28	B	1200 W INTL AIRPORT RD	Plate 1	<i>ADEC LUST File # L55.307 and Site Name ALASKA DIESEL ELECTRIC INC. During the removal of a 1,000-gallon gasoline UST in November 1994, soil contamination was discovered below ADEC Level B cleanup levels. The tank was removed and the excavation pit was backfilled with the soil. ADEC issued a No Further Action letter in August of 1998.</i>
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-80	B	540 W INTERNATIONAL AIRPORT RD	Plate 1	
Construction trade areas and materials	C09	C9-40	B	5610 SILVERADO WAY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-68	B	3546 LATOUCHE ST	Plate 1	
Heavy equipment rental/storage	C18	C18-19	B	5610 SILVERADO WAY # A7	Plate 1	
Leather processing	C24	C24-2	B	4417 OLD SEWARD HWY	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-9	B	144 E POTTER DR	Plate 1	
Battery manufacturing/recycling	I06	I6-2	B	4142 INGRA ST	Plate 1	
Hardware stores	C17	C17-28	B	500 W POTTER DR	Plate 1	

Table 1

**Contaminant Source Inventory for  
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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-11	B	500 W POTTER DR	Plate 1	ADEC Contaminated Sites File # CS CS100.65 and Site Name ALASKA HYDRAULICS INC.. A citizens complaint was made about used diesel oil being dumped on the adjacent property. The practice had been going on for some time according to the complainant. Contaminated soils were excavated in August of 1991 and no further action was granted in July of 1992. Site is CLOSED.
Hardware stores	C17	C17-20	B	4700 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-41	B	649 W 54TH AVE	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-16	B	325 W POTTER DR	Plate 1	ADEC LUST File # L55.174 and Site Name ALASKA NEWS AGENCY. Petroleum contaminated soil and groundwater was encountered during the removal of a 2,000 gallon unleaded gasoline UST in August of 1993. A LUST cleanup grant was received by the responsible party in November of 1997. Soil and groundwater samples taken in May of 1998 indicated that the benzene plume had not migrated more than 60 feet from the UST excavation area. In August of 1998, a soil vapor extraction (SVE) system was tested on-site. ADEC file records show that monitoring wells were last sampled on October 21, 1999. No additional information is available at this time.
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-6	B	712 W POTTER DR	Plate 1	
Printers, publishers, copiers	C37	C37-30	B	401 W INTL AIRPORT RD # 11	Plate 1	
Heavy equipment rental/storage	C18	C18-20	B	261 E 56TH AVE # A	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-7	B	700 W 58TH AVE # J	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-81	B	549 W INTL AIRPORT RD # B2	Plate 1	
Motor / motor vehicle repair shops	C31	C31-13	B	600 E 48TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-14	B	600 E 48TH AVE	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-6	B	5630 SILVERADO WAY # 8	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-8	B	4651 Gambell Street	Plate 1	

Table 1

**Contaminant Source Inventory for  
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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-15	B	4651 Gambell Street	Plate 1	<i>ADEC Contaminated Sites File # CS100.33 and Site Name Alaska Vehicle Accessories. Surficial waste oil contaminated soils containing petroleum and chlorinated hydrocabons was documented in November of 1989. Sludge from the site's automotive workshop oil/water separator was spread in an adjacent alley. Approximately 100 cubic yards of contaminated soils excavated and transported offsite. File exists in CERCLA system but had no EPA ID# assigned. No further action was required as of March 1992. This site is CLOSED.</i>
Motor / motor vehicle repair shops	C31	C31-27	B	107 E 54TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-23	B	107 E 54TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-51	B	3315 FAIRBANKS ST	Plate 1	
Vocational training facilities	X45	X45-1	B	701 E TUDOR RD	Plate 1	
Seafood processing	N10	N10-5	B	1020 W INTL AIRPORT RD	Plate 1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-2	B	4000 OLD SEWARD	Plate 1	
Hardware stores	C17	C17-21	B	3002 SEWARD HWY	Plate 1	
Hardware stores	C17	C17-22	B	999 E TUDOR RD	Plate 1	
Construction trade areas and materials	C09	C9-33	B	5100 CORDOVA ST # 100	Plate 1	
Body shops (automotive)	C05	C5-10	B	1313 LAONA CIR	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-7	B	550 W 54TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-82	B	549 W INTL AIRPORT RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-19	B	552 W 58TH AVE # H	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-13	B	220 E INTL AIRPORT RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-52	B	4000 OLD SEWARD HWY # 100	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-34	B	224 E 54TH AVE	Plate 1	

Table 1

**Contaminant Source Inventory for  
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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-22	B	3300 FAIRBANKS ST	Plate 1	ADEC LUST File # L73.17 and Site Name ANCHORAGE DATA CENTER. Diesel contamination of soils was found when a 2,000-gallon diesel UST was removed in October of 1997. Approximately 35 cubic yards of impacted soil was excavated and transported off-site for thermal treatment. Clean, imported fill material was used to backfill the excavation pit. LUST corrective action was initiated in March of 1998. No additional information is available at this time on the status of groundwater contamination remediation activities at this site.
Heavy equipment rental/storage	C18	C18-15	B	1415 E TUDOR RD	Plate 1	
Body shops (automotive)	C05	C5-11	B	117 E 53RD AVE	Plate 1	
Pet groomers	C34	C34-2	B	3801 OLD SEWARD HWY # 9	Plate 1	
Sign manufacturing	I39	I39-3	B	4600 CORDOVA ST	Plate 1	
Hardware stores	C17	C17-29	B	380 E 54TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-42	B	5401 CORDOVA ST # 203	Plate 1	
Metal fabrication	I25	I25-1	B	5621 ARCTIC BLVD	Plate 1	
Hardware stores	C17	C17-30	B	5735 B ST	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATV's, snow machines (with service department)	C30	C30-8	B	1130 W INTL AIRPORT RD	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATV's, snow machines (with service department)	C30	C30-9	B	601 W 58TH AVE	Plate 1	
Gasoline stations (with repair shop)	C16	C16-6	B	1231 Redwood Court	Plate 1	
Tanks, gasoline (underground)	T12	T12-37	B	1231 Redwood Court	Plate 1	
Tanks, diesel (underground)	T08	T8-28	B	1231 Redwood Court	Plate 1	
Printers, publishers, copiers	C37	C37-25	B	1108 E NORTHERN LIGHTS BLVD	Plate 1	
Stone and clay processing/manufacturing	I43	I43-1	B	661 E 48TH AVE	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-7	B	5430 FAIRBANKS ST # 7	Plate 1	
Quarries (sand, gravel, rock, other?)	E10	E10-1	B	314 E INTERNATIONAL AIRPORT RD	Plate 1	
Taxidermists	C41	C41-2	B	520 W 58TH AVE # D	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-6	B	909 E TUDOR RD	Plate 1	

Table 1

**Contaminant Source Inventory for  
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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Motor / motor vehicle repair shops	C31	C31-28	B	600 W 58TH AVE # J	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-8	B	520 W 58TH AVE # F	Plate 1	
Hardware stores	C17	C17-31	B	621 W 54TH AVE	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-11	B	4505 OLD SEWARD HWY	Plate 1	
Aircraft maintenance shops	C01	C1-1	B	639 W INTL AIRPORT RD # 30	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-23	B	852 W INTERNATIONAL	Plate 1	ADEC LUST File # L55.168 and Site Name B & H PROPERTIES. Soil contamination was found during the closure of a 1,000-gallon gasoline UST in May of 1993. UST excavation soil met ADEC Level B cleanup standards. Approximately 10 cubic yards of contaminated soils were removed from the excavation and transported offsite for thermal treatment. No further action was granted in October of 1993.
Motor vehicle/general storage yards/facilities	X27	X27-3	B	4640 GAMBELL ST	Plate 1	
Heavy equipment rental/storage	C18	C18-8	B	4730 BUSINESS PARK BLVD # 44	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-69	B	3730 RHONE CIR	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-9	B	611 E INTL AIRPORT RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-62	B	1515 E TUDOR RD # 3	Plate 1	
Hardware stores	C17	C17-32	B	5801 ARCTIC BLVD	Plate 1	
Hardware stores	C17	C17-23	B	4831 OLD SEWARD HWY # 115	Plate 1	
Heavy equipment rental/storage	C18	C18-9	B	4111 INGRA ST	Plate 1	
Tanks, heating oil, nonresidential (underground)	T16	T16-3	B	900 E BENSON BLVD.	Plate 1	15,000-gallons, single-walled. Tank and piping leak detection is unknown.
Tanks, diesel (underground)	T08	T8-20	B	900 E BENSON BLVD.	Plate 1	4,000-gallon, fiberglass reinforced plastic
Construction trade areas and materials	C09	C9-43	B	401 W INTL AIRPORT RD # 12	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-20	B	549 W INTL AIRPORT RD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-8	B	3048 REDWOOD ST	Plate 1	
Sign manufacturing	I39	I39-4	B	5861 ARCTIC BLVD # A	Plate 1	
Printers, publishers, copiers	C37	C37-26	B	1108 E NORTHERN LIGHTS BLVD	Plate 1	
Lumber processing and preservation	N04	N4-3	B	999 E TUDOR RD # 1	Plate 1	
Meat processing	N05	N5-3	B	324 E INTL AIRPORT RD	Plate 1	

Table 1

**Contaminant Source Inventory for  
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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Construction trade areas and materials	C09	C9-44	B	852 W INTERNATIONAL RD # 101	Plate 1	
Motor / motor vehicle repair shops	C31	C31-14	B	4625 OLD SEWARD HWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-70	B	3315 VASSAR DR	Plate 1	
Heavy equipment rental/storage	C18	C18-10	B	5100 CORDOVA ST	Plate 1	
Pharmacies (with on-site wastewater disposal)	C35	C35-3	B	600 E NORTHERN LIGHTS BLVD	Plate 1	
Machine and metal work shops	I23	I23-2	B	700 E 46TH AVE	Plate 1	
Metal fabrication	I25	I25-2	B	212 E INTL AIRPORT RD	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-17	B	212 E INTL AIRPORT RD	Plate 1	<i>ADEC LUST File # L55.92 and Site Name CENTRAL PLUMBING &amp; HEATING INC.</i> Gasoline contamination was present in the soil and groundwater during an underground storage tank excavation in August of 1990. Late in 1991, benzene and 1,2-dichloroethane exceeded the MCL for drinking water in one groundwater monitoring well. A total of 139 tons of contaminated soils were removed from the site for thermal treatment. Groundwater monitoring continued through 1995 when ADEC issued a No Further Action letter.
Gasoline stations (with repair shop)	C16	C16-4	B	2927 SEWARD HWY	Plate 1	
Tanks, diesel (underground)	T08	T8-27	B	2927 SEWARD HWY	Plate 1	4,000-gallon, single-walled with no leak detection system
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-10	B	2927 SEWARD HWY	Plate 1	<i>ADEC LUST File # L10.01 and Site Name CHEVRON - #91518.</i> Gasoline contaminated soil and groundwater was found when underground storage tanks were removed and monitoring wells installed in September of 1987. Groundwater monitoring wells onsite contained benzene concentrations as high as 7.8 ppm in 1990. Soil vapor extraction (SVE) and air sparge (AS) systems were installed in 1989 to aid in the remediation of the groundwater. The results of tests in 1990 showed that the SVE system was not effective in reducing the contamination to the degree expected. However, benzene levels in monitoring wells have been decreasing with time. The SVE and AS systems were deactivated in 1993 and reactivated in 1999. Quarterly groundwater monitoring continued from 1991 through 1995 and was later reduced to semi-annual monitoring. Monitoring results from the October 2001 sampling period indicates the presence of a contaminant plume that extends off site approximately 200 feet to the north-northwest. <i>Concentrations of RTFX and gasoline range organics are</i>



Table 1

**Contaminant Source Inventory for  
MOA Well #12**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
						highest in MW-6 and MW-9, located north of Wendy's Restaurant and the median of the Seward Highway, respectively. These concentrations continue to be above the MCL for drinking water. The next groundwater sampling period is scheduled for May of 2002.
Gasoline stations (without repair shop)	C15	C15-17	B	2811 New Seward Highway	Plate 1	
Tanks, gasoline (underground)	T12	T12-67	B	2811 New Seward Highway	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-39	B	2811 New Seward Highway	Plate 1	ADEC LUST File # L20.06 and Site Name GARRETT'S TESORO #1. In July 1997, a geotechnical investigation identified soil and groundwater contamination associated with two 10,000-gallon gasoline USTs, one 10,000-gallon diesel UST, one 500-gallon used oil UST, one 250-gallon used oil UST, six fuel dispensers, and a vehicle lube pit and sand trap/oil-water separator. Dissolved petroleum hydrocarbons were detected in groundwater monitoring wells onsite. A total of 1,029 tons of petroleum impacted soils were removed during the excavation of the UST systems and transported offsite for thermal treatment. Currently, existing contamination at this site as well as its current UST system (26,000-gallon, three-compartment UST) is being monitored through five (5) groundwater monitoring wells. A soil vapor extraction (SVE) has also been installed to accelerate the remediation of this site. Samples/results taken August 17, 2001 exceeded ADEC Groundwater Cleanup Levels in one well located in the northwest corner of the property (Test Hole MW). Petroleum hydrocarbons were not detected in all monitoring wells onsite and offsite for this sampling period. This site is monitored semi-annually. Therefore, the next sampling period schedule for this site is May of 2002.
Gasoline stations (with repair shop)	C16	C16-7	B	815 W INTL AIRPORT RD	Plate 1	
Tanks, gasoline (underground)	T12	T12-29	B	815 W INTL AIRPORT RD	Plate 1	10,000-gallons, double-walled, Vapor Monitoring, and Auto Line Leak Detection
Tanks, gasoline (underground)	T12	T12-30	B	815 W INTL AIRPORT RD	Plate 1	10,000-gallons, double-walled, Vapor Monitoring, and Auto Line Leak Detection
Tanks, gasoline (underground)	T12	T12-31	B	815 W INTL AIRPORT RD	Plate 1	10,000-gallons, double-walled, Vapor Monitoring, and Auto Line Leak Detection
Tanks, heating oil, nonresidential (underground)	T16	T16-7	B	815 W INTL AIRPORT RD	Plate 1	1,000-gallons, single-walled, Manual Tank Testing, Tank Tightness Testing, and Inventory Control.
Tanks, diesel (underground)	T08	T8-21	B	815 W INTL AIRPORT RD	Plate 1	40-gallons
Tanks, diesel (underground)	T08	T8-22	B	815 W INTL AIRPORT RD	Plate 1	40-gallons

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Tanks, diesel (underground)	T08	T8-23	B	815 W INTL AIRPORT RD	Plate 1	40-gallons
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-19	B	815 W INTL AIRPORT RD	Plate 1	ADEC LUST File # L10.20 and Site Name CHEVRON - 96585. Soil and groundwater contamination was discovered in July of 1997 stemming from a leaking 1,000-gallon used oil UST. A total of 108.6 tons of hydrocarbon contaminated soil was excavated and exported off-site for treatment by thermal desorption. Three groundwater monitoring wells were installed on-site to determine the direction of groundwater flow and characterize the magnitude and extent of contamination in the unconfined aquifer. Samples taken from monitoring wells in May of 2001 indicated elevated levels of petroleum hydrocarbons including MTBE, all above Category A Cleanup Levels for groundwater. The extent of groundwater contamination has not been fully characterized at this site. In response to this, Chevron plans on installing additional monitoring wells. No information is available at this time with regards to the plan for new monitoring well installation as well as the results of samples taken in September of 2001.
Photography supplies/photo processing laboratories	C36	C36-6	B	5401 CORDOVA ST # 204	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-10	B	700 W 58TH AVE # J	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-10	B	5401 OLD SEWARD HWY	Plate 1	
Motor / motor vehicle repair shops	C31	C31-29	B	501 W INTL AIRPORT RD # 19	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-6	B	4710 BUSINESS PARK BLVD # 24	Plate 1	
Hardware stores	C17	C17-33	B	5401 CORDOVA ST # 302	Plate 1	
Heavy equipment rental/storage	C18	C18-11	B	4710 BUSINESS PARK BLVD	Plate 1	
Windshield/glass repair shops	C44	C44-2	B	4900 FAIRBANKS ST	Plate 1	
Construction trade areas and materials	C09	C9-29	B	4950 FAIRBANKS ST	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-24	B	4950 FAIRBANKS ST	Plate 1	ADEC LUST File # L55.181 and Site Name COMMERCIAL CONTRACTORS, INC. Soil and groundwater contamination was discovered in November of 1993 associated with a leaking 1,000-gallon gasoline UST. Approximately 27 tons of contaminated soil were excavated and transported offsite for thermal treatment. A soil venting system was installed when the excavation pit was backfilled. In May of 1999, three groundwater monitoring wells were installed to determine the extent and magnitude of contamination. Groundwater at the site was encountered at 6.5 feet below ground surface. In each of the three monitoring wells, petroleum hydrocarbon constituents were detected at levels exceeding the ADEC groundwater cleanup levels. The release investigation recommended the installation of three additional monitoring wells to more adequately assess downgradient impacts of this contamination. Currently, the responsible party is seeking a grant to fund cleanup efforts at this site.
Recycling and waste reduction facilities	D57	D57-1	B	750 E INTL AIRPORT RD	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-8	B	200 W POTTER DR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-53	B	550 E TUDOR RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-15	B	5001 OLD SEWARD HWY	Plate 1	
Motor / motor vehicle repair shops	C31	C31-16	B	4940 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-19	B	4940 OLD SEWARD HWY	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-18	B	4940 OLD SEWARD HWY	Plate 1	ADEC LUST File # L55.09 and Site Name CONTINENTAL MOTOR CO. Soil and groundwater contamination was discovered in September of 1990 in association with a waste oil tank that had a fill pipe connection separated for unknown amount of time. Contaminated soils were excavated and removed offsite for thermal treatment. Groundwater monitoring wells were installed to determine the extent of contamination in the unconfined aquifer. Petroleum hydrocarbons were monitored through the wells until it was determined that concentrations were below MCL's. Corrective actions were complete and no further action was issued by ADEC in January of 1991.

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-10	B	5660 B ST	Plate 1	
Printers, publishers, copiers	C37	C37-31	B	5401 CORDOVA ST # 304	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-9	B	600 W 58TH AVE # D	Plate 1	
Construction trade areas and materials	C09	C9-34	B	212 E 51ST AVE	Plate 1	
Motor / motor vehicle repair shops	C31	C31-17	B	4510 GAMBELL ST	Plate 1	
Hardware stores	C17	C17-34	B	5333 FAIRBANKS ST	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV s, snow machines, boats (with service department)	C27	C27-4	B	4404 Old SEWARD HWY	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-14	B	4404 Old SEWARD HWY	Plate 1	ADEC LUST File # L55.33 and Site Name Nissan/Jeep/Eagle dealership (Culhane Tudor & Old Seward). Soil and shallow groundwater contaminated with petroleum hydrocarbons were found during 1a November 1988 site assessment. Approx. 1,100 cubic yards contaminated soils removed. An additional 700 cubic yards were tranported offsite to be used in a cold asphalt emulsion mix in May of 1992. A no further action letter was issued upon receipt of this documentation and site closure was complete.
Motor/motor vehicle supplies stores	C28	C28-12	B	854 E 36TH AVE	Plate 1	
Motor / motor vehicle repair shops	C31	C31-30	B	501 W POTTER DR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-71	B	3707 RHONE CIR	Plate 1	
Hardware stores	C17	C17-35	B	600 W 58TH AVE # G	Plate 1	
Florists	C12	C12-8	B	5401 FAIRBANKS ST # 3	Plate 1	
Motor / motor vehicle repair shops	C31	C31-18	B	4651 GAMBELL ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-54	B	2706 FAIRBANKS ST # 4	Plate 1	
Construction trade areas and materials	C09	C9-45	B	5330 CORDOVA ST	Plate 1	
Florists	C12	C12-9	B	118 E INTL AIRPORT RD	Plate 1	
Hardware stores	C17	C17-36	B	700 W INTL AIRPORT RD BLDG B	Plate 1	
Hardware stores	C17	C17-24	B	333 E TUDOR RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-11	B	239 E INTERNATIONAL AIRPORT R	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-21	B	239 E INTERNATIONAL AIRPORT R	Plate 1	ADEC LUST File # L55.154 and Site Name Chevron - Earls RV Center. Waste oil and mixed hydrocarbon contaminated soil was encountered during the removal of two 1,000-gallon used oil USTs. Concentrations of total petroleum hydrocarbons in soils were as high as 27,200 ppm. In addition, 1,2-dichlorobenzene was found in the soil at a concentration of 0.35 ppm as well as low levels of lead, arsenic, and chromium. An estimated 27 cubic yards of contaminated soils were transported offsite for disposal. The excavation pit was then backfilled with clean, imported fill material. Some low levels of contamination remains beneath the excavation pit, but are below the ADEC Level A Cleanup Standards. Site closure was accomplished in November of 1992 when ADEC issued a No Further Action letter.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-24	B	401 E. INTERNATIONAL AIRPORT RD	Plate 1	ADEC LUST File # L55.169 and Site Name ENSTAR - ANCHORAGE OPERATIONS CENTER. Diesel contaminated soils and groundwater were found during an UST removal in May of 1993. Approximately 111 cubic yards of contaminated soils were excavated and disposed of at AK Soil Recycling for thermal treatment. Groundwater and soils were determined to be below ADEC cleanup levels and a No Further Action letter was issued in November of 1999.
Motor / motor vehicle repair shops	C31	C31-31	B	5740 B ST	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-10	B	520 W 58TH AVE	Plate 1	
Heavy equipment rental/storage	C18	C18-21	B	5701 SILVERADO WAY # J	Plate 1	
Motor / motor vehicle repair shops	C31	C31-19	B	3606 OLD SEWARD HWY	Plate 1	
Motor / motor vehicle repair shops	C31	C31-32	B	600 W 58TH AVE # A	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-30	B	600 W 58TH AVE # A	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-14	B	4908 OLD SEWARD HWY	Plate 1	<i>ADEC LUST File # L55.40 and Site Name EUROPEAN MOTORS.</i> Soil contamination was discovered during the removal of a 500-gallon used oil UST in September of 1992. Soil boring near tank found significant contamination (22,000 ppm TPH, 13,000 ppm DRO, 520 ppm GRO, 180 ppm BTEX, 3.4 ppm benzene) in saturated soil samples. In May of 1994, approximately 72.25 tons of impacted soils were excavated and transported offsite for thermal processing. A request for submittal of a Work Plan for addressing elevated levels of soil contamination in March of 2001. That submittal is currently overdue. No additional information is available at this time.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-55	B	5121 ARCTIC BLVD # E	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-73	B	3730 RHONE CIR # 102	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-11	B	123 E INTL AIRPORT RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-21	B	202 E INTL AIRPORT RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-33	B	202 E INTL AIRPORT RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-33	B	209 E INTERNATIONAL AIRPORT RD	Plate 1	
Body shops (automotive)	C05	C5-12	B	230 E 54TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-74	B	3238 LATOUCHE ST # H10	Plate 1	
Seafood processing	N10	N10-4	B	5011 ARCTIC BLVD # I	Plate 1	
Heavy equipment rental/storage	C18	C18-22	B	700 W INTL AIRPORT RD	Plate 1	
Pharmacies (with on-site wastewater disposal)	C35	C35-4	B	1000 E NORTHERN LIGHTS BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-32	B	639 W INTL AIRPORT RD # 36	Plate 1	
Florists	C12	C12-5	B	4007 OLD SEWARD HWY # 700	Plate 1	
Gasoline stations (with repair shop)	C16	C16-8	B	724 W INTL AIRPORT RD	Plate 1	
Tanks, gasoline (underground)	T12	T12-20	B	724 W INTL AIRPORT RD	Plate 1	12,000-gallons, double-walled, Tank Tightness Testing and Inventory Control
Tanks, gasoline (underground)	T12	T12-21	B	724 W INTL AIRPORT RD	Plate 1	12,000-gallons, double-walled, Tank Tightness Testing and Inventory Control
Tanks, diesel (underground)	T08	T8-14	B	724 W INTL AIRPORT RD	Plate 1	10,000-gallon, double-walled and cathodically protected

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-11	B	724 W INTL AIRPORT RD	Plate 1	ADEC LUST File # L20.06 and Site Name GARRETT'S TESORO. Significant soil and groundwater contamination was discovered in 1988 and 1989 in association with the filler pipes of a 12,000-gallon gasoline UST. In July of 1990, four to five feet of floating product was documented on water table at this site. A vapor extraction system was installed to help aid in the remediation of the site in January of 1994. Contaminated groundwater was also pumped and treated beginning in February of 1994. Quarterly groundwater and VES reports were submitted to ADEC from 1994 through 1995. No additional information is available at this time.
Motor / motor vehicle repair shops	C31	C31-20	B	4831 FAIRBANKS ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-10	B	4831 FAIRBANKS ST	Plate 1	
Construction trade areas and materials	C09	C9-46	B	119 E 54TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-75	B	3708 RHONE CIR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-76	B	3730 RHONE CIR # 203	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-83	B	501 W INTL AIRPORT RD # 1A	Plate 1	
Pharmacies (with on-site wastewater disposal)	C35	C35-5	B	3730 RHONE CIR # 105	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-77	B	3606 RHONE CIR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-78	B	3730 RHONE CIR # 100	Plate 1	

Table 1

**Contaminant Source Inventory for  
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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-19	B	5801 SILVERADO WAY	Plate 1	<i>ADEC LUST File # L55.61 and Site Name Hanaman Warehouse.</i> Soil and groundwater was discovered during the removal of a 1000-gallon diesel, a 1000-gallon gasoline and a 2000-gallon gasoline UST in August of 1990. Approximately 95 tons of contaminated soil were excavated and transport offsite for disposal. The excavation was then backfilled with clean fill material. One groundwater monitoring well was installed and showed only low levels of petroleum hydrocarbon contamination (approximately 1% of the MCL for BTEX in September 1990). Existing soil contamination during this same sampling period showed petroleum hydrocarbons were 11.2 ppm and 12% above ADEC Cleanup Levels for soils. Site cleanup was complete in March of 1991 and the monitoring well was decommissioned in August.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-22	B	5801 SILVERADO WAY	Plate 1	<i>ADEC LUST File # L55.61 and Site Name Halliburton Geophysical Services Incorporated.</i> Soil and groundwater contamination was discovered during the removal of a 500-gallon used oil UST that leaked adjacent to the warehouse on the property in April of 1993. A groundwater monitoring well was installed and sampled in July of 1993. Groundwater samples indicated low levels of petroleum hydrocarbons, however, they were inferred as being the result of biochemical decomposition of organics within the soils and were deemed naturally occurring. Based on the sampling that occurred during this sampling period, a No Further Action letter was issued by ADEC in August of 1993.
Jewelry manufacturing	I22	I22-4	B	4300 OLD SEWARD HWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-84	B	601 W 58TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-47	B	401 W INTL AIRPORT RD # 31	Plate 1	
Construction trade areas and materials	C09	C9-35	B	1011 E TUDOR RD # 100	Plate 1	
Hardware stores	C17	C17-37	B	5501 A ST	Plate 1	
Printers, publishers, copiers	C37	C37-33	B	360 E INTL AIRPORT RD # 6	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-7	B	700 W 58TH AVE # D	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-12	B	341 E 56TH AVE	Plate 1	



Table 1

**Contaminant Source Inventory for  
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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Construction trade areas and materials	C09	C9-48	B	550 W 54TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-49	B	5326 A ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-22	B	626 E INTL AIRPORT RD	Plate 1	
Gasoline stations (with repair shop)	C16	C16-9	B	5210 OLD SEWARD HWY	Plate 1	
Tanks, gasoline (underground)	T12	T12-25	B	5210 OLD SEWARD HWY	Plate 1	15,000-gallons, double-walled, Tank Tightness Testing, Inventory Control, and ATG
Tanks, gasoline (underground)	T12	T12-26	B	5210 OLD SEWARD HWY	Plate 1	15,000-gallons, double-walled, Tank Tightness Testing, Inventory Control, and ATG
Tanks, gasoline (underground)	T12	T12-27	B	5210 OLD SEWARD HWY	Plate 1	15,000-gallons, double-walled, Tank Tightness Testing, Inventory Control, and ATG
Tanks, diesel (underground)	T08	T8-15	B	5210 OLD SEWARD HWY	Plate 1	40-gallons
Tanks, diesel (underground)	T08	T8-16	B	5210 OLD SEWARD HWY	Plate 1	40-gallons
Tanks, diesel (underground)	T08	T8-17	B	5210 OLD SEWARD HWY	Plate 1	40-gallons
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-21	B	5210 OLD SEWARD HWY	Plate 1	<i>ADEC LUST File # L10.19 and Site Name HANSON'S CHEVRON #95414. In April and May of 1996, five (5) USTs were removed from this property. These included two 10,000-gallon gasoline, one 5,000-gallon gasoline, one 1,000-gallon diesel, and one 1,000-gallon used oil USTs. During the excavation of the tanks and the removal of the piping system and pump island dispensers, soil and groundwater contamination was discovered. Approximately, 1,500 tons of petroleum impacted soils were removed from the site and exported offsite for treatment. In August of 1998, three groundwater monitoring wells were installed to determine the magnitude and extent of contamination of the unconfined aquifer. Since then, three additional monitoring wells have been developed to assess off-property impacts. Recent groundwater monitoring results (September 25, 2001) indicate petroleum hydrocarbons have migrated off-site to the adjacent property to the west. Concentrations of diesel range organics, gasoline range organics, and benzene in MW-5 were 1.6 ppm, 0.245 ppm and 0.023 ppm respectively. Groundwater quality is being assessed on a semi-annual basis. Therefore, the next sampling period for this site is scheduled for May of 2002.</i>
Lumber processing and preservation	N04	N4-5	B	424 W 54TH AVE	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-20	B	4617 OLD SEWARD HWY	Plate 1	ADEC LUST File # L55.255 and Site Name HAROLD'S RENT-A-TRUCK, INC. Soil and groundwater contamination was discovered in November of 1996 during the removal of two (2) 4,500-gallon gasoline UST. Approximately 100 cubic yards of petroleum hydrocarbon contaminated soils were excavated and stockpiled onsite. One groundwater monitoring well was installed south of the excavation. Results of sampling indicated that benzene was present above ADEC cleanup levels for drinking water. However, a deeper drinking water well onsite was sampled and was found free of contamination. ADEC requested a quarterly groundwater monitoring and stockpile sampling report in May of 1999. No additional information is available at this time on the status of conditions at this site.
Motor vehicle/general storage yards/facilities	X27	X27-4	B	4617 OLD SEWARD HWY	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-13	B	4109 OLD SEWARD HWY	Plate 1	
Hardware stores	C17	C17-38	B	220 E INTERNATIONAL AIRPORT RD	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-4	B	4240 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-50	B	436 W POTTER DR	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-32	B	436 W POTTER DR	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-14	B	144 E 53rd Avenue	Plate 1	ADEC Contaminated Sites File # CS100.31 and Site Name Hirsch Porsche/Audi Repair. A waste oil spill of approximately 50-100 gallons was reported on April 24, 1989. Contaminated soils were excavated and transported offsite. After ADEC review of sampling techniques, analysis and results of the samples taken during excavation, the site does not appear to pose an immediate health hazard to the local population or a serious threat to the groundwater. ADEC reserves the right to request appropriate soil or groundwater assessment and remediation if additional information is found which indicates that the groundwater or soil is contaminated. No further action was required as of September of 1991. This site is CLOSED.
Laboratories (chemical, soils, and research)	C20	C20-11	B	5630 SILVERADO WAY # A2	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Hardware stores	C17	C17-25	B	515 E TUDOR RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-85	B	500 W INTL AIRPORT RD # C	Plate 1	
Taxidermists	C41	C41-3	B	822 W INTL AIRPORT RD	Plate 1	
Printers, publishers, copiers	C37	C37-34	B	650 W INTERNATIONAL AIRPORT RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-23	B	552 W 58TH AVE # A	Plate 1	
Orchards or nurseries	A10	A10-2	B	5333 A ST	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-16	B	201 E 56TH ST, SUITE 300	Plate 1	<i>ADEC LUST File # L55.64 and Site Name INTERIOR TELEPHONE COMPANY</i> . Petroleum hydrocarbon contaminated soil was identified during an October 1989 removal of a 2,000-gallon gasoline UST. Approximately 60 cubic yards of contaminated soils were excavated from the site and transported to the Anchorage Municipal Landfill for disposal. Test results showed no detectable petroleum hydrocarbons in the excavation pit. No Further Action was required for this site after February of 1991 when the site was closed.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-31	B	A ST & INTL AIRPORT RD	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-17	B	512 W. International	Plate 1	<i>ADEC Contaminated Sites File # CS100.207 and Site Name Interstate Exploration</i> . Petroleum hydrocarbon contamination of soil and groundwater resulting from a floor drain and sump was discovered in 1999. A site characterization workplan was approved in January of 2002 by ADEC and corrective action has begun. This site is currently ACTIVE.
Jewelers	C19	C19-3	B	600 E NORTHERN LIGHTS BLVD	Plate 1	
Body shops (automotive)	C05	C5-6	B	4700 GAMBELL ST	Plate 1	
Car washes with engine or undercarriage cleaning	C08	C8-2	B	4551 FAIRBANKS ST	Plate 1	
Body shops (automotive)	C05	C5-7	B	4434 OLD SEWARD HWY	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATVs, snow machines, boats (without service department)	C26	C26-1	B	4748 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-20	B	4748 OLD SEWARD HWY	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-17	B	4748 OLD SEWARD HWY	Plate 1	ADEC LUST File # L55.192 and Site Name JOHNSON NISSAN. Gasoline contaminated soils and groundwater were encountered during the removal of two (2) 5,000-gallon (diesel and gasoline) USTs in August of 1994. In July 1996, approximately 550 tons of petroleum-contaminated soil was exported off-site for thermal treatment. A total of fifteen (15) groundwater monitoring wells were installed to determine the magnitude and extent of groundwater contamination at this site and adjacent properties. Results of groundwater sampling in November 1999 indicated significant levels of petroleum hydrocarbons in downgradient monitoring wells. However, not all monitoring wells were sampled at that time. It appears a contaminant plume emanating from this site has traveled downgradient to the south-southeast toward the property at 4800 Old Seward Highway. To further assess downgradient/off-site impacts of contamination from this site, the third party contractor for the responsible party will be installing and sampling two additional monitoring wells in the spring of 2002.
Hardware stores	C17	C17-39	B	549 W INTL AIRPORT RD # A15	Plate 1	
Hardware stores	C17	C17-40	B	126 W INTL AIRPORT RD	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-8	B	219 E INTL AIRPORT RD	Plate 1	
Hardware stores	C17	C17-41	B	510 W 53RD AVE	Plate 1	
Hardware stores	C17	C17-42	B	360 E INTL AIRPORT RD	Plate 1	
Printers, publishers, copiers	C37	C37-27	B	3597 VASSAR DR	Plate 1	
Motor / motor vehicle repair shops	C31	C31-34	B	400 W 53RD AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-15	B	400 W 53RD AVE	Plate 1	
Recycling and waste reduction facilities	D57	D57-2	B	111 E 56TH AVE	Plate 1	
Boat yards and marinas	X15	X11-7	B	536 E 48TH AVE	Plate 1	
Motor / motor vehicle repair shops	C31	C31-35	B	512 W INTL AIRPORT RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-28	B	512 W INTL AIRPORT RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-86	B	1205 E INTERNATIONAL RD # 103	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-16	B	620 E. Int'l Airport Road	Plate 1	<i>ADEC Contaminated Sites File # CS100.17 and Site Name M &amp; M Enterprises -Int'l Airport Rd.</i> Soil and groundwater contamination was documented at this site in August of 1989 in association with an old metal, battery, and copper wire recycling business. In October 1989, polychlorinated biphenols (PCBs) above ADEC cleanup levels were detected in two soil samples at 15.3 and 93.4 ppm as well as lead at 140 to 211 ppm. Groundwater samples indicated 0.053 ppm lead during this same sampling period. Currently, a corrective action plan is being established to determine the best available technology for cleanup of this site. This site is ACTIVE.
Body shops (automotive)	C05	C5-8	B	4973 EAGLE ST	Plate 1	
Hardware stores	C17	C17-26	B	1700 OXFORD DR	Plate 1	
Machine and metal work shops	I23	I23-3	B	5440 B ST	Plate 1	
Gasoline stations (without repair shop)	C15	C15-9	B	5159 OLD SEWARD HWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-12	B	5159 OLD SEWARD HWY	Plate 1	<i>ADEC LUST File # L30.04 and Site Name MAPCO - EXPRESS #5004.</i> Petroleum hydrocarbon contamination was detected in soils and groundwater during a September 1987 site assessment. In groundwater samples taken in July of 1990 petroleum hydrocarbons were detected above MCLs. Also detected during that sampling period was tetrachloroethylene (PCE) at a concentration of 0.022 ppm. Approximately 47 gallons of free product was removed from the surface of the water table in October 1991. Three (3) USTs were removed from the site in June of 1992, which included two 10,000-gallon gasoline and one 5,000-gallon USTs. Groundwater monitoring wells were installed onsite to determine the magnitude and extent of contamination. A combined vapor extraction and air injection system (VEAIS) was installed in October 1992. In November of 1992, 50 cubic yards of contaminated soils were removed from the road right-of-way that were discovered during the repair of a AWWU waterline break. Groundwater samples/results from May 2001 indicate elevated levels of gasoline range organics

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
						organics (DRO), residual range organics (RRO), benzene, ethylbenzene, and xylenes in monitoring wells onsite. Results indicate only DRO and RRO in monitoring wells south of the property. The results of the September 2001 semi-annual sampling period indicate and increase in benzene concentration within one monitoring well onsite (GCMW; 3 ppm). However, petroleum hydrocarbons in monitoring wells located across International Airport Road south of the LUST site demonstrated a decrease in most constituents. The next semi-annual groundwater testing was schedule for March 2002. The results of those test are currently not available.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-9	B	300 E. 54th Avenue	Plate 1	ADEC Contaminated Sites File # CS100.145 and Site Name Martech USA, Inc. Petroleum hydrocarbon contamination of soil and groundwater from several pollution sources identified on the property in a site assessment report received by ADEC in November of 1994. Groundwater monitoring wells were installed to delineate and monitor contamination. Site closure was granted by ADEC (July of 2001) after quarterly monitoring established groundwater contaminant levels were decreasing and were below the most stringent cleanup levels for the contaminant of concern, diesel range organics (DRO). File documentation of soil contaminant levels indicate no contaminated soils remain on site that exceed the most stringent method two cleanup levels found in Tables B-1 and B-2 of 18 AAC 75.341 "Soil Cleanup Levels: Tables." This site is CLOSED.
Motor / motor vehicle repair shops	C31	C31-36	B	110 E 54TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-27	B	110 E 54TH AVE	Plate 1	
Motor / motor vehicle repair shops	C31	C31-21	B	4800 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-51	B	720 W 58TH AVE # E	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-49	B	625 E 34TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-72	B	3500 LATOUCHE ST # 200	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-16	B	3200 SEWARD HWY	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-5	B	3901 OLD SEWARD HWY	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Motor / motor vehicle repair shops	C31	C31-22	B	711 E NORTHERN LIGHTS BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-35	B	5445 OLD SEWARD HWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-87	B	5313 ARCTIC BLVD # 101	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-56	B	3315 FAIRBANKS ST	Plate 1	
Hardware stores	C17	C17-43	B	510 E INTL AIRPORT RD	Plate 1	
Construction trade areas and materials	C09	C9-52	B	300 E 54TH AVE	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-11	B	550 W 54TH AVE	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-10	B	165 E 56th Avenue	Plate 1	<i>ADEC Contaminated Sites File # CS100.103 and Site Name Mutual of New York. Diesel contaminated soils were found on site below ADEC guidelines in 1993. A remedial action sampling results report dated August 17, 1993, noted that all contamination was below site cleanup levels. Based on this information, site closure was granted in September of 1993. This site is CLOSED.</i>
Heavy equipment rental/storage	C18	C18-16	B	1001 E BENSON BLVD	Plate 1	
Construction trade areas and materials	C09	C9-53	B	5610 SILVERADO WAY # 6	Plate 1	
Heavy equipment rental/storage	C18	C18-12	B	4700 BUSINESS PARK BLVD # 19	Plate 1	
Seafood processing	N10	N10-6	B	1304 LAONA CIR	Plate 1	
Hardware stores	C17	C17-44	B	5410 FAIRBANKS ST	Plate 1	
Construction trade areas and materials	C09	C9-36	B	4970 FAIRBANKS ST	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-18	B	4510 GAMBELL ST	Plate 1	<i>ADEC LUST File # L55.122 and Site Name NORTHERN HYDRAULICS LTD. A site assessment conducted near a 500-gallon used oil UST in October of 1995 identified soil contamination that extended to groundwater. An UST Closure report dated February 1997, noted high levels of soil contamination (up to 12,800 ppm DRO, 16,800 ppm RRO, 144 ppm GRO, and 0.287 ppm benzene) and groundwater contamination (26.9 ppm DRO and 9.66 ppb benzene). Groundwater sampling results from two monitoring wells on-site indicated that contamination was still present (up to 0.0047 ppm benzene, 36.7 ppm DRO, and 28.7 ppm RRO). ADEC requested quarterly groundwater monitoring to continue in October of 1998. No additional information is currently available on the results of subsequent sampling periods.</i>
Heavy equipment rental/storage	C18	C18-17	B	1406 MATTERHORN WAY	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Dry cleaners	C10	C10-3	B	601 E NORTHERN LIGHTS BLVD # J	Plate 1	
Injection wells (Class V) Industrial Process Water & Water Disposal Wells	D40	D40-2	B	601 E NORTHERN LIGHTS BLVD # J	Plate 1	
Seafood processing	N10	N10-7	B	163 E 54TH AVE	Plate 1	
Printers, publishers, copiers	C37	C37-36	B	5701 SILVERADO WAY # K	Plate 1	
Hardware stores	C17	C17-45	B	220 CENTER CT	Plate 1	
Gasoline stations (with repair shop)	C16	C16-5	B	854 E 36TH AVE	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-9	B	854 E 36TH AVE	Plate 1	<i>ADEC LUST File # L20.02-2 and Site Name OLSONS GAS - #2. In December 1987, during installation of a light pole, employees of City Electric Co. noted a gasoline odor and lit torch causing an explosion. Soil and groundwater contamination was found. LUST cleanup began in July of 1995 following the failure of Tank Tighness Tests in March of that year. Two 12,000-gallon gasoline USTs and one 2,000-gallon diesel UST and associated dispenser islands were removed in July 1995. Three on-site and three off-site groundwater monitoring wells were installed in 1995 to aid in the determination of the direction of groundwater flow as well as the magnitude and extent of groundwater contamination emanating from the former UST system. Since 1995, five (5) additional groundwater monitoring wells have been installed off-site to aid in the delineation of the contaminant plume. Groundwater samples/results from May 2001 indicate that benzene, xylenes, and gasoline range organics (GRO) have traveled approximately 450 feet north-northwest of the former UST system (BMW - 0.046 ppm benzene). However historical benzene concentrations show a marked decrease since sampling began in 1995. A soil vapor extraction (SVE) and air sparging (AS) systems have been installed to expedite the remediation of contaminated soils on-site. Groundwater samples are obtained on a semi-annual basis at this site. Results of samples taken in December 2001 indicated that three of five groundwater samples tested above the MCL for benzene (as high as 0.0603 ppm benzene (MCL = 0.005 ppm benzene). Semi-annual groundwater monitoring will continue at this site.</i>
Motor vehicle dealerships - cars, trucks, motor cycles, ATVs, snow machines, boats (with service department)	C27	C27-10	B	4908 OLD SEWARD HWY	Plate 1	



Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-18	B	4908 OLD SEWARD HWY	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATVs, snow machines, boats (with service department)	C27	C27-7	B	5159 OLD SEWARD HWY	Plate 1	
Lumber processing and preservation	N04	N4-4	B	128 E 51ST AVE	Plate 1	
Machine and metal work shops	I23	I23-4	B	360 E INTL AIRPORT RD # 12	Plate 1	
Motor / motor vehicle repair shops	C31	C31-37	B	665 W POTTER DR	Plate 1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-1	B	665 W POTTER DR	Plate 1	
Heavy equipment rental/storage	C18	C18-23	B	720 W 58TH AVE # H	Plate 1	
Car washes with engine or undercarriage cleaning	C08	C8-3	B	4551 FAIRBANKS ST	Plate 1	
Printers, publishers, copiers	C37	C37-37	B	401 W INTL AIRPORT RD # 37	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-57	B	3315 FAIRBANKS ST	Plate 1	
Florists	C12	C12-6	B	4007 OLD SEWARD HWY	Plate 1	
Printers, publishers, copiers	C37	C37-38	B	360 E INTERNATIONAL RD # 6	Plate 1	
Construction trade areas and materials	C09	C9-54	B	610 W 54TH AVE	Plate 1	
Quarries (sand, gravel, rock, other?)	E10	E10-2	B	300 E 54TH AVE	Plate 1	
Heavy equipment rental/storage	C18	C18-24	B	5801 SILVERADO WAY	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-12	B	5801 SILVERADO WAY	Plate 1	ADEC Contaminated Sites File # CS100.220 and Site Name POOL ARCTIC ALASKA. 255 cubic yards of DRO contaminated soil. Site is Active.
Windshield/glass repair shops	C44	C44-3	B	4141 INGRA ST # B	Plate 1	
Windshield/glass repair shops	C44	C44-4	B	720 W 58TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-26	B	4820 FAIRBANKS ST	Plate 1	
Body shops (automotive)	C05	C5-13	B	701 W POTTER DR	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-24	B	5801 SILVERADO WAY	Plate 1	
Motor / motor vehicle repair shops	C31	C31-38	B	601 W 58TH AVE # M	Plate 1	
Motor / motor vehicle repair shops	C31	C31-39	B	210 E INTL AIRPORT RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-22	B	210 E INTL AIRPORT RD	Plate 1	
Printers, publishers, copiers	C37	C37-39	B	5611 SILVERADO WAY # D	Plate 1	
Tanks, diesel (underground)	T08	T8-18	B	4900 EAGLE ST	Plate 1	2,000-gallons, single-walled and cathodically protected with manual tank gauging and Tank Tightness Testing

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-13	B	4900 EAGLE ST	Plate 1	ADEC Contaminated Sites File # CS100.39 and Site Name Our Lady of Compassion Care Center. Removed tight underground storage tank with fill & vent loose & leaking with excavated soil stockpiled. Site is Inactive.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-58	B	4900 EAGLE ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-59	B	701 E TUDOR RD # 100	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-9	B	401 W INTERNATIONAL RD # 33	Plate 1	
Body shops (automotive)	C05	C5-9	B	631 E 48TH AVE	Plate 1	
Printers, publishers, copiers	C37	C37-23	B	5020 FAIRBANKS ST	Plate 1	
Motor / motor vehicle repair shops	C31	C31-23	B	4627 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-17	B	4627 OLD SEWARD HWY	Plate 1	
Tanks, heating oil, nonresidential (underground)	T16	T16-4	B	4627 OLD SEWARD HWY	Plate 1	15,000-gallons, single-walled. Tank and piping leak detection is unknown.
Tanks, heating oil, nonresidential (underground)	T16	T16-5	B	4627 OLD SEWARD HWY	Plate 1	8,000-gallons, single-walled. Tank and piping leak detection is unknown.
Tanks, heating oil, nonresidential (underground)	T16	T16-6	B	4627 OLD SEWARD HWY	Plate 1	1,500-gallons, single-walled. Tank and piping leak detection is unknown.
Hardware stores	C17	C17-46	B	129 W 53RD AVE	Plate 1	
Construction trade areas and materials	C09	C9-55	B	130 W INTL AIRPORT RD # K	Plate 1	
Heavy equipment rental/storage	C18	C18-13	B	4240 OLD SEWARD HWY # 24	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATV's, snow machines (without service department)	C29	C29-1	B	1313 LAONA CIRCLE	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATV's, snow machines (with service department)	C30	C30-12	B	512 W INTL AIRPORT RD	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-15	B	1313 LAONA CIRCLE	Plate 1	ADEC LUST File # L74.03 and Site Name USSBA - Den Tech Equipment Yard. Petroleum hydrocarbon contaminated soil was found in November of 1989 during the decommissioning of a 15,000-gallon gasoline and a 500-gallon used oil UST. Approximately 160 tons of contaminated soils were excavated and transported to the Anchorage Municipal Landfill for disposal. ADEC found that no further cleanup was necessary and the site was closed in July of 1991.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-24	B	540 W POTTER	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Scrap, salvage, or junk yards	D59	D59-2	B	1100 W INTL AIRPORT RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-21	B	720 W 58TH AVE	Plate 1	
Hardware stores	C17	C17-27	B	5001 ARCTIC BLVD	Plate 1	
Paint sales /service	C32	C32-3	B	601 E INTL AIRPORT RD	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-13	B	210 CENTER COURT	Plate 1	<i>ADEC LUST File # L55.26 and Site Name Pizza Hut Administration Offices</i> . Soil contamination was found in November of 1990 in association with a 1,000-gallon unleaded UST system. A release investigation identified petroleum hydrocarbon contamination was well above the MCL for soil at this site. In May of 2001, ADEC sent a letter to the responsible party restating that corrective action was still required. This May 2001 letter specified that 2 cubic yards of contaminated soils remain stockpiled onsite and that there is a strong possibility that soil and groundwater contamination remains at this site. No additional information is available for this site at this time.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-79	B	3708 RHONE CIR	Plate 1	
Florists	C12	C12-7	B	4240 OLD SEWARD HWY # 21	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV s, snow machines, boats (with service department)	C27	C27-8	B	5400 OLD SEWARD HWY	Plate 1	
Dry cleaners	C10	C10-4	B	601 W 58TH AVE # M	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-8	B	36th & Old Seward Hwy.	Plate 1	<i>ADEC Contaminated Sites File # CS100.141 and Site Name Saunders Properties 36th &amp; Denali</i> . Heavy hydrocarbon soil staining from parked autos and trucks. Soils excavated and transported off site. Site is Closed.
Motor/motor vehicle supplies stores	C28	C28-14	B	700 E NORTHERN LIGHTS BLVD	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATV s, snow machines (with service department)	C30	C30-13	B	940 W INTL AIRPORT RD	Plate 1	
Appliance repair shops	C03	C3-1	B	700 E NORTHERN LIGHTS BLVD	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-25	B	700 E NORTHERN LIGHTS BLVD	Plate 1	ADEC LUST File # L55.244 and Site Name SEARS ROEBUCK & CO. Soil contamination was discovered in July of 1993 during the removal of a 500-gallon used oil UST, a 5,000-gallon heating oil UST, and an oil/water separator. Approximately 22.5 tons of contaminated soil was excavated and transported offsite for disposal. Groundwater was not impacted at this site, as per file records. Soil samples taken from the excavation pit in January 1995 indicated low levels of petroleum hydrocarbons below ADEC Level A cleanup standards. Corrective action is complete on this site and No Further Action was required in August of 1996.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-26	B	700 E NORTHERN LIGHTS BLVD	Plate 1	ADEC LUST File # L55.197 and Site Name SEARS ROEBUCK & CO. Additional soil contamination was discovered during closure activities associated with existing LUST site (CS ID Tag U8-25; LUST file #L55.244) in July of 1994. Contaminated soils were excavated and transported offsite for disposal. Site cleanup was completed in March of 1998.
Laboratories (chemical, soils, and research)	C20	C20-12	B	5761 SILVERADO WAY # N	Plate 1	
Bus maintenance facilities	X16	X11-8	B	3339 FAIRBANKS ST # A	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-13	B	750 E INTL AIRPORT RD # B	Plate 1	
Paint sales /service	C32	C32-4	B	401 W INTERNATIONAL AIRPORT RD	Plate 1	
Jewelers	C19	C19-4	B	601 E NORTHERN LIGHTS BLVD # H	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-14	B	5333 FAIRBANKS ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-15	B	4640 GAMBELL ST	Plate 1	
Body shops (automotive)	C05	C5-14	B	5445 OLD SEWARD HWY # 3	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-7	B	650 W 58TH AVE	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-5	B	551 W 54TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-56	B	540 W POTTER DR	Plate 1	
Heavy equipment rental/storage	C18	C18-25	B	5761 SILVERADO WAY # M1	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-9	B	624 W POTTER DR	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-25	B	524 W INTL AIRPORT RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-40	B	1218 W INTL AIRPORT RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-11	B	1218 W INTL AIRPORT RD	Plate 1	
Seafood processing	N10	N10-8	B	718 W 53RD AVE	Plate 1	
Printers, publishers, copiers	C37	C37-40	B	1225 E INTL AIRPORT RD # 107	Plate 1	
Heavy equipment rental/storage	C18	C18-26	B	5631 SILVERADO WAY # G	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-60	B	500 E TUDOR RD	Plate 1	
Organic chemicals manufacturing	I29	I29-1	B	720 W 58TH AVE	Plate 1	
Jewelers	C19	C19-5	B	600 E NORTHERN LIGHTS BL # 118	Plate 1	
Hardware stores	C17	C17-47	B	411 E 54TH AVE	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-10	B	355 W POTTER DR	Plate 1	
Motor / motor vehicle repair shops	C31	C31-41	B	5631 SILVERADO WAY	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-11	B	700 W 58TH AVE # D	Plate 1	
Hardware stores	C17	C17-48	B	130 W INTL AIRPORT RD # C	Plate 1	
Paint sales /service	C32	C32-5	B	401 W INTERNATIONAL AIRPORT RD	Plate 1	
Hardware stores	C17	C17-49	B	5861 ARCTIC BLVD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-9	B	1000 E. NORTHERN LIGHTS BL.	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-30	B	1000 E. NORTHERN LIGHTS BL.	Plate 1	<i>ADEC LUST File # L55.344 and Site Name Former Discount Tire; TOP AUTO, INC. During the removal of a 500-gallon used oil UST. Soil samples taken 25 September, 1990 , indicated that low levels of petroleum hydrocabons were present. However, concentrations were below MCLs for the contaminants of concern. LUST site cleanup was complete at this time, however, ADEC did not send a letter specifying "No Further Action" on the site until December of 1999.</i>
Heavy equipment rental/storage	C18	C18-27	B	5430 FAIRBANKS ST # 11	Plate 1	
Construction trade areas and materials	C09	C9-57	B	220 CENTER CT	Plate 1	
Motor / motor vehicle repair shops	C31	C31-42	B	501 W INTERNATIONAL RD # 19	Plate 1	
Meat processing	N05	N5-4	B	5650 B ST	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-14	B	420 W INTL AIRPORT RD	Plate 1	
Heavy equipment rental/storage	C18	C18-28	B	184 E 53RD AVE	Plate 1	
Heavy equipment rental/storage	C18	C18-14	B	4751 OLD SEWARD HWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-23	B	4751 OLD SEWARD HWY	Plate 1	<i>ADEC LUST File # L55.313 and Site Name U-HAUL CO.</i> Soil and groundwater contamination was discovered during the removal of a 4,000-gallon gasoline and a 4,000-gallon diesel UST in August of 1998. In March of 2001, a revised corrective action workplan was received by ADEC. In August 2001, five (5) groundwater monitoring wells were installed and soil and groundwater was sampled to determine the extent of contamination at this site. Three (3) 55-gallon drums of petroleum contaminated soils were generated during the construction of the monitoring wells. The impacted soils were exported offsite for thermal treatment. No information is available at this time on the magnitude and extent of groundwater contamination at this site.
Construction trade areas and materials	C09	C9-30	B	750 E. INTERNATIONAL AIRPORT RD	Plate 1	
Construction trade areas and materials	C09	C9-58	B	5300 A ST	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-29	B	949 E 36th Ave	Plate 1	<i>ADEC LUST File # L55.314 and Site Name University Plaza Building.</i> A 300-gallon heating oil tank was removed from this site in August of 1998. All analytical samples/results showed non-detect levels of petroleum hydrocarbons. A No Further Action letter was issued by ADEC in December of 1998.
Heavy equipment rental/storage	C18	C18-29	B	200 CENTER CT	Plate 1	
Motor / motor vehicle repair shops	C31	C31-43	B	5713 ARCTIC BLVD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-9	B	5713 ARCTIC BLVD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-29	B	5713 ARCTIC BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-24	B	3333 FAIRBANKS ST	Plate 1	
Hardware stores	C17	C17-50	B	5760 SILVERADO WAY	Plate 1	
Gasoline stations (without repair shop)	C15	C15-10	B	717 E NORTHERN LIGHTS BLVD	Plate 1	
Gasoline stations (without repair shop)	C15	C15-11	B	801 E TUDOR RD	Plate 1	
Tanks, gasoline (underground)	T12	T12-22	B	801 E TUDOR RD	Plate 1	20,000-gallons, double-walled and Auto Line Leak Detection

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Tanks, gasoline (underground)	T12	T12-23	B	801 E TUDOR RD	Plate 1	15,000-gallons, double-walled and Auto Line Leak Detection
Tanks, gasoline (underground)	T12	T12-24	B	801 E TUDOR RD	Plate 1	15,000-gallons, double-walled and Auto Line Leak Detection
Tanks, gasoline (underground)	T12	T12-32	B	717 E NORTHERN LIGHTS BLVD	Plate 1	10,000-gallons, single-walled and Auto Line Leak Detection
Tanks, gasoline (underground)	T12	T12-33	B	717 E NORTHERN LIGHTS BLVD	Plate 1	10,000-gallons, single-walled and Auto Line Leak Detection
Construction trade areas and materials	C09	C9-59	B	549 W INTL AIRPORT RD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-11	B	5326 A ST	Plate 1	
Construction trade areas and materials	C09	C9-31	B	511 W 54TH ST	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-27	B	511 W 54TH ST	Plate 1	<i>ADEC LUST File # L55.240 and Site Name WOODARD CONSTRUCTION CO.</i> During the removal of a 500-gallon gasoline UST in April of 1992, low levels of petroleum hydrocarbon contamination were found. All soil samples/results were found to be below ADEC Cleanup Levels. ADEC required No Further Action on this site in April of 1996.
Construction trade areas and materials	C09	C9-60	B	130 W INTERNATIONAL AIRPORT RD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-12	B	224 E 54TH AVE	Plate 1	
Seafood processing	N10	N10-9	B	100 E 54TH AVE	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-26	B	239 E INTL AIRPORT RD	Plate 1	
Hardware stores	C17	C17-51	B	330 E INTL AIRPORT RD	Plate 1	
Jewelers	C19	C19-6	B	600 E NORTHERN LIGHTS BL # 130	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-61	B	2702 GAMBELL ST # 206	Plate 1	
Printers, publishers, copiers	C37	C37-28	B	636 W 53RD AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-45	B	5001 ARCTIC BLVD # 202	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-46	B	3315 FAIRBANKS ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-47	B	4450 CORDOVA ST # 210	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-48	B	4450 CORDOVA ST # 130	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-63	B	3708 RHONE CIR	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-64	B	3606 RHONE CIR # 2	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-65	B	3730 RHONE CIR # 103	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-66	B	3606 RHONE CIR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-67	B	3730 RHONE CIR # 202	Plate 1	
Residential area	R01	R1-2	B	Zone B Protection Area	3	217 acres
Municipal or city parks (with green areas)	X04	X4-7	B	Foxtree park	3	
Highways and roads, paved (cement or asphalt)	X20	20-81 - X20-16	B	All roads in Zone B Protection Area	4	
Residential septic systems (serves one single-family home)	R02	R2-7 - R2-24	B	All septic systems in Zone B Protection Area	5	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-116 - D1-23	B	All sewerlines in Zone B Protection Area	5	
Construction trade areas and materials	C09	C9-93	C	575 E DOWLING RD	Plate 1	
Construction trade areas and materials	C09	C9-62	C	5700 LAKE OTIS PKWY	Plate 1	
Welding shops	C43	C43-3	C	106 E DOWLING RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-27	C	5838 ROWAN ST	Plate 1	
Florists	C12	C12-10	C	4502 CASSIN DR	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATVs, snow machines, boats (with service department)	C27	C27-12	C	6239 MACKAY ST	Plate 1	
Motor / motor vehicle repair shops	C31	C31-49	C	6239 MACKAY ST	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-36	C	6239 MACKAY ST	Plate 1	<i>ADEC LUST File # L55.84 and Site Name Continental Motors 6239. A 500-gallon used oil UST was removed from this site in August of 1990. Sampling in May of 1992 indicated low levels of petroleum hydrocarbon and heavy metal contamination in the soil surrounding the excavation. No further action was required by ADEC in August of 1994.</i>
Motor/motor vehicle supplies stores	C28	C28-28	C	1220 E 68TH AVE # 103	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-13	C	6330 ARCTIC BLVD	Plate 1	



Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-32	C	6446 GREENWOOD	Plate 1	ADEC LUST File # L55.50 and Site Name AAA PLUMBING AND HEATING. The removal of a 1,000-gallon gasoline and a 1,000-gallon diesel UST in September of 1992 revealed soil contaminated with petroleum hydrocarbons. Approximately 85 cubic yards of contaminated soil were removed and stockpiled on-site. A corrective action plan was approved by ADEC in November of 2000.
Motor vehicle/general storage yards/facilities	X27	X27-16	C	980 E 54TH AVE	Plate 1	
Metal finishing	I26	I26-1	C	5700 OLD SEWARD HWY # B	Plate 1	
Motor / motor vehicle repair shops	C31	C31-50	C	5610 OLD SEWARD HWY # E	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-40	C	5610 OLD SEWARD HWY # E	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-131	C	6917 OLD SEWARD HWY	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATVs, snow machines, boats (with service department)	C27	C27-15	C	5550 OLD SEWARD HWY	Plate 1	
Scrap, salvage, or junk yards	D59	D59-3	C	5625 Old Seward Highway	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-22	C	5625 Old Seward Highway	Plate 1	ADEC Contaminated Sites File # CS100.125.1 and Site Name ABC Towing/Adrian Gray Property. Wrecking yard using pick ax to puncture gasoline tanks resulting in high levels of GRO and BTEX. Site is Active.
Scrap, salvage, or junk yards	D59	D59-4	C	56th & Old Seward Highway	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-21	C	56th & Old Seward Highway	Plate 1	ADEC Contaminated Sites File # CS100.125.2 and Site Name ABC Towing/Floyd Carley Property. Wrecking yard using pick ax to puncture gasoline tanks resulting in high levels of GRO and BTEX. Site is Active.
Body shops (automotive)	C05	C5-17	C	1111 E DOWLING RD # 101	Plate 1	
Body shops (automotive)	C05	C5-15	C	1840 E DOWLING RD	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-15	C	1800 STRATFORD CT	Plate 1	
Printers, publishers, copiers	C37	C37-44	C	591 W 67TH AVE	Plate 1	
Scrap, salvage, or junk yards	D59	D59-5	C	849 E 56TH AVE	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATVs, snow machines, boats (with service department)	C27	C27-11	C	1733 E Dowling Rd	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-49	C	1733 E Dowling Rd	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-42	C	1733 E Dowling Rd	Plate 1	ADEC LUST File # L55.257 and Site Name Acura of Anchorage . During the removal of a 1,000-gallon used oil UST in March of 1997, soil contamination was discovered. Low levels of petroleum hydrocarbon and heavy metals were detected in soil samples from the excavation. Approximately 30 tons of contaminated soils were exported offsite for treatment. The existing petroleum hydrocarbon contamination was below the most stringent ADEC Category A cleanup guideline for these suite of contaminants. Heavy metal, including lead, arsenic, cadmium, and chromium where characterized as being within normal background concentrations for the Anchorage area. No further action was required by ADEC as of March of 1998.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-19	C	6000-8399 Old Seward Hwy.	Plate 1	ADEC Contaminated Sites File # CS65.06 and Site Name ADOT&PF Old Seward, Dimond -Dowling. DRO contaminated soil discovered during boring activities for road alignment. Site is Inactive.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-104	C	3650 LAKE OTIS PKWY # 140	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-105	C	3600 LAKE OTIS PKWY	Plate 1	
Quarries (sand, gravel, rock, other?)	E10	E10-3	C	240 W 68TH AVE	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-26	C	525 W 67TH AVE	Plate 1	ADEC LUST File # L55.72 and Site Name AIR LAND TRANSPORT, INC.. The closure of an underground storage tank in May of 1990 revealed contamination from a 1,000-gallon diesel and a 1,000-gallon leaded gasoline dispensing systems. LUST cleanup was initiated that same month. ADEC requested further groundwater sampling in July of 1999. No additional information is available at this time.
Motor vehicle/general storage yards/facilities	X27	X27-9	C	525 W 67TH AVE	Plate 1	
Organic chemicals manufacturing	I29	I29-2	C	6415 ARCTIC BLVD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-51	C	1300 E 68TH AVE # 104	Plate 1	
Motor / motor vehicle repair shops	C31	C31-44	C	6325 PETERSBURG ST	Plate 1	
Battery manufacturing/recycling	I06	I6-3	C	166 E POTTER DR # 2	Plate 1	
Pet groomers	C34	C34-3	C	907 E DOWLING RD # 10	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-106	C	3800 LAKE OTIS PKWY	Plate 1	
Hardware stores	C17	C17-60	C	550 W 64TH AVE # 200	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-89	C	1600 E TUDOR RD # 201	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-29	C	240 E POTTER DR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-107	C	3600 LAKE OTIS PKWY # 101	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-30	C	6181 ROSEWOOD ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-108	C	4107 LAUREL ST	Plate 1	
Paint sales /service	C32	C32-6	C	1658 E 59TH AVE # 1	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-109	C	4355 LAUREL ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-110	C	3900 LAKE OTIS PKWY	Plate 1	
Machine and metal work shops	I23	I23-5	C	6511 BRAYTON DR	Plate 1	
Motor / motor vehicle repair shops	C31	C31-52	C	1147 E DOWLING RD	Plate 1	
Pharmacies (with on-site wastewater disposal)	C35	C35-6	C	4201 LAKE OTIS PKWY	Plate 1	
Hardware stores	C17	C17-61	C	5811 OLD SEWARD HWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-132	C	6000 A ST	Plate 1	
Iron and steel manufacturing	I21	I21-1	C	1200 W DOWLING RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-43	C	6407 GREENWOOD ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-31	C	5901 ARCTIC BLVD	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-17	C	6930 OLD SEWARD HWY	Plate 1	
Stone and clay processing/manufacturing	I43	I43-2	C	6131 A ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-113	C	4115 LAKE OTIS PKWY	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-32	C	600 E 57TH PL # B	Plate 1	
Hardware stores	C17	C17-52	C	2000 E DOWLING RD # 15	Plate 1	
Lumber processing and preservation	N04	N4-7	C	166 E POTTER DR	Plate 1	
Car washes with engine or undercarriage cleaning	C08	C8-4	C	1136 E 66TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-90	C	5520 LAKE OTIS PKWY # 101	Plate 1	
Iron and steel manufacturing	I21	I21-2	C	6218 NIELSON WAY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-42	C	6626 GREENWOOD ST	Plate 1	
Motor / motor vehicle repair shops	C31	C31-48	C	1136 E 66TH AVE	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-37	C	1136 E 66TH AVE	Plate 1	
Heavy equipment rental/storage	C18	C18-34	C	6717 ROSEWOOD ST	Plate 1	
Printers, publishers, copiers	C37	C37-45	C	907 E DOWLING RD # 15	Plate 1	
Heavy equipment rental/storage	C18	C18-35	C	130 A STREET LOOP	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-39	C	2240 E DOWLING RD	Plate 1	<i>ADEC LUST File # L55.32 and Site Name Smyth Movers Warehouse.</i> In July of 1992, petroleum contamination was reported to ADEC during the removal of two leaking 1,000-gallon gasoline USTs and one 2,000-gallon diesel UST. Overfills may have resulted in the majority of contamination found at this site. Approximately 28 cubic yards of contaminated soils were removed and stockpiled on-site and later transported offsite for treatment. Excavation sample results showed that the soils met ADEC Cleanup Level A requirements. Groundwater did not show indication of contamination during the site investigations. ADEC issued a No Further Action letter in December of 1996.
Motor vehicle/general storage yards/facilities	X27	X27-10	C	2240 E DOWLING RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-91	C	1600 E TUDOR RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-53	C	6150 A ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-46	C	6150 A ST	Plate 1	
Recycling and waste reduction facilities	D57	D57-3	C	6161 ROSEWOOD ST	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-31	C	6301 ROSEWOOD	Plate 1	<i>ADEC LUST File # L55.153 and Site Name ANCHORAGE REFUSE INC.</i> A July 1992 removal of a 9,000-gallon diesel and 2 - 2,000-gallon unleaded gasoline UST and dispensers found groundwater and soils contaminated with petroleum hydrocarbons. The unconfined aquifer at this site was identified at 6 to 7 feet below land surface. Contaminated soils remain below groundwater level. Contaminated soils were removed from the excavation and biocell treatment was employed to remediate soils. ADEC requested additional information regarding the site and a quarterly groundwater monitoring report in June of 2000. No additional information is available at this time.

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-34	C	6250 ROSEWOOD DR	Plate 1	<i>ADEC LUST File # L55.73 and Site Name Anderson Trucking.</i> Soil and groundwater contamination was encountered during the removal of a 2,000-gallon diesel and a 2,000-gallon gasoline UST in May of 1990. In October of 1990, ADEC requested a long term groundwater sampling program and remediation plan. Four (4) groundwater monitoring wells were installed to determine the extent of contamination. Contaminated soils were removed and stockpiled on-site and later transported offsite for disposal. Groundwater and soil samples taken in 1992 showed a marked decrease in petroleum hydrocarbon concentrations and were below ADEC required cleanup levels. A No Further Action letter was issued by ADEC in January of 1993.
Motor vehicle/general storage yards/facilities	X27	X27-7	C	6250 ROSEWOOD DR	Plate 1	
Appliance repair shops	C03	C3-2	C	230 E POTTER DR # 9	Plate 1	
Motor / motor vehicle repair shops	C31	C31-54	C	6031 ARCTIC BLVD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-41	C	6031 ARCTIC BLVD	Plate 1	
Beverage industry	I07	I7-3	C	5915 LAKE OTIS PKWY # 3	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-33	C	1301 E DOWLING RD # 105	Plate 1	
Printers, publishers, copiers	C37	C37-41	C	2217 E TUDOR RD # 17	Plate 1	
Body shops (automotive)	C05	C5-18	C	6727 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-52	C	6727 OLD SEWARD HWY	Plate 1	
Gasoline stations (without repair shop)	C15	C15-16	C	6010 OLD SEWARD HWY	Plate 1	
Tanks, gasoline (underground)	T12	T12-44	C	6010 OLD SEWARD HWY	Plate 1	12,000-gallons, double-walled and cathodically protected
Tanks, gasoline (underground)	T12	T12-45	C	6010 OLD SEWARD HWY	Plate 1	12,000-gallons, double-walled and cathodically protected
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-25	C	6010 OLD SEWARD HWY	Plate 1	<i>ADEC LUST File # L30.21 and Site Name WILLIAMS EXPRESS STORE #5021.</i> Site investigations conducted in 1990 showed high levels of benzene, toluene, ethylbenzene, & xylenes in groundwater emanating from leaking diesel and gasoline USTs. A groundwater monitoring wells were installed to determine the extent and magnitude of contamination. An in situ vapor extraction system was in operation in late 1990 and early 1991 to aid in the remediation of the site. Monitoring of petroleum hydrocarbons in groundwater continues at this site.

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-27	C	Roger Dr.& Campbell Place	Plate 1	ADEC Contaminated Sites File # CS69.24 and Site Name AWWU Homestead Acres Water Extension. During excavation for a pipeline on 9/21/89, diesel contaminated soils and groundwater were encountered. Site is Inactive.
Motor / motor vehicle repair shops	C31	C31-55	C	6705 ROSEWOOD ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-38	C	6705 ROSEWOOD ST	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-14	C	6000 ARCTIC BLVD	Plate 1	
Heavy equipment rental/storage	C18	C18-36	C	6871 OLD SEWARD HWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-30	C	6871 OLD SEWARD HWY	Plate 1	ADEC LUST File # L55.149 and Site Name BAILEY'S RENT ALL INC. Two 1000-gallon diesel and one 1000-gallon gasoline USTs were removed from this site in November of 1991 to reveal soil and groundwater contaminated with petroleum constituents. Contaminated soils were excavated and stockpiled onsite. In April of 2001, the responsible party hired a consultant to conduct a release investigation for the site which includes excavation sidewall sampling, stockpile sampling, and the installation of groundwater monitoring wells. No additional information is available at this time.
Motor vehicle dealerships - cars, trucks, motor cycles, ATVs, snow machines, boats (with service department)	C27	C27-16	C	5740 OLD SEWARD HWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-27	C	299 W 64TH AVE	Plate 1	ADEC LUST File # L55.08 and Site Name BEKINS MOVING & STORAGE. Gasoline contaminated soil and groundwater was discovered in July 1990 associated with a leaking 2,000-gallon UST. A Corrective Action Plan was approved by ADEC in August of 1998. Letters requesting workplans for identification of vertical/lateral extent of surface/subsurface contamination were sent to the responsible party in August and October of 2000 and again in March of 2001.
Motor vehicle/general storage yards/facilities	X27	X27-18	C	299 W 64TH AVE	Plate 1	
Pharmacies (with on-site wastewater disposal)	C35	C35-7	C	4045 LAKE OTIS PKWY # 204	Plate 1	
Construction trade areas and materials	C09	C9-71	C	1300 E 68TH AVE # 112	Plate 1	
Closed tanks, diesel (underground)	T09	T9-3	C	1300 E 68TH AVE # 112	Plate 1	Tank closed in place
Heavy equipment rental/storage	C18	C18-37	C	6415 ARCTIC BLVD	Plate 1	
Construction trade areas and materials	C09	C9-72	C	5941 ARCTIC BLVD	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Motor / motor vehicle repair shops	C31	C31-56	C	6209 MIKE ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-36	C	5941 ARCTIC BLVD	Plate 1	
Heavy equipment rental/storage	C18	C18-38	C	6927 OLD SEWARD HWY # 105	Plate 1	
Leather processing	C24	C24-3	C	5911 OLD SEWARD HWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-114	C	4000 LAUREL ST	Plate 1	
Motor / motor vehicle repair shops	C31	C31-45	C	1950 E DOWLING RD # C	Plate 1	
Hardware stores	C17	C17-62	C	151 A STREET LOOP # 2	Plate 1	
Petroleum product bulk station/terminals	X11	X11-2	C	1727 BARTLETT DR	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-44	C	5901 ARCTIC BLVD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-15	C	6350 NIELSON WAY	Plate 1	
Hardware stores	C17	C17-63	C	600 E 57TH PL	Plate 1	
Motor / motor vehicle repair shops	C31	C31-57	C	6820 ROSEWOOD ST	Plate 1	
Printers, publishers, copiers	C37	C37-46	C	6361 NIELSON WAY # 210	Plate 1	
Orchards or nurseries	A10	A10-3	C	6151 B ST	Plate 1	
Motor / motor vehicle repair shops	C31	C31-58	C	5941 ARCTIC BLVD # AQ	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-115	C	4045 LAKE OTIS PKWY # 210	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-34	C	230 E POTTER DR # 2	Plate 1	
Motor / motor vehicle repair shops	C31	C31-59	C	5941 ARCTIC BLVD # J	Plate 1	
Laundromats without dry cleaning	C22	C22-2	C	2494 E TUDOR RD	Plate 1	
Construction trade areas and materials	C09	C9-73	C	1217 E 66TH AVE	Plate 1	
Heavy equipment rental/storage	C18	C18-39	C	1217 E 66TH AVE	Plate 1	
Heavy equipment rental/storage	C18	C18-40	C	5400 HOMER DR	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV s, snow machines, boats (with service department)	C27	C27-13	C	6255 MACKAY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-57	C	6255 MACKAY	Plate 1	

Table 1

**Contaminant Source Inventory for  
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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-38	C	6255 MACKAY	Plate 1	ADEC LUST File # L55.85 and Site Name Continental Motors 6255. Soil and groundwater contamination was discovered during the removal of a 500-gallon used oil UST in August of 1990. Approximately 6 cubic yards of contaminated soils were excavated from the site and transported to another contaminated soils stockpile at 4940 Old Seward Highway. The entire stockpile was eventually transported for thermal treatment in July of 1993. The excavation was later filled with clean sand and gravel. No petroleum hydrocarbons were detected in groundwater from samples taken in September of 1992. ADEC issued a No Further Action letter indicating that site cleanup was complete in August of 1994.
Motor / motor vehicle repair shops	C31	C31-60	C	130 W DOWLING RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-39	C	130 W DOWLING RD	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-12	C	2000 E DOWLING RD # 6	Plate 1	
Construction trade areas and materials	C09	C9-63	C	2000 E DOWLING RD # 4	Plate 1	
Lumber processing and preservation	N04	N4-6	C	2518 E TUDOR RD	Plate 1	
Petroleum product bulk station/terminals	X11	X11-3	C	2080 DIMOND DR	Plate 1	
Heavy equipment rental/storage	C18	C18-31	C	6129 PETERSBURG ST	Plate 1	
Hardware stores	C17	C17-64	C	6239 B ST # 102	Plate 1	
Hardware stores	C17	C17-65	C	6706 GREENWOOD ST	Plate 1	
Construction trade areas and materials	C09	C9-74	C	538 LYNWOOD DR	Plate 1	
Car washes with engine or undercarriage cleaning	C08	C8-5	C	538 LYNWOOD DR	Plate 1	
Motor / motor vehicle repair shops	C31	C31-61	C	6820 ROSEWOOD ST # 13	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-55	C	6820 ROSEWOOD ST # 13	Plate 1	
Construction trade areas and materials	C09	C9-75	C	740 BONANZA AVE	Plate 1	
Construction trade areas and materials	C09	C9-68	C	1621 STANTON AVE	Plate 1	
Construction trade areas and materials	C09	C9-64	C	6112 PETERSBURG ST	Plate 1	
Beverage industry	I07	I7-4	C	1301 E DOWLING RD # 107	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-92	C	2545 E TUDOR RD	Plate 1	
Agricultural chemical sales/storage	C02	C2-2	C	5340 TUDORTOP CIR	Plate 1	
Hardware stores	C17	C17-53	C	5406 LAKE OTIS PKWY	Plate 1	
Construction trade areas and materials	C09	C9-76	C	6150 A ST	Plate 1	
Body shops (automotive)	C05	C5-19	C	6616 ROSEWOOD ST	Plate 1	



Table 1

**Contaminant Source Inventory for  
MOA Well #12**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-56	C	6616 ROSEWOOD ST	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-33	C	6616 ROSEWOOD ST	Plate 1	<i>ADEC LUST File # L55.45 and Site Name Distinctive Auto Body.</i> Contaminated soil and groundwater was discovered during an October 1989 removal of a 500-gallon used oil UST. Approximately 65 cubic yards of soil were excavated and transported offsite for treatment and disposal. Four (4) groundwater monitoring wells were installed to assess impacts to the unconfined aquifer. On August 18, 1992, groundwater was sampled from one monitoring well and a domestic drinking water well downgradient of the site. Total petroleum hydrocarbon in the wells were 0.22 mg/L and no-detect, respectively. Based on the concentrations of existing contaminants within the soils and groundwater, ADEC issued a no further actions letter in September of 1992. All four monitoring wells were decommissioned in October of 1992.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-133	C	5901 ARCTIC BLVD # H	Plate 1	
Motor / motor vehicle repair shops	C31	C31-62	C	6220 MACKAY ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-35	C	1801 E Dowling Road	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-18	C	1801 E Dowling Road	Plate 1	<i>ADEC Contaminated Sites File # CS100.230 and Site Name Dowling Investments.</i> This is a combination LUST and CS site. The CS portion comprises contaminated soils beneath a floor drain system in the former Honda dealership shop at this property. Soils have up to 250 ppm TCE and deisel contaminated soils exceeding cleanup standards. Based on the TCE levels and additional TCLP testing, the soils would be hazardous waste if excavated. Groundwater is probably contaminated. Site is Active.
Lawn and garden supplies/services	C23	C23-4	C	2000 E DOWLING RD	Plate 1	
Machine and metal work shops	I23	I23-6	C	6706 GREENWOOD ST # 1	Plate 1	
Appliance repair shops	C03	C3-3	C	5610 OLD SEWARD HWY # G	Plate 1	
Gasoline stations (without repair shop)	C15	C15-14	C	6321 A ST	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-41	C	6321 A ST	Plate 1	<i>ADEC LUST File # L55.182, L55.322 and Site Name COASTAL TIRE.</i> A 500-gallon used oil UST was removed and revealed soil contamination in September of 1998.

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-41	C	6321 A ST	Plate 1	ADEC LUST File # L55.182 and Site Name COASTAL TIRE. Gasoline contaminated soils were discovered during the removal of a 1,000-gallon regulated UST in April of 1994. Site cleanup was completed in April of 2000.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-116	C	3650 LAKE OTIS PKWY # 102	Plate 1	
Motor / motor vehicle repair shops	C31	C31-63	C	5740 B ST	Plate 1	
Heavy equipment rental/storage	C18	C18-30	C	6727 Old Seward Hwy.	Plate 1	CS100.113 *diesel fuel, residual range petroleum hydrocarbons
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-23	C	6727 Old Seward Hwy.	Plate 1	ADEC Contaminated Sites File # CS100.113 and Site Name Exploration Supply & Equipment, Inc. Surface and near surface soils were contaminated with diesel and residual range petroleum hydrocarbons. Groundwater data from 1998 identifies GRO, benzene, and 1-2, DCE above cleanup levels. The source of the contamination is believed to be leakage of fuels and/or oils from heavy equipment parked on the site. Site is Active.
Heavy equipment rental/storage	C18	C18-41	C	6627 ROSEWOOD ST	Plate 1	
Car washes with engine or undercarriage cleaning	C08	C8-6	C	6521 GREENWOOD ST	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATVs, snow machines, boats (without service department)	C26	C26-2	C	900 E DOWLING RD	Plate 1	
Paint sales /service	C32	C32-9	C	151 A STREET LOOP # 1	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-36	C	6407 BRAYTON	Plate 1	ADEC LUST File # L55.225 and Site Name FORMER QUICK LUBE. Soil contamination was discovered in July of 1996 during the removal of a 500-gallon used oil UST. A letter was sent to the responsible party in June of 1996 requesting an update on LUST corrective action.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-117	C	3650 LAKE OTIS PKWY # 102	Plate 1	
Construction trade areas and materials	C09	C9-77	C	634 FISCHER AVE	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-19	C	6321 A ST	Plate 1	
Body shops (automotive)	C05	C5-20	C	5941 ARCTIC BLVD # P	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-16	C	1537 E DOWLING RD	Plate 1	
Windshield/glass repair shops	C44	C44-5	C	5955 OLD SEWARD HWY	Plate 1	
Heavy equipment rental/storage	C18	C18-32	C	6300 PETERSBURG ST	Plate 1	

Table 1

**Contaminant Source Inventory for  
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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Motor/motor vehicle supplies stores	C28	C28-35	C	6240 B ST	Plate 1	
Closed tanks, gasoline (underground)	T13	T13-2	C	6100 A ST	Plate 1	1,000-gallon
Closed tanks, gasoline (underground)	T13	T13-3	C	6100 A ST	Plate 1	1,000-gallon
Motor / motor vehicle repair shops	C31	C31-64	C	6031 ARCTIC BLVD	Plate 1	
Construction trade areas and materials	C09	C9-78	C	6041 MACKAY ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-118	C	4001 LAKE OTIS PKWY # 100	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-119	C	4003 LAKE OTIS PKWY # 101	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-16	C	109 A STREET LOOP	Plate 1	
Motor / motor vehicle repair shops	C31	C31-65	C	6230 A ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-45	C	5941 ARCTIC BLVD	Plate 1	
Hardware stores	C17	C17-66	C	106 E DOWLING RD # B	Plate 1	
Hardware stores	C17	C17-54	C	6407 BRAYTON DR	Plate 1	
Hardware stores	C17	C17-67	C	907 E DOWLING RD # 4	Plate 1	
Construction trade areas and materials	C09	C9-79	C	646 E DOWLING RD	Plate 1	
Septic tank cleaning and servicing	C39	C39-1	C	6218 QUINHAGAK ST	Plate 1	
Body shops (automotive)	C05	C5-21	C	5941 ARCTIC BLVD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-36	C	5645 OLD SEWARD HWY	Plate 1	
Wastewater Holding Tank	T22	T22-1	C	6441 A ST	Plate 1	350-gallons, CLOSED LUST Site
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-35	C	6441 A ST	Plate 1	<i>ADEC LUST File # L100.40 and Site Name Carr Gottstein Warehouse.</i> In July of 1990, soil contamination was discovered during the removal of a 5,000-gallon diesel UST and dispenser. Approximately 230 cubic yards were stockpiled onsite for remediation. No information is available to whether or not groundwater was impacted at this site. Stockpile and excavation site met ADEC cleanup guidelines in 1998 and a no further action letter was issued in April of 2000.
Construction trade areas and materials	C09	C9-80	C	6109 MIKE ST	Plate 1	
Body shops (automotive)	C05	C5-22	C	6241 A ST	Plate 1	
Body shops (automotive)	C05	C5-23	C	774 FISCHER AVE	Plate 1	
Hardware stores	C17	C17-68	C	5650 OLD SEWARD HWY # F	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-31	C	6307 ARCTIC SPUR RD	Plate 1	ADEC LUST File # L55.03 and Site Name K & L DISTRIBUTORS INC. Petroleum hydrocarbon impacted soils and groundwater were discovered during the removal of a 2,500-gallon diesel UST and two 1,500-gallon gasoline USTs in May of 1989. Approximately 1,600 tons of contaminated soils were removed from the excavation and stored onsite for remediation until the soils met cleanup criteria for disposal at the Anchorage Municipal Landfill. Three (3) groundwater monitoring wells were installed to determine the presence or absence of contaminants in the unconfined aquifer. Groundwater samples taken in December of 1990 indicated benzene in at least one of the monitoring wells. A No Further Action letter was issued when total petroleum hydrocarbon reached ADEC target cleanup levels in June of 1993.
Body shops (automotive)	C05	C5-24	C	151 A STREET LOOP # 3	Plate 1	
Dry cleaners	C10	C10-5	C	5520 LAKE OTIS PKWY # 106	Plate 1	
Injection wells (Class V) Industrial Process Water & Water Disposal Wells	D40	D40-4	C	5520 LAKE OTIS PKWY # 106	Plate 1	
Body shops (automotive)	C05	C5-25	C	5610 OLD SEWARD HWY # J	Plate 1	
Construction trade areas and materials	C09	C9-81	C	150 W DOWLING RD	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-25	C	1147 E Dowling Road	Plate 1	ADEC Contaminated Sites File # CS100.89 and Site Name Laidlaw Transit Inc.. Countless spills of petroleum hydrocarbons. Site is Inactive.
Gasoline stations (with repair shop)	C16	C16-10	C	4417 LAKE OTIS PKWY	Plate 1	
Tanks, gasoline (underground)	T12	T12-46	C	4417 LAKE OTIS PKWY	Plate 1	10,000-gallons, single-walled, Tank Tightness Testing, Inventory Control, SIR
Tanks, gasoline (underground)	T12	T12-47	C	4417 LAKE OTIS PKWY	Plate 1	10,000-gallons, single-walled, Tank Tightness Testing, Inventory Control, SIR
Tanks, gasoline (underground)	T12	T12-48	C	4417 LAKE OTIS PKWY	Plate 1	5,000-gallons, single-walled, Tank Tightness Testing, Inventory Control, SIR
Wastewater Holding Tank	T22	T22-2	C	4417 LAKE OTIS PKWY	Plate 1	40-gallons
Wastewater Holding Tank	T22	T22-3	C	4417 LAKE OTIS PKWY	Plate 1	40-gallons
Tanks, diesel (underground)	T08	T8-37	C	4417 LAKE OTIS PKWY	Plate 1	40-gallons

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-28	C	4417 LAKE OTIS PKWY	Plate 1	ADEC LUST File # L10.11 and Site Name LAKE OTIS CHEVRON #97324. In September of 1990, a used oil UST failed a tank tightness test and soil contamination was discovered. Petroleum hydrocarbons, tetrachloroethylene (PCE), 1,2-dichloroethane, 1,4-dichlorobenzene, and 1,1,1-dichloroethane was discovered in soils above MCLs. Groundwater monitoring wells were installed and revealed elevated levels of petroleum and chlorinated hydrocarbons including trichloroethylene (TCE). It was suggested that the chlorinated hydrocabons originated from an off-site contaminant source (dry cleaning business). A vapor extraction/bioventing system was installed and was operational by January of 1993. Petroleum and chlorinated hydrocarbons in the groundwater have been monitored on four times per year since 1993. In April of 2001, ADEC approved a workplan for the installation of three additional groundwater monitoring wells. A groundwater monitoring report was submitted to ADEC in June of 2001.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-120	C	3744 LAKE OTIS PKWY	Plate 1	
Pharmacies (with on-site wastewater disposal)	C35	C35-8	C	4201 LAKE OTIS PKWY	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-17	C	1135 E DOWLING RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-37	C	230 E POTTER DR # 6	Plate 1	

Table 1

**Contaminant Source Inventory for  
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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-32	C	1205 E DOWLING RD	Plate 1	ADEC LUST File #L55.47 and Site Name Vehicle Facility on Dowling Road; LOOMIS ARMORED INC. Soil contamination was encountered during a September 1989 removal of a 3,000-gallon gasoline UST. Approximately 60 cubic yards of contaminated soils were removed and properly disposed of in an ADEC manner. Further site assessment required by ADEC documented groundwater contamination. Groundwater samples taken from monitoring wells upgradient and downgradient of the UST excavation indicated similar levels of toluene, a constituent of gasoline. This provided evidence that another petroleum hydrocarbon contaminant source may have contributed partly or entirely to groundwater contamination at this site. Groundwater samples taken September of 1990 indicated low levels of toluene in three of four monitoring wells. These levels were well below the MCL for this contaminant. A letter sent by ADEC stating that no further action was required except to properly abandon monitoring wells was sent out in June of 1991.
Motor vehicle/general storage yards/facilities	X27	X27-8	C	1205 E DOWLING RD	Plate 1	
Body shops (automotive)	C05	C5-26	C	5901 ARCTIC BLVD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-17	C	648 E DOWLING RD # 101	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-18	C	6041 MACKAY ST	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-26	C	6511 Brayton Drive	Plate 1	ADEC Contaminated Sites File # CS100.86 and Site Name Magnum Marine of AK. - Murray Subdivision. Waste drums of oil with RCRA action levels of lead and mercury. Suspected discharge of petroleum hydrocarbons between 8/90 and 11/90. Above ground spills of oil and oil water separator not working so it was discharging improperly. Site is Inactive.
Printers, publishers, copiers	C37	C37-42	C	6407 BRAYTON DR # E	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-93	C	5905 LAKE OTIS PKWY # A	Plate 1	
Welding shops	C43	C43-4	C	6121 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-82	C	6118 OLD SEWARD HWY	Plate 1	

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**Contaminant Source Inventory for  
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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-40	C	2600 PROVIDENCE DR	Plate 1	ADEC LUST File # L73.06 and Site Name DHSS - McLaughlin Youth Center. Soil contaminated with petroleum hydrocarbons was discovered during the removal of a 500-gallon diesel UST in February of 1993. The soils beneath the excavation met ADEC Cleanup Level A requirements. Contaminated stockpiled soils were later transported offsite for disposal. Site cleanup was complete in April of 1994.
Construction trade areas and materials	C09	C9-83	C	141 A STREET LOOP	Plate 1	
Paint sales /service	C32	C32-7	C	1921 BARTLETT DR	Plate 1	
Tanks, diesel (underground)	T08	T8-33	C	4001 LAUREL ST	Plate 1	500-gallons, double-walled
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-35	C	4001 LAUREL ST	Plate 1	ADEC LUST File # L55.205 and Site Name ALASKA SURGERY CENTER. A release of diesel fuel was discovered during the removal of a 500-gallon UST (emergency generator) in December of 1994.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-96	C	4050 LAKE OTIS PKWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-111	C	4048 LAUREL ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-112	C	4001 LAUREL ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-121	C	4200 LAKE OTIS PKWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-126	C	4120 LAUREL ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-127	C	2401 E 42ND AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-130	C	4325 LAUREL ST	Plate 1	
Body shops (automotive)	C05	C5-27	C	5650 OLD SEWARD HWY	Plate 1	
Motor / motor vehicle repair shops	C31	C31-66	C	202 E POTTER DR	Plate 1	
Construction trade areas and materials	C09	C9-84	C	6637 GREENWOOD ST	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-34	C	4350 MACINNES	Plate 1	ADEC LUST File # L69.47 and Site Name MOA - FIRE STATION #4. A diesel spill was discovered during the closure of a 500-gallon UST in September of 1994. ADEC reviewed the corrective action plan in October of 1995 and a release investigation report in January of 1995.
Firehouses	X38	X38-1	C	4350 MACINNES	Plate 1	
Motor / motor vehicle repair shops	C31	C31-46	C	2000 E DOWLING RD # 8	Plate 1	
Body shops (automotive)	C05	C5-28	C	5901 ARCTIC BLVD	Plate 1	

Table 1

**Contaminant Source Inventory for  
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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Body shops (automotive)	C05	C5-29	C	1301 E DOWLING RD	Plate 1	
Paint sales /service	C32	C32-8	C	2091 CAMPBELL PL	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV s, snow machines, boats (with service department)	C27	C27-17	C	5941 ARCTIC BLVD # I	Plate 1	
Motor / motor vehicle repair shops	C31	C31-47	C	6300 PETERSBURG ST	Plate 1	
Tanks, diesel (underground)	T08	T8-36	C	5901 LAKE OTIS PKWY	Plate 1	300-gallons
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-29	C	6450 ARCTIC BLVD.	Plate 1	<i>ADEC LUST File # L55.128 and Site Name N. C. MACHINERY CO.</i> In September of 1991, soil and groundwater contamination was discovered emanating from leaks in the piping of a gasoline UST. Groundwater monitoring wells were installed in August of 1993 to determine the type, magnitude, and extent of contamination.
Machine and metal work shops	I23	I23-7	C	1200 W DOWLING RD	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-20	C	6228 Nielson Way	Plate 1	<i>ADEC Contaminated Sites File # CS100.154 and Site Name NANA/Dynatec-JV.</i> Leaking drums - petroleum hydrocarbons and solvents. Contamination remains beneath structures onsite. Site status is "No Further Remedial Action Planned".
Motor/motor vehicle supplies stores	C28	C28-38	C	1130 E DOWLING RD	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-13	C	2490 E 42ND AVE	Plate 1	
Body shops (automotive)	C05	C5-30	C	5941 ARCTIC BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-122	C	4115 LAKE OTIS PKWY # 201	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-20	C	299 W 64TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-85	C	6108 MACKAY ST # 200	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-123	C	4231 LAKE OTIS PKWY	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-24	C	6211 Old Seward Highway	Plate 1	<i>ADEC Contaminated Sites File # CS100.212 and Site Name Old Seward Hwy. Sawmill.</i> Soil and groundwater contamination from diesel releases. Site status is "No Further Remedial Action Planned".
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-124	C	3650 LAKE OTIS PKWY # 201	Plate 1	
Construction trade areas and materials	C09	C9-86	C	6260 OLD SEWARD HWY	Plate 1	
Hardware stores	C17	C17-55	C	5520 LAKE OTIS PKWY # 105A	Plate 1	
Closed tanks, gasoline (underground)	T13	T13-4	C	5900 ARCTIC BLVD.	Plate 1	Tank closed in place



Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-14	C	2333 E TUDOR RD	Plate 1	
Construction trade areas and materials	C09	C9-65	C	2227 E 53RD AVE	Plate 1	
Body shops (automotive)	C05	C5-31	C	1237 E 66TH AVE	Plate 1	
Dry cleaners	C10	C10-6	C	4501 LAKE OTIS PKWY	Plate 1	
Injection wells (Class V) Industrial Process Water & Water Disposal Wells	D40	D40-3	C	4501 LAKE OTIS PKWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-134	C	907 E DOWLING RD # 7	Plate 1	
Construction trade areas and materials	C09	C9-69	C	3820 LAKE OTIS PKWY	Plate 1	
Lumber processing and preservation	N04	N4-8	C	5900 ARCTIC BLVD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-67	C	6727 GREENWOOD ST	Plate 1	
Hardware stores	C17	C17-69	C	6514 GREENWOOD ST	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATV's, snow machines (with service department)	C30	C30-15	C	1801 E DOWLING RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-48	C	1801 E DOWLING RD	Plate 1	
Closed tanks, heating oil, nonresidential (underground)	T17	T17-1	C	1801 E DOWLING RD	Plate 1	950-gallons
Motor vehicle/general storage yards/facilities	X27	X27-11	C	1524 E DOWLING RD	Plate 1	
Hardware stores	C17	C17-70	C	6446 HOMER DR	Plate 1	
Motor / motor vehicle repair shops	C31	C31-68	C	210 E POTTER DR	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-54	C	210 E POTTER DR	Plate 1	
Construction trade areas and materials	C09	C9-66	C	1720 E 59TH AVE	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-21	C	1100 E DOWLING RD	Plate 1	
Heavy equipment rental/storage	C18	C18-42	C	6116 NIELSON WAY	Plate 1	
Asphalt and tar processing/storage	I03	I3-3	C	240 W 68TH AVE	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-12	C	2240 E DOWLING RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-39	C	130 E DOWLING RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-125	C	4335 LAUREL ST	Plate 1	
Heavy equipment rental/storage	C18	C18-43	C	1150 E 68TH AVE	Plate 1	
Hardware stores	C17	C17-56	C	2020 E DOWLING RD # 7	Plate 1	
Construction trade areas and materials	C09	C9-87	C	6151 A ST	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Gasoline stations (without repair shop)	C15	C15-13	C	2510 TUDOR RD	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-33	C	2510 TUDOR RD	Plate 1	ADEC LUST File # L55.180 and Site Name <i>RENNERS GAS AND SAVE</i> . One 6,000-gallon diesel and two 12,000-gallon gasoline USTs were removed from this site in October of 1993. Tank excavations revealed soil and groundwater contamination. A Notice of Violation (NOV) was sent to the responsible party in November of 1995 for failure to submit a Release Investigation report nor a Corrective Action Plan. ADEC once again requested a workplan in June of 2001. A reply is currently overdue.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-47	C	1301 E DOWLING RD	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-29	C	1301 E 64th Avenue	Plate 1	ADEC Contaminated Sites File # CS100.47 and Site Name <i>Rogers &amp; Babler Inc.</i> Waste oil, asphalt being stored on site in 55 gallon drums. EPA plans no further action at site. 300 tons of tainted soils excavated while remediating surface soils and wastewater sump in 10/90. TPH, BTEX, and 1,2 dichlorobenzene detected in excavated soils. Further excavation at sump planned. Site is Closed.
Motor / motor vehicle repair shops	C31	C31-69	C	230 E POTTER DR # 3	Plate 1	
Hardware stores	C17	C17-71	C	1320 E 68TH AVE # 101	Plate 1	
Windshield/glass repair shops	C44	C44-6	C	5650 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-88	C	6208 MACKAY ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-128	C	3650 LAKE OTIS PKWY # 202	Plate 1	
Body shops (automotive)	C05	C5-32	C	5941 ARCTIC BLVD	Plate 1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-3	C	5941 ARCTIC BLVD	Plate 1	
Iron and steel manufacturing	I21	I21-3	C	6148 NIELSON WAY	Plate 1	
Hardware stores	C17	C17-57	C	5520 LAKE OTIS PKWY # 103	Plate 1	
Hardware stores	C17	C17-72	C	877 E DOWLING RD	Plate 1	
Dry cleaners	C10	C10-7	C	6726 GREENWOOD ST	Plate 1	
Welding shops	C43	C43-2	C	6130 NIELSON WAY	Plate 1	
Metal fabrication	I25	I25-3	C	6130 NIELSON WAY	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-58	C	6130 NIELSON WAY	Plate 1	ADEC LUST File # 55.178 and Site Name SHEET METAL INC. Very low levels of petroleum hydrocarbons below ADEC Level A Cleanup Standards were discovered during the removal of a 1,000-gallon gasoline UST in March of 1993. Based on the low level of existing contamination, a No Further Action letter was issued in March of 1996.
Car washes with engine or undercarriage cleaning	C08	C8-7	C	1147 E DOWLING RD	Plate 1	
Body shops (automotive)	C05	C5-33	C	5941 ARCTIC BLVD # G	Plate 1	
Heavy equipment rental/storage	C18	C18-44	C	6308 MACKAY ST	Plate 1	
Closed tanks, lubricants or other petroleum products (underground)	T21	T21-2	C	600 E 57TH PLACE	Plate 1	
Lubrication shops	C25	C25-2	C	1721 E DOWLING RD	Plate 1	
Scrap, salvage, or junk yards	D59	D59-6	C	849 E 56TH AVE	Plate 1	
Body shops (automotive)	C05	C5-16	C	1657 E DOWLING RD	Plate 1	
Heavy equipment rental/storage	C18	C18-33	C	6108 PETERSBURG ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-94	C	5520 LAKE OTIS PKWY	Plate 1	
Printers, publishers, copiers	C37	C37-43	C	6340 PETERSBURG ST	Plate 1	
Sign manufacturing	I39	I39-5	C	6170 OLD SEWARD HWY	Plate 1	
Heavy equipment rental/storage	C18	C18-45	C	6727 OLD SEWARD HWY # A	Plate 1	
Construction trade areas and materials	C09	C9-67	C	5101 LAUREL ST	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-13	C	6228 QUINHAGAK ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-40	C	6321 A ST	Plate 1	
Meat processing	N05	N5-5	C	6123 MACKAY ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-53	C	6017 AUSTIN ST	Plate 1	
Construction trade areas and materials	C09	C9-89	C	600 E 57TH PL # B	Plate 1	
Body shops (automotive)	C05	C5-34	C	151 A STREET LOOP # 3	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-129	C	4001 LAKE OTIS PKWY # 200	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-14	C	6200 PETERSBURG ST	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATVs, snow machines, boats (without service department)	C26	C26-3	C	1301 E 64TH AVE	Plate 1	
Motor / motor vehicle repair shops	C31	C31-70	C	151 A STREET LOOP # 7	Plate 1	
Construction trade areas and materials	C09	C9-70	C	3820 LAKE OTIS PKWY	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Gasoline stations (without repair shop)	C15	C15-15	C	4409 LAKE OTIS PKWY	Plate 1	
Tanks, gasoline (underground)	T12	T12-41	C	4409 LAKE OTIS PKWY	Plate 1	10,000-gallons, single-walled, Tank Tightness Testing, Inventory Control, ATG, Vapor Monitoring, and Groundwater Monitoring
Tanks, gasoline (underground)	T12	T12-42	C	4409 LAKE OTIS PKWY	Plate 1	10,000-gallons, single-walled, Tank Tightness Testing, Inventory Control, ATG, Vapor Monitoring, and Groundwater Monitoring
Tanks, gasoline (underground)	T12	T12-43	C	4409 LAKE OTIS PKWY	Plate 1	12,000-gallons, single-walled, Tank Tightness Testing, Inventory Control, ATG, Vapor Monitoring, and Groundwater Monitoring
Tanks, diesel (underground)	T08	T8-35	C	4409 LAKE OTIS PKWY	Plate 1	8,000-gallons, Tank Tightness Testing, Inventory Control, ATG, Vapor Monitoring, and Groundwater Monitoring
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-38	C	4409 LAKE OTIS PKWY	Plate 1	<i>ADEC LUST File # L25.19 and Site Name TUDOR TEXACO FOOD MART #18.</i> A confirmation of a release of petroleum hydrocarbons was received by ADEC in August of 1996. LUST corrective action was initiated in March of 1998. ADEC requested the submittal of a Corrective Action Plan for contaminated soil and groundwater for this site in July of 2000. No additional information is available at this time.
Construction trade areas and materials	C09	C9-90	C	6211 OLD SEWARD HWY	Plate 1	
Hardware stores	C17	C17-58	C	2020 E DOWLING RD # 6	Plate 1	
Welding shops	C43	C43-5	C	5839 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-50	C	5839 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-61	C	160 W 68TH	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-37	C	160 W 68TH	Plate 1	<i>ADEC LUST File # L55.83 and Site Name United Lumber Company Incorporated.</i> Soil and groundwater contamination was discovered during the removal of a 1,300-gallon diesel fuel UST in August of 1990. Approximately 518 tons of contaminated soil was removed from the excavation in October of 1990 and transported to the Anchorage Regional Landfill (below 1000 ppm TPH). Several other stockpiles that exceeded 1000 ppm TPH were transported offsite for treatment. In 1992, soils and groundwater were sampled again. Test results showed a small amount of contamination remains beneath the foundation of a structure onstie. This same sampling period yeilded total petroleum hydrocarbon (TPH) concentrations below MCLs. Site closure was granted in August of 1992.

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Motor/motor vehicle supplies stores	C28	C28-41	C	106 E DOWLING RD	Plate 1	
Construction trade areas and materials	C09	C9-91	C	125 A STREET LOOP	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-28	C	2523 Providence Drive	Plate 1	<i>ADEC Contaminated Sites File # No File Number and Site Name University of Alaska (formerly Anchorage Community College). As much as 100 to 300 gallons of waste oil, allegedly from transformers were spilled to the surface. No PCBs detected in soil samples. On-site inspection conducted in August 1986. Site is Inactive.</i>
Printers, publishers, copiers	C37	C37-47	C	907 E DOWLING RD # 13	Plate 1	
Heavy equipment rental/storage	C18	C18-46	C	160 W 68TH AVE	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-15	C	160 W 68TH AVE	Plate 1	
Boat engine/body repair shops	C04	C4-1	C	1220 E 68TH AVE # 101	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-13	C	6100 A ST	Plate 1	
Tanks, gasoline (underground)	T12	T12-39	C	591 W 67TH AVE	Plate 1	14,000-gallons, double-walled and cathodically protected
Construction trade areas and materials	C09	C9-92	C	6120 A ST	Plate 1	
Hardware stores	C17	C17-59	C	1658 E 59TH AVE	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-19	C	230 E POTTER DR # 4	Plate 1	
Motor / motor vehicle repair shops	C31	C31-71	C	5610 OLD SEWARD HWY # K	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-22	C	6028 MACKAY ST	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATVs, snow machines, boats (with service department)	C27	C27-18	C	6041 MACKAY ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-51	C	5901 ARCTIC BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-88	C	1600 E TUDOR RD # C	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-95	C	4045 LAKE OTIS PKWY # 201	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-97	C	2501 E 42ND AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-98	C	3820 LAKE OTIS PKWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-99	C	2400 E 42ND AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-100	C	4231 LAKE OTIS PKWY	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-101	C	3650 LAKE OTIS PKWY # 205	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-102	C	2501 E 42ND AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-103	C	3650 LAKE OTIS PKWY # 202	Plate 1	
Residential area	R01	R1-3	C	Zone C Protection Area	3	533 acres
Municipal or city parks (with green areas)	X04	X4-8	C	Wickersham Park	3	
Municipal or city parks (with green areas)	X04	X4-9	C	Carlson, Jacobson, and David Green Memorial Parks	3	
Municipal or city parks (with green areas)	X04	X4-10	C	University Park	3	
Municipal or city parks (with green areas)	X04	X4-11	C	Bancroft Park	3	
Municipal or city parks (with green areas)	X04	X4-12	C	Wickersham Park	3	
Municipal or city parks (with green areas)	X04	X4-13	C	Campbell Park	3	
Municipal or city parks (with green areas)	X04	X4-14	C	Lynwood Park	3	
Municipal or city parks (with green areas)	X04	X4-15	C	Meadow Street Park	3	
Highways and roads, paved (cement or asphalt)	X20	X20-162 - X20-297	C	All roads in Zone C Protection Area	4	
Residential septic systems (serves one single-family home)	R02	R2-25 - R2-41	B	All septic systems in Zone C Protection Area	5	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-238 - D1-40	B	All sewerlines in Zone C Protection Area	5	
Tanks, gasoline (underground)	T12	T12-60	D	6740 LAKE OTIS PKWY	Plate 1	10,000-gallons, single-walled, Tank Tightness Testing, Inventory Control, and Vapor Monitoring
Tanks, gasoline (underground)	T12	T12-61	D	6740 LAKE OTIS PKWY	Plate 1	10,000-gallons, single-walled, Tank Tightness Testing, Inventory Control, and Vapor Monitoring
Tanks, gasoline (underground)	T12	T12-62	D	6740 LAKE OTIS PKWY	Plate 1	8,000-gallons, single-walled, Tank Tightness Testing, Inventory Control, and Vapor Monitoring
Tanks, gasoline (underground)	T12	T12-66	D	7550 OLD SEWARD HWY	Plate 1	
Tanks, diesel (underground)	T08	T8-53	D	7550 OLD SEWARD HWY	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-50	D	6740 LAKE OTIS PKWY	Plate 1	<i>ADEC LUST File # L20.09 and Site Name TESORO NORTHSTORE #3.</i> Soil and groundwater contamination was encountered during a environmental site assessment conducted in September of 1994. Two monitor wells (M-1, M-2) were installed in 1994. An existing well (P-1) was discovered already on-site (no indication of when it was installed). All three wells were sampled during the 1994 release investigation. Diesel range organics was detected in all three wells (0.1ppm, 0.1ppm and 0.6ppm). Lab analyses showed no detectable BTEX or VPH. Groundwater was once again sampled in October 2001. Samples were obtained from M-1, M-2, and P-1. A third well OW-1 (no indication of when it was installed) was found to be dry. M-1 had benzene at 0.00133ppm all other constituents undetected. M-2 was undetected for all constituents. P-1 had xylenes at 0.006ppm, DRO at 2.39ppm and undetect for all other constituents. The conclusions and recommendations section of the monitoring report states: "This report presents the findings of the October 2001 ground water monitoring event contamination is still present in the ground water at this site and exceeds the MCLs in at least one of the monitoring wells. The contamination is in the well capture zone for MOA Well #13 during the maximum draw of 600-gallons per minute. GE2T recommends continued ground water monitoring on a quarterly basis to identify seasonal trends and more accurately characterize ground water quality at the site." Quarterly monitoring will continue for this site.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-60	D	1200 E 76TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-61	D	7427 OLD SEWARD HWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-49	D	7800 LAKE OTIS PARKWAY	Plate 1	<i>ADEC LUST File # L55.165 and Site Name Quality Asphalt Paving.</i> Petroleum hydrocarbon contamination was discovered in soils during the removal of a unleaded gasoline UST in 1989. The contamination was reported to ADEC in 1992. Ten cubic yards of contamination, (TPH testing) was found. Closeout met standards for the period. Site will be closed out with NFA letter after confirmation of proper soil disposal.
Metal finishing	I26	I26-2	D	1153 E 74TH AVE # 1	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Closed tanks, heating oil, nonresidential (underground)	T17	T17-2	D	2900 PROVIDENCE DR	Plate 1	25,000-gallons
Closed tanks, heating oil, nonresidential (underground)	T17	T17-3	D	2900 PROVIDENCE DR	Plate 1	1,000-gallons
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-48	D	2900 PROVIDENCE DR	Plate 1	ADEC LUST File # L73.08 and Site Name ALASKA PSYCHIATRIC INSTITUTE. Soil borings near USTs showed petroleum hydrocarbon contamination in February of 1992. Four regulated and two unregulated USTs were removed from the site. No further action was requested by ADEC and the site was closed in May of 1993.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-65	D	2000 E 68TH AVE	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-31	D	7560 BRIARWOOD ST	Plate 1	ADEC Contaminated Sites File # CS100.153 and Site Name ANCHORAGE AUTO ELECTRIC. Contamination from floor drains and surface spills at auto repair and auto body shops at 7550, 7560, and 7580 Briarwood. Site is Closed.
Tanks, diesel (underground)	T08	T8-44	D	1206 E. 73RD	Plate 1	200-gallons
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-44	D	1206 E. 73RD	Plate 1	ADEC LUST File # L100.45 and Site Name ANCHORAGE CLEAN SWEEP. Soil and groundwater contamination was discovered in July of 1990 associated with six (6) 10,000-gallon used oil, three (3) 8,000-gallon used oil, one (1) 1,000-gallon gasoline, and one (1) 1,000-gallon diesel UST. Three groundwater monitoring wells were installed to determine the extent of contamination. A portion of the contaminated soils were removed from the various tank excavation sites. A bioremediation cell was installed onsite to attempt to remediate contaminated soils that were still in place. Nitrates were injected to within the soil to promote the natural mineralization of the petroleum hydrocarbons through microbial activity. Sampling/results of groundwater and soils in 1998 indicated low levels of diesel range organics, but concentrations were below ADEC Cleanup Levels for both soil and groundwater. The biocell and monitoring wells were decommissioned by May of 1998 and No Further Action was required in June of 1998.



Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-58	D	3580 E Tudor	Plate 1	ADEC LUST File # L68.27 and Site Name ASD Student Transportation . A LUST corrective action plan was approved by ADEC in August of 1998. In October of 1999, ADEC requested an update to the workplan. No additional information is available at this time.
Scrap, salvage, or junk yards	D59	D59-7	D	2530 E 79TH AVE	Plate 1	
Closed tanks, gasoline (underground)	T13	T13-5	D	7780 OLD SEWARD HWY	Plate 1	500-gallons
Closed tanks, gasoline (underground)	T13	T13-6	D	7780 OLD SEWARD HWY	Plate 1	500-gallons
Closed tanks, gasoline (underground)	T13	T13-7	D	7780 OLD SEWARD HWY	Plate 1	1,000-gallons
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-62	D	7015 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-58	D	2715 E TUDOR RD	Plate 1	
Tanks, gasoline (underground)	T12	T12-56	D	2715 E TUDOR RD	Plate 1	19,800-gallons, double-walled and cathodically protected with Auto Line Leak Detection
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-30	D	2715 E TUDOR RD	Plate 1	ADEC Contaminated Sites File # 100.15 and Site Name COURTNEY'S TUDOR SERVICE. Metals and residual range petroleum hydrocarbons. Site status is "No Further Remedial Action Planned".
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-43	D	2715 E TUDOR RD	Plate 1	ADEC LUST File # L55.01 and Site Name COURTNEY'S TUDOR SVC. Soil and groundwater contamination was found that resulted from a 10,000-gallon leaking unleaded gasoline UST in November of 1987. The UST, four additional tanks, and approximately 1,000 tons of contaminated soils were removed from the site. Groundwater monitoring wells were installed and monitoring of contamination continued until a No Further Action letter was issued by ADEC in March of 1998.

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-42	D	6401 LAKE OTIS PKWY	Plate 1	ADEC LUST File # L20.03 and Site Name Tesoro - Petro Products. In July 1987, soil and groundwater contamination was encountered during the removal of three USTs. This LUST site contains two identified contaminant releases. The facility was operated as a retail fueling facility containing both a gas station as well as a home heating oil delivery business. Contamination of the unconfined aquifer at this site, which is encountered at six to ten feet below land surface, resulted in the contamination of Little Campbell Creek adjacent to the property. Contaminated soils were removed from the site and an in-situ vapor extraction system was installed to vent fuel fumes in the subsurface. Groundwater contamination exists at this site and extends off the property, however, the areal extent of the contaminant plume has not yet been fully characterized.
Petroleum product bulk station/terminals	X11	X11-5	D	6401 LAKE OTIS PKWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-45	D	8123 HARTZELL RD	Plate 1	ADEC LUST File # L55.134 and Site Name DENALI FUEL COMPANY - FUZZYS. Contaminated soil and groundwater was discovered during the removal of a 10,000-gallon diesel UST in October of 1991. As of September of 2001, a release investigation has been conditionally approved for the installation of groundwater monitoring wells to determine the extent of petroleum contamination.
Petroleum product bulk station/terminals	X11	X11-4	D	8123 HARTZELL RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-70	D	7079 STELLA PL	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-73	D	2361 CINNABAR LOOP	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-68	D	1300 E 74TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-71	D	7100 HOMER AVE	Plate 1	
Tanks, gasoline (underground)	T12	T12-65	D	3805 E TUDOR RD	Plate 1	
Tanks, diesel (underground)	T08	T8-49	D	3805 E TUDOR RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-72	D	6614 LAKE OTIS PKWY	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-34	D	7140 Lake Otis Parkway	Plate 1	ADEC Contaminated Sites File # CS74.17 and Site Name Former Spruce Park Auto Body. Petroleum contaminated soils and RCRA hazardous soils found on the site during MOA road construction project start. Site is Closed.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-67	D	1200 E 71ST AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-74	D	3429 E TUDOR RD	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-44	D	3429 E TUDOR RD	Plate 1	ADEC LUST File # L55.121 and Site Name Tudor Minut Lube Store #1071 . Petroleum contaminated soils were encountered in association with a regulated UST in August of 1991. A 4,000-gallon tank with 5W-30 new motor oil failed. A corrective action plan (CAP) was submitted to ADEC in 1995. There is no indication whether or not the CAP has been implemented.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-69	D	6051 BURLWOOD ST	Plate 1	CS19.NF
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-35	D	6051 BURLWOOD ST	Plate 1	ADEC Contaminated Sites File # CS19.NF and Site Name K & D AUTO SERVICE. Drum explosion spread waste oil over site. Impact to human health, amount, extent unknown. No further action required at this time. Site is CLOSED.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-53	D	2341 CINNABAR LOOP	Plate 1	ADEC LUST File # L55.250 and Site Name LASERTECH ALASKA. Soil contamination was found in August of 1996 in association with a leaking 290-gallon used oil UST. Petroleum hydrocarbon concentrations werer below ADEC Level A for cleanup. A No Further Action letter was issued in February of 1997.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-51	D	7260 HOMER DR	Plate 1	ADEC LUST File # L55.175 and Site Name MCDONALD INDUSTRIES ALASKA, INC.. During the removal of a 3,000-gallon diesel and a 3,000-gallon gasoline UST, a sheen was found on the water in the excavation in May of 1993. An environmental assessment report dated July 1993 indated the presence of floor drains and dry wells in several of the structures on this propety. It is unknown if these potential sources of contamination were ever addressed. Soil samples taken from the excavation pit indicated petroleum hydrocarbon contamination below ADEC Cleanup Level A. No further action was required for the site in December of 1994.

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Tanks, heating oil, nonresidential (underground)	T16	T16-8	D	3650-D E. TUDOR RD	Plate 1	
Tanks, lubricants or other petroleum products (underground)	T20	T20-5	D	3650-D E. TUDOR RD	Plate 1	6,000-gallons, single-walled with ATG
Wastewater Holding Tank	T22	T22-4	D	3650-D E. TUDOR RD	Plate 1	6,000-gallons
Closed Wastewater Holding Tank	T23	T23-2	D	3650-D E. TUDOR RD	Plate 1	600-gallons
Tanks, diesel (underground)	T08	T8-45	D	3650-D E. TUDOR RD	Plate 1	20,000-gallon, double-walled and cathodically protected
Tanks, diesel (underground)	T08	T8-46	D	3650-D E. TUDOR RD	Plate 1	2,000-gallon, cathodically protected
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-47	D	3650-D E. TUDOR RD	Plate 1	<i>ADEC LUST File # L69.14 and Site Name MOA - NEW TRANSIT MAINTENANCE FACILITY.</i> During UST removals in June of 1992, diesel contamination from the USTs was found in the soil and groundwater. ADEC sent a letter to the Municipality of Anchorage requesting more action on the site in February of 2001. No additional information is available at this time.
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-55	D	3650-C E. TUDOR	Plate 1	<i>ADEC LUST File # L69.50 and Site Name MOA - OLD TRANSIT MAINTENANCE.</i> Contaminated soil was discovered during the closure of a 500-gallon UST in August of 1997. LUST corrective action was initiated in March of 1998. No additional information is available at this time.
Closed Wastewater Holding Tank	T23	T23-1	D	3650-D TUDOR RD	Plate 1	2,000-gallons
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-37	D	3650 E Tudor Road	Plate 1	<i>ADEC Contaminated Sites File # CS69.14 and Site Name MOA Public Works Transit Facility.</i> Hydraulic fluid leaked from a lift in a bus service barn. Estimated that 1400 gallons leaked over 4 years. Site is Inactive.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-33	D	1118 E. 70th Avenue	Plate 1	<i>ADEC Contaminated Sites File # CS100.159 and Site Name MOA Road Construction &amp; Improvement.</i> During construction of road improvements, soils containing petroleum hydrocarbons above cleanup levels were encountered in the E. 70th Avenue right-of-way. The release is of unknown origin. A potential source is heavy oil (possibly waste oil) was used at some time in the past to suppress dust in the surface soils in traffic areas. Seven stockpiles showed DRO levels between 4.2 and 590 ppm. Those with DRO levels were disposed of at the MOA Hiland Rd. Landfill because they were under 1,000 ppm DRO. The remaining clean soil was used as fill. Site is Closed.
Petroleum product bulk station/terminals	X11	X11-6	D	8141 DIMOND HOOK DR	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-46	D	8001 PETERSBURG ST	Plate 1	ADEC LUST File # L55.135 and Site Name PACIFIC DETROIT DIESEL-ALLISON, Frontier Construction (formerly) . Soil and shallow groundwater contamination was encountered during the excavation of a 10,000 gallon waste oil tank in November of 1991. Contaminated soils were excavated and placed in a bioremediation cell onsite. Monitoring wells were installed and showed low levels of benzene in samples taken in October of 1993. In December of 1999, ADEC requested no further action on contaminated soils, but requested further groundwaer monitoring at this site.
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-48	D	1153 E 72ND AVE	Plate 1	ADEC LUST File # L55.46 and Site Name PRIVATE CABLE/PACIFIC RIM TELECO. The September 1992 removal of a 1,500-gallon diesel and a 1,500-gallon unleaded gasoline UST revealed soil contaminated with petroleum hydrocarbons. As of February of 2002, the responsible party has not yet retained a 3rd party consultant to conduct a release investigation for this site.
Injection wells (Class V) Cooling Water Return Flow Wells	D32	D32-1	D	3200 PROVIDENCE DR	Plate 1	
Tanks, diesel (underground)	T08	T8-41	D	3200 PROVIDENCE DR	Plate 1	2000-gallons, double-walled and cathodically protected
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-52	D	3200 PROVIDENCE DR	Plate 1	ADEC LUST File # L55.203 and Site Name PROVIDENCE HOSPITAL . A diesel spill was discovered during the upgrade of a 500 gallon emergency generator in December of 1994. LUST corrective action is underway.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-49	D	3200 PROVIDENCE DR	Plate 1	ADEC LUST File # L55.155 and Site Name PROVIDENCE HOSPITAL. Soil and groundwater contamination was discovered during the removal of a 20,000-gallon diesel and a 7,000-gallon diesel UST in March of 1992. No soil and groundwater samples were found to contain petroleum hydrocarbons above ADEC cleanup levels. Sigte closure was complete in may of 1993.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-64	D	1207 E 76TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-63	D	1153 E 74TH AVE # 4	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-66	D	1326 E 74TH AVE	Plate 1	

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-32	D	7100 Lake Otis Pkwy.	Plate 1	<i>ADEC Contaminated Sites File # CS100.163 and Site Name Spruce Park Trailer Park.</i> Contamination from removal of 2 unregulated USTs 7/22-23/94. One was a 6,000 gallon heating oil tank and the second was a 500 gallon waste oil tank. DRO was found in soils up to 16,000 ppm and floating product was found on the groundwater. The two tanks were removed in October 1996. In July 2001, free products was reported floating on the water table measuring between 0.3 and 2.45 feet. Site is Open.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-36	D	7780 Old Seward Highway	Plate 1	<i>ADEC Contaminated Sites File # CS01.NF and Site Name Stephen Residence.</i> Oil contamination present in soil from pipe behind old boathouse. Site is Closed.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-59	D	6714 LAKE OTIS PKWY	Plate 1	
Tanks, gasoline (underground)	T12	T12-58	D	2844 E TUDOR RD	Plate 1	10,000-gallons, single-walled, cathodically protected, Tank Tightness Testing and Inventory Control
Tanks, gasoline (underground)	T12	T12-59	D	2844 E TUDOR RD	Plate 1	10,000-gallons, single-walled, cathodically protected, Tank Tightness Testing and Inventory Control
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-57	D	2844 E TUDOR RD	Plate 1	<i>ADEC LUST File # L20.56 and Site Name TESERO Northstore # 56.</i> Observed groundwater impacts at time of UST removal in August of 1999. Approximately 45 cubic yards of a total of 90 cubic yards of contaminated soils were removed. Groundwater monitoring continues.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-47	D	2321 CINNIBAR LOOP	Plate 1	<i>ADEC LUST File # L55.105 and Site Name THE EXCAVATION COMPANY.</i> A March 1991 removal of three (3) underground storage tanks (5,000-gallon diesel, 300-gallon used oil, 4,000-gallon gasoline) revealed soil and groundwater contamination. Approximately 230 cubic yards of soil was excavated from the site and transported offsite for thermal treatment. All groundwater samples were below MCLs for total petroleum hydrocarbons. Site closure was complete in June of 1993.

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-46	D	7725 OLD SEWARD HWY	Plate 1	ADEC LUST File # L55.97 and Site Name Grand Auto #222. Soil and groundwater contamination was discovered during the removal of a 500-gallon used oil UST in October of 1990. Approximately 38 tons of contaminated soils were removed during the excavation and transported to the Anchorage Regional Landfill for disposal. An additional 20 cubic yards of contaminated soil that was above the landfill disposal limit (TPH > 1000 ppm) was transported for thermal treatment prior to disposal at the landfill. Three (3) groundwater monitoring wells were installed to determine the direction of groundwater flow and the extent and magnitude of contamination at this site. Total petroleum hydrocarbons (TPH) concentrations in groundwater samples were found to be well below ADEC groundwater cleanup standards. No further action was issued for this site in January of 1996.
Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-56	D	8220 PETERSBURG STREET	Plate 1	ADEC LUST File # L55.198 and Site Name TOVSEN PROPERTY. A waste oil spill was discovered during the closure of a 550-gallon UST in September of 1994. The tank and contaminated soils were excavated and transported offsite for disposal. No further action was requested by ADEC in November of 1994.
Tanks, gasoline (underground)	T12	T12-57	D	3211 Providence Dr	Plate 1	3,000-gallons, double-walled and cathodically protected, Inventory Control
Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-57	D	3211 PROVIDENCE DR	Plate 1	LUST# L73.09
Tanks, diesel (underground)	T08	T8-40	D	3211 Providence Drive	Plate 1	2,000-gallon, double-walled and cathodically protected
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-55	D	3211 PROVIDENCE DR	Plate 1	ADEC LUST File # L73.21 and Site Name UAA Energy Module I Bldg. Diesel contamination was found during the removal of a 500-gallon UST used for an emergency generator in October of 1994. Site cleanup has been completed and a No Further Action letter was issued in March of 1999.
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-43	D	3211 PROVIDENCE DR	Plate 1	ADEC LUST File # L73.15 and Site Name UAA - Arts Building. Soil and groundwater contamination was discovered during the removal of a 500-gallon diesel UST in July of 1997. Groundwater monitoring results in 2000 continue to show elevated diesel range organics. Groundwater monitoring continues.

Table 1

**Contaminant Source Inventory for  
MOA Well #12**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-53	D	3211 PROVIDENCE DR	Plate 1	ADEC LUST File # L73.05 and Site Name UAA - Providence. Soil contamination was discovered during the removal of a used oil UST in June of 1991. Corrective action is underway and groundwater monitoring continues.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-50	D	3211 PROVIDENCE DR	Plate 1	ADEC LUST File # L73.13 and Site Name UAA Energy Module II Bldg. Gasoline and diesel contamination was found during the removal of a 500-gallon UST used for an emergency generator in May of 1995. Several tons of fuel contaminated soil was removed from the excavation and transported offsite for thermal treatment. Site cleanup has been completed and a No Further Action letter was issued in March of 2001.
Tanks, lubricants or other petroleum products (underground)	T20	T20-4	D	8221 PETERSBURG ST	Plate 1	5,000-gallons, single-walled with Tank Tightness Testing and ATG. Tank is temporarily out of use.
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-56	D	8221 PETERSBURG ST	Plate 1	ADEC LUST File # L55.269 and Site Name USPS - VMF (west tanks) ADEC requested a release investigation for groundwater in March of 1998. No additional information is available at this time.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-54	D	8221 PETERSBURG ST	Plate 1	ADEC LUST File # L55.247 and Site Name US POSTAL SERVICE VEHICLE MAINT. Low levels of petroleum hydrocarbon contamination was found in association with the removal of two motor oil and one used oil tanks. The tanks were removed and soils below cleanup ADEC cleanup Level A were put back into the excavation. Site cleanup was completed in December of 1996.
Tanks, gasoline (underground)	T12	T12-50	D	6828 LAKE OTIS PKWY	Plate 1	10,000-gallons, single-walled, Tank Tightness Testing, ATG, and Auto Line Leak Detection
Tanks, gasoline (underground)	T12	T12-51	D	6828 LAKE OTIS PKWY	Plate 1	10,000-gallons, double-walled, Tank Tightness Testing, Inventory Control, Line Tightness Testing, Auto Line Leak Detection, and Interstit. Double-Wall Monitoring
Tanks, gasoline (underground)	T12	T12-52	D	6828 LAKE OTIS PKWY	Plate 1	15,000-gallons, double-walled, ATG and Auto Line Leak Detection
Tanks, gasoline (underground)	T12	T12-53	D	2900 E TUDOR RD	Plate 1	15,000-gallons, double-walled, ATG, Line Tightness testing, and Auto Line Leak Detection
Tanks, gasoline (underground)	T12	T12-54	D	2900 E TUDOR RD	Plate 1	10,000-gallons, double-walled, ATG, Line Tightness Testing, and Auto Line Leak Detection
Tanks, diesel (underground)	T08	T8-52	D	2900 E TUDOR RD	Plate 1	10,000-gallon, double-walled



**Table 1**

**Contaminant Source Inventory for  
MOA Well #12**

**PWSID 210906.003**

<b>Contaminant Source Category</b>	<b>Contaminant Source ID</b>	<b>CS ID tag</b>	<b>Zone</b>	<b>Location</b>	<b>Map</b>	<b>Comments</b>
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-45	D	2900 E TUDOR RD	Plate 1	<i>ADEC LUST File # L55.95 and Site Name WILLIAMS EXPRESS #5020.</i> Soil and groundwater contamination was detected beneath a former diesel fueling facility in August of 1990. Contaminated soils were excavated and transported off-site for disposal. Some of the less contaminated soils were spread onsite. Goundwater monitoring wells were installed to determine to the extent of contamination on the unconfined aquifer and monitor concentrations. Site cleanup has been completed and No Further Action was granted in April of 2000.

Table 2

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Bacteria and Viruses**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-1 - D1-115	A	Medium	1	All sewerlines in Zone A Protection Area	5	
Residential area	R01	R1-1	A	Low	2	Zone A Protection Area	3	266 acres
Residential septic systems (serves one single-family home)	R02	R2-1 - R2-6	A	Low	3	All septic systems in Zone A Protection Area	5	
Highways and roads, paved (cement or asphalt)	X20	X20-1 - X20-80	A	Low	4	All roads in Zone A Protection Area	4	
Municipal or city parks (with green areas)	X04	X4-1	A	Low	5	Midtown Park	3	
Municipal or city parks (with green areas)	X04	X4-2	A	Low	6	Springer Park	3	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-2	B	Medium	7	4000 OLD SEWARD	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-1	A	Low	8	4040 B ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-15	A	Low	9	4141 B ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-13	A	Low	10	4060 B ST # 110	Plate 1	
Orchards or nurseries	A10	A10-1	A	Low		601 W 41ST AVE # D	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-41	A	Low		4000 CREDIT UNION DR # 600	Plate 1	
Gasoline stations (without repair shop)	C15	C15-7	A	Low		3230 C ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-17	A	Low		3400 SPENARD RD # 4	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-18	A	Low		510 W TUDOR RD # 111	Plate 1	
Construction trade areas and materials	C09	C9-1	A	Low		200 W 34TH AVE # 374	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-19	A	Low		3201 C ST # 602	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-20	A	Low		3330 C ST # 100	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-21	A	Low		511 W 41ST AVE # 102	Plate 1	
Beverage industry	I07	I7-1	A	Low		4141 B ST	Plate 1	
Car washes with engine or undercarriage cleaning	C08	C8-1	A	Low		3800 MINNESOTA DR	Plate 1	
Seafood processing	N10	N10-1	A	Low		2914 ARCTIC BLVD	Plate 1	

Table 2

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Bacteria and Viruses**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Construction trade areas and materials	C09	C9-2	A	Low		511 W 41ST AVE	Plate 1	
Gasoline stations (with repair shop)	C16	C16-2	A	Low		3607 SPENARD RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-6	A	Low		3607 SPENARD RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-23	A	Low		343 W BENSON BLVD # 3	Plate 1	
Race tracks (automotive)	C38	C38-1	A	Low		3600 EUREKA ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-2	A	Low		101 E NORTHERN LIGHTS BLVD	Plate 1	
Laundromats without dry cleaning	C22	C22-1	A	Low		701 W 36TH AVE	Plate 1	
Gasoline stations (without repair shop)	C15	C15-3	A	Low		3603 ARCTIC BLVD	Plate 1	
Gasoline stations (with repair shop)	C16	C16-1	A	Low		810 W TUDOR RD	Plate 1	
Pet groomers	C34	C34-1	A	Low		409 W NORTHERN LIGHTS BLVD # 1	Plate 1	
Scrap, salvage, or junk yards	D59	D59-1	A	Low		1310 W. 56th Avenue	Plate 1	
Construction trade areas and materials	C09	C9-3	A	Low		3120 DENALI ST	Plate 1	
Pharmacies	C35	C35-1	A	Low		173 E NORTHERN LIGHTS BLVD	Plate 1	
Seafood processing	N10	N10-2	A	Low		555 W NORTHERN LIGHTS BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-24	A	Low		4500 BUSINESS PARK BLVD # C10	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-25	A	Low		4500 BUSINESS PARK BLVD # 10	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-26	A	Low		700 W NORTHERN LIGHTS BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-27	A	Low		405 W 36TH AVE # 100	Plate 1	
Construction trade areas and materials	C09	C9-4	A	Low		1206 CHUGACH WAY	Plate 1	
Construction trade areas and materials	C09	C9-5	A	Low		1503 W 45TH AVE	Plate 1	
Beverage industry	107	17-2	A	Low		598 W NORTHERN LIGHTS BLVD	Plate 1	
Construction trade areas and materials	C09	C9-6	A	Low		3605 ARCTIC BLVD # 729	Plate 1	
Fish hatcheries	X46	X40-45	A	Low		4606 GARFIELD ST	Plate 1	
Construction trade areas and materials	C09	C9-7	A	Low		3333 DENALI ST	Plate 1	
Construction trade areas and materials	C09	C9-8	A	Low		1207 W 47TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-9	A	Low		3300 ARCTIC BLVD # 205	Plate 1	

Table 2

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Bacteria and Viruses**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Laboratories (chemical, soils, and research)	C20	C20-2	A	Low		3400 SPENARD RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-4	A	Low		411 W TUDOR RD	Plate 1	
Construction trade areas and materials	C09	C9-10	A	Low		4101 ARTIC BLVD # 102	Plate 1	
Construction trade areas and materials	C09	C9-11	A	Low		3705 ARCTIC BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-28	A	Low		3510 SPENARD RD	Plate 1	
Construction trade areas and materials	C09	C9-12	A	Low		4041 B ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-29	A	Low		702 W 32ND AVE # 202	Plate 1	
Construction trade areas and materials	C09	C9-13	A	Low		301 W NORTHERN LIGHTS # 300	Plate 1	
Construction trade areas and materials	C09	C9-14	A	Low		4041 B ST # 202	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-5	A	Low		301 E NORTHERN LIGHTS BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-30	A	Low		2909 ARCTIC BLVD # 101	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-3	A	Low		701 SESAME ST # 200	Plate 1	
Taxidermists	C41	C41-1	A	Low		704 W 45TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-15	A	Low		3333 DENALI ST	Plate 1	
Construction trade areas and materials	C09	C9-16	A	Low		1204 CHUGACH WAY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-31	A	Low		541 W 36TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-17	A	Low		3705 ARCTIC BLVD # 1189	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-32	A	Low		401 E 36TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-33	A	Low		3501 DENALI ST # 302	Plate 1	
Gasoline stations (without repair shop)	C15	C15-1	A	Low		150 W TUDOR RD	Plate 1	
Gasoline stations (without repair shop)	C15	C15-4	A	Low		3201 C ST # 700	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-22	A	Low		2805 DAWSON ST # 100	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-34	A	Low		601 W 41ST AVE # 102	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-35	A	Low		4101 ARCTIC BLVD	Plate 1	

Table 2

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Bacteria and Viruses**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Construction trade areas and materials	C09	C9-18	A	Low		3702 SPENARD RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-36	A	Low		240 E TUDOR RD # 100	Plate 1	
Construction trade areas and materials	C09	C9-19	A	Low		712 W 36TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-37	A	Low		3330 EAGLE ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-38	A	Low		207 E NORTHERN LIGHTS BL # 201	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-39	A	Low		4101 ARCTIC BLVD	Plate 1	
Construction trade areas and materials	C09	C9-20	A	Low		240 E TUDOR RD # 200	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-4	A	Low		240 E TUDOR RD # 200	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-40	A	Low		3601 C ST # 260	Plate 1	
Construction trade areas and materials	C09	C9-21	A	Low		3510 SPENARD RD # 105	Plate 1	
Dry cleaners	C10	C10-1	A	Low		2700 A ST	Plate 1	
Injection wells (Class V) Industrial Process Water & Water Disposal Wells	D40	D40-1	A	Medium		2700 A ST	Plate 1	
Meat processing	N05	N5-1	A	Low		3701 EUREKA ST # 10B	Plate 1	
Construction trade areas and materials	C09	C9-22	A	Low		1401 W 34TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-23	A	Low		1399 W 34TH AVE # 205	Plate 1	
Construction trade areas and materials	C09	C9-24	A	Low		1206 W 47TH AVE # A	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-1	A	Low		1106 WILSHIRE AVE	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-5	A	Low		207 E NORTHERN LIGHTS # 103-A	Plate 1	
Construction trade areas and materials	C09	C9-25	A	Low		3700 SPRINGER ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-42	A	Low		3803 MCCAIN LOOP	Plate 1	
Dry cleaners	C10	C10-2	A	Low		2811 DAWSON ST	Plate 1	
Gasoline stations (without repair shop)	C15	C15-2	A	Low		101 E NORTHERN LIGHTS BLVD	Plate 1	
Seafood processing	N10	N10-3	A	Low		2909 ARCTIC BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-43	A	Low		701 SESAME ST # 101	Plate 1	
Pharmacies	C35	C35-2	A	Low		3101 A ST	Plate 1	
Construction trade areas and materials	C09	C9-26	A	Low		3909 ARCTIC BLVD	Plate 1	

Table 2

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Bacteria and Viruses**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Meat processing	N05	N5-2	A	Low		405 W BENSON BLVD	Plate 1	
Construction trade areas and materials	C09	C9-27	A	Low		4101 ARCTIC BLVD # 203	Plate 1	
Construction trade areas and materials	C09	C9-28	A	Low		511 W 41ST AVE	Plate 1	
Gasoline stations (without repair shop)	C15	C15-6	A	Low		3500 C ST	Plate 1	
Gasoline stations (without repair shop)	C15	C15-5	A	Low		3201 C ST	Plate 1	
Gasoline stations (without repair shop)	C15	C15-8	A	Low		3727 SPENARD RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-44	A	Low		341 W TUDOR RD # 106	Plate 1	
Gasoline stations (with repair shop)	C16	C16-3	A	Low		3304 SPENARD RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-1	A	Low		3300 C ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-2	A	Low		3601 C ST # 574	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-3	A	Low		3201 C ST # 107	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-4	A	Low		3401 DENALI ST # 203	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-5	A	Low		405 W 36TH AVE # 101	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-6	A	Low		3340 ARCTIC BLVD # 104	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-7	A	Low		3401 DENALI ST # 102	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-8	A	Low		240 E TUDOR RD # 100	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-9	A	Low		3401 DENALI ST # 201	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-10	A	Low		741 SESAME ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-11	A	Low		3401 DENALI ST # 102	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-12	A	Low		3201 C ST # 107	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-14	A	Low		3900 ARCTIC BLVD # 103	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-16	A	Low		4300 B ST # 202	Plate 1	
Municipal or city parks (with green areas)	X04	X4-3	A	Low		Pop Carr park	3	

Table 2

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Bacteria and Viruses**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Municipal or city parks (with green areas)	X04	X4-4	A	Low		48th St	3	
Municipal or city parks (with green areas)	X04	X4-5	A	Low		Arctic/Benson Park	3	
Municipal or city parks (with green areas)	X04	X4-6	A	Low		Wilson Street Park	3	
Gasoline stations (without repair shop)	C15	C15-12	B	Low		5121 ARCTIC BLVD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-8	B	Low		501 W INTL AIRPORT RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-12	B	Low		737 E INTL AIRPORT RD	Plate 1	
Construction trade areas and materials	C09	C9-37	B	Low		261 E 56TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-38	B	Low		520 W 58TH AVE # J	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-25	B	Low		3200 SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-39	B	Low		720 W 58TH AVE # D	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-50	B	Low		4637 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-32	B	Low		4953 EAGLE ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-80	B	Low		540 W INTERNATIONAL AIRPORT RD	Plate 1	
Construction trade areas and materials	C09	C9-40	B	Low		5610 SILVERADO WAY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-68	B	Low		3546 LATOUCHE ST	Plate 1	
Construction trade areas and materials	C09	C9-41	B	Low		649 W 54TH AVE	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-7	B	Low		700 W 58TH AVE # J	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-81	B	Low		549 W INTL AIRPORT RD # B2	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-14	B	Low		600 E 48TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-23	B	Low		107 E 54TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-51	B	Low		3315 FAIRBANKS ST	Plate 1	
Vocational training facilities	X45	X45-1	B	Low		701 E TUDOR RD	Plate 1	
Seafood processing	N10	N10-5	B	Low		1020 W INTL AIRPORT RD	Plate 1	
Construction trade areas and materials	C09	C9-33	B	Low		5100 CORDOVA ST # 100	Plate 1	

Table 2

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Bacteria and Viruses**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-82	B	Low		549 W INTL AIRPORT RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-13	B	Low		220 E INTL AIRPORT RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-52	B	Low		4000 OLD SEWARD HWY # 100	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-34	B	Low		224 E 54TH AVE	Plate 1	
Pet groomers	C34	C34-2	B	Low		3801 OLD SEWARD HWY # 9	Plate 1	
Construction trade areas and materials	C09	C9-42	B	Low		5401 CORDOVA ST # 203	Plate 1	
Gasoline stations (with repair shop)	C16	C16-6	B	Low		1231 Redwood Court	Plate 1	
Quarries (sand, gravel, rock, other?)	E10	E10-1	B	Low		314 E INTERNATIONAL AIRPORT RD	Plate 1	
Taxidermists	C41	C41-2	B	Low		520 W 58TH AVE # D	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-69	B	Low		3730 RHONE CIR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-62	B	Low		1515 E TUDOR RD # 3	Plate 1	
Construction trade areas and materials	C09	C9-43	B	Low		401 W INTL AIRPORT RD # 12	Plate 1	
Meat processing	N05	N5-3	B	Low		324 E INTL AIRPORT RD	Plate 1	
Construction trade areas and materials	C09	C9-44	B	Low		852 W INTERNATIONAL RD # 101	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-70	B	Low		3315 VASSAR DR	Plate 1	
Pharmacies	C35	C35-3	B	Low		600 E NORTHERN LIGHTS BLVD	Plate 1	
Gasoline stations (with repair shop)	C16	C16-4	B	Low		2927 SEWARD HWY	Plate 1	
Gasoline stations (without repair shop)	C15	C15-17	B	Low		2811 New Seward Highway	Plate 1	
Gasoline stations (with repair shop)	C16	C16-7	B	Low		815 W INTL AIRPORT RD	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-6	B	Low		4710 BUSINESS PARK BLVD # 24	Plate 1	
Construction trade areas and materials	C09	C9-29	B	Low		4950 FAIRBANKS ST	Plate 1	
Recycling and waste reduction facilities	D57	D57-1	B	Low		750 E INTL AIRPORT RD	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-8	B	Low		200 W POTTER DR	Plate 1	



Table 2

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Bacteria and Viruses**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-53	B	Low		550 E TUDOR RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-19	B	Low		4940 OLD SEWARD HWY	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-9	B	Low		600 W 58TH AVE # D	Plate 1	
Construction trade areas and materials	C09	C9-34	B	Low		212 E 51ST AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-71	B	Low		3707 RHONE CIR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-54	B	Low		2706 FAIRBANKS ST # 4	Plate 1	
Construction trade areas and materials	C09	C9-45	B	Low		5330 CORDOVA ST	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-10	B	Low		520 W 58TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-30	B	Low		600 W 58TH AVE # A	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-55	B	Low		5121 ARCTIC BLVD # E	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-73	B	Low		3730 RHONE CIR # 102	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-33	B	Low		202 E INTL AIRPORT RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-74	B	Low		3238 LATOUCHE ST # H10	Plate 1	
Seafood processing	N10	N10-4	B	Low		5011 ARCTIC BLVD # I	Plate 1	
Pharmacies	C35	C35-4	B	Low		1000 E NORTHERN LIGHTS BLVD	Plate 1	
Gasoline stations (with repair shop)	C16	C16-8	B	Low		724 W INTL AIRPORT RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-10	B	Low		4831 FAIRBANKS ST	Plate 1	
Construction trade areas and materials	C09	C9-46	B	Low		119 E 54TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-75	B	Low		3708 RHONE CIR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-76	B	Low		3730 RHONE CIR # 203	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-83	B	Low		501 W INTL AIRPORT RD # 1A	Plate 1	
Pharmacies	C35	C35-5	B	Low		3730 RHONE CIR # 105	Plate 1	

Table 2

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Bacteria and Viruses**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-77	B	Low		3606 RHONE CIR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-78	B	Low		3730 RHONE CIR # 100	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-84	B	Low		601 W 58TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-47	B	Low		401 W INTL AIRPORT RD # 31	Plate 1	
Construction trade areas and materials	C09	C9-35	B	Low		1011 E TUDOR RD # 100	Plate 1	
Construction trade areas and materials	C09	C9-48	B	Low		550 W 54TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-49	B	Low		5326 A ST	Plate 1	
Gasoline stations (with repair shop)	C16	C16-9	B	Low		5210 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-50	B	Low		436 W POTTER DR	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-32	B	Low		436 W POTTER DR	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-11	B	Low		5630 SILVERADO WAY # A2	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-85	B	Low		500 W INTL AIRPORT RD # C	Plate 1	
Taxidermists	C41	C41-3	B	Low		822 W INTL AIRPORT RD	Plate 1	
Orchards or nurseries	A10	A10-1	B	Low		5333 A ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-31	B	Low		A ST & INTL AIRPORT RD	Plate 1	
Car washes with engine or undercarriage cleaning	C08	C8-2	B	Low		4551 FAIRBANKS ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-20	B	Low		4748 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-15	B	Low		400 W 53RD AVE	Plate 1	
Recycling and waste reduction facilities	D57	D57-2	B	Low		111 E 56TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-28	B	Low		512 W INTL AIRPORT RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-86	B	Low		1205 E INTERNATIONAL RD # 103	Plate 1	
Gasoline stations (without repair shop)	C15	C15-9	B	Low		5159 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-27	B	Low		110 E 54TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-51	B	Low		720 W 58TH AVE # E	Plate 1	

Table 2

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Bacteria and Viruses**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-49	B	Low		625 E 34TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-72	B	Low		3500 LATOUCHE ST # 200	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-16	B	Low		3200 SEWARD HWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-87	B	Low		5313 ARCTIC BLVD # 101	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-56	B	Low		3315 FAIRBANKS ST	Plate 1	
Construction trade areas and materials	C09	C9-52	B	Low		300 E 54TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-53	B	Low		5610 SILVERADO WAY # 6	Plate 1	
Seafood processing	N10	N10-6	B	Low		1304 LAONA CIR	Plate 1	
Construction trade areas and materials	C09	C9-36	B	Low		4970 FAIRBANKS ST	Plate 1	
Dry cleaners	C10	C10-3	B	Low		601 E NORTHERN LIGHTS BLVD # J	Plate 1	
Injection wells (Class V) Industrial Process Water & Water Disposal Wells	D40	D40-2	B	Medium		601 E NORTHERN LIGHTS BLVD # J	Plate 1	
Seafood processing	N10	N10-7	B	Low		163 E 54TH AVE	Plate 1	
Gasoline stations (with repair shop)	C16	C16-5	B	Low		854 E 36TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-18	B	Low		4908 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-1	B	Medium		665 W POTTER DR	Plate 1	
Car washes with engine or undercarriage cleaning	C08	C8-3	B	Low		4551 FAIRBANKS ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-57	B	Low		3315 FAIRBANKS ST	Plate 1	
Construction trade areas and materials	C09	C9-54	B	Low		610 W 54TH AVE	Plate 1	
Quarries (sand, gravel, rock, other?)	E10	E10-2	B	Low		300 E 54TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-26	B	Low		4820 FAIRBANKS ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-22	B	Low		210 E INTL AIRPORT RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-58	B	Low		4900 EAGLE ST	Plate 1	

Table 2

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Bacteria and Viruses**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-59	B	Low		701 E TUDOR RD # 100	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-17	B	Low		4627 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-55	B	Low		130 W INTL AIRPORT RD # K	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-24	B	Low		540 W POTTER	Plate 1	
Scrap, salvage, or junk yards	D59	D59-2	B	Low		1100 W INTL AIRPORT RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-21	B	Low		720 W 58TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-79	B	Low		3708 RHONE CIR	Plate 1	
Dry cleaners	C10	C10-4	B	Low		601 W 58TH AVE # M	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-12	B	Low		5761 SILVERADO WAY # N	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-7	B	Low		650 W 58TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-56	B	Low		540 W POTTER DR	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-11	B	Low		1218 W INTL AIRPORT RD	Plate 1	
Seafood processing	N10	N10-8	B	Low		718 W 53RD AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-60	B	Low		500 E TUDOR RD	Plate 1	
Construction trade areas and materials	C09	C9-57	B	Low		220 CENTER CT	Plate 1	
Meat processing	N05	N5-4	B	Low		5650 B ST	Plate 1	
Construction trade areas and materials	C09	C9-30	B	Low		750 E. INTERNATIONAL AIRPORT RD	Plate 1	
Construction trade areas and materials	C09	C9-58	B	Low		5300 A ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-9	B	Low		5713 ARCTIC BLVD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-29	B	Low		5713 ARCTIC BLVD	Plate 1	
Gasoline stations (without repair shop)	C15	C15-10	B	Low		717 E NORTHERN LIGHTS BLVD	Plate 1	
Gasoline stations (without repair shop)	C15	C15-11	B	Low		801 E TUDOR RD	Plate 1	
Construction trade areas and materials	C09	C9-59	B	Low		549 W INTL AIRPORT RD	Plate 1	
Construction trade areas and materials	C09	C9-31	B	Low		511 W 54TH ST	Plate 1	

Table 2

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Bacteria and Viruses**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Construction trade areas and materials	C09	C9-60	B	Low		130 W INTERNATIONAL AIRPORT RD	Plate 1	
Seafood processing	N10	N10-9	B	Low		100 E 54TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-61	B	Low		2702 GAMBELL ST # 206	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-45	B	Low		5001 ARCTIC BLVD # 202	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-46	B	Low		3315 FAIRBANKS ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-47	B	Low		4450 CORDOVA ST # 210	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-48	B	Low		4450 CORDOVA ST # 130	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-63	B	Low		3708 RHONE CIR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-64	B	Low		3606 RHONE CIR # 2	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-65	B	Low		3730 RHONE CIR # 103	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-66	B	Low		3606 RHONE CIR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-67	B	Low		3730 RHONE CIR # 202	Plate 1	
Residential area	R01	R1-2	B	Low		Zone B Protection Area	3	217 acres
Municipal or city parks (with green areas)	X04	X4-7	B	Low		Foxtree park	3	
Highways and roads, paved (cement or asphalt)	X20	X20-81 - X20-161	B	Low		All roads in Zone B Protection Area	4	
Residential septic systems (serves one single-family home)	R02	R2-7 - R2-24	B	Low		All septic systems in Zone B Protection Area	5	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-116 - D1-237	B	Medium		All sewerlines in Zone B Protection Area	5	
Residential septic systems (serves one single-family home)	R02	R2-25 - R2-41	B	Low		All septic systems in Zone C Protection Area	5	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-238 - D1-401	B	Medium		All sewerlines in Zone C Protection Area	5	

Table 3

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Nitrates and Nitrites**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-1 - D1-115	A	Medium	1	All sewerlines in Zone A Protection Area	5	
Residential area	R01	R1-1	A	Low	2	Zone A Protection Area	3	266 acres
Residential septic systems (serves one single-family home)	R02	R2-1 - R2-6	A	Low	3	All septic systems in Zone A Protection Area	5	
Municipal or city parks (with green areas)	X04	X4-1	A	Low	4	Midtown Park	3	
Municipal or city parks (with green areas)	X04	X4-2	A	Low	5	Springer Park	3	
Highways and roads, paved (cement or asphalt)	X20	X20-1 - X20-80	A	Low	6	All roads in Zone A Protection Area	4	
Orchards or nurseries	A10	A10-1	A	Medium	7	601 W 41ST AVE # D	Plate 1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-2	B	Medium	8	4000 OLD SEWARD	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-1	A	Low	9	4040 B ST	Plate 1	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-116 - D1-237	B	Medium	10	All sewerlines in Zone B Protection Area	5	
Landscaping around commercial, industrial, or government buildings	X03	X3-1	A	Low		Eureka and 36th Avenue	3	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-17	A	Low		3400 SPENARD RD # 4	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-18	A	Low		510 W TUDOR RD # 111	Plate 1	
Construction trade areas and materials	C09	C9-1	A	Low		200 W 34TH AVE # 374	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-19	A	Low		3201 C ST # 602	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-20	A	Low		3330 C ST # 100	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-21	A	Low		511 W 41ST AVE # 102	Plate 1	
Car washes with engine or undercarriage cleaning	C08	C8-1	A	Low		3800 MINNESOTA DR	Plate 1	
Seafood processing	N10	N10-1	A	Low		2914 ARCTIC BLVD	Plate 1	
Lawn and garden supplies/services	C23	C23-1	A	Medium		3105 CHEECHAKO ST	Plate 1	
Construction trade areas and materials	C09	C9-2	A	Low		511 W 41ST AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-6	A	Low		3607 SPENARD RD	Plate 1	

Table 3

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Nitrates and Nitrites**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-23	A	Low		343 W BENSON BLVD # 3	Plate 1	
Race tracks (automotive)	C38	C38-1	A	Low		3600 EUREKA ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-2	A	Low		101 E NORTHERN LIGHTS BLVD	Plate 1	
Laundromats without dry cleaning	C22	C22-1	A	Low		701 W 36TH AVE	Plate 1	
Agricultural chemical sales/storage	C02	C2-1	A	Medium		701 W 41ST AVE # 103	Plate 1	
Florists	C12	C12-1	A	Low		3600 SPENARD RD	Plate 1	
Pet groomers	C34	C34-1	A	Low		409 W NORTHERN LIGHTS BLVD # 1	Plate 1	
Scrap, salvage, or junk yards	D59	D59-1	A	Low		1310 W. 56th Avenue	Plate 1	
Construction trade areas and materials	C09	C9-3	A	Low		3120 DENALI ST	Plate 1	
Pharmacies	C35	C35-1	A	Low		173 E NORTHERN LIGHTS BLVD	Plate 1	
Bowling centers	C06	C6-1	A			3717 MINNESOTA DR	Plate 1	
Seafood processing	N10	N10-2	A	Low		555 W NORTHERN LIGHTS BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-24	A	Low		4500 BUSINESS PARK BLVD # C10	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-25	A	Low		4500 BUSINESS PARK BLVD # 10	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-26	A	Low		700 W NORTHERN LIGHTS BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-27	A	Low		405 W 36TH AVE # 100	Plate 1	
Construction trade areas and materials	C09	C9-4	A	Low		1206 CHUGACH WAY	Plate 1	
Construction trade areas and materials	C09	C9-5	A	Low		1503 W 45TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-6	A	Low		3605 ARCTIC BLVD # 729	Plate 1	
Fish hatcheries	X46	X40-45	A	Low		4606 GARFIELD ST	Plate 1	
Construction trade areas and materials	C09	C9-7	A	Low		3333 DENALI ST	Plate 1	
Construction trade areas and materials	C09	C9-8	A	Low		1207 W 47TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-9	A	Low		3300 ARCTIC BLVD # 205	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-2	A	Low		3400 SPENARD RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-4	A	Low		411 W TUDOR RD	Plate 1	
Florists	C12	C12-2	A	Low		343 W BENSON BLVD # 7	Plate 1	
Construction trade areas and materials	C09	C9-10	A	Low		4101 ARTIC BLVD # 102	Plate 1	
Construction trade areas and materials	C09	C9-11	A	Low		3705 ARCTIC BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-28	A	Low		3510 SPENARD RD	Plate 1	

Table 3

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Nitrates and Nitrites**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Construction trade areas and materials	C09	C9-12	A	Low		4041 B ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-29	A	Low		702 W 32ND AVE # 202	Plate 1	
Construction trade areas and materials	C09	C9-13	A	Low		301 W NORTHERN LIGHTS # 300	Plate 1	
Construction trade areas and materials	C09	C9-14	A	Low		4041 B ST # 202	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-5	A	Low		301 E NORTHERN LIGHTS BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-30	A	Low		2909 ARCTIC BLVD # 101	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-3	A	Low		701 SESAME ST # 200	Plate 1	
Taxidermists	C41	C41-1	A	Low		704 W 45TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-15	A	Low		3333 DENALI ST	Plate 1	
Construction trade areas and materials	C09	C9-16	A	Low		1204 CHUGACH WAY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-31	A	Low		541 W 36TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-17	A	Low		3705 ARCTIC BLVD # 1189	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-32	A	Low		401 E 36TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-33	A	Low		3501 DENALI ST # 302	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-22	A	Low		2805 DAWSON ST # 100	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-34	A	Low		601 W 41ST AVE # 102	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-35	A	Low		4101 ARCTIC BLVD	Plate 1	
Construction trade areas and materials	C09	C9-18	A	Low		3702 SPENARD RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-36	A	Low		240 E TUDOR RD # 100	Plate 1	
Construction trade areas and materials	C09	C9-19	A	Low		712 W 36TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-37	A	Low		3330 EAGLE ST	Plate 1	
Leather processing	C24	C24-1	A	Low		3605 ARCTIC BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-38	A	Low		207 E NORTHERN LIGHTS BL # 201	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-39	A	Low		4101 ARCTIC BLVD	Plate 1	
Construction trade areas and materials	C09	C9-20	A	Low		240 E TUDOR RD # 200	Plate 1	



Table 3

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Nitrates and Nitrites**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Laboratories (chemical, soils, and research)	C20	C20-4	A	Low		240 E TUDOR RD # 200	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-40	A	Low		3601 C ST # 260	Plate 1	
Construction trade areas and materials	C09	C9-21	A	Low		3510 SPENARD RD # 105	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-41	A	Low		4000 CREDIT UNION DR # 600	Plate 1	
Dry cleaners	C10	C10-1	A	Low		2700 A ST	Plate 1	
Injection wells (Class V) Industrial Process Water & Water Disposal Wells	D40	D40-1	A			2700 A ST	Plate 1	
Meat processing	N05	N5-1	A	Low		3701 EUREKA ST # 10B	Plate 1	
Lawn and garden supplies/services	C23	C23-2	A	Medium		3807 COPE ST	Plate 1	
Construction trade areas and materials	C09	C9-22	A	Low		1401 W 34TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-23	A	Low		1399 W 34TH AVE # 205	Plate 1	
Construction trade areas and materials	C09	C9-24	A	Low		1206 W 47TH AVE # A	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-1	A	Low		1106 WILSHIRE AVE	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-5	A	Low		207 E NORTHERN LIGHTS # 103-A	Plate 1	
Construction trade areas and materials	C09	C9-25	A	Low		3700 SPRINGER ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-42	A	Low		3803 MCCAIN LOOP	Plate 1	
Florists	C12	C12-3	A	Low		601 W 41ST AVE # B	Plate 1	
Dry cleaners	C10	C10-2	A	Low		2811 DAWSON ST	Plate 1	
Seafood processing	N10	N10-3	A	Low		2909 ARTIC BLVD	Plate 1	
Lawn and garden supplies/services	C23	C23-3	A	Medium		3804 WILSON ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-43	A	Low		701 SESAME ST # 101	Plate 1	
Florists	C12	C12-4	A	Low		242 W 34TH AVE	Plate 1	
Pharmacies	C35	C35-2	A	Low		3101 A ST	Plate 1	
Construction trade areas and materials	C09	C9-26	A	Low		3909 ARCTIC BLVD	Plate 1	
Meat processing	N05	N5-2	A	Low		405 W BENSON BLVD	Plate 1	
Construction trade areas and materials	C09	C9-27	A	Low		4101 ARCTIC BLVD # 203	Plate 1	
Construction trade areas and materials	C09	C9-28	A	Low		511 W 41ST AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-44	A	Low		341 W TUDOR RD # 106	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-1	A	Low		3300 C ST	Plate 1	

Table 3

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Nitrates and Nitrites**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-2	A	Low		3601 C ST # 574	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-3	A	Low		3201 C ST # 107	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-4	A	Low		3401 DENALI ST # 203	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-5	A	Low		405 W 36TH AVE # 101	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-6	A	Low		3340 ARCTIC BLVD # 104	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-7	A	Low		3401 DENALI ST # 102	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-8	A	Low		240 E TUDOR RD # 100	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-9	A	Low		3401 DENALI ST # 201	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-10	A	Low		741 SESAME ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-11	A	Low		3401 DENALI ST # 102	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-12	A	Low		3201 C ST # 107	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-13	A	Low		4060 B ST # 110	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-14	A	Low		3900 ARCTIC BLVD # 103	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-15	A	Low		4141 B ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-16	A	Low		4300 B ST # 202	Plate 1	
Landscaping around commercial, industrial, or government buildings	X03	X3-2	A	Low		3800 Arctic Blvd	3	
Landscaping around commercial, industrial, or government buildings	X03	X3-3	A	Low		3500 Spenard	3	
Landscaping around commercial, industrial, or government buildings	X03	X3-4	A	Low		401 - 405 Northen Lights Blvd	3	
Municipal or city parks (with green areas)	X04	X4-3	A	Low		Pop Carr park	3	
Municipal or city parks (with green areas)	X04	X4-4	A	Low		48th St	3	
Municipal or city parks (with green areas)	X04	X4-5	A	Low		Arctic/Benson Park	3	

Table 3

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Nitrates and Nitrites**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Municipal or city parks (with green areas)	X04	X4-6	A	Low		Wilson Street Park	3	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-8	B	Low		501 W INTL AIRPORT RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-12	B	Low		737 E INTL AIRPORT RD	Plate 1	
Construction trade areas and materials	C09	C9-37	B	Low		261 E 56TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-38	B	Low		520 W 58TH AVE # J	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-25	B	Low		3200 SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-39	B	Low		720 W 58TH AVE # D	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-50	B	Low		4637 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-32	B	Low		4953 EAGLE ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-80	B	Low		540 W INTERNATIONAL AIRPORT RD	Plate 1	
Construction trade areas and materials	C09	C9-40	B	Low		5610 SILVERADO WAY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-68	B	Low		3546 LATOUCHE ST	Plate 1	
Leather processing	C24	C24-2	B	Low		4417 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-41	B	Low		649 W 54TH AVE	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-7	B	Low		700 W 58TH AVE # J	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-81	B	Low		549 W INTL AIRPORT RD # B2	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-14	B	Low		600 E 48TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-23	B	Low		107 E 54TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-51	B	Low		3315 FAIRBANKS ST	Plate 1	
Vocational training facilities	X45	X45-1	B	Low		701 E TUDOR RD	Plate 1	
Seafood processing	N10	N10-5	B	Low		1020 W INTL AIRPORT RD	Plate 1	
Construction trade areas and materials	C09	C9-33	B	Low		5100 CORDOVA ST # 100	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-82	B	Low		549 W INTL AIRPORT RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-13	B	Low		220 E INTL AIRPORT RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-52	B	Low		4000 OLD SEWARD HWY # 100	Plate 1	

Table 3

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Nitrates and Nitrites**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-34	B	Low		224 E 54TH AVE	Plate 1	
Pet groomers	C34	C34-2	B	Low		3801 OLD SEWARD HWY # 9	Plate 1	
Construction trade areas and materials	C09	C9-42	B	Low		5401 CORDOVA ST # 203	Plate 1	
Quarries (sand, gravel, rock, other?)	E10	E10-1	B	Low		314 E INTERNATIONAL AIRPORT RD	Plate 1	
Taxidermists	C41	C41-2	B	Low		520 W 58TH AVE # D	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-69	B	Low		3730 RHONE CIR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-62	B	Low		1515 E TUDOR RD # 3	Plate 1	
Construction trade areas and materials	C09	C9-43	B	Low		401 W INTL AIRPORT RD # 12	Plate 1	
Meat processing	N05	N5-3	B	Low		324 E INTL AIRPORT RD	Plate 1	
Construction trade areas and materials	C09	C9-44	B	Low		852 W INTERNATIONAL RD # 101	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-70	B	Low		3315 VASSAR DR	Plate 1	
Pharmacies	C35	C35-3	B	Low		600 E NORTHERN LIGHTS BLVD	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-6	B	Low		4710 BUSINESS PARK BLVD # 24	Plate 1	
Construction trade areas and materials	C09	C9-29	B	Low		4950 FAIRBANKS ST	Plate 1	
Recycling and waste reduction facilities	D57	D57-1	B	Low		750 E INTL AIRPORT RD	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-8	B	Low		200 W POTTER DR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-53	B	Low		550 E TUDOR RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-19	B	Low		4940 OLD SEWARD HWY	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-9	B	Low		600 W 58TH AVE # D	Plate 1	
Construction trade areas and materials	C09	C9-34	B	Low		212 E 51ST AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-71	B	Low		3707 RHONE CIR	Plate 1	
Florists	C12	C12-8	B	Low		5401 FAIRBANKS ST # 3	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-54	B	Low		2706 FAIRBANKS ST # 4	Plate 1	
Construction trade areas and materials	C09	C9-45	B	Low		5330 CORDOVA ST	Plate 1	
Florists	C12	C12-9	B	Low		118 E INTL AIRPORT RD	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-10	B	Low		520 W 58TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-30	B	Low		600 W 58TH AVE # A	Plate 1	

Table 3

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Nitrates and Nitrites**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-55	B	Low		5121 ARCTIC BLVD # E	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-73	B	Low		3730 RHONE CIR # 102	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-33	B	Low		202 E INTL AIRPORT RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-74	B	Low		3238 LATOUCHE ST # H10	Plate 1	
Seafood processing	N10	N10-4	B	Low		5011 ARCTIC BLVD # I	Plate 1	
Pharmacies	C35	C35-4	B	Low		1000 E NORTHERN LIGHTS BLVD	Plate 1	
Florists	C12	C12-5	B	Low		4007 OLD SEWARD HWY # 700	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-10	B	Low		4831 FAIRBANKS ST	Plate 1	
Construction trade areas and materials	C09	C9-46	B	Low		119 E 54TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-75	B	Low		3708 RHONE CIR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-76	B	Low		3730 RHONE CIR # 203	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-83	B	Low		501 W INTL AIRPORT RD # 1A	Plate 1	
Pharmacies	C35	C35-5	B	Low		3730 RHONE CIR # 105	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-77	B	Low		3606 RHONE CIR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-78	B	Low		3730 RHONE CIR # 100	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-84	B	Low		601 W 58TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-47	B	Low		401 W INTL AIRPORT RD # 31	Plate 1	
Construction trade areas and materials	C09	C9-35	B	Low		1011 E TUDOR RD # 100	Plate 1	
Construction trade areas and materials	C09	C9-48	B	Low		550 W 54TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-49	B	Low		5326 A ST	Plate 1	
Construction trade areas and materials	C09	C9-50	B	Low		436 W POTTER DR	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-32	B	Low		436 W POTTER DR	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-11	B	Low		5630 SILVERADO WAY # A2	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-85	B	Low		500 W INTL AIRPORT RD # C	Plate 1	

Table 3

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Nitrates and Nitrites**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Taxidermists	C41	C41-3	B	Low		822 W INTL AIRPORT RD	Plate 1	
Orchards or nurseries	A10	A10-2	B	Medium		5333 A ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-31	B	Low		A ST & INTL AIRPORT RD	Plate 1	
Car washes with engine or undercarriage cleaning	C08	C8-2	B	Low		4551 FAIRBANKS ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-20	B	Low		4748 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-15	B	Low		400 W 53RD AVE	Plate 1	
Recycling and waste reduction facilities	D57	D57-2	B	Low		111 E 56TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-28	B	Low		512 W INTL AIRPORT RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-86	B	Low		1205 E INTERNATIONAL RD # 103	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-27	B	Low		110 E 54TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-51	B	Low		720 W 58TH AVE # E	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-49	B	Low		625 E 34TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-72	B	Low		3500 LATOUCHE ST # 200	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-16	B	Low		3200 SEWARD HWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-87	B	Low		5313 ARCTIC BLVD # 101	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-56	B	Low		3315 FAIRBANKS ST	Plate 1	
Construction trade areas and materials	C09	C9-52	B	Low		300 E 54TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-53	B	Low		5610 SILVERADO WAY # 6	Plate 1	
Seafood processing	N10	N10-6	B	Low		1304 LAONA CIR	Plate 1	
Construction trade areas and materials	C09	C9-36	B	Low		4970 FAIRBANKS ST	Plate 1	
Dry cleaners	C10	C10-3	B	Low		601 E NORTHERN LIGHTS BLVD # J	Plate 1	
Injection wells (Class V) Industrial Process Water & Water Disposal Wells	D40	D40-2	B			601 E NORTHERN LIGHTS BLVD # J	Plate 1	
Seafood processing	N10	N10-7	B	Low		163 E 54TH AVE	Plate 1	

Table 3

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Nitrates and Nitrites**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-18	B	Low		4908 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-1	B	Medium		665 W POTTER DR	Plate 1	
Car washes with engine or undercarriage cleaning	C08	C8-3	B	Low		4551 FAIRBANKS ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-57	B	Low		3315 FAIRBANKS ST	Plate 1	
Florists	C12	C12-6	B	Low		4007 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-54	B	Low		610 W 54TH AVE	Plate 1	
Quarries (sand, gravel, rock, other?)	E10	E10-2	B	Low		300 E 54TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-26	B	Low		4820 FAIRBANKS ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-22	B	Low		210 E INTL AIRPORT RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-58	B	Low		4900 EAGLE ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-59	B	Low		701 E TUDOR RD # 100	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-17	B	Low		4627 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-55	B	Low		130 W INTL AIRPORT RD # K	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-24	B	Low		540 W POTTER	Plate 1	
Scrap, salvage, or junk yards	D59	D59-2	B	Low		1100 W INTL AIRPORT RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-21	B	Low		720 W 58TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-79	B	Low		3708 RHONE CIR	Plate 1	
Florists	C12	C12-7	B	Low		4240 OLD SEWARD HWY # 21	Plate 1	
Dry cleaners	C10	C10-4	B	Low		601 W 58TH AVE # M	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-12	B	Low		5761 SILVERADO WAY # N	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-7	B	Low		650 W 58TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-56	B	Low		540 W POTTER DR	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-11	B	Low		1218 W INTL AIRPORT RD	Plate 1	

Table 3

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Nitrates and Nitrites**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Seafood processing	N10	N10-8	B	Low		718 W 53RD AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-60	B	Low		500 E TUDOR RD	Plate 1	
Organic chemicals manufacturing	I29	I29-1	B	High		720 W 58TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-57	B	Low		220 CENTER CT	Plate 1	
Meat processing	N05	N5-4	B	Low		5650 B ST	Plate 1	
Construction trade areas and materials	C09	C9-30	B	Low		750 E. INTERNATIONAL AIRPORT RD	Plate 1	
Construction trade areas and materials	C09	C9-58	B	Low		5300 A ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-9	B	Low		5713 ARCTIC BLVD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-29	B	Low		5713 ARCTIC BLVD	Plate 1	
Construction trade areas and materials	C09	C9-59	B	Low		549 W INTL AIRPORT RD	Plate 1	
Construction trade areas and materials	C09	C9-31	B	Low		511 W 54TH ST	Plate 1	
Construction trade areas and materials	C09	C9-60	B	Low		130 W INTERNATIONAL AIRPORT RD	Plate 1	
Seafood processing	N10	N10-9	B	Low		100 E 54TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-61	B	Low		2702 GAMBELL ST # 206	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-45	B	Low		5001 ARCTIC BLVD # 202	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-46	B	Low		3315 FAIRBANKS ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-47	B	Low		4450 CORDOVA ST # 210	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-48	B	Low		4450 CORDOVA ST # 130	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-63	B	Low		3708 RHONE CIR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-64	B	Low		3606 RHONE CIR # 2	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-65	B	Low		3730 RHONE CIR # 103	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-66	B	Low		3606 RHONE CIR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-67	B	Low		3730 RHONE CIR # 202	Plate 1	



Table 3

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Nitrates and Nitrites**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Residential area	R01	R1-2	B	Low		Zone B Protection Area	3	217 acres
Municipal or city parks (with green areas)	X04	X4-7	B	Low		Foxtree park	3	
Highways and roads, paved (cement or asphalt)	X20	X20-81 X20-161	B	Low		All roads in Zone B Protection Area	4	
Residential septic systems (serves one single-family home)	R02	R2-7 - R2-24	B	Low		All septic systems in Zone B Protection Area	5	
Construction trade areas and materials	C09	C9-93	C	Low		575 E DOWLING RD	Plate 1	
Construction trade areas and materials	C09	C9-62	C	Low		5700 LAKE OTIS PKWY	Plate 1	
Florists	C12	C12-10	C	Low		4502 CASSIN DR	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-40	C	Low		5610 OLD SEWARD HWY # E	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-131	C	Low		6917 OLD SEWARD HWY	Plate 1	
Scrap, salvage, or junk yards	D59	D59-3	C	Low		5625 Old Seward Highway	Plate 1	
Scrap, salvage, or junk yards	D59	D59-4	C	Low		56th & Old Seward Highway	Plate 1	
Scrap, salvage, or junk yards	D59	D59-5	C	Low		849 E 56TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-49	C	Low		1733 E Dowling Rd	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-104	C	Low		3650 LAKE OTIS PKWY # 140	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-105	C	Low		3600 LAKE OTIS PKWY	Plate 1	
Quarries (sand, gravel, rock, other?)	E10	E10-3	C	Low		240 W 68TH AVE	Plate 1	
Organic chemicals manufacturing	I29	I29-2	C	High		6415 ARCTIC BLVD	Plate 1	
Pet groomers	C34	C34-3	C	Low		907 E DOWLING RD # 10	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-106	C	Low		3800 LAKE OTIS PKWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-89	C	Low		1600 E TUDOR RD # 201	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-107	C	Low		3600 LAKE OTIS PKWY # 101	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-108	C	Low		4107 LAUREL ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-109	C	Low		4355 LAUREL ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-110	C	Low		3900 LAKE OTIS PKWY	Plate 1	

Table 3

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Nitrates and Nitrites**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Pharmacies	C35	C35-6	C	Low		4201 LAKE OTIS PKWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-132	C	Low		6000 A ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-43	C	Low		6407 GREENWOOD ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-113	C	Low		4115 LAKE OTIS PKWY	Plate 1	
Car washes with engine or undercarriage cleaning	C08	C8-4	C	Low		1136 E 66TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-90	C	Low		5520 LAKE OTIS PKWY # 101	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-42	C	Low		6626 GREENWOOD ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-37	C	Low		1136 E 66TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-91	C	Low		1600 E TUDOR RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-46	C	Low		6150 A ST	Plate 1	
Recycling and waste reduction facilities	D57	D57-3	C	Low		6161 ROSEWOOD ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-41	C	Low		6031 ARCTIC BLVD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-52	C	Low		6727 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-38	C	Low		6705 ROSEWOOD ST	Plate 1	
Pharmacies	C35	C35-7	C	Low		4045 LAKE OTIS PKWY # 204	Plate 1	
Construction trade areas and materials	C09	C9-71	C	Low		1300 E 68TH AVE # 112	Plate 1	
Construction trade areas and materials	C09	C9-72	C	Low		5941 ARCTIC BLVD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-36	C	Low		5941 ARCTIC BLVD	Plate 1	
Leather processing	C24	C24-3	C	Low		5911 OLD SEWARD HWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-114	C	Low		4000 LAUREL ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-44	C	Low		5901 ARCTIC BLVD	Plate 1	
Orchards or nurseries	A10	A10-3	C	Medium		6151 B ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-115	C	Low		4045 LAKE OTIS PKWY # 210	Plate 1	

Table 3

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Nitrates and Nitrites**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Laundromats without dry cleaning	C22	C22-2	C	Low		2494 E TUDOR RD	Plate 1	
Construction trade areas and materials	C09	C9-73	C	Low		1217 E 66TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-57	C	Low		6255 MACKAY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-39	C	Low		130 W DOWLING RD	Plate 1	
Construction trade areas and materials	C09	C9-63	C	Low		2000 E DOWLING RD # 4	Plate 1	
Construction trade areas and materials	C09	C9-74	C	Low		538 LYNWOOD DR	Plate 1	
Car washes with engine or undercarriage cleaning	C08	C8-5	C	Low		538 LYNWOOD DR	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-55	C	Low		6820 ROSEWOOD ST # 13	Plate 1	
Construction trade areas and materials	C09	C9-75	C	Low		740 BONANZA AVE	Plate 1	
Construction trade areas and materials	C09	C9-68	C	Low		1621 STANTON AVE	Plate 1	
Construction trade areas and materials	C09	C9-64	C	Low		6112 PETERSBURG ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-92	C	Low		2545 E TUDOR RD	Plate 1	
Agricultural chemical sales/storage	C02	C2-2	C	Medium		5340 TUDORTOP CIR	Plate 1	
Construction trade areas and materials	C09	C9-76	C	Low		6150 A ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-56	C	Low		6616 ROSEWOOD ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-133	C	Low		5901 ARCTIC BLVD # H	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-35	C	Low		1801 E Dowling Road	Plate 1	
Lawn and garden supplies/services	C23	C23-4	C	Medium		2000 E DOWLING RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-116	C	Low		3650 LAKE OTIS PKWY # 102	Plate 1	
Car washes with engine or undercarriage cleaning	C08	C8-6	C	Low		6521 GREENWOOD ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-117	C	Low		3650 LAKE OTIS PKWY # 102	Plate 1	
Construction trade areas and materials	C09	C9-77	C	Low		634 FISCHER AVE	Plate 1	
Construction trade areas and materials	C09	C9-78	C	Low		6041 MACKAY ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-118	C	Low		4001 LAKE OTIS PKWY # 100	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-119	C	Low		4003 LAKE OTIS PKWY # 101	Plate 1	

Table 3

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Nitrates and Nitrites**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-45	C	Low		5941 ARCTIC BLVD	Plate 1	
Construction trade areas and materials	C09	C9-79	C	Low		646 E DOWLING RD	Plate 1	
Septic tank cleaning and servicing	C39	C39-1	C	Low		6218 QUINHAGAK ST	Plate 1	
Construction trade areas and materials	C09	C9-80	C	Low		6109 MIKE ST	Plate 1	
Dry cleaners	C10	C10-5	C	Low		5520 LAKE OTIS PKWY # 106	Plate 1	
Injection wells (Class V) Industrial Process Water & Water Disposal Wells	D40	D40-4	C			5520 LAKE OTIS PKWY # 106	Plate 1	
Construction trade areas and materials	C09	C9-81	C	Low		150 W DOWLING RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-120	C	Low		3744 LAKE OTIS PKWY	Plate 1	
Pharmacies	C35	C35-8	C	Low		4201 LAKE OTIS PKWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-93	C	Low		5905 LAKE OTIS PKWY # A	Plate 1	
Construction trade areas and materials	C09	C9-82	C	Low		6118 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-83	C	Low		141 A STREET LOOP	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-96	C	Low		4050 LAKE OTIS PKWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-111	C	Low		4048 LAUREL ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-112	C	Low		4001 LAUREL ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-121	C	Low		4200 LAKE OTIS PKWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-126	C	Low		4120 LAUREL ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-127	C	Low		2401 E 42ND AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-130	C	Low		4325 LAUREL ST	Plate 1	
Construction trade areas and materials	C09	C9-84	C	Low		6637 GREENWOOD ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-122	C	Low		4115 LAKE OTIS PKWY # 201	Plate 1	
Construction trade areas and materials	C09	C9-85	C	Low		6108 MACKAY ST # 200	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-123	C	Low		4231 LAKE OTIS PKWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-124	C	Low		3650 LAKE OTIS PKWY # 201	Plate 1	

Table 3

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Nitrates and Nitrites**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Construction trade areas and materials	C09	C9-86	C	Low		6260 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-65	C	Low		2227 E 53RD AVE	Plate 1	
Dry cleaners	C10	C10-6	C	Low		4501 LAKE OTIS PKWY	Plate 1	
Injection wells (Class V) Industrial Process Water & Water Disposal Wells	D40	D40-3	C			4501 LAKE OTIS PKWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-134	C	Low		907 E DOWLING RD # 7	Plate 1	
Construction trade areas and materials	C09	C9-69	C	Low		3820 LAKE OTIS PKWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-48	C	Low		1801 E DOWLING RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-54	C	Low		210 E POTTER DR	Plate 1	
Construction trade areas and materials	C09	C9-66	C	Low		1720 E 59TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-125	C	Low		4335 LAUREL ST	Plate 1	
Construction trade areas and materials	C09	C9-87	C	Low		6151 A ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-47	C	Low		1301 E DOWLING RD	Plate 1	
Construction trade areas and materials	C09	C9-88	C	Low		6208 MACKAY ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-128	C	Low		3650 LAKE OTIS PKWY # 202	Plate 1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-3	C	Medium		5941 ARCTIC BLVD	Plate 1	
Dry cleaners	C10	C10-7	C	Low		6726 GREENWOOD ST	Plate 1	
Car washes with engine or undercarriage cleaning	C08	C8-7	C	Low		1147 E DOWLING RD	Plate 1	
Scrap, salvage, or junk yards	D59	D59-6	C	Low		849 E 56TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-94	C	Low		5520 LAKE OTIS PKWY	Plate 1	
Construction trade areas and materials	C09	C9-67	C	Low		5101 LAUREL ST	Plate 1	
Meat processing	N05	N5-5	C	Low		6123 MACKAY ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-53	C	Low		6017 AUSTIN ST	Plate 1	
Construction trade areas and materials	C09	C9-89	C	Low		600 E 57TH PL # B	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-129	C	Low		4001 LAKE OTIS PKWY # 200	Plate 1	
Construction trade areas and materials	C09	C9-70	C	Low		3820 LAKE OTIS PKWY	Plate 1	

Table 3

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Nitrates and Nitrites**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Construction trade areas and materials	C09	C9-90	C	Low		6211 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-50	C	Low		5839 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-61	C	Low		160 W 68TH	Plate 1	
Construction trade areas and materials	C09	C9-91	C	Low		125 A STREET LOOP	Plate 1	
Boat engine/body repair shops	C04	C4-1	C			1220 E 68TH AVE # 101	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-13	C	Low		6100 A ST	Plate 1	
Construction trade areas and materials	C09	C9-92	C	Low		6120 A ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-51	C	Low		5901 ARCTIC BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-88	C	Low		1600 E TUDOR RD # C	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-95	C	Low		4045 LAKE OTIS PKWY # 201	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-97	C	Low		2501 E 42ND AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-98	C	Low		3820 LAKE OTIS PKWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-99	C	Low		2400 E 42ND AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-100	C	Low		4231 LAKE OTIS PKWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-101	C	Low		3650 LAKE OTIS PKWY # 205	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-102	C	Low		2501 E 42ND AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-103	C	Low		3650 LAKE OTIS PKWY # 202	Plate 1	
Residential area	R01	R1-3	C	Low		Zone C Protection Area	3	533 acres
Municipal or city parks (with green areas)	X04	X4-8	C	Low		Wickersham Park	3	
Municipal or city parks (with green areas)	X04	X4-9	C	Low		Carlson, Jacobson, and David Green Memorial Parks	3	
Municipal or city parks (with green areas)	X04	X4-10	C	Low		University Park	3	
Municipal or city parks (with green areas)	X04	X4-11	C	Low		Bancroft Park	3	
Municipal or city parks (with green areas)	X04	X4-12	C	Low		Wickersham Park	3	
Municipal or city parks (with green areas)	X04	X4-13	C	Low		Campbell Park	3	
Municipal or city parks (with green areas)	X04	X4-14	C	Low		Lynwood Park	3	
Municipal or city parks (with green areas)	X04	X4-15	C	Low		Meadow Street Park	3	

**Table 3**

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Nitrates and Nitrites**

**PWSID 210906.003**

<b>Contaminant Source Category</b>	<b>Contaminant Source ID</b>	<b>CS ID tag</b>	<b>Zone</b>	<b>Risk Ranking for Analysis</b>	<b>Overall Rank after Analysis</b>	<b>Location</b>	<b>Map</b>	<b>Comments</b>
Highways and roads, paved (cement or asphalt)	X20	X20-162 - X20-297	C	Low		All roads in Zone C Protection Area	4	
Residential septic systems (serves one single-family home)	R02	R2-25 - R2-41	B	Low		All septic systems in Zone C Protection Area	5	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-238 - D1-401	C	Medium		All sewerlines in Zone C Protection Area	5	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-2	A	High	1	101 E NORTHERN LIGHTS BLVD	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-3	A	Medium	2	150 W TUDOR RD	Plate 1	<i>ADEC LUST File # L30.12 and Site Name MAPCO - EXPRESS #5012.</i> Petroleum hydrocarbon contaminated soil and groundwater was encountered in September of 1987 during the removal of three (3) USTs (two gasoline and one diesel). Approximately 1,100 cubic yards of contaminated soils were removed in May of 1989 and later transported offsite for treatment and disposal. Groundwater monitoring wells were installed to determine the magnitude and extent of contamination. Benzene concentrations during the groundwater sampling periods in 1990 and 1991 were as high as 35 ppm in MW-3. An in-situ vapor extraction system (VES) was installed to aid in the remediation of groundwater at this site in 1993 and operated on a continuous basis until April of 2000. In conjunction with the VES, an air injection system (AIS) was installed in October of 1996 following the discovery of free petroleum product on the water table. Groundwater samples taken September 28, 2001 indicated the presence of petroleum hydrocarbons in MW-11 (north of excavation) with benzene (0.97 ppm) still over the MCL (0.005 ppm) for drinking water. However, concentrations of all constituents have shown a marked decrease since the June 2000 sampling period. This is due mostly in part to the removal of the contaminated soils coupled with the natural attenuation and dispersion of the contaminant plume. The next sampling period was scheduled for March 2002. The results of those tests are currently not available.
Asphalt and tar processing/storage	I03	I3-1	A	Medium	3	4141 B ST # 410	Plate 1	
Motor / motor vehicle repair shops	C31	C31-2	A	Medium	4	100 E 51ST AVE	Plate 1	
Motor / motor vehicle repair shops	C31	C31-3	A	Medium	5	411 W TUDOR RD	Plate 1	
Hardware stores	C17	C17-11	A	Low	6	4141 B ST # 207	Plate 1	



Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-7	A	Medium	7	4333 BERING ST	Plate 1	<i>ADEC LUST File # L69.43 and Site Name MOA - BERING STREET MAINTENANCE SHOP.</i> Soil contamination was discovered during the removal of 5,000-gallon used oil UST in May of 1993 (Event ID 360). During this closure event, one 5,000-gallon gasoline and one 500-gallon used oil USTs were discovered. The two 5,000-gallon tanks were removed and the 500-gallon tank was closed in place. Approximately 400 cubic yards of contaminated soils were removed from the excavation. In October of 1996, a soil vapor extraction (SVE) system was installed to enhance the remediation of the site. In October of 1998, a 12,000-gallon gasoline UST was removed from the same property (Event ID 2656). Soils and groundwater contained gasoline range organics and BTEX over the MCL for ADEC Level A Cleanup Standards. Contaminated soils were removed from the excavation pit and transported offsite for thermal treatment. The Work Plan for this site entails quarterly groundwater monitoring in 2001. Laboratory results were expected in January 2002 and a report summarizing the results should have been submitted to ADEC in February 2002.
								ADEC is in the process of acquiring the results of the February 2002 sampling period.
Construction trade areas and materials	C09	C9-12	A	Low	8	4041 B ST	Plate 1	
Construction trade areas and materials	C09	C9-13	A	Low	9	301 W NORTHERN LIGHTS # 300	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-4	A	Low	10	401 W Tudor Road	Plate 1	<i>ADEC Contaminated Sites File # CS100.158 and Site Name Tudor Rd. Dimond Z.</i> Surface staining and soil contamination was discovered during a property transfer on May 26, 1994. Minor groundwater contamination had occurred. This site is CLOSED (September 1999).
Gasoline stations (without repair shop)	C15	C15-7	A	Medium		3230 C ST	Plate 1	
Tanks, diesel (underground)	T08	T8-6	A	Medium		3230 C ST	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-4	A	Low		3330 ARCTIC BLVD	Plate 1	<i>ADEC LUST File # L10.? and Site Name 3300-40 ARCTIC BLVD. CORPORATION.</i> Petroleum contaminated soils and groundwater were identified in October of 1989 during the removal of two 5,000-gallon underground petroleum tanks. Site closure was granted by ADEC in February of 1990. No further action required at this time.
Motor vehicle dealerships - cars, trucks, motor cycles, ATVs, snow machines, boats (with service department)	C27	C27-1	A	Medium		3202 SPENARD RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-17	A	Low		3400 SPENARD RD # 4	Plate 1	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-18	A	Low		510 W TUDOR RD # 111	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-1	A	Low		4141 B ST	Plate 1	
Construction trade areas and materials	C09	C9-1	A	Low		200 W 34TH AVE # 374	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-1	A	Medium		502 W NORTHERN LIGHTS BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-2	A	Low		360 W BENSON BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-19	A	Low		3201 C ST # 602	Plate 1	
Body shops (automotive)	C05	C5-1	A	Medium		3685 SPRINGER ST	Plate 1	
Motor / motor vehicle repair shops	C31	C31-1	A	Medium		3800 ARCTIC BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-20	A	Low		3330 C ST # 100	Plate 1	
Printers, publishers, copiers	C37	C37-3	A	Low		501 W NORTHERN LIGHTS BL # 100	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-1	A	Low		3705 ARCTIC BLVD # 1693	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-21	A	Low		511 W 41ST AVE # 102	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-1	A	Low		4011 ARCTIC BLVD # 101	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-6	A	Low		4300 B ST	Plate 1	ADEC LUST File # L55.96 and Site Name ALASKA ENERGY BUILDING . Soil contamination was discovered during the excavation of a 500-gallon diesel underground storage tank in October of 1990. No groundwater contamination was detected. Approximately 10 - 12 cubic yards of contaminated soils were excavated below the tank and was transported offsite for thermal treatment. File closed out to ADEC's satisfaction in September of 1991.
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-2	A	Medium		3689 ARCTIC BLVD	Plate 1	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Car washes with engine or undercarriage cleaning	C08	C8-1	A	Medium		3800 MINNESOTA DR	Plate 1	
Body shops (automotive)	C05	C5-2	A	Medium		2905 ARCTIC BLVD	Plate 1	
Orchards or nurseries	A10	A10-1	A	Low		601 W 41ST AVE # D	Plate 1	
Printers, publishers, copiers	C37	C37-4	A	Low		3685 ARCTIC BLVD	Plate 1	
Hardware stores	C17	C17-1	A	Low		4205 COPE ST	Plate 1	
Seafood processing	N10	N10-1	A	Low		2914 ARCTIC BLVD	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-1	A	Low		4040 B ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-2	A	Low		700 W 41ST AVE # J	Plate 1	
Hardware stores	C17	C17-2	A	Low		3207 ARCTIC BLVD	Plate 1	
Lawn and garden supplies/services	C23	C23-1	A	Low		3105 CHEECHAKO ST	Plate 1	
Pest extermination services/pesticide sales	C33	C33-1	A	Low		1403 W 33RD AVE	Plate 1	
Printers, publishers, copiers	C37	C37-5	A	Low		4220 B ST # 210	Plate 1	
Construction trade areas and materials	C09	C9-2	A	Low		511 W 41ST AVE	Plate 1	
Sign manufacturing	I39	I39-1	A	Medium		3404 ARCTIC BLVD	Plate 1	
Gasoline stations (with repair shop)	C16	C16-2	A	Medium		3607 SPENARD RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-6	A	High		3607 SPENARD RD	Plate 1	
Tanks, diesel (underground)	T08	T8-13	A	Medium		3607 SPENARD RD	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-1	A	Medium		3607 SPENARD RD	Plate 1	<i>ADEC LUST File # L20.02-1 and Site Name Tesoro - Olson Gas Services Store #1. Petroleum hydrocarbon contamination was found in the trench along Spenard Road during road construction in October of 1988. The former UST system at this site was removed in September of 1995. Considerable contamination was noted during the closure process, however, no attempt was made to excavate further, thus leaving a significant amount of contaminated soil on-site. In September of 2001, approximately 1,120 tons of fuel contaminated soil was excavated beneath the former UST system. Diesel contamination was found below the water table during the excavation. The removed contaminated soils were later exported off-site for thermal treatment. While a large amount of diesel-contaminated soil was removed during this work, high-level contamination remains in the soils below the water table. In October of 2001, the 3rd party contractor for the responsible party submitted a work plan for pilot testing a soil and groundwater remediation system. The proposed remediation approach consists of the installation and operation</i>

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
								of a soil vapor extraction (SVE) system and an in-well vapor stripping and circulation (VSC) system. In conjunction with these systems, they have proposed the injection of additional enzymes into the groundwater at this site. These enzymes, extracted from living bacteria, will be utilized to enhance the effectiveness of the remediation system and, therefore, natural degradation of the diesel range contaminants. This plan has been conditionally approved, however, no enzymes injection or reinjection of water will be utilized. No information is currently available for monitoring in 2002.
Heavy equipment rental/storage	C18	C18-1	A	Medium		3600 ARCTIC BLVD	Plate 1	
Battery manufacturing/recycling	I06	I6-1	A	Low		200 W 34TH AVE # 1076	Plate 1	
Printers, publishers, copiers	C37	C37-6	A	Low		600 W NORTHERN LIGHTS BLVD	Plate 1	
Heavy equipment rental/storage	C18	C18-2	A	Medium		3940 ARCTIC BLVD # 300	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-23	A	Low		343 W BENSON BLVD # 3	Plate 1	
Race tracks (automotive)	C38	C38-1	A	Low		3600 EUREKA ST	Plate 1	
Printers, publishers, copiers	C37	C37-7	A	Low		702 W 32ND AVE	Plate 1	
Hardware stores	C17	C17-3	A	Low		3699 SPRINGER ST	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-5	A	High		3719 ARCTIC BLVD.	Plate 1	<i>ADEC LUST File # L55.48 and Site Name ARCTIC ANNEX BUILDING.</i> Gasoline contaminated soil and groundwater was discovered during the removal of a 6,000-gallon unleaded gasoline UST in November of 1989. Approximately 65 cubic yards of contaminated soils were excavated and were temporarily stockpiled onsite. Sampling/results of groundwater from monitoring wells indicated 1.34 ppm benzene, 4.4 ppm ethylbenzene, 19.2 ppm toluene, and 25.5 ppm xylenes during the November sampling period. Contaminated soils were transported offsite for disposal at the Anchorage Regional Landfill in September of 1990. Groundwater samples taken in 1991 - 1998 continued to show petroleum hydrocarbons above the MCL for both soil and drinking water. In July of 1998, ADEC requested that the responsible party continue to monitor groundwater contamination on a semi-annual basis coupled with the submittal of a Corrective Action Plan for the existing soil contamination at this site. No information has been received by ADEC since 1998.
Laundromats without dry cleaning	C22	C22-1	A	Low		701 W 36TH AVE	Plate 1	
Gasoline stations (without repair shop)	C15	C15-3	A	Medium		3603 ARCTIC BLVD	Plate 1	
Tanks, gasoline (underground)	T12	T12-17	A	Medium		3603 ARCTIC BLVD	Plate 1	
Tanks, diesel (underground)	T08	T8-9	A	Medium		3603 ARCTIC BLVD	Plate 1	
Gasoline stations (with repair shop)	C16	C16-1	A	Medium		810 W TUDOR RD	Plate 1	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Tanks, gasoline (underground)	T12	T12-10	A	Medium		810 W TUDOR RD	Plate 1	10,000-gallons, double-walled
Tanks, gasoline (underground)	T12	T12-11	A	Medium		810 W TUDOR RD	Plate 1	10,000-gallons, double-walled
Tanks, gasoline (underground)	T12	T12-12	A	Medium		810 W TUDOR RD	Plate 1	10,000-gallons, double-walled
Tanks, lubricants or other petroleum products (underground)	T20	T20-1	A	Medium		810 W TUDOR RD	Plate 1	550-gallons, double-walled, Manual Tank Testing
Tanks, diesel (underground)	T08	T8-12	A	Medium		810 W TUDOR RD	Plate 1	10,000-gallon
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-2	A	Medium		810 W TUDOR RD	Plate 1	ADEC LUST File # L25.09 and Site Name ARCTIC TEXACO. Soil and groundwater contamination was discovered in February of 1992 as the result of a line failure between a turbine pump and the dispenser for a fuel UST system. Approximately 1,481 tons of contaminated soils were removed and transported offsite for treatment and processing. Groundwater monitoring wells were installed and samples were taken of the groundwater in January of 1994. Petroleum hydrocarbon concentrations during this sampling period were above MCLs for drinking water. A soil vapor extraction system (VES) was installed to aid in the remediation of the site in 1989. Additionally, a groundwater treatment system (GTS) was installed in 1997-1998. Quarterly groundwater samples were submitted to ADEC beginning in 1994 through continue today. Groundwater samples/results from March of 2001 continued to show petroleum hydrocarbons above MCLs for drinking water. Sample results from December 2001 are currently being reviewed by ADEC.
Agricultural chemical sales/storage	C02	C2-1	A	Low		701 W 41ST AVE # 103	Plate 1	
Tanks, gasoline (underground)	T12	T12-9	A	Medium		3000 ARCTIC BLVD.	Plate 1	3,000-gallons, double-walled and cathodically protected
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-6	A	High		3000 ARCTIC BLVD.	Plate 1	ADEC LUST File # L69.42 and Site Name AWWU - ANCHORAGE WATER & WASTEWATER UTILITY HEADQUARTERS BUILDING. Soil contamination was discovered during the removal of two gasoline USTs in April of 1993. Approximately 630 tons of contaminated soils exceeding Level A Cleanup Standards were excavated and transported offsite for thermal treatment. ADEC has no additional information is available at this time on current site conditions.
Furniture manufacturing, repair, and finishing shops	C14	C14-1	A	Medium		700 W 41ST AVE	Plate 1	
Printers, publishers, copiers	C37	C37-8	A	Low		4639 KENT ST	Plate 1	
Scrap, salvage, or junk yards	D59	D59-1	A	High		1310 W. 56th Avenue	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-3	A	Low		1310 W. 56th Avenue	Plate 1	ADEC Contaminated Sites File # CS100.1081 and Site Name BP Exploration Transfer Yard. Diesel contamination was found in vicinity of some BPX stored equipment in April of 1993. A site assessment was conducted and No Further Action was granted in July of 1993. This site is CLOSED.

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Lumber processing and preservation	N04	N4-1	A	Medium		4300 B ST # 603	Plate 1	
Construction trade areas and materials	C09	C9-3	A	Low		3120 DENALI ST	Plate 1	
Jewelry manufacturing	I22	I22-1	A	Low		3000 A ST	Plate 1	
Pharmacies	C35	C35-1	A	Low		173 E NORTHERN LIGHTS BLVD	Plate 1	
Bowling centers	C06	C6-1	A	Low		3717 MINNESOTA DR	Plate 1	
Seafood processing	N10	N10-2	A	Low		555 W NORTHERN LIGHTS BLVD	Plate 1	
Tanks, heating oil, nonresidential (underground)	T16	T16-1	A	Medium		3900 DENALI ST	Plate 1	10,000-gallons, single-walled. Tank and piping leak detection is unknown.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-24	A	Low		4500 BUSINESS PARK BLVD # C10	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-25	A	Low		4500 BUSINESS PARK BLVD # 10	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-26	A	Low		700 W NORTHERN LIGHTS BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-27	A	Low		405 W 36TH AVE # 100	Plate 1	
Hardware stores	C17	C17-4	A	Low		3227 ARCTIC BLVD	Plate 1	
Construction trade areas and materials	C09	C9-4	A	Low		1206 CHUGACH WAY	Plate 1	
Construction trade areas and materials	C09	C9-5	A	Low		1503 W 45TH AVE	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-2	A	Low		3565 ARCTIC BLVD	Plate 1	
Construction trade areas and materials	C09	C9-6	A	Low		3605 ARCTIC BLVD # 729	Plate 1	
Construction trade areas and materials	C09	C9-7	A	Low		3333 DENALI ST	Plate 1	
Heavy equipment rental/storage	C18	C18-3	A	Medium		700 W 41ST AVE	Plate 1	
Hardware stores	C17	C17-5	A	Low		4263 MINNESOTA DR	Plate 1	
Hardware stores	C17	C17-6	A	Low		4011 ARCTIC BLVD # 206	Plate 1	
Heavy equipment rental/storage	C18	C18-4	A	Medium		101 W BENSON BLVD # 503	Plate 1	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-5	A	Low		1401 W. 33RD	Plate 1	ADEC LUST File # L55.02 and Site Name E. J. YOUNG. Soil contamination was discovered during the excavation of an UST in May of 1990. Contaminated soils were excavated and stockpiled onsite for bioremediation in June of 1990. Treated soils were then placed back into the excavation pit in 1992. In December of 1997, the excavation surface was paved to decrease the amount of precipitation that infiltrates the soil at this site. On December 17, 1997, a No Further Action letter was issued by ADEC and site closure was complete.
Construction trade areas and materials	C09	C9-8	A	Low		1207 W 47TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-9	A	Low		3300 ARCTIC BLVD # 205	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-2	A	Low		3400 SPENARD RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-4	A	High		411 W TUDOR RD	Plate 1	
Jewelers	C19	C19-1	A	Low		601 W 36TH AVE # 16	Plate 1	
Printers, publishers, copiers	C37	C37-9	A	Low		3685 ARCTIC BLVD	Plate 1	
Textile manufacturing	I45	I45-1	A	Medium		510 W 41ST AVE	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV <del>s</del> , snow machines, boats (with service department)	C27	C27-2	A	Medium		3231 SPENARD RD	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-3	A	Low		701 W 41ST AVE	Plate 1	
Construction trade areas and materials	C09	C9-10	A	Low		4101 ARTIC BLVD # 102	Plate 1	
Government vehicle maintenance facilities	X19	X19-2	A	Medium		3601 C ST # 1034	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-2	A	Low		1311 W 40th Avenue	Plate 1	ADEC Contaminated Sites File # CS100.148 and Site Name Former Auto Repair Shop. Evicted tenants left drums and batteries, junk autos, and several open containers. Site assessment in August of 1995 found petroleum had been discharged from 55-gallon drums onto the driveway that resulted in contamination of soil in adjacent unpaved, shallow roadside ditch. Site is INACTIVE.
Leaking Underground Fuel Storage Tank (LUST) Site	U04	U4-38	A	Low		2808 Eureka Street	Plate 1	ADEC Contaminated Sites File # CS96.67 and Site Name Former Icicle Seafood Unreg. UST. Soil and groundwater contamination was discovered resulting from an unregulated leaking 1,000-gallon commercial heating oil underground storage tank (UST). Contaminated soils were removed and groundwater monitoring continued up until late 1996 when petroleum hydrocarbon contamination decreased enough to issue a "No Further Action" request for the site. This site has been CLOSED since March of 1997.

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Hardware stores	C17	C17-19	A	Low		3309 SPENARD RD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-2	A	Medium		3903 COPE ST	Plate 1	
Construction trade areas and materials	C09	C9-11	A	Low		3705 ARCTIC BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-10	A	Low		2805 BERING ST	Plate 1	
Body shops (automotive)	C05	C5-3	A	Medium		1306 CHUGACH WAY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-28	A	Low		3510 SPENARD RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-3	A	Low		111 E NORTHERN LIGHTS BLVD	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-7	A	Low		111 E NORTHERN LIGHTS BLVD	Plate 1	ADEC LUST File # L55.98 and Site Name GRAND AUTO SUPPLY #217. Waste oil contamination was discovered in the soils during the removal of a 500-gallon UST in October of 1990. Approximately 45 cubic yards of contaminated soil was excavated from the site and transported offsite. No further action was required and site closure was complete in August of 1992.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-29	A	Low		702 W 32ND AVE # 202	Plate 1	
Closed tanks, gasoline (underground)	T13	T13-1	A	Low		3704 WILSON ST	Plate 1	500-gallon
Printers, publishers, copiers	C37	C37-11	A	Low		341 W TUDOR RD # 206	Plate 1	
Motor / motor vehicle repair shops	C31	C31-4	A	Medium		3207 DENALI ST	Plate 1	
Hardware stores	C17	C17-7	A	Low		341 W TUDOR RD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-3	A	Medium		1408 W 36TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-14	A	Low		4041 B ST # 202	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-5	A	High		301 E NORTHERN LIGHTS BLVD	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-3	A	Low		301 E NORTHERN LIGHTS BLVD	Plate 1	ADEC LUST File # and Site Name HEGEDUS & SONS FIRESTONE. Petroleum soil & shallow groundwater contamination found during gasoline & waste oil tank removal. Amount of product loss unknown. Site closed out unless concrete apron is removed then further action will need to be taken.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-30	A	Low		2909 ARCTIC BLVD # 101	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-3	A	Low		701 SESAME ST # 200	Plate 1	



Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-2	A	Low		4500 BUSINESS PARK BLVD # 18	Plate 1	
Taxidermists	C41	C41-1	A	Low		704 W 45TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-15	A	Low		3333 DENALI ST	Plate 1	
Hardware stores	C17	C17-8	A	Low		1207 W 36TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-16	A	Low		1204 CHUGACH WAY	Plate 1	
Hardware stores	C17	C17-9	A	Low		500 W 41ST AVE	Plate 1	
Hardware stores	C17	C17-10	A	Low		3703 SPENARD RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-31	A	Low		541 W 36TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-17	A	Low		3705 ARCTIC BLVD # 1189	Plate 1	
Jewelers	C19	C19-2	A	Low		1303 W 33RD AVE	Plate 1	
Closed tanks, diesel (underground)	T09	T9-1	A	Low		3202 ARCTIC BLVD.	Plate 1	1,000-gallons, tank closed in place
Motor / motor vehicle repair shops	C31	C31-5	A	Medium		3611 1/2 SPENARD RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-4	A	Low		300 CALAIS DR	Plate 1	
Rubber fabrication or manufacturing	I38	I38-1	A	High		3380 C ST # 205	Plate 1	
Motor / motor vehicle repair shops	C31	C31-6	A	Medium		3330 DENALI ST	Plate 1	
Printers, publishers, copiers	C37	C37-12	A	Low		4220 B ST # 210	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-4	A	Medium		4101 ARCTIC BLVD	Plate 1	
Closed tanks, diesel (underground)	T09	T9-2	A	Low		909 CHUGACH WAY #12	Plate 1	1,000-gallons, closure status unknown
Furniture manufacturing, repair, and finishing shops	C14	C14-5	A	Medium		501 W 41ST AVE	Plate 1	
Printers, publishers, copiers	C37	C37-13	A	Low		700 W 41ST AVE	Plate 1	
Lumber processing and preservation	N04	N4-2	A	Medium		3501 DENALI ST # 202	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-32	A	Low		401 E 36TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-33	A	Low		3501 DENALI ST # 302	Plate 1	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Printers, publishers, copiers	C37	C37-14	A	Low		600 W 41ST AVE # A	Plate 1	
Paint sales /service	C32	C32-1	A	Low		555 W NORTHERN LIGHTS BL # 207	Plate 1	
Machine and metal work shops	I23	I23-1	A	High		200 W 34TH AVE # 979	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-3	A	Medium		3710 SPENARD RD	Plate 1	
Gasoline stations (without repair shop)	C15	C15-4	A	Medium		3201 C ST # 700	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-22	A	Low		2805 DAWSON ST # 100	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-34	A	Low		601 W 41ST AVE # 102	Plate 1	
Jewelry manufacturing	I22	I22-2	A	Low		3300 ARCTIC BLVD	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-1	A	Medium		3737 ARCTIC BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-15	A	Low		601 W 36TH AVE # 7	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-35	A	Low		4101 ARCTIC BLVD	Plate 1	
Body shops (automotive)	C05	C5-4	A	Medium		1104 1/2 W 30TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-18	A	Low		3702 SPENARD RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-36	A	Low		240 E TUDOR RD # 100	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-5	A	Low		3400 SPENARD RD # A	Plate 1	
Tanks, diesel (underground)	T08	T8-3	A	Medium		301 W NORTHERN LIGHTS BLVD	Plate 1	1,500-gallons, cathodically protected with inventory control, ATG and other methods
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-10	A	Low		301 W NORTHERN LIGHTS BLVD	Plate 1	ADEC LUST File # L55.161 and Site Name NATIONAL BANK OF ALASKA Corp HQ. Soil and slight groundwater contamination was discovered during the removal of a 500-gallon diesel UST in November of 1992. Groundwater monitoring wells were installed and contaminated soils were excavated in June of 1993. Contaminated soils were spread onsite due to their low level of contamination. Monitoring wells were decommissioned and site closure was complete on June 22, 1993.
Construction trade areas and materials	C09	C9-19	A	Low		712 W 36TH AVE	Plate 1	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-37	A	Low		3330 EAGLE ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-6	A	Low		3408 ARCTIC BLVD	Plate 1	
Heavy equipment rental/storage	C18	C18-5	A	Medium		4700 BUSINESS PARK BLVD # 19	Plate 1	
Leather processing	C24	C24-1	A	Medium		3605 ARCTIC BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-16	A	Low		4011 ARCTIC BLVD # 103	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-38	A	Low		207 E NORTHERN LIGHTS BL # 201	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-39	A	Low		4101 ARCTIC BLVD	Plate 1	
Hardware stores	C17	C17-12	A	Low		702 W 32ND AVE	Plate 1	
Windshield/glass repair shops	C44	C44-1	A	Low		3221 DENALI ST	Plate 1	
Heavy equipment rental/storage	C18	C18-6	A	Medium		101 W BENSON BLVD # 503	Plate 1	
Construction trade areas and materials	C09	C9-20	A	Low		240 E TUDOR RD # 200	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-4	A	Low		240 E TUDOR RD # 200	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-40	A	Low		3601 C ST # 260	Plate 1	
Construction trade areas and materials	C09	C9-21	A	Low		3510 SPENARD RD # 105	Plate 1	
Metal refining	I28	I28-1	A	High		3406 ARCTIC BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-41	A	Low		4000 CREDIT UNION DR # 600	Plate 1	
Hardware stores	C17	C17-13	A	Low		3209 SPENARD RD	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-8	A	Low		3707 ARCTIC BLVD	Plate 1	ADEC LUST File # 55.103 and Site Name LK COMSTOCK AND COMPANY . Near surface soil contamination was discovered during the removal of one 800-gallon diesel tank and one 1200-gallon gasoline UST in January of 1991. Contaminated soils were excavated and transported offsite for disposal. A groundwater monitoring well installed downgradient of the contaminated area detected no petroleum hydrocarbons. No further action was issued by ADEC in February of 1992.

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Petroleum product bulk station/terminals	X11	X11-1	A	High		3111 C ST # 500	Plate 1	
Heavy equipment rental/storage	C18	C18-7	A	Medium		502 W NORTHERN LIGHTS BLVD	Plate 1	
Dry cleaners	C10	C10-1	A	Medium		2700 A ST	Plate 1	
Injection wells (Class V) Industrial Process Water & Water Disposal Wells	D40	D40-1	A	High		2700 A ST	Plate 1	
Printers, publishers, copiers	C37	C37-17	A	Low		702 W NORTHERN LIGHTS BLVD	Plate 1	
Meat processing	N05	N5-1	A	Low		3701 EUREKA ST # 10B	Plate 1	
Lawn and garden supplies/services	C23	C23-2	A	Low		3807 COPE ST	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-3	A	Low		520 W 41ST AVE # A	Plate 1	
Welding shops	C43	C43-1	A	Medium		3705 ARCTIC BLVD # 111	Plate 1	
Construction trade areas and materials	C09	C9-22	A	Low		1401 W 34TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-23	A	Low		1399 W 34TH AVE # 205	Plate 1	
Motor / motor vehicle repair shops	C31	C31-7	A	Medium		1207 CHUGACH WAY	Plate 1	
Printers, publishers, copiers	C37	C37-18	A	Low		600 W NORTHERN LIGHTS BLVD	Plate 1	
Hardware stores	C17	C17-14	A	Low		702 W 32ND AVE # 101	Plate 1	
Construction trade areas and materials	C09	C9-24	A	Low		1206 W 47TH AVE # A	Plate 1	
Motor / motor vehicle repair shops	C31	C31-8	A	Medium		1106 WILSHIRE AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-1	A	High		1106 WILSHIRE AVE	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-1	A	High		810 W Tudor Road	Plate 1	<i>ADEC Contaminated Sites File # CS92.30 and Site Name AFSC Pipeline Tudor &amp; Arctic . During the investigation of a leaking underground storage tanks at the Texaco station on the corner of Tudor and Arctic in April of 1994, free petroleum product was identified on the water table. The free product was identified as a diesel fuel, specifically jet fuel. Since Texaco did not distribute diesel fuel the suspect source is the jet fuel pipeline located along Arctic Boulevard. Approximately 500 feet of pipeline was removed in May of 2000. Eleven new monitoring wells and a free product recovery well was installed in October of 2000. Quarterly groundwater monitoring continues. This site is ACTIVE.</i>

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Sign manufacturing	I39	I39-2	A	Medium		3909 ARCTIC BLVD	Plate 1	
Paint sales /service	C32	C32-2	A	Low		3705 ARCTIC BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-19	A	Low		3201 C ST # 115	Plate 1	
Hardware stores	C17	C17-15	A	Low		3300 C ST	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-5	A	Low		207 E NORTHERN LIGHTS # 103-A	Plate 1	
Construction trade areas and materials	C09	C9-25	A	Low		3700 SPRINGER ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-7	A	Low		401 W TUDOR RD # C	Plate 1	
Asphalt and tar processing/storage	I03	I3-2	A	Medium		701 W 41ST AVE # 103	Plate 1	
Hardware stores	C17	C17-16	A	Low		3205 SPENARD RD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-6	A	Medium		1107 W 36TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-42	A	Low		3803 MCCAIN LOOP	Plate 1	
Printers, publishers, copiers	C37	C37-20	A	Low		521 W 41ST AVE	Plate 1	
Dry cleaners	C10	C10-2	A	Medium		2811 DAWSON ST	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-11	A	Low		3630 SPRINGER ST	Plate 1	<i>ADEC LUST File # L55.277 and Site Name SUNRISE DISTRIBUTING CO, INC.</i>
Hardware stores	C17	C17-17	A	Low		3695 SPRINGER ST	Plate 1	
Gasoline stations (without repair shop)	C15	C15-2	A	Medium		101 E NORTHERN LIGHTS BLVD	Plate 1	
Tanks, gasoline (underground)	T12	T12-5	A	Medium		101 E NORTHERN LIGHTS BLVD	Plate 1	20,000-gallons, double-walled
Tanks, gasoline (underground)	T12	T12-6	A	Medium		101 E NORTHERN LIGHTS BLVD	Plate 1	15,000-gallons, double-walled
Tanks, diesel (underground)	T08	T8-8	A	Medium		101 E NORTHERN LIGHTS BLVD	Plate 1	15,000-gallon
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-9	A	Low		101 E NORTHERN LIGHTS BLVD	Plate 1	<i>ADEC LUST File # 55.130 and Site Name TESORO NORTHSTORE #72 and BAILEYS RENT ALL (FORMERLY). In October of 1991, soil contamination was discovered during the removal of a diesel, gasoline, and used oil underground tanks (500 gallons each). Contaminated soils were excavated. No further action was issued and site cleanup was complete in September of 1996..</i>
Tanks, diesel (underground)	T08	T8-2	A	Medium		3601 C ST	Plate 1	500-gallons, double-walled, cathodically protected with interstit. Double-wall Monitoring

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-12	A	Low		3601 C ST	Plate 1	ADEC LUST File # L55.327 nfa and Site Name THE FRONTIER BUILDING. Minor soil contamination was discovered during the removal of a 300-gallon diesel UST in February of 1999. Contaminated soils were removed from the excavation. A No Further Action letter written by ADEC on 05 May 1999.
Printers, publishers, copiers	C37	C37-21	A	Low		300 W 36TH AVE	Plate 1	
Seafood processing	N10	N10-3	A	Low		2909 ARTIC BLVD	Plate 1	
Hardware stores	C17	C17-18	A	Low		701 SESAME ST # 102	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-2	A	Medium		341 W TUDOR RD	Plate 1	
Pest extermination services/pesticide sales	C33	C33-2	A	Low		1104 W 30TH AVE	Plate 1	
Lawn and garden supplies/services	C23	C23-3	A	Low		3804 WILSON ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-43	A	Low		701 SESAME ST # 101	Plate 1	
Government vehicle maintenance facilities	X19	X19-3	A	Medium		3301 C ST # 300	Plate 1	
Closed tanks, lubricants or other petroleum products (underground)	T21	T21-1	A	Low		300 E 36TH AVE	Plate 1	500-gallons
Government vehicle maintenance facilities	X19	X19-1	A	Medium		300 E 36TH AVE	Plate 1	
Printers, publishers, copiers	C37	C37-22	A	Low		200 W 34TH AVE # 658	Plate 1	
Pharmacies	C35	C35-2	A	Low		3101 A ST	Plate 1	
Construction trade areas and materials	C09	C9-26	A	Low		3909 ARCTIC BLVD	Plate 1	
Meat processing	N05	N5-2	A	Low		405 W BENSON BLVD	Plate 1	
Construction trade areas and materials	C09	C9-27	A	Low		4101 ARCTIC BLVD # 203	Plate 1	
Motor / motor vehicle repair shops	C31	C31-9	A	Medium		1303 W 33RD AVE	Plate 1	
Construction trade areas and materials	C09	C9-28	A	Low		511 W 41ST AVE	Plate 1	
Jewelry manufacturing	I22	I22-3	A	Low		3300 ARCTIC BLVD	Plate 1	
Gasoline stations (without repair shop)	C15	C15-6	A	Medium		3500 C ST	Plate 1	
Tanks, gasoline (underground)	T12	T12-7	A	Medium		3500 C ST	Plate 1	20,000-gallons, double-walled
Tanks, gasoline (underground)	T12	T12-8	A	Medium		3500 C ST	Plate 1	15,000-gallons, double-walled
Tanks, diesel (underground)	T08	T8-1	A	Medium		3500 C ST	Plate 1	10,000-gallon, double-walled
Gasoline stations (without repair shop)	C15	C15-5	A	Medium		3201 C ST	Plate 1	
Tanks, gasoline (underground)	T12	T12-18	A	Medium		3201 C ST	Plate 1	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Tanks, diesel (underground)	T08	T8-10	A	Medium		3201 C ST	Plate 1	
Gasoline stations (without repair shop)	C15	C15-8	A	Medium		3727 SPENARD RD	Plate 1	
Tanks, gasoline (underground)	T12	T12-1	A	Medium		3727 SPENARD RD	Plate 1	10,000-gallons, double-walled
Tanks, gasoline (underground)	T12	T12-2	A	Medium		3727 SPENARD RD	Plate 1	10,000-gallons, double-walled
Tanks, gasoline (underground)	T12	T12-3	A	Medium		3727 SPENARD RD	Plate 1	10,000-gallons, double-walled
Tanks, gasoline (underground)	T12	T12-4	A	Medium		3727 SPENARD RD	Plate 1	10,000-gallons, double-walled
Tanks, diesel (underground)	T08	T8-11	A	Medium		3727 SPENARD RD	Plate 1	10,000-gallon, double-walled
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-8	A	Medium		3727 SPENARD RD	Plate 1	<i>ADEC LUST File #L.30.30 and Site Name WILLIAMS EXPRESS #5030. A 2,500-gallon heating oil UST was removed from the site in 1991. Confirmation soil samples indicated the presence of petroleum hydrocarbons. Further site characterization work in 1991 confirmed impacted soils and groundwater. In June and July of 1999 soils were excavated to determine severity of the release during tank upgrades (Event ID 2349). Approximately 120 cubic yards of fuel contaminated soil was removed from the excavation and transported offsite for treatment and disposal. To evaluate the magnitude and extent of groundwater contamination, six monitoring wells were installed. Groundwater samples confirmed the presence of elevated petroleum hydrocarbons. On March 22, 2001 gasoline was spilled on-site due to overfilling of the USTs (Event ID 2660). An additional monitoring well was installed and sampled. The results of that sampling verified the presence of petroleum impacted groundwater. It is not apparent whether or not the impacted groundwater is a result of the 2001 spill event, the existing contaminant plume from the former UST excavations on-site or contaminant sources on adjacent properties. A phased approach for addressing groundwater contamination at this site is described in a November 7, 2001 submittal of a Corrective Action Plan (CAP). In the spring of 2002, the CAP will be implemented and will include a combined vapor extraction and air injection system to treat the impacted contaminant source area. Groundwater was sampled in March/April of 2002. The results of those tests are currently not available.</i>
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-44	A	Low		341 W TUDOR RD # 106	Plate 1	
Lubrication shops	C25	C25-1	A	Medium		150 E BENSON BLVD	Plate 1	
Gasoline stations (with repair shop)	C16	C16-3	A	Medium		3304 SPENARD RD	Plate 1	
Tanks, gasoline (underground)	T12	T12-13	A	Medium		3304 SPENARD RD	Plate 1	12,000-gallons, single-walled, Tank Tightness Testing, Inventory Control, ATG, and Groundwater Monitoring
Tanks, gasoline (underground)	T12	T12-14	A	Medium		3304 SPENARD RD	Plate 1	10,000-gallons, single-walled, Tank Tightness Testing, Inventory Control, ATG, and Groundwater Monitoring
Tanks, gasoline (underground)	T12	T12-15	A	Medium		3304 SPENARD RD	Plate 1	10,000-gallons, single-walled, Tank Tightness Testing, Inventory Control, ATG, and Groundwater Monitoring

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Tanks, lubricants or other petroleum products (underground)	T20	T20-2	A	Medium		3304 SPENARD RD	Plate 1	550-gallons, single-walled, Manual Tank Testing, Tank Tightness Testing, and Inventory Control
Tanks, diesel (underground)	T08	T8-5	A	Medium		3304 SPENARD RD	Plate 1	8,000-gallon, single-walled with Auto Line Leak Detection and groundwater monitoring
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-2	A	Low		3304 SPENARD RD	Plate 1	<i>ADEC LUST File # L25.07.44 and Site Name Y &amp; B TEXACO #24.</i> Gasoline and waste oil contamination was encountered in soils during an waste oil UST removal in August of 1988. Approximately 300 cubic yards of soil was excavated and disposed of in an ADEC approved manner. The excavation was then backfilled with clean gravel and sand prior to the installation of the new UST system. Site cleanup was complete in October of 1988.
Tanks, diesel (underground)	T08	T8-4	A	Medium		3600 DENALI ST	Plate 1	1,000-gallons, double-walled
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-13	A	Low		3600 DENALI ST	Plate 1	<i>ADEC LUST File # L69.62 and Site Name Z J LOUSSAC PUBLIC LIBRARY.</i> Minimal soil contamination was discovered during the removal of a 1,000-gallon diesel UST in December of 1997. The tank was removed and a new 1,000-gallon double-walled UST was put in its place. No further action was required by ADEC in September of 1998.
Printers, publishers, copiers	C37	C37-1	A	Low		4011 ARTIC BLVD # 107	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-1	A	Low		3300 C ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-2	A	Low		3601 C ST # 574	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-3	A	Low		3201 C ST # 107	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-4	A	Low		3401 DENALI ST # 203	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-5	A	Low		405 W 36TH AVE # 101	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-6	A	Low		3340 ARCTIC BLVD # 104	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-7	A	Low		3401 DENALI ST # 102	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-8	A	Low		240 E TUDOR RD # 100	Plate 1	



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**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-9	A	Low		3401 DENALI ST # 201	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-10	A	Low		741 SESAME ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-11	A	Low		3401 DENALI ST # 102	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-12	A	Low		3201 C ST # 107	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-13	A	Low		4060 B ST # 110	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-14	A	Low		3900 ARCTIC BLVD # 103	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-15	A	Low		4141 B ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-16	A	Low		4300 B ST # 202	Plate 1	
Residential area	R01	R1-1	A	Low		Zone A Protection Area	3	266 acres
Highways and roads, paved (cement or asphalt)	X20	0-1 - X20	A	Low		All roads in Zone A Protection Area	4	
Residential septic systems (serves one single-family home)	R02	R2-1 - R2-6	A	Low		All septic systems in Zone A Protection Area	5	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-1 - D1-115	A	Low		All sewerlines in Zone A Protection Area	5	
Furniture manufacturing, repair, and finishing shops	C14	C14-7	B	Medium		4841 FAIRBANKS ST # 1	Plate 1	
Gasoline stations (without repair shop)	C15	C15-12	B	Medium		5121 ARCTIC BLVD	Plate 1	
Tanks, gasoline (underground)	T12	T12-38	B	Medium		5121 ARCTIC BLVD	Plate 1	
Tanks, diesel (underground)	T08	T8-31	B	Medium		5121 ARCTIC BLVD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-8	B	High		501 W INTL AIRPORT RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-24	B	Medium		601 W 58TH AVE	Plate 1	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-12	B	High		737 E INTL AIRPORT RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-12	B	Medium		4617 OLD SEWARD HWY	Plate 1	
Printers, publishers, copiers	C37	C37-29	B	Low		549 W INTL AIRPORT RD # 812	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATV's, snow machines (with service department)	C30	C30-5	B	Medium		512 W INTL AIRPORT RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-10	B	Medium		600 Telephone Avenue	Plate 1	
Tanks, gasoline (underground)	T12	T12-28	B	Medium		600 Telephone Avenue	Plate 1	10,000-gallons, double-walled and cathodically protected
Tanks, heating oil, nonresidential (underground)	T16	T16-2	B	Medium		600 Telephone Avenue	Plate 1	1,000-gallons, single-walled. Tank and piping leak detection is unknown.
Tanks, diesel (underground)	T08	T8-19	B	Medium		600 Telephone Avenue	Plate 1	10,000-gallon, double-walled and cathodically protected
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-5	B	Low		600 Telephone Avenue	Plate 1	<i>ADEC Contaminated Sites File # CS 100.155 and Site Name ACS Warehouse.</i> Hydraulic fluid released from a floor lift under the facility building. Approximately 40 cubic yards of soil was reportedly excavated from this area. Analytical results indicate that diesel range organic (DRO) concentrations remaining in the soil were as high as 2,130 mg/kg and residual range organic (RRO) concentration at 6,350 mg/kg. This site is currently INACTIVE.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-20	B	Low		600 Telephone Avenue	Plate 1	<i>ADEC LUST File # L69.21 and Site Name MOA - ANCHORAGE TELEPHONE UTILITY.</i> This is a combination ADEC Contaminated Site (CS 100.155 ) and LUST Site. See Contaminant Source ID Tag U4-5. Petroleum hydrocarbon contamination was found during an underground tank system removal in July of 1991. The tanks and contaminated soils were excavated from the site and cleanup was completed in March of 1993.
Motor / motor vehicle repair shops	C31	C31-25	B	Medium		5610 SILVERADO WAY # A3	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-5	B	Medium		3901 OLD SEWARD HWY	Plate 1	
Heavy equipment rental/storage	C18	C18-18	B	Medium		100 W INTERNATIONAL AIRPORT RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-26	B	Medium		737 E INTL AIRPORT RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-16	B	Low		5235 A ST	Plate 1	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Construction trade areas and materials	C09	C9-37	B	Low		261 E 56TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-38	B	Low		520 W 58TH AVE # J	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-4	B	Low		910 W INTERNATIONAL AIRPORT RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-10	B	Low		4109 OLD SEWARD HWY # 100	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-25	B	High		3200 SEWARD HWY	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-5	B	Low		350 E INTL AIRPORT RD	Plate 1	
Construction trade areas and materials	C09	C9-39	B	Low		720 W 58TH AVE # D	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-50	B	Low		4637 OLD SEWARD HWY	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-6	B	Low		4550 Gambell Street	Plate 1	<i>No ADEC Contaminated Sites File #. Site Name Alaska Club Partners. Drums of petroleum products have spilled over the years creating patches of contamination in the surface and subsurface soil. Contaminated soil are stockpiled (12 cy) and will be transported offsite for thermal treatment in the spring of 2002. Site is currently ACTIVE.</i>
Motor/motor vehicle supplies stores	C28	C28-17	B	Low		552 W 58TH AVE # J	Plate 1	
Construction trade areas and materials	C09	C9-32	B	Low		4953 EAGLE ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-18	B	Low		1200 W INTL AIRPORT RD	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-28	B	Low		1200 W INTL AIRPORT RD	Plate 1	<i>ADEC LUST File # L55.307 and Site Name ALASKA DIESEL ELECTRIC INC. During the removal of a 1,000-gallon gasoline UST in November 1994, soil contamination was discovered below ADEC Level B cleanup levels. The tank was removed and the excavation pit was backfilled with the soil. ADEC issued a No Further Action letter in August of 1998.</i>
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-80	B	Low		540 W INTERNATIONAL AIRPORT RD	Plate 1	
Construction trade areas and materials	C09	C9-40	B	Low		5610 SILVERADO WAY	Plate 1	

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**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-68	B	Low		3546 LATOUCHE ST	Plate 1	
Heavy equipment rental/storage	C18	C18-19	B	Medium		5610 SILVERADO WAY # A7	Plate 1	
Leather processing	C24	C24-2	B	Medium		4417 OLD SEWARD HWY	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-9	B	Medium		144 E POTTER DR	Plate 1	
Battery manufacturing/recycling	I06	I6-2	B	Low		4142 INGRA ST	Plate 1	
Hardware stores	C17	C17-28	B	Low		500 W POTTER DR	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-11	B	Low		500 W POTTER DR	Plate 1	<i>ADEC Contaminated Sites File # CS CS100.65 and Site Name ALASKA HYDRAULICS INC..</i> A citizens complaint was made about used diesel oil being dumped on the adjacent property. The practice had been going on for some time according to the complainant. Contaminated soils were excavated in August of 1991 and no further action was granted in July of 1992. Site is CLOSED.
Hardware stores	C17	C17-20	B	Low		4700 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-41	B	Low		649 W 54TH AVE	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-16	B	High		325 W POTTER DR	Plate 1	<i>ADEC LUST File # L55.174 and Site Name ALASKA NEWS AGENCY.</i> Petroleum contaminated soil and groundwater was encountered during the removal of a 2,000 gallon unleaded gasoline UST in August of 1993. A LUST cleanup grant was received by the responsible party in November of 1997. Soil and groundwater samples taken in May of 1998 indicated that the benzene plume had not migrated more than 60 feet from the UST excavation area. In August of 1998, a soil vapor extraction (SVE) system was tested on-site. ADEC file records show that monitoring wells were last sampled on October 21, 1999. No additional information is available at this time.
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-6	B	Medium		712 W POTTER DR	Plate 1	
Printers, publishers, copiers	C37	C37-30	B	Low		401 W INTL AIRPORT RD # 11	Plate 1	
Heavy equipment rental/storage	C18	C18-20	B	Medium		261 E 56TH AVE # A	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-7	B	Low		700 W 58TH AVE # J	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-81	B	Low		549 W INTL AIRPORT RD # B2	Plate 1	
Motor / motor vehicle repair shops	C31	C31-13	B	Medium		600 E 48TH AVE	Plate 1	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-14	B	High		600 E 48TH AVE	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-6	B	Low		5630 SILVERADO WAY # 8	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-8	B	Low		4651 Gambell Street	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-15	B	Low		4651 Gambell Street	Plate 1	<i>ADEC Contaminated Sites File # CS100.33 and Site Name Alaska Vehicle Accessories. Surficial waste oil contaminated soils containing petroleum and chlorinated hydrocabons was documented in November of 1989. Sludge from the site's automotive workshop oil/water separator was spread in an adjacent alley. Approximately 100 cubic yards of contaminated soils excavated and transported offsite. File exists in CERCLA system but had no EPA ID# assigned. No further action was required as of March 1992. This site is CLOSED.</i>
Motor / motor vehicle repair shops	C31	C31-27	B	Medium		107 E 54TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-23	B	High		107 E 54TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-51	B	Low		3315 FAIRBANKS ST	Plate 1	
Vocational training facilities	X45	X45-1	B	Low		701 E TUDOR RD	Plate 1	
Seafood processing	N10	N10-5	B	Low		1020 W INTL AIRPORT RD	Plate 1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-2	B	Low		4000 OLD SEWARD	Plate 1	
Hardware stores	C17	C17-21	B	Low		3002 SEWARD HWY	Plate 1	
Hardware stores	C17	C17-22	B	Low		999 E TUDOR RD	Plate 1	
Construction trade areas and materials	C09	C9-33	B	Low		5100 CORDOVA ST # 100	Plate 1	
Body shops (automotive)	C05	C5-10	B	Medium		1313 LAONA CIR	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATV's, snow machines (with service department)	C30	C30-7	B	Medium		550 W 54TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-82	B	Low		549 W INTL AIRPORT RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-19	B	Low		552 W 58TH AVE # H	Plate 1	

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**Sources of Volatile Organic Chemicals**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-13	B	High		220 E INTL AIRPORT RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-52	B	Low		4000 OLD SEWARD HWY # 100	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-34	B	High		224 E 54TH AVE	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-22	B	Medium		3300 FAIRBANKS ST	Plate 1	ADEC LUST File # L73.17 and Site Name ANCHORAGE DATA CENTER. Diesel contamination of soils was found when a 2,000-gallon diesel UST was removed in October of 1997. Approximately 35 cubic yards of impacted soil was excavated and transported off-site for thermal treatment. Clean, imported fill material was used to backfill the excavation pit. LUST corrective action was initiated in March of 1998. No additional information is available at this time on the status of groundwater contamination remediation activities at this site.
Heavy equipment rental/storage	C18	C18-15	B	Medium		1415 E TUDOR RD	Plate 1	
Body shops (automotive)	C05	C5-11	B	Medium		117 E 53RD AVE	Plate 1	
Sign manufacturing	I39	I39-3	B	Medium		4600 CORDOVA ST	Plate 1	
Hardware stores	C17	C17-29	B	Low		380 E 54TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-42	B	Low		5401 CORDOVA ST # 203	Plate 1	
Metal fabrication	I25	I25-1	B	High		5621 ARCTIC BLVD	Plate 1	
Hardware stores	C17	C17-30	B	Low		5735 B ST	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATV's, snow machines (with service department)	C30	C30-8	B	Medium		1130 W INTL AIRPORT RD	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATV's, snow machines (with service department)	C30	C30-9	B	Medium		601 W 58TH AVE	Plate 1	
Gasoline stations (with repair shop)	C16	C16-6	B	Medium		1231 Redwood Court	Plate 1	
Tanks, gasoline (underground)	T12	T12-37	B	Medium		1231 Redwood Court	Plate 1	
Tanks, diesel (underground)	T08	T8-28	B	Medium		1231 Redwood Court	Plate 1	
Printers, publishers, copiers	C37	C37-25	B	Low		1108 E NORTHERN LIGHTS BLVD	Plate 1	
Stone and clay processing/manufacturing	I43	I43-1	B	Low		661 E 48TH AVE	Plate 1	

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-7	B	Low		5430 FAIRBANKS ST # 7	Plate 1	
Quarries (sand, gravel, rock, other?)	E10	E10-1	B	Low		314 E INTERNATIONAL AIRPORT RD	Plate 1	
Taxidermists	C41	C41-2	B	Low		520 W 58TH AVE # D	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV s, snow machines, boats (with service department)	C27	C27-6	B	Medium		909 E TUDOR RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-28	B	Medium		600 W 58TH AVE # J	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-8	B	Low		520 W 58TH AVE # F	Plate 1	
Hardware stores	C17	C17-31	B	Low		621 W 54TH AVE	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-11	B	Low		4505 OLD SEWARD HWY	Plate 1	
Aircraft maintenance shops	C01	C1-1	B	Medium		639 W INTL AIRPORT RD # 30	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-23	B	Low		852 W INTERNATIONAL	Plate 1	ADEC LUST File # L55.168 and Site Name B & H PROPERTIES. Soil contamination was found during the closure of a 1,000-gallon gasoline UST in May of 1993. UST excavation soil met ADEC Level B cleanup standards. Approximately 10 cubic yards of contaminated soils were removed from the excavation and transported offsite for thermal treatment. No further action was granted in October of 1993.
Motor vehicle/general storage yards/facilities	X27	X27-3	B	Medium		4640 GAMBELL ST	Plate 1	
Heavy equipment rental/storage	C18	C18-8	B	Medium		4730 BUSINESS PARK BLVD # 44	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-69	B	Low		3730 RHONE CIR	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-9	B	Low		611 E INTL AIRPORT RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-62	B	Low		1515 E TUDOR RD # 3	Plate 1	
Hardware stores	C17	C17-32	B	Low		5801 ARCTIC BLVD	Plate 1	

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**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Hardware stores	C17	C17-23	B	Low		4831 OLD SEWARD HWY # 115	Plate 1	
Heavy equipment rental/storage	C18	C18-9	B	Medium		4111 INGRA ST	Plate 1	
Tanks, heating oil, nonresidential (underground)	T16	T16-3	B	Medium		900 E BENSON BLVD.	Plate 1	15,000-gallons, single-walled. Tank and piping leak detection is unknown.
Tanks, diesel (underground)	T08	T8-20	B	Medium		900 E BENSON BLVD.	Plate 1	4,000-gallon, fiberglass reinforced plastic
Construction trade areas and materials	C09	C9-43	B	Low		401 W INTL AIRPORT RD # 12	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-20	B	Low		549 W INTL AIRPORT RD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-8	B	Medium		3048 REDWOOD ST	Plate 1	
Sign manufacturing	I39	I39-4	B	Medium		5861 ARCTIC BLVD # A	Plate 1	
Printers, publishers, copiers	C37	C37-26	B	Low		1108 E NORTHERN LIGHTS BLVD	Plate 1	
Lumber processing and preservation	N04	N4-3	B	Medium		999 E TUDOR RD # 1	Plate 1	
Meat processing	N05	N5-3	B	Low		324 E INTL AIRPORT RD	Plate 1	
Construction trade areas and materials	C09	C9-44	B	Low		852 W INTERNATIONAL RD # 101	Plate 1	
Motor / motor vehicle repair shops	C31	C31-14	B	Medium		4625 OLD SEWARD HWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-70	B	Low		3315 VASSAR DR	Plate 1	
Heavy equipment rental/storage	C18	C18-10	B	Medium		5100 CORDOVA ST	Plate 1	
Pharmacies	C35	C35-3	B	Low		600 E NORTHERN LIGHTS BLVD	Plate 1	
Machine and metal work shops	I23	I23-2	B	High		700 E 46TH AVE	Plate 1	
Metal fabrication	I25	I25-2	B	High		212 E INTL AIRPORT RD	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-17	B	Low		212 E INTL AIRPORT RD	Plate 1	ADEC LUST File # L55.92 and Site Name CENTRAL PLUMBING & HEATING INC. Gasoline contamination was present in the soil and groundwater during an underground storage tank excavation in August of 1990. Late in 1991, benzene and 1,2-dichloroethane exceeded the MCL for drinking water in one groundwater monitoring well. A total of 139 tons of contaminated soils were removed from the site for thermal treatment. Groundwater monitoring continued through 1995 when ADEC issued a No Further Action letter.
Gasoline stations (with repair shop)	C16	C16-4	B	Medium		2927 SEWARD HWY	Plate 1	
Tanks, diesel (underground)	T08	T8-27	B	Medium		2927 SEWARD HWY	Plate 1	4,000-gallon, single-walled with no leak detection system



Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-10	B	High		2927 SEWARD HWY	Plate 1	ADEC LUST File # L10.01 and Site Name CHEVRON - #91518. Gasoline contaminated soil and groundwater was found when underground storage tanks were removed and monitoring wells installed in September of 1987. Groundwater monitoring wells onsite contained benzene concentrations as high as 7.8 ppm in 1990. Soil vapor extraction (SVE) and air sparge (AS) systems were installed in 1989 to aid in the remediation of the groundwater. The results of tests in 1990 showed that the SVE system was not effective in reducing the contamination to the degree expected. However, benzene levels in monitoring wells have been decreasing with time. The SVE and AS systems were deactivated in 1993 and reactivated in 1999. Quarterly groundwater monitoring continued from 1991 through 1995 and was later reduced to semi-annual monitoring. Monitoring results from the October 2001 sampling period indicates the presence of a contaminant plume that extends off-site approximately 200 feet to the north-northwest. Concentrations of BTEX and gasoline range organics are highest in MW 6 and MW 8, located north of Wendle's Restaurant and the median of the Seward Highway, respectively. These concentrations continue to be above the MCL for drinking water. The next groundwater sampling period is scheduled for May of 2002.
Gasoline stations (without repair shop)	C15	C15-17	B	Medium		2811 New Seward Highway	Plate 1	
Tanks, gasoline (underground)	T12	T12-67	B	Medium		2811 New Seward Highway	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-39	B	Medium		2811 New Seward Highway	Plate 1	ADEC LUST File # L20.06 and Site Name GARRETT'S TESORO #1. In July 1997, a geotechnical investigation identified soil and groundwater contamination associated with two 10,000-gallon gasoline USTs, one 10,000-gallon diesel UST, one 500-gallon used oil UST, one 250-gallon used oil UST, six fuel dispensers, and a vehicle lube pit and sand trap/oil-water separator. Dissolved petroleum hydrocarbons were detected in groundwater monitoring wells onsite. A total of 1,029 tons of petroleum impacted soils were removed during the excavation of the UST systems and transported offsite for thermal treatment. Currently, existing contamination at this site as well as its current UST system (26,000-gallon, three-compartment UST) is being monitored through five (5) groundwater monitoring wells. A soil vapor extraction (SVE) has also been installed to accelerate the remediation of this site. Samples/results taken August 17, 2001 exceeded ADEC Groundwater Cleanup Levels in one well located in the northwest corner of the property (Test Hole MW). Petroleum hydrocarbons were not detected in all other monitoring wells onsite and offsite for this sampling period. This site is monitored semi-annually. Therefore, the next sampling period schedule for this site is May of 2002.
Gasoline stations (with repair shop)	C16	C16-7	B	Medium		815 W INTL AIRPORT RD	Plate 1	
Tanks, gasoline (underground)	T12	T12-29	B	Medium		815 W INTL AIRPORT RD	Plate 1	10,000-gallons, double-walled, Vapor Monitoring, and Auto Line Leak Detection
Tanks, gasoline (underground)	T12	T12-30	B	Medium		815 W INTL AIRPORT RD	Plate 1	10,000-gallons, double-walled, Vapor Monitoring, and Auto Line Leak Detection

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Tanks, gasoline (underground)	T12	T12-31	B	Medium		815 W INTL AIRPORT RD	Plate 1	10,000-gallons, double-walled, Vapor Monitoring, and Auto Line Leak Detection
Tanks, heating oil, nonresidential (underground)	T16	T16-7	B	Medium		815 W INTL AIRPORT RD	Plate 1	1,000-gallons, single-walled, Manual Tank Testing, Tank Tightness Testing, and Inventory Control.
Tanks, diesel (underground)	T08	T8-21	B	Medium		815 W INTL AIRPORT RD	Plate 1	40-gallons
Tanks, diesel (underground)	T08	T8-22	B	Medium		815 W INTL AIRPORT RD	Plate 1	40-gallons
Tanks, diesel (underground)	T08	T8-23	B	Medium		815 W INTL AIRPORT RD	Plate 1	40-gallons
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-19	B	High		815 W INTL AIRPORT RD	Plate 1	<i>ADEC LUST File #L10.20 and Site Name CHEVRON - 96585.</i> Soil and groundwater contamination was discovered in July of 1997 stemming from a leaking 1,000-gallon used oil UST. A total of 108.6 tons of hydrocarbon contaminated soil was excavated and exported off-site for treatment by thermal desorption. Three groundwater monitoring wells were installed on-site of determine the direction of groundwater flow and characterize the magnitude and extent of contamination in the unconfined aquifer. Samples taken from monitoring wells in May of 2001 indicated elevated levels of petroleum hydrocarbons including MTBE (0.278+ ppb), all above Category A Cleanup Levels for groundwater. The extent of groundwater contamination has not been fully characterized at this site. In response to this, Chevron plans on installing additional monitoring wells. No information is available at this time with regards to the plan for new monitoring well installation as well as the results of samples taken in September of 2001.
Photography supplies/photo processing laboratories	C36	C36-6	B	Low		5401 CORDOVA ST # 204	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-10	B	Medium		700 W 58TH AVE # J	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-10	B	Medium		5401 OLD SEWARD HWY	Plate 1	
Motor / motor vehicle repair shops	C31	C31-29	B	Medium		501 W INTL AIRPORT RD # 19	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-6	B	Low		4710 BUSINESS PARK BLVD # 24	Plate 1	
Hardware stores	C17	C17-33	B	Low		5401 CORDOVA ST # 302	Plate 1	
Heavy equipment rental/storage	C18	C18-11	B	Medium		4710 BUSINESS PARK BLVD	Plate 1	
Windshield/glass repair shops	C44	C44-2	B	Low		4900 FAIRBANKS ST	Plate 1	
Construction trade areas and materials	C09	C9-29	B	Low		4950 FAIRBANKS ST	Plate 1	

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**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-24	B	High		4950 FAIRBANKS ST	Plate 1	ADEC LUST File # L55.181 and Site Name COMMERCIAL CONTRACTORS, INC. Soil and groundwater contamination was discovered in November of 1993 associated with a leaking 1,000-gallon gasoline UST. Approximately 27 tons of contaminated soil were excavated and transported offsite for thermal treatment. A soil venting system was installed when the excavation pit was backfilled. In May of 1999, three groundwater monitoring wells were installed to determine the extent and magnitude of contamination. Groundwater at the site was encountered at 6.5 feet below ground surface. In each of the three monitoring wells, petroleum hydrocarbon constituents were detected at levels exceeding the ADEC groundwater cleanup levels. The release investigation recommended the installation of three additional monitoring wells to more adequately assess downgradient impacts of this contamination. Currently, the responsible party is seeking a grant to fund cleanup efforts at this site.
Recycling and waste reduction facilities	D57	D57-1	B	Medium		750 E INTL AIRPORT RD	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-8	B	Low		200 W POTTER DR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-53	B	Low		550 E TUDOR RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-15	B	Medium		5001 OLD SEWARD HWY	Plate 1	
Motor / motor vehicle repair shops	C31	C31-16	B	Medium		4940 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-19	B	High		4940 OLD SEWARD HWY	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-18	B	Low		4940 OLD SEWARD HWY	Plate 1	ADEC LUST File # L55.09 and Site Name CONTINENTAL MOTOR CO. Soil and groundwater contamination was discovered in September of 1990 in association with a waste oil tank that had a fill pipe connection separated for unknown amount of time. Contaminated soils were excavated and removed offsite for thermal treatment. Groundwater monitoring wells were installed to determine the extent of contamination in the unconfined aquifer. Petroleum hydrocarbons were monitored through the wells until it was determined that concentrations were below MCL's. Corrective actions were complete and no further action was issued by ADEC in January of 1991.
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-10	B	Low		5660 B ST	Plate 1	
Printers, publishers, copiers	C37	C37-31	B	Low		5401 CORDOVA ST # 304	Plate 1	

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Laboratories (chemical, soils, and research)	C20	C20-9	B	Low		600 W 58TH AVE # D	Plate 1	
Construction trade areas and materials	C09	C9-34	B	Low		212 E 51ST AVE	Plate 1	
Motor / motor vehicle repair shops	C31	C31-17	B	Medium		4510 GAMBELL ST	Plate 1	
Hardware stores	C17	C17-34	B	Low		5333 FAIRBANKS ST	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV s, snow machines, boats (with service department)	C27	C27-4	B	Medium		4404 Old SEWARD HWY	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-14	B	Low		4404 Old SEWARD HWY	Plate 1	<i>ADEC LUST File # L55.33 and Site Name Nissan/Jeep/Eagle dealership (Culhane Tudor &amp; Old Seward). Soil and shallow groundwater contaminated with petroleum hydrocarbons were found during 1a November 1988 site assessment. Approx. 1,100 cubic yards contaminated soils removed. An additional 700 cubic yards were transported offsite to be used in a cold asphalt emulsion mix in May of 1992. A no further action letter was issued upon receipt of this documentation and site closure was complete.</i>
Motor/motor vehicle supplies stores	C28	C28-12	B	Low		854 E 36TH AVE	Plate 1	
Motor / motor vehicle repair shops	C31	C31-30	B	Medium		501 W POTTER DR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-71	B	Low		3707 RHONE CIR	Plate 1	
Hardware stores	C17	C17-35	B	Low		600 W 58TH AVE # G	Plate 1	
Motor / motor vehicle repair shops	C31	C31-18	B	Medium		4651 GAMBELL ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-54	B	Low		2706 FAIRBANKS ST # 4	Plate 1	
Construction trade areas and materials	C09	C9-45	B	Low		5330 CORDOVA ST	Plate 1	
Hardware stores	C17	C17-36	B	Low		700 W INTL AIRPORT RD BLDG B	Plate 1	
Hardware stores	C17	C17-24	B	Low		333 E TUDOR RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-11	B	Medium		239 E INTERNATIONAL AIRPORT R	Plate 1	

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**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-21	B	Low		239 E INTERNATIONAL AIRPORT R	Plate 1	ADEC LUST File # L55.154 and Site Name Chevron - Earls RV Center. Waste oil and mixed hydrocarbon contaminated soil was encountered during the removal of two 1,000-gallon used oil USTs. Concentrations of total petroleum hydrocarbons in soils were as high as 27,200 ppm. In addition, 1,2-dichlorobenzene was found in the soil at a concentration of 0.35 ppm as well as low levels of lead, arsenic, and chromium. An estimated 27 cubic yards of contaminated soils were transported offsite for disposal. The excavation pit was then backfilled with clean, imported fill material. Some low levels of contamination remains beneath the excavation pit, but are below the ADEC Level A Cleanup Standards. Site closure was accomplished in November of 1992 when ADEC issued a No Further Action letter.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-24	B	Low		401 E. INTERNATIONAL AIRPORT RD	Plate 1	ADEC LUST File # L55.169 and Site Name ENSTAR - ANCHORAGE OPERATIONS CENTER. Diesel contaminated soils and groundwater were found during an UST removal in May of 1993. Approximately 111 cubic yards of contaminated soils were excavated and disposed of at AK Soil Recycling for thermal treatment. Groundwater and soils were determined to be below ADEC cleanup levels and a No Further Action letter was issued in November of 1999.
Motor / motor vehicle repair shops	C31	C31-31	B	Medium		5740 B ST	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-10	B	Low		520 W 58TH AVE	Plate 1	
Heavy equipment rental/storage	C18	C18-21	B	Medium		5701 SILVERADO WAY # J	Plate 1	
Motor / motor vehicle repair shops	C31	C31-19	B	Medium		3606 OLD SEWARD HWY	Plate 1	
Motor / motor vehicle repair shops	C31	C31-32	B	Medium		600 W 58TH AVE # A	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-30	B	High		600 W 58TH AVE # A	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-14	B	Medium		4908 OLD SEWARD HWY	Plate 1	ADEC LUST File # L55.40 and Site Name EUROPEAN MOTORS. Soil contamination was discovered during the removal of a 500-gallon used oil UST in September of 1992. Soil boring near tank found significant contamination (22,000 ppm TPH, 13,000 ppm DRO, 520 ppm GRO, 180 ppm BTEX, 3.4 ppm benzene) in saturated soil samples. In May of 1994, approximately 72.25 tons of impacted soils were excavated and transported offsite for thermal processing. A request for submittal of a Work Plan for addressing elevated levels of soil contamination in March of 2001. That submittal is currently overdue. No additional information is available at this time.

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**Potential and Existing Sources of Contamination for MOA Well #12**  
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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-55	B	Low		5121 ARCTIC BLVD # E	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-73	B	Low		3730 RHONE CIR # 102	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-11	B	Low		123 E INTL AIRPORT RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-21	B	Low		202 E INTL AIRPORT RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-33	B	High		202 E INTL AIRPORT RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-33	B	Medium		209 E INTERNATIONAL AIRPORT RD	Plate 1	
Body shops (automotive)	C05	C5-12	B	Medium		230 E 54TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-74	B	Low		3238 LATOUCHE ST # H10	Plate 1	
Seafood processing	N10	N10-4	B	Low		5011 ARCTIC BLVD # I	Plate 1	
Heavy equipment rental/storage	C18	C18-22	B	Medium		700 W INTL AIRPORT RD	Plate 1	
Pharmacies	C35	C35-4	B	Low		1000 E NORTHERN LIGHTS BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-32	B	Low		639 W INTL AIRPORT RD # 36	Plate 1	
Gasoline stations (with repair shop)	C16	C16-8	B	Medium		724 W INTL AIRPORT RD	Plate 1	
Tanks, gasoline (underground)	T12	T12-20	B	Medium		724 W INTL AIRPORT RD	Plate 1	12,000-gallons, double-walled, Tank Tightness Testing and Inventory Control
Tanks, gasoline (underground)	T12	T12-21	B	Medium		724 W INTL AIRPORT RD	Plate 1	12,000-gallons, double-walled, Tank Tightness Testing and Inventory Control
Tanks, diesel (underground)	T08	T8-14	B	Medium		724 W INTL AIRPORT RD	Plate 1	10,000-gallon, double-walled and cathodically protected

Table 4

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-11	B	High		724 W INTL AIRPORT RD	Plate 1	ADEC LUST File # L20.06 and Site Name GARRETT'S TESORO. Significant soil and groundwater contamination was discovered in 1988 and 1989 in association with the filler pipes of a 12,000-gallon gasoline UST. In July of 1990, four to five feet of floating product was documented on water table at this site. A vapor extraction system was installed to help aid in the remediation of the site in January of 1994. Contaminated groundwater was also pumped and treated beginning in February of 1994. Quarterly groundwater and VES reports were submitted to ADEC from 1994 through 1995. No additional information is available at this time.
Motor / motor vehicle repair shops	C31	C31-20	B	Medium		4831 FAIRBANKS ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-10	B	High		4831 FAIRBANKS ST	Plate 1	
Construction trade areas and materials	C09	C9-46	B	Low		119 E 54TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-75	B	Low		3708 RHONE CIR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-76	B	Low		3730 RHONE CIR # 203	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-83	B	Low		501 W INTL AIRPORT RD # 1A	Plate 1	
Pharmacies	C35	C35-5	B	Low		3730 RHONE CIR # 105	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-77	B	Low		3606 RHONE CIR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-78	B	Low		3730 RHONE CIR # 100	Plate 1	

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-19	B	Low		5801 SILVERADO WAY	Plate 1	ADEC LUST File # L55.61 and Site Name Hanaman Warehouse. Soil and groundwater was discovered during the removal of a 1000-gallon diesel, a 1000-gallon gasoline and a 2000-gallon gasoline UST in August of 1990. Approximately 95 tons of contaminated soil were excavated and transport offsite for disposal. The excavation was then backfilled with clean fill material. One groundwater monitoring well was installed and showed only low levels of petroleum hydrocarbon contamination (approximately 1% of the MCL for BTEX in September 1990). Existing soil contamination during this same sampling period showed petroleum hydrocarbons were 11.2 ppm and 12% above ADEC Cleanup Levels for soils. Site cleanup was complete in March of 1991 and the monitoring well was decommissioned in August.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-22	B	Low		5801 SILVERADO WAY	Plate 1	ADEC LUST File # L55.61 and Site Name Halliburton Geophysical Services Incorporated. Soil and groundwater contamination was discovered during the removal of a 500-gallon used oil UST that leaked adjacent to the warehouse on the property in April of 1993. A groundwater monitoring well was installed and sampled in July of 1993. Groundwater samples indicated low levels of petroleum hydrocarbons, however, they were inferred as being the result of biochemical decomposition of organics within the soils and were deemed naturally occurring. Based on the sampling that occurred during this sampling period, a No Further Action letter was issued by ADEC in August of 1993.
Jewelry manufacturing	I22	I22-4	B	Low		4300 OLD SEWARD HWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-84	B	Low		601 W 58TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-47	B	Low		401 W INTL AIRPORT RD # 31	Plate 1	
Construction trade areas and materials	C09	C9-35	B	Low		1011 E TUDOR RD # 100	Plate 1	
Hardware stores	C17	C17-37	B	Low		5501 A ST	Plate 1	
Printers, publishers, copiers	C37	C37-33	B	Low		360 E INTL AIRPORT RD # 6	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-7	B	Low		700 W 58TH AVE # D	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-12	B	Low		341 E 56TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-48	B	Low		550 W 54TH AVE	Plate 1	



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Construction trade areas and materials	C09	C9-49	B	Low		5326 A ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-22	B	Low		626 E INTL AIRPORT RD	Plate 1	
Gasoline stations (with repair shop)	C16	C16-9	B	Medium		5210 OLD SEWARD HWY	Plate 1	
Tanks, gasoline (underground)	T12	T12-25	B	Medium		5210 OLD SEWARD HWY	Plate 1	15,000-gallons, double-walled, Tank Tightness Testing, Inventory Control, and ATG
Tanks, gasoline (underground)	T12	T12-26	B	Medium		5210 OLD SEWARD HWY	Plate 1	15,000-gallons, double-walled, Tank Tightness Testing, Inventory Control, and ATG
Tanks, gasoline (underground)	T12	T12-27	B	Medium		5210 OLD SEWARD HWY	Plate 1	15,000-gallons, double-walled, Tank Tightness Testing, Inventory Control, and ATG
Tanks, diesel (underground)	T08	T8-15	B	Medium		5210 OLD SEWARD HWY	Plate 1	40-gallons
Tanks, diesel (underground)	T08	T8-16	B	Medium		5210 OLD SEWARD HWY	Plate 1	40-gallons
Tanks, diesel (underground)	T08	T8-17	B	Medium		5210 OLD SEWARD HWY	Plate 1	40-gallons
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-21	B	High		5210 OLD SEWARD HWY	Plate 1	<i>ADEC LUST File # L10.19 and Site Name HANSON'S CHEVRON #95414.</i> In April and May of 1996, five (5) USTs were removed from this property. These included two 10,000-gallon gasoline, one 5,000-gallon gasoline, one 1,000-gallon diesel, and one 1,000-gallon used oil USTs. During the excavation of the tanks and the removal of the piping system and pump island dispensers, soil and groundwater contamination was discovered. Approximately, 1,500 tons of petroleum impacted soils were removed from the site and exported offsite for treatment. In August of 1998, three groundwater monitoring wells were installed to determine the magnitude and extent of contamination of the unconfined aquifer. Since then, three additional monitoring wells have been developed to assess off-property impacts. Recent groundwater monitoring results (September 25, 2001) indicate petroleum hydrocarbons have migrated off-site to the adjacent property to the west. Concentrations of diesel range organics, gasoline range organics, and benzene in MW-5 were 1.6 ppm, 0.245 ppm, and 0.023 ppm, respectively. Groundwater quality
Lumber processing and preservation	N04	N4-5	B	Medium		424 W 54TH AVE	Plate 1	

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Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-20	B	High		4617 OLD SEWARD HWY	Plate 1	ADEC LUST File # L55.255 and Site Name HAROLD'S RENT-A-TRUCK, INC. Soil and groundwater contamination was discovered in November of 1996 during the removal of two (2) 4,500-gallon gasoline UST. Approximately 100 cubic yards of petroleum hydrocarbon contaminated soils were excavated and stockpiled onsite. One groundwater monitoring well was installed south of the excavation. Results of sampling indicated that benzene was present above ADEC cleanup levels for drinking water. However, a deeper drinking water well onsite was sampled and was found free of contamination. ADEC requested a quarterly groundwater monitoring and stockpile sampling report in May of 1999. No additional information is available at this time on the status of conditions at this site.
Motor vehicle/general storage yards/facilities	X27	X27-4	B	Medium		4617 OLD SEWARD HWY	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-13	B	Low		4109 OLD SEWARD HWY	Plate 1	
Hardware stores	C17	C17-38	B	Low		220 E INTERNATIONAL AIRPORT RD	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-4	B	Medium		4240 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-50	B	Low		436 W POTTER DR	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-32	B	High		436 W POTTER DR	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-14	B	Low		144 E 53rd Avenue	Plate 1	ADEC Contaminated Sites File # CS100.31 and Site Name Hirsch Porsche/Audi Repair. A waste oil spill of approximately 50-100 gallons was reported on April 24, 1989. Contaminated soils were excavated and transported offsite. After ADEC review of sampling techniques, analysis and results of the samples taken during excavation, the site does not appear to pose an immediate health hazard to the local population or a serious threat to the groundwater. ADEC reserves the right to request appropriate soil or groundwater assessment and remediation if additional information is found which indicates that the groundwater or soil is contaminated. No further action was required as of September of 1991. This site is CLOSED.
Laboratories (chemical, soils, and research)	C20	C20-11	B	Low		5630 SILVERADO WAY # A2	Plate 1	
Hardware stores	C17	C17-25	B	Low		515 E TUDOR RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-85	B	Low		500 W INTL AIRPORT RD # C	Plate 1	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Taxidermists	C41	C41-3	B	Low		822 W INTL AIRPORT RD	Plate 1	
Printers, publishers, copiers	C37	C37-34	B	Low		650 W INTERNATIONAL AIRPORT RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-23	B	Low		552 W 58TH AVE # A	Plate 1	
Orchards or nurseries	A10	A10-2	B	Low		5333 A ST	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-16	B	Low		201 E 56TH ST, SUITE 300	Plate 1	<i>ADEC LUST File # L55.64 and Site Name INTERIOR TELEPHONE COMPANY.</i> Petroleum hydrocarbon contaminated soil was identified during an October 1989 removal of a 2,000-gallon gasoline UST. Approximately 60 cubic yards of contaminated soils were excavated from the site and transported to the Anchorage Municipal Landfill for disposal. Test results showed no detectable petroleum hydrocarbons in the excavation pit. No Further Action was required for this site after February of 1991 when the site was closed.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-31	B	High		A ST & INTL AIRPORT RD	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-17	B	Medium		512 W. International	Plate 1	<i>ADEC Contaminated Sites File # CS100.207 and Site Name Interstate Exploration.</i> Petroleum hydrocarbon contamination of soil and groundwater resulting from a floor drain and sump was discovered in 1999. A site characterization workplan was approved in January of 2002 by ADEC and corrective action has begun. This site is currently ACTIVE.
Jewelers	C19	C19-3	B	Low		600 E NORTHERN LIGHTS BLVD	Plate 1	
Body shops (automotive)	C05	C5-6	B	Medium		4700 GAMBELL ST	Plate 1	
Car washes with engine or undercarriage cleaning	C08	C8-2	B	Medium		4551 FAIRBANKS ST	Plate 1	
Body shops (automotive)	C05	C5-7	B	Medium		4434 OLD SEWARD HWY	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV <del>s</del> , snow machines, boats (without service department)	C26	C26-1	B	Medium		4748 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-20	B	High		4748 OLD SEWARD HWY	Plate 1	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-17	B	High		4748 OLD SEWARD HWY	Plate 1	ADEC LUST File # L55.192 and Site Name JOHNSON NISSAN. Gasoline contaminated soils and groundwater were encountered during the removal of two (2) 5,000-gallon (diesel and gasoline) USTs in August of 1994. In July 1996, approximately 550 tons of petroleum-contaminated soil was exported off-site for thermal treatment. A total of fifteen (15) groundwater monitoring wells were installed to determine the magnitude and extent of groundwater contamination at this site and adjacent properties. Results of groundwater sampling in November 1999 indicated significant levels of petroleum hydrocarbons in downgradient monitoring wells. However, not all monitoring wells were sampled at that time. It appears a contaminant plume emanating from this site has traveled downgradient to the south-southeast toward the property at 4800 Old Seward Highway. To further assess downgradient/off-site impacts of contamination from this site, the third party contractor for the responsible party will be installing and sampling two additional monitoring wells in the spring of 2002.
Hardware stores	C17	C17-39	B	Low		549 W INTL AIRPORT RD # A15	Plate 1	
Hardware stores	C17	C17-40	B	Low		126 W INTL AIRPORT RD	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-8	B	Low		219 E INTL AIRPORT RD	Plate 1	
Hardware stores	C17	C17-41	B	Low		510 W 53RD AVE	Plate 1	
Hardware stores	C17	C17-42	B	Low		360 E INTL AIRPORT RD	Plate 1	
Printers, publishers, copiers	C37	C37-27	B	Low		3597 VASSAR DR	Plate 1	
Motor / motor vehicle repair shops	C31	C31-34	B	Medium		400 W 53RD AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-15	B	High		400 W 53RD AVE	Plate 1	
Recycling and waste reduction facilities	D57	D57-2	B	Medium		111 E 56TH AVE	Plate 1	
Boat yards and marinas	X15	X11-7	B	Low		536 E 48TH AVE	Plate 1	
Motor / motor vehicle repair shops	C31	C31-35	B	Medium		512 W INTL AIRPORT RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-28	B	High		512 W INTL AIRPORT RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-86	B	Low		1205 E INTERNATIONAL RD # 103	Plate 1	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-16	B	Medium		620 E. Int'l Airport Road	Plate 1	<i>ADEC Contaminated Sites File # CS100.17 and Site Name M &amp; M Enterprises - Int'l Airport Rd.</i> Soil and groundwater contamination was documented at this site in August of 1989 in association with an old metal, battery, and copper wire recycling business. In October 1989, polychlorinated biphenols (PCBs) above ADEC cleanup levels were detected in two soil samples at 15.3 and 93.4 ppm as well as lead at 140 to 211 ppm. Groundwater samples indicated 0.053 ppm lead during this same sampling period. Currently, a corrective action plan is being established to determine the best available technology for cleanup of this site. This site is ACTIVE.
Body shops (automotive)	C05	C5-8	B	Medium		4973 EAGLE ST	Plate 1	
Hardware stores	C17	C17-26	B	Low		1700 OXFORD DR	Plate 1	
Machine and metal work shops	I23	I23-3	B	High		5440 B ST	Plate 1	
Gasoline stations (without repair shop)	C15	C15-9	B	Medium		5159 OLD SEWARD HWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-12	B	High		5159 OLD SEWARD HWY	Plate 1	<i>ADEC LUST File # L30.04 and Site Name MAPCO - EXPRESS #5004.</i> Petroleum hydrocarbon contamination was detected in soils and groundwater during a September 1987 site assessment. In groundwater samples taken in July of 1990 petroleum hydrocarbons were detected above MCLs. Also detected during that sampling period was tetrachloroethylene (PCE) at a concentration of 0.022 ppm. Approximately 47 gallons of free product was removed from the surface of the water table in October 1991. Three (3) USTs were removed from the site in June of 1992, which included two 10,000-gallon gasoline and one 5,000-gallon USTs. Groundwater monitoring wells were installed onsite to determine the magnitude and extent of contamination. A combined vapor extraction and air injection system (VEAIS) was installed in October 1992. In November of 1992, 50 cubic yards of contaminated soils were removed from the road right-of-way that were discovered during the repair of a AWWU waterline break. Groundwater samples/results from May 2001 indicate elevated levels of gasoline range organics (GRO), diesel range organics (DRO), residual range organics (RRO), benzene, ethylbenzene, and xylenes in monitoring wells onsite. Results indicate only DRO and RRO in monitoring wells south of the property. The results of the September 2001 semi-annual sampling period indicate and increase in benzene concentration within one monitoring well onsite (GCMW; 3 ppm). However, petroleum hydrocarbons in monitoring wells located across International Airport Road south of the LUST site demonstrated a decrease in most constituents. The next semi-annual groundwater testing was schedule for March 2002. The results of those test are currently not available.

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-9	B	Low		300 E. 54th Avenue	Plate 1	<i>ADEC Contaminated Sites File # CS100.145 and Site Name Martech USA, Inc.</i> Petroleum hydrocarbon contamination of soil and groundwater from several pollution sources identified on the property in a site assessment report received by ADEC in November of 1994. Groundwater monitoring wells were installed to delineate and monitor contamination. Site closure was granted by ADEC (July of 2001) after quarterly monitoring established groundwater contaminant levels were decreasing and were below the most stringent cleanup levels for the contaminant of concern, diesel range organics (DRO). File documentation of soil contaminant levels indicate no contaminated soils remain on site that exceed the most stringent method two cleanup levels found in Tables B-1 and B-2 of 18 AAC 75.341 "Soil Cleanup Levels: Tables." This site is CLOSED.
Motor / motor vehicle repair shops	C31	C31-36	B	Medium		110 E 54TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-27	B	High		110 E 54TH AVE	Plate 1	
Motor / motor vehicle repair shops	C31	C31-21	B	Medium		4800 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-51	B	Low		720 W 58TH AVE # E	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-49	B	Low		625 E 34TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-72	B	Low		3500 LATOUCHE ST # 200	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-16	B	High		3200 SEWARD HWY	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-5	B	Low		3901 OLD SEWARD HWY	Plate 1	
Motor / motor vehicle repair shops	C31	C31-22	B	Medium		711 E NORTHERN LIGHTS BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-35	B	Low		5445 OLD SEWARD HWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-87	B	Low		5313 ARCTIC BLVD # 101	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-56	B	Low		3315 FAIRBANKS ST	Plate 1	
Hardware stores	C17	C17-43	B	Low		510 E INTL AIRPORT RD	Plate 1	
Construction trade areas and materials	C09	C9-52	B	Low		300 E 54TH AVE	Plate 1	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-11	B	Medium		550 W 54TH AVE	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-10	B	Low		165 E 56th Avenue	Plate 1	<i>ADEC Contaminated Sites File # CS100.103 and Site Name Mutual of New York.</i> Diesel contaminated soils were found on site below ADEC guidelines in 1993. A remedial action sampling results report dated August 17, 1993, noted that all contamination was below site cleanup levels. Based on this information, site closure was granted in September of 1993. This site is CLOSED.
Heavy equipment rental/storage	C18	C18-16	B	Medium		1001 E BENSON BLVD	Plate 1	
Construction trade areas and materials	C09	C9-53	B	Low		5610 SILVERADO WAY # 6	Plate 1	
Heavy equipment rental/storage	C18	C18-12	B	Medium		4700 BUSINESS PARK BLVD # 19	Plate 1	
Seafood processing	N10	N10-6	B	Low		1304 LAONA CIR	Plate 1	
Hardware stores	C17	C17-44	B	Low		5410 FAIRBANKS ST	Plate 1	
Construction trade areas and materials	C09	C9-36	B	Low		4970 FAIRBANKS ST	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-18	B	High		4510 GAMBELL ST	Plate 1	<i>ADEC LUST File # L55.122 and Site Name NORTHERN HYDRAULICS LTD .</i> A site assessment conducted near a 500-gallon used oil UST in October of 1995 identified soil contamination that extended to groundwater. An UST Closure report dated February 1997, noted high levels of soil contamination (up to 12,800 ppm DRO, 16,800 ppm RRO, 144 ppm GRO, and 0.287 ppm benzene) and groundwater contamination (26.9 ppm DRO and 9.66 ppb benzene). Groundwater sampling results from two monitoring wells on-site indicated that contamination was still present (up to 0.0047 ppm benzene, 36.7 ppm DRO, and 28.7 ppm RRO). ADEC requested quarterly groundwater monitoring to continue in October of 1998. No additional information is currently available on the results of subsequent sampling periods.
Heavy equipment rental/storage	C18	C18-17	B	Medium		1406 MATTERHORN WAY	Plate 1	
Dry cleaners	C10	C10-3	B	Medium		601 E NORTHERN LIGHTS BLVD # J	Plate 1	
Injection wells (Class V) Industrial Process Water & Water Disposal Wells	D40	D40-2	B	High		601 E NORTHERN LIGHTS BLVD # J	Plate 1	
Seafood processing	N10	N10-7	B	Low		163 E 54TH AVE	Plate 1	
Printers, publishers, copiers	C37	C37-36	B	Low		5701 SILVERADO WAY # K	Plate 1	
Hardware stores	C17	C17-45	B	Low		220 CENTER CT	Plate 1	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Gasoline stations (with repair shop)	C16	C16-5	B	Medium		854 E 36TH AVE	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-9	B	High		854 E 36TH AVE	Plate 1	ADEC LUST File # L20.02-2 and Site Name OLSONS GAS - #2. In December 1987, during installation of a light pole, employees of City Electric Co. noted a gasoline odor and lit torch causing an explosion. Soil and groundwater contamination was found. LUST cleanup began in July of 1995 following the failure of Tank Tightness Tests in March of that year. Two 12,000-gallon gasoline USTs and one 2,00-gallon diesel UST and associated dispenser islands were removed in July 1995. Three on-site and three off-site groundwater monitoring wells were installed in 1995 to aid in the determination of the direction of groundwater flow as well as the magnitude and extent of groundwater contamination emanating from the former UST system. Since 1995, five (5) additional groundwater monitoring wells have been installed off-site to aid in the delineation of the contaminant plume. Groundwater samples/results from May 2001 indicate that benzene, xylenes, and gasoline range organics (GRO) have traveled approximately 450 feet north-northwest of the former UST system (B2MW - 0.046 ppm benzene). However historical benzene concentrations show a marked decrease since sampling began in 1995. A soil vapor extraction (SVE) and air sparging (AS) systems have been installed to expedite the remediation of contaminated soils on-site. Groundwater samples are obtained on a semi-annual basis at this site. Results of samples taken in December 2001 indicated that three of five groundwater samples tested above the MCL for benzene (as high as 0.0603 ppm benzene (MCL = 0.005 ppm benzene). Semi-annual groundwater monitoring will continue at this site.
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-10	B	Medium		4908 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-18	B	High		4908 OLD SEWARD HWY	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-7	B	Medium		5159 OLD SEWARD HWY	Plate 1	
Lumber processing and preservation	N04	N4-4	B	Medium		128 E 51ST AVE	Plate 1	
Machine and metal work shops	I23	I23-4	B	High		360 E INTL AIRPORT RD # 12	Plate 1	
Motor / motor vehicle repair shops	C31	C31-37	B	Medium		665 W POTTER DR	Plate 1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-1	B	Low		665 W POTTER DR	Plate 1	



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**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Heavy equipment rental/storage	C18	C18-23	B	Medium		720 W 58TH AVE # H	Plate 1	
Car washes with engine or undercarriage cleaning	C08	C8-3	B	Medium		4551 FAIRBANKS ST	Plate 1	
Printers, publishers, copiers	C37	C37-37	B	Low		401 W INTL AIRPORT RD # 37	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-57	B	Low		3315 FAIRBANKS ST	Plate 1	
Printers, publishers, copiers	C37	C37-38	B	Low		360 E INTERNATIONAL RD # 6	Plate 1	
Construction trade areas and materials	C09	C9-54	B	Low		610 W 54TH AVE	Plate 1	
Quarries (sand, gravel, rock, other?)	E10	E10-2	B	Low		300 E 54TH AVE	Plate 1	
Heavy equipment rental/storage	C18	C18-24	B	Medium		5801 SILVERADO WAY	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-12	B	Low		5801 SILVERADO WAY	Plate 1	ADEC Contaminated Sites File # CS100.220 and Site Name POOL ARCTIC ALASKA. 255 cubic yards of DRO contaminated soil. Site is ACTIVE.
Windshield/glass repair shops	C44	C44-3	B	Low		4141 INGRA ST # B	Plate 1	
Windshield/glass repair shops	C44	C44-4	B	Low		720 W 58TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-26	B	High		4820 FAIRBANKS ST	Plate 1	
Body shops (automotive)	C05	C5-13	B	Medium		701 W POTTER DR	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-24	B	Low		5801 SILVERADO WAY	Plate 1	
Motor / motor vehicle repair shops	C31	C31-38	B	Medium		601 W 58TH AVE # M	Plate 1	
Motor / motor vehicle repair shops	C31	C31-39	B	Medium		210 E INTL AIRPORT RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-22	B	High		210 E INTL AIRPORT RD	Plate 1	
Printers, publishers, copiers	C37	C37-39	B	Low		5611 SILVERADO WAY # D	Plate 1	
Tanks, diesel (underground)	T08	T8-18	B	Medium		4900 EAGLE ST	Plate 1	2,000-gallons, single-walled and cathodically protected with manual tank gauging and Tank Tightness Testing
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-13	B	Low		4900 EAGLE ST	Plate 1	ADEC Contaminated Sites File # CS100.39 and Site Name Our Lady of Compassion Care Center. Removed tight underground storage tank with fill & vent loose & leaking with excavated soil stockpiled. Site is INACTIVE.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-58	B	Low		4900 EAGLE ST	Plate 1	

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**Potential and Existing Sources of Contamination for MOA Well #12**  
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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-59	B	Low		701 E TUDOR RD # 100	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-9	B	Low		401 W INTERNATIONAL RD # 33	Plate 1	
Body shops (automotive)	C05	C5-9	B	Medium		631 E 48TH AVE	Plate 1	
Printers, publishers, copiers	C37	C37-23	B	Low		5020 FAIRBANKS ST	Plate 1	
Motor / motor vehicle repair shops	C31	C31-23	B	Medium		4627 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-17	B	High		4627 OLD SEWARD HWY	Plate 1	
Tanks, heating oil, nonresidential (underground)	T16	T16-4	B	Medium		4627 OLD SEWARD HWY	Plate 1	15,000-gallons, single-walled. Tank and piping leak detection is unknown.
Tanks, heating oil, nonresidential (underground)	T16	T16-5	B	Medium		4627 OLD SEWARD HWY	Plate 1	8,000-gallons, single-walled. Tank and piping leak detection is unknown.
Tanks, heating oil, nonresidential (underground)	T16	T16-6	B	Medium		4627 OLD SEWARD HWY	Plate 1	1,500-gallons, single-walled. Tank and piping leak detection is unknown.
Hardware stores	C17	C17-46	B	Low		129 W 53RD AVE	Plate 1	
Construction trade areas and materials	C09	C9-55	B	Low		130 W INTL AIRPORT RD # K	Plate 1	
Heavy equipment rental/storage	C18	C18-13	B	Medium		4240 OLD SEWARD HWY # 24	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATV's, snow machines (without service department)	C29	C29-1	B	Medium		1313 LAONA CIRCLE	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATV's, snow machines (with service department)	C30	C30-12	B	Medium		512 W INTL AIRPORT RD	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-15	B	Low		1313 LAONA CIRCLE	Plate 1	<i>ADEC LUST File # L74.03 and Site Name USSBA - Den Tech Equipment Yard.</i> Petroleum hydrocarbon contaminated soil was found in November of 1989 during the decommissioning of a 15,000-gallon gasoline and a 500-gallon used oil UST. Approximately 160 tons of contaminated soils were excavated and transported to the Anchorage Municipal Landfill for disposal. ADEC found that no further cleanup was necessary and the site was closed in July of 1991.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-24	B	High		540 W POTTER	Plate 1	
Scrap, salvage, or junk yards	D59	D59-2	B	High		1100 W INTL AIRPORT RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-21	B	High		720 W 58TH AVE	Plate 1	

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**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Hardware stores	C17	C17-27	B	Low		5001 ARCTIC BLVD	Plate 1	
Paint sales /service	C32	C32-3	B	Low		601 E INTL AIRPORT RD	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-13	B	Medium		210 CENTER COURT	Plate 1	ADEC LUST File # L55.26 and Site Name Pizza Hut Administration Offices . Soil contamination was found in November of 1990 in association with a 1,000-gallon unleaded UST system. A release investigation identified petroleum hydrocarbon contamination was well above the MCL for soil at this site. In May of 2001, ADEC sent a letter to the responsible party restating that corrective action was still required. This May 2001 letter specified that 2 cubic yards of contaminated soils remain stockpiled onsite and that there is a strong possibility that soil and groundwater contamination remains at this site. No additional information is available for this site at this time.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-79	B	Low		3708 RHONE CIR	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV s, snow machines, boats (with service department)	C27	C27-8	B	Medium		5400 OLD SEWARD HWY	Plate 1	
Dry cleaners	C10	C10-4	B	Medium		601 W 58TH AVE # M	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-8	B	Low		36th & Old Seward Hwy.	Plate 1	ADEC Contaminated Sites File # CS100.141 and Site Name Saunders Properties 36th & Denali. Heavy hydrocarbon soil staining from parked autos and trucks. Soils excavated and transported off site. Site is CLOSED.
Motor/motor vehicle supplies stores	C28	C28-14	B	Low		700 E NORTHERN LIGHTS BLVD	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATV s, snow machines (with service department)	C30	C30-13	B	Medium		940 W INTL AIRPORT RD	Plate 1	
Appliance repair shops	C03	C3-1	B	Low		700 E NORTHERN LIGHTS BLVD	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-25	B	Low		700 E NORTHERN LIGHTS BLVD	Plate 1	ADEC LUST File # L55.244 and Site Name SEARS ROEBUCK & CO. Soil contamination was discovered in July of 1993 during the removal of a 500-gallon used oil UST, a 5,000-gallon heating oil UST, and an oil/water separator. Approximately 22.5 tons of contaminated soil was excavated and transported offsite for disposal. Groundwater was not impacted at this site, as per file records. Soil samples taken from the excavation pit in January 1995 indicated low levels of petroleum hydrocarbons below ADEC Level A cleanup standards. Corrective action is complete on this site and No Further Action was required in August of 1996.

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
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PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-26	B	Low		700 E NORTHERN LIGHTS BLVD	Plate 1	ADEC LUST File # L55.197 and Site Name SEARS ROEBUCK & CO. Additional soil contamination was discovered during closure activities associated with existing LUST site (CS ID Tag U8-25; LUST file #L55.244) in July of 1994. Contaminated soils were excavated and transported offsite for disposal. Site cleanup was completed in March of 1998.
Laboratories (chemical, soils, and research)	C20	C20-12	B	Low		5761 SILVERADO WAY # N	Plate 1	
Bus maintenance facilities	X16	X11-8	B	Medium		3339 FAIRBANKS ST # A	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-13	B	Low		750 E INTL AIRPORT RD # B	Plate 1	
Paint sales /service	C32	C32-4	B	Low		401 W INTERNATIONAL AIRPORT RD	Plate 1	
Jewelers	C19	C19-4	B	Low		601 E NORTHERN LIGHTS BLVD # H	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-14	B	Low		5333 FAIRBANKS ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-15	B	Low		4640 GAMBELL ST	Plate 1	
Body shops (automotive)	C05	C5-14	B	Medium		5445 OLD SEWARD HWY # 3	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-7	B	High		650 W 58TH AVE	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-5	B	Medium		551 W 54TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-56	B	Low		540 W POTTER DR	Plate 1	
Heavy equipment rental/storage	C18	C18-25	B	Medium		5761 SILVERADO WAY # M1	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV s, snow machines, boats (with service department)	C27	C27-9	B	Medium		624 W POTTER DR	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-25	B	Low		524 W INTL AIRPORT RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-40	B	Medium		1218 W INTL AIRPORT RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-11	B	High		1218 W INTL AIRPORT RD	Plate 1	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Seafood processing	N10	N10-8	B	Low		718 W 53RD AVE	Plate 1	
Printers, publishers, copiers	C37	C37-40	B	Low		1225 E INTL AIRPORT RD # 107	Plate 1	
Heavy equipment rental/storage	C18	C18-26	B	Medium		5631 SILVERADO WAY # G	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-60	B	Low		500 E TUDOR RD	Plate 1	
Organic chemicals manufacturing	I29	I29-1	B	High		720 W 58TH AVE	Plate 1	
Jewelers	C19	C19-5	B	Low		600 E NORTHERN LIGHTS BL # 118	Plate 1	
Hardware stores	C17	C17-47	B	Low		411 E 54TH AVE	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-10	B	Low		355 W POTTER DR	Plate 1	
Motor / motor vehicle repair shops	C31	C31-41	B	Medium		5631 SILVERADO WAY	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-11	B	Low		700 W 58TH AVE # D	Plate 1	
Hardware stores	C17	C17-48	B	Low		130 W INTL AIRPORT RD # C	Plate 1	
Paint sales /service	C32	C32-5	B	Low		401 W INTERNATIONAL AIRPORT RD	Plate 1	
Hardware stores	C17	C17-49	B	Low		5861 ARCTIC BLVD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-9	B	Low		1000 E. NORTHERN LIGHTS BL.	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-30	B	Low		1000 E. NORTHERN LIGHTS BL.	Plate 1	ADEC LUST File # L55.344 and Site Name Former Discount Tire; TOP AUTO, INC. During the removal of a 500-gallon used oil UST. Soil samples taken 25 September, 1990, indicated that low levels of petroleum hydrocarbons were present. However, concentrations were below MCLs for the contaminants of concern. LUST site cleanup was complete at this time, however, ADEC did not send a letter specifying "No Further Action" on the site until December of 1999.
Heavy equipment rental/storage	C18	C18-27	B	Medium		5430 FAIRBANKS ST # 11	Plate 1	
Construction trade areas and materials	C09	C9-57	B	Low		220 CENTER CT	Plate 1	
Motor / motor vehicle repair shops	C31	C31-42	B	Medium		501 W INTERNATIONAL RD # 19	Plate 1	
Meat processing	N05	N5-4	B	Low		5650 B ST	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-14	B	Medium		420 W INTL AIRPORT RD	Plate 1	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Heavy equipment rental/storage	C18	C18-28	B	Medium		184 E 53RD AVE	Plate 1	
Heavy equipment rental/storage	C18	C18-14	B	Medium		4751 OLD SEWARD HWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-23	B	Medium		4751 OLD SEWARD HWY	Plate 1	ADEC LUST File # L55.313 and Site Name U-HAUL CO. Soil and groundwater contamination was discovered during the removal of a 4,000-gallon gasoline and a 4,000-gallon diesel UST in August of 1998. In March of 2001, a revised corrective action workplan was received by ADEC. In August 2001, five (5) groundwater monitoring wells were installed and soil and groundwater was sampled to determine the extent of contamination at this site. Three (3) 55-gallon drums of petroleum contaminated soils were generated during the construction of the monitoring wells. The impacted soils were exported offsite for thermal treatment. No information is available at this time on the magnitude and extent of groundwater contamination at this site.
Construction trade areas and materials	C09	C9-30	B	Low		750 E. INTERNATIONAL AIRPORT RD	Plate 1	
Construction trade areas and materials	C09	C9-58	B	Low		5300 A ST	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-29	B	Low		949 E 36th Ave	Plate 1	ADEC LUST File # L55.314 and Site Name University Plaza Building. A 300-gallon heating oil tank was removed from this site in August of 1998. All analytical samples/results showed non-detect levels of petroleum hydrocarbons. A No Further Action letter was issued by ADEC in December of 1998.
Heavy equipment rental/storage	C18	C18-29	B	Medium		200 CENTER CT	Plate 1	
Motor / motor vehicle repair shops	C31	C31-43	B	Medium		5713 ARCTIC BLVD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-9	B	High		5713 ARCTIC BLVD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-29	B	High		5713 ARCTIC BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-24	B	Low		3333 FAIRBANKS ST	Plate 1	
Hardware stores	C17	C17-50	B	Low		5760 SILVERADO WAY	Plate 1	
Gasoline stations (without repair shop)	C15	C15-10	B	Medium		717 E NORTHERN LIGHTS BLVD	Plate 1	
Gasoline stations (without repair shop)	C15	C15-11	B	Medium		801 E TUDOR RD	Plate 1	
Tanks, gasoline (underground)	T12	T12-22	B	Medium		801 E TUDOR RD	Plate 1	20,000-gallons, double-walled and Auto Line Leak Detection
Tanks, gasoline (underground)	T12	T12-23	B	Medium		801 E TUDOR RD	Plate 1	15,000-gallons, double-walled and Auto Line Leak Detection
Tanks, gasoline (underground)	T12	T12-24	B	Medium		801 E TUDOR RD	Plate 1	15,000-gallons, double-walled and Auto Line Leak Detection
Tanks, gasoline (underground)	T12	T12-32	B	Medium		717 E NORTHERN LIGHTS BLVD	Plate 1	10,000-gallons, single-walled and Auto Line Leak Detection
Tanks, gasoline (underground)	T12	T12-33	B	Medium		717 E NORTHERN LIGHTS BLVD	Plate 1	10,000-gallons, single-walled and Auto Line Leak Detection

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Construction trade areas and materials	C09	C9-59	B	Low		549 W INTL AIRPORT RD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-11	B	Medium		5326 A ST	Plate 1	
Construction trade areas and materials	C09	C9-31	B	Low		511 W 54TH ST	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-27	B	Low		511 W 54TH ST	Plate 1	ADEC LUST File # L55.240 and Site Name WOODARD CONSTRUCTION CO. During the removal of a 500-gallon gasoline UST in April of 1992, low levels of petroleum hydrocarbon contamination were found. All soil samples/results were found to be below ADEC Cleanup Levels. ADEC required No Further Action on this site in April of 1996.
Construction trade areas and materials	C09	C9-60	B	Low		130 W INTERNATIONAL AIRPORT RD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-12	B	Medium		224 E 54TH AVE	Plate 1	
Seafood processing	N10	N10-9	B	Low		100 E 54TH AVE	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-26	B	Low		239 E INTL AIRPORT RD	Plate 1	
Hardware stores	C17	C17-51	B	Low		330 E INTL AIRPORT RD	Plate 1	
Jewelers	C19	C19-6	B	Low		600 E NORTHERN LIGHTS BL # 130	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-61	B	Low		2702 GAMBELL ST # 206	Plate 1	
Printers, publishers, copiers	C37	C37-28	B	Low		636 W 53RD AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-45	B	Low		5001 ARCTIC BLVD # 202	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-46	B	Low		3315 FAIRBANKS ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-47	B	Low		4450 CORDOVA ST # 210	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-48	B	Low		4450 CORDOVA ST # 130	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-63	B	Low		3708 RHONE CIR	Plate 1	

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**Potential and Existing Sources of Contamination for MOA Well #12**  
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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-64	B	Low		3606 RHONE CIR # 2	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-65	B	Low		3730 RHONE CIR # 103	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-66	B	Low		3606 RHONE CIR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-67	B	Low		3730 RHONE CIR # 202	Plate 1	
Residential area	R01	R1-2	B	Low		Zone B Protection Area	3	217 acres
Highways and roads, paved (cement or asphalt)	X20	-81 - X20	B	Low		All roads in Zone B Protection Area	4	
Residential septic systems (serves one single-family home)	R02	R2-7 - R2-24	B	Low		All septic systems in Zone B Protection Area	5	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-116 - D1-237	B	Low		All sewerlines in Zone B Protection Area	5	
Construction trade areas and materials	C09	C9-93	C	Low		575 E DOWLING RD	Plate 1	
Construction trade areas and materials	C09	C9-62	C	Low		5700 LAKE OTIS PKWY	Plate 1	
Welding shops	C43	C43-3	C	Medium		106 E DOWLING RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-27	C	Low		5838 ROWAN ST	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV $\frac{1}{2}$ s, snow machines, boats (with service department)	C27	C27-12	C	Medium		6239 MACKAY ST	Plate 1	
Motor / motor vehicle repair shops	C31	C31-49	C	Medium		6239 MACKAY ST	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-36	C	Low		6239 MACKAY ST	Plate 1	ADEC LUST File # L55.84 and Site Name Continental Motors 6239. A 500-gallon used oil UST was removed from this site in August of 1990. Sampling in May of 1992 indicated low levels of petroleum hydrocarbon and heavy metal contamination in the soil surrounding the excavation. No further action was required by ADEC in August of 1994.
Motor/motor vehicle supplies stores	C28	C28-28	C	Low		1220 E 68TH AVE # 103	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-13	C	Medium		6330 ARCTIC BLVD	Plate 1	



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**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-32	C	Medium		6446 GREENWOOD	Plate 1	ADEC LUST File # L55.50 and Site Name AAA PLUMBING AND HEATING . The removal of a 1,000-gallon gasoline and a 1,000-gallon diesel UST in September of 1992 revealed soil contaminated with petroleum hydrocarbons. Approximately 85 cubic yards of contaminated soil were removed and stockpiled on-site. A corrective action plan was approved by ADEC in November of 2000.
Motor vehicle/general storage yards/facilities	X27	X27-16	C	Medium		980 E 54TH AVE	Plate 1	
Metal finishing	I26	I26-1	C	High		5700 OLD SEWARD HWY # B	Plate 1	
Motor / motor vehicle repair shops	C31	C31-50	C	Medium		5610 OLD SEWARD HWY # E	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-40	C	High		5610 OLD SEWARD HWY # E	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-131	C	Low		6917 OLD SEWARD HWY	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV s, snow machines, boats (with service department)	C27	C27-15	C	Medium		5550 OLD SEWARD HWY	Plate 1	
Scrap, salvage, or junk yards	D59	D59-3	C	High		5625 Old Seward Highway	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-22	C	Medium		5625 Old Seward Highway	Plate 1	ADEC Contaminated Sites File # CS100.125.1 and Site Name ABC Towing/Adrian Gray Property. Wrecking yard using pick ax to puncture gasoline tanks resulting in high levels of GRO and BTEX. Site is ACTIVE.
Scrap, salvage, or junk yards	D59	D59-4	C	High		56th & Old Seward Highway	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-21	C	Medium		56th & Old Seward Highway	Plate 1	ADEC Contaminated Sites File # CS100.125.2 and Site Name ABC Towing/Floyd Carley Property. Wrecking yard using pick ax to puncture gasoline tanks resulting in high levels of GRO and BTEX. Site is ACTIVE.
Body shops (automotive)	C05	C5-17	C	Medium		1111 E DOWLING RD # 101	Plate 1	
Body shops (automotive)	C05	C5-15	C	Medium		1840 E DOWLING RD	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-15	C	Medium		1800 STRATFORD CT	Plate 1	
Printers, publishers, copiers	C37	C37-44	C	Low		591 W 67TH AVE	Plate 1	
Scrap, salvage, or junk yards	D59	D59-5	C	High		849 E 56TH AVE	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV s, snow machines, boats (with service department)	C27	C27-11	C	Medium		1733 E Dowling Rd	Plate 1	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-49	C	High		1733 E Dowling Rd	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-42	C	Low		1733 E Dowling Rd	Plate 1	ADEC LUST File # L55.257 and Site Name Acura of Anchorage . During the removal of a 1,000-gallon used oil UST in March of 1997, soil contamination was discovered. Low levels of petroleum hydrocarbon and heavy metals were detected in soil samples from the excavation. Approximately 30 tons of contaminated soils were exported offsite for treatment. The existing petroleum hydrocarbon contamination was below the most stringent ADEC Category A cleanup guideline for these suite of contaminants. Heavy metal, including lead, arsenic, cadmium, and chromium were characterized as being within normal background concentrations for the Anchorage area. No further action was required by ADEC as of March of 1998.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-19	C	Low		6000-8399 Old Seward Hwy.	Plate 1	ADEC Contaminated Sites File # CS65.06 and Site Name ADOT&PF Old Seward, Dimond -Dowling. DRO contaminated soil discovered during boring activities for road alignment. Site is INACTIVE.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-104	C	Low		3650 LAKE OTIS PKWY # 140	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-105	C	Low		3600 LAKE OTIS PKWY	Plate 1	
Quarries (sand, gravel, rock, other?)	E10	E10-3	C	Low		240 W 68TH AVE	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-26	C	Medium		525 W 67TH AVE	Plate 1	ADEC LUST File # L55.72 and Site Name AIR LAND TRANSPORT, INC.. The closure of an underground storage tank in May of 1990 revealed contamination from a 1,000-gallon diesel and a 1,000-gallon leaded gasoline dispensing systems. LUST cleanup was initiated that same month. ADEC requested further groundwater sampling in July of 1999. No additional information is available at this time.
Motor vehicle/general storage yards/facilities	X27	X27-9	C	Medium		525 W 67TH AVE	Plate 1	
Organic chemicals manufacturing	I29	I29-2	C	High		6415 ARCTIC BLVD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-51	C	Medium		1300 E 68TH AVE # 104	Plate 1	
Motor / motor vehicle repair shops	C31	C31-44	C	Medium		6325 PETERSBURG ST	Plate 1	
Battery manufacturing/recycling	I06	I6-3	C	Low		166 E POTTER DR # 2	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-106	C	Low		3800 LAKE OTIS PKWY	Plate 1	
Hardware stores	C17	C17-60	C	Low		550 W 64TH AVE # 200	Plate 1	

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**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-89	C	Low		1600 E TUDOR RD # 201	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-29	C	Low		240 E POTTER DR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-107	C	Low		3600 LAKE OTIS PKWY # 101	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-30	C	Low		6181 ROSEWOOD ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-108	C	Low		4107 LAUREL ST	Plate 1	
Paint sales /service	C32	C32-6	C	Low		1658 E 59TH AVE # 1	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-109	C	Low		4355 LAUREL ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-110	C	Low		3900 LAKE OTIS PKWY	Plate 1	
Machine and metal work shops	I23	I23-5	C	High		6511 BRAYTON DR	Plate 1	
Motor / motor vehicle repair shops	C31	C31-52	C	Medium		1147 E DOWLING RD	Plate 1	
Pharmacies	C35	C35-6	C	Low		4201 LAKE OTIS PKWY	Plate 1	
Hardware stores	C17	C17-61	C	Low		5811 OLD SEWARD HWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-132	C	Low		6000 A ST	Plate 1	
Iron and steel manufacturing	I21	I21-1	C	Medium		1200 W DOWLING RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-43	C	High		6407 GREENWOOD ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-31	C	Low		5901 ARCTIC BLVD	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-17	C	Medium		6930 OLD SEWARD HWY	Plate 1	
Stone and clay processing/manufacturing	I43	I43-2	C	Low		6131 A ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-113	C	Low		4115 LAKE OTIS PKWY	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-32	C	Low		600 E 57TH PL # B	Plate 1	

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**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Hardware stores	C17	C17-52	C	Low		2000 E DOWLING RD # 15	Plate 1	
Lumber processing and preservation	N04	N4-7	C	Medium		166 E POTTER DR	Plate 1	
Car washes with engine or undercarriage cleaning	C08	C8-4	C	Medium		1136 E 66TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-90	C	Low		5520 LAKE OTIS PKWY # 101	Plate 1	
Iron and steel manufacturing	I21	I21-2	C	Medium		6218 NIELSON WAY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-42	C	High		6626 GREENWOOD ST	Plate 1	
Motor / motor vehicle repair shops	C31	C31-48	C	Medium		1136 E 66TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-37	C	High		1136 E 66TH AVE	Plate 1	
Heavy equipment rental/storage	C18	C18-34	C	Medium		6717 ROSEWOOD ST	Plate 1	
Printers, publishers, copiers	C37	C37-45	C	Low		907 E DOWLING RD # 15	Plate 1	
Heavy equipment rental/storage	C18	C18-35	C	Medium		130 A STREET LOOP	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-39	C	Low		2240 E DOWLING RD	Plate 1	<i>ADEC LUST File # L55.32 and Site Name Smyth Movers Warehouse.</i> In July of 1992, petroleum contamination was reported to ADEC during the removal of two leaking 1,000-gallon gasoline USTs and one 2,000-gallon diesel UST. Overfills may have resulted in the majority of contamination found at this site. Approximately 28 cubic yards of contaminated soils were removed and stockpiled on-site and later transported offsite for treatment. Excavation sample results showed that the soils met ADEC Cleanup Level A requirements. Groundwater did not show indication of contamination during the site investigations. ADEC issued a No Further Action letter in December of 1996.
Motor vehicle/general storage yards/facilities	X27	X27-10	C	Medium		2240 E DOWLING RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-91	C	Low		1600 E TUDOR RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-53	C	Medium		6150 A ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-46	C	High		6150 A ST	Plate 1	
Recycling and waste reduction facilities	D57	D57-3	C	Medium		6161 ROSEWOOD ST	Plate 1	

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**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-31	C	Medium		6301 ROSEWOOD	Plate 1	ADEC LUST File # L55.153 and Site Name ANCHORAGE REFUSE INC.. A July 1992 removal of a 9,000-gallon diesel and 2 - 2,000-gallon unleaded gasoline UST and dispensors found groundwater and soils contaminated with petroleum hydrocarbons. The unconfined aquifer at this site was identified at 6 to 7 feet below land surface. Contaminated soils remain below groundwater level. Contaminated soils were removed from the excavation and biocell treatment was employed to remediate soils. ADEC requested additional information regarding the site and a quarterly groundwater monitoring report in June of 2000. No additional information is available at this time.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-34	C	Low		6250 ROSEWOOD DR	Plate 1	ADEC LUST File # L55.73 and Site Name Anderson Trucking. Soil and groundwater contamination was encountered during the removal of a 2,000-gallon diesel and a 2,000-gallon gasoline UST in May of 1990. In October of 1990, ADEC requested a long term groundwater sampling program and remediation plan. Four (4) groundwater monitoring wells were installed to determine the extent of contamination. Contaminated soils were removed and stockpiled on-site and later transported offsite for disposal. Groundwater and soil samples taken in 1992 showed a marked decrease in petroleum hydrocarbon concentrations and were below ADEC required cleanup levels. A No Further Action letter was issued by ADEC in January of 1993.
Motor vehicle/general storage yards/facilities	X27	X27-7	C	Medium		6250 ROSEWOOD DR	Plate 1	
Appliance repair shops	C03	C3-2	C	Low		230 E POTTER DR # 9	Plate 1	
Motor / motor vehicle repair shops	C31	C31-54	C	Medium		6031 ARCTIC BLVD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-41	C	High		6031 ARCTIC BLVD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-33	C	Low		1301 E DOWLING RD # 105	Plate 1	
Printers, publishers, copiers	C37	C37-41	C	Low		2217 E TUDOR RD # 17	Plate 1	
Body shops (automotive)	C05	C5-18	C	Medium		6727 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-52	C	High		6727 OLD SEWARD HWY	Plate 1	
Gasoline stations (without repair shop)	C15	C15-16	C	Medium		6010 OLD SEWARD HWY	Plate 1	
Tanks, gasoline (underground)	T12	T12-44	C	Medium		6010 OLD SEWARD HWY	Plate 1	12,000-gallons, double-walled and cathodically protected
Tanks, gasoline (underground)	T12	T12-45	C	Medium		6010 OLD SEWARD HWY	Plate 1	12,000-gallons, double-walled and cathodically protected

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-25	C	Medium		6010 OLD SEWARD HWY	Plate 1	ADEC LUST File # L30.21 and Site Name WILLIAMS EXPRESS STORE #5021. Site investigations conducted in 1990 showed high levels of benzene, toluene, ethylbenzene, & xylenes in groundwater emanating from leaking diesel and gasoline USTs. A groundwater monitoring wells were installed to determine the extent and magnitude of contamination. An in situ vapor extraction system was in operation in late 1990 and early 1991 to aid in the remediation of the site. Monitoring of petroleum hydrocarbons in groundwater continues at this site.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-27	C	Low		Roger Dr. & Campbell Place	Plate 1	ADEC Contaminated Sites File # CS69.24 and Site Name AWWU Homestead Acres Water Extension. During excavation for a pipeline on 9/21/89, diesel contaminated soils and groundwater were encountered. Site is INACTIVE.
Motor / motor vehicle repair shops	C31	C31-55	C	Medium		6705 ROSEWOOD ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-38	C	High		6705 ROSEWOOD ST	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-14	C	Medium		6000 ARCTIC BLVD	Plate 1	
Heavy equipment rental/storage	C18	C18-36	C	Medium		6871 OLD SEWARD HWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-30	C	Medium		6871 OLD SEWARD HWY	Plate 1	ADEC LUST File # L55.149 and Site Name BAILEY'S RENT ALL INC. Two 1000-gallon diesel and one 1000-gallon gasoline USTs were removed from this site in November of 1991 to reveal soil and groundwater contaminated with petroleum constituents. Contaminated soils were excavated and stockpiled onsite. In April of 2001, the responsible party hired a consultant to conduct a release investigation for the site which includes excavation sidewall sampling, stockpile sampling, and the installation of groundwater monitoring wells. No additional information is available at this time.
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-16	C	Medium		5740 OLD SEWARD HWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-27	C	High		299 W 64TH AVE	Plate 1	ADEC LUST File # L55.08 and Site Name BEKINS MOVING & STORAGE. Gasoline contaminated soil and groundwater was discovered in July 1990 associated with a leaking 2,000-gallon UST. A Corrective Action Plan was approved by ADEC in August of 1998. Letters requesting workplans for identification of vertical/lateral extent of surface/subsurface contamination were sent to the responsible party in August and October of 2000 and again in March of 2001.
Motor vehicle/general storage yards/facilities	X27	X27-18	C	Medium		299 W 64TH AVE	Plate 1	
Pharmacies	C35	C35-7	C	Low		4045 LAKE OTIS PKWY # 204	Plate 1	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Construction trade areas and materials	C09	C9-71	C	Low		1300 E 68TH AVE # 112	Plate 1	
Closed tanks, diesel (underground)	T09	T9-3	C	Low		1300 E 68TH AVE # 112	Plate 1	Tank closed in place
Heavy equipment rental/storage	C18	C18-37	C	Medium		6415 ARCTIC BLVD	Plate 1	
Construction trade areas and materials	C09	C9-72	C	Low		5941 ARCTIC BLVD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-56	C	Medium		6209 MIKE ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-36	C	High		5941 ARCTIC BLVD	Plate 1	
Heavy equipment rental/storage	C18	C18-38	C	Medium		6927 OLD SEWARD HWY # 105	Plate 1	
Leather processing	C24	C24-3	C	Medium		5911 OLD SEWARD HWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-114	C	Low		4000 LAUREL ST	Plate 1	
Motor / motor vehicle repair shops	C31	C31-45	C	Medium		1950 E DOWLING RD # C	Plate 1	
Hardware stores	C17	C17-62	C	Low		151 A STREET LOOP # 2	Plate 1	
Petroleum product bulk station/terminals	X11	X11-2	C	High		1727 BARTLETT DR	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-44	C	High		5901 ARCTIC BLVD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-15	C	Medium		6350 NIELSON WAY	Plate 1	
Hardware stores	C17	C17-63	C	Low		600 E 57TH PL	Plate 1	
Motor / motor vehicle repair shops	C31	C31-57	C	Medium		6820 ROSEWOOD ST	Plate 1	
Printers, publishers, copiers	C37	C37-46	C	Low		6361 NIELSON WAY # 210	Plate 1	
Orchards or nurseries	A10	A10-3	C	Low		6151 B ST	Plate 1	
Motor / motor vehicle repair shops	C31	C31-58	C	Medium		5941 ARCTIC BLVD # AQ	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-115	C	Low		4045 LAKE OTIS PKWY # 210	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-34	C	Low		230 E POTTER DR # 2	Plate 1	
Motor / motor vehicle repair shops	C31	C31-59	C	Medium		5941 ARCTIC BLVD # J	Plate 1	
Laundromats without dry cleaning	C22	C22-2	C	Low		2494 E TUDOR RD	Plate 1	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Construction trade areas and materials	C09	C9-73	C	Low		1217 E 66TH AVE	Plate 1	
Heavy equipment rental/storage	C18	C18-39	C	Medium		1217 E 66TH AVE	Plate 1	
Heavy equipment rental/storage	C18	C18-40	C	Medium		5400 HOMER DR	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-13	C	Medium		6255 MACKAY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-57	C	High		6255 MACKAY	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-38	C	Low		6255 MACKAY	Plate 1	ADEC LUST File # L55.85 and Site Name Continental Motors 6255. Soil and groundwater contamination was discovered during the removal of a 500-gallon used oil UST in August of 1990. Approximately 6 cubic yards of contaminated soils were excavated from the site and transported to another contaminated soils stockpile at 4940 Old Seward Highway. The entire stockpile was eventually transported for thermal treatment in July of 1993. The excavation was later filled with clean sand and gravel. No petroleum hydrocarbons were detected in groundwater from samples taken in September of 1992. ADEC issued a No Further Action letter indicating that site cleanup was complete in August of 1994.
Motor / motor vehicle repair shops	C31	C31-60	C	Medium		130 W DOWLING RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-39	C	High		130 W DOWLING RD	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-12	C	Low		2000 E DOWLING RD # 6	Plate 1	
Construction trade areas and materials	C09	C9-63	C	Low		2000 E DOWLING RD # 4	Plate 1	
Lumber processing and preservation	N04	N4-6	C	Medium		2518 E TUDOR RD	Plate 1	
Petroleum product bulk station/terminals	X11	X11-3	C	High		2080 DIMOND DR	Plate 1	
Heavy equipment rental/storage	C18	C18-31	C	Medium		6129 PETERSBURG ST	Plate 1	
Hardware stores	C17	C17-64	C	Low		6239 B ST # 102	Plate 1	
Hardware stores	C17	C17-65	C	Low		6706 GREENWOOD ST	Plate 1	
Construction trade areas and materials	C09	C9-74	C	Low		538 LYNWOOD DR	Plate 1	
Car washes with engine or undercarriage cleaning	C08	C8-5	C	Medium		538 LYNWOOD DR	Plate 1	
Motor / motor vehicle repair shops	C31	C31-61	C	Medium		6820 ROSEWOOD ST # 13	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-55	C	High		6820 ROSEWOOD ST # 13	Plate 1	



Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Construction trade areas and materials	C09	C9-75	C	Low		740 BONANZA AVE	Plate 1	
Construction trade areas and materials	C09	C9-68	C	Low		1621 STANTON AVE	Plate 1	
Construction trade areas and materials	C09	C9-64	C	Low		6112 PETERSBURG ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-92	C	Low		2545 E TUDOR RD	Plate 1	
Agricultural chemical sales/storage	C02	C2-2	C	Low		5340 TUDORTOP CIR	Plate 1	
Hardware stores	C17	C17-53	C	Low		5406 LAKE OTIS PKWY	Plate 1	
Construction trade areas and materials	C09	C9-76	C	Low		6150 A ST	Plate 1	
Body shops (automotive)	C05	C5-19	C	Medium		6616 ROSEWOOD ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-56	C	High		6616 ROSEWOOD ST	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-33	C	Low		6616 ROSEWOOD ST	Plate 1	ADEC LUST File # L55.45 and Site Name <i>Distinctive Auto Body</i> . Contaminated soil and groundwater was discovered during an October 1989 removal of a 500-gallon used oil UST. Approximately 65 cubic yards of soil were excavated and transported offsite for treatment and disposal. Four (4) groundwater monitoring wells were installed to assess impacts to the unconfined aquifer. On August 18, 1992, groundwater was sampled from one monitoring well and a domestic drinking water well downgradient of the site. Total petroleum hydrocarbon in the wells were 0.22 mg/L and no-detect, respectively. Based on the concentrations of existing contaminants within the soils and groundwater, ADEC issued a no further actions letter in September of 1992. All four monitoring wells were decommissioned in October of 1992.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-133	C	Low		5901 ARCTIC BLVD # H	Plate 1	
Motor / motor vehicle repair shops	C31	C31-62	C	Medium		6220 MACKAY ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-35	C	High		1801 E Dowling Road	Plate 1	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-18	C	High		1801 E Dowling Road	Plate 1	<i>ADEC Contaminated Sites File # CS100.230 and Site Name Dowling Investments.</i> This is a combination LUST and CS site. The CS portion comprises contaminated soils beneath a floor drain system in the former Honda dealership shop at this property. Soils have up to 250 ppm TCE and deisel contaminated soils exceeding cleanup standards. Based on the TCE levels and additional TCLP testing, the soils would be hazardous waste if excavated. Groundwater is probably contaminated. Site is ACTIVE.
Lawn and garden supplies/services	C23	C23-4	C	Low		2000 E DOWLING RD	Plate 1	
Machine and metal work shops	I23	I23-6	C	High		6706 GREENWOOD ST # 1	Plate 1	
Appliance repair shops	C03	C3-3	C	Low		5610 OLD SEWARD HWY # G	Plate 1	
Gasoline stations (without repair shop)	C15	C15-14	C	Medium		6321 A ST	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-41	C	Medium		6321 A ST	Plate 1	<i>ADEC LUST File # L55.182, L55.322 and Site Name COASTAL TIRE.</i> A 500-gallon used oil UST was removed and revealed soil contamination in September of 1998.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-41	C	Low		6321 A ST	Plate 1	<i>ADEC LUST File # L55.182 and Site Name COASTAL TIRE.</i> Gasoline contaminated soils were discovered during the removal of a 1,000-gallon regulated UST in April of 1994. Site cleanup was completed in April of 2000.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-116	C	Low		3650 LAKE OTIS PKWY # 102	Plate 1	
Motor / motor vehicle repair shops	C31	C31-63	C	Medium		5740 B ST	Plate 1	
Heavy equipment rental/storage	C18	C18-30	C	Medium		6727 Old Seward Hwy.	Plate 1	CS100.113 *diesel fuel, residual range petroleum hydrocarbons
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-23	C	Medium		6727 Old Seward Hwy.	Plate 1	<i>ADEC Contaminated Sites File # CS100.113 and Site Name Exploration Supply &amp; Equipment, Inc.</i> Surface and near surface soils were contaminated with diesel and residual range petroleum hydrocarbons. Groundwater data from 1998 identifies GRO, benzene, and 1-2, DCE above cleanup levels. The source of the contamination is believed to be leakage of fuels and/or oils from heavy equipment parked on the site. Site is ACTIVE.
Heavy equipment rental/storage	C18	C18-41	C	Medium		6627 ROSEWOOD ST	Plate 1	
Car washes with engine or undercarriage cleaning	C08	C8-6	C	Medium		6521 GREENWOOD ST	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (without service department)	C26	C26-2	C	Medium		900 E DOWLING RD	Plate 1	
Paint sales /service	C32	C32-9	C	Low		151 A STREET LOOP # 1	Plate 1	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-36	C	Medium		6407 BRAYTON	Plate 1	ADEC LUST File # L55.225 and Site Name FORMER QUICK LUBE. Soil contamination was discovered in July of 1996 during the removal of a 500-gallon used oil UST. A letter was sent to the responsible party in June of 1996 requesting an update on LUST corrective action.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-117	C	Low		3650 LAKE OTIS PKWY # 102	Plate 1	
Construction trade areas and materials	C09	C9-77	C	Low		634 FISCHER AVE	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-19	C	Medium		6321 A ST	Plate 1	
Body shops (automotive)	C05	C5-20	C	Medium		5941 ARCTIC BLVD # P	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-16	C	Medium		1537 E DOWLING RD	Plate 1	
Windshield/glass repair shops	C44	C44-5	C	Low		5955 OLD SEWARD HWY	Plate 1	
Heavy equipment rental/storage	C18	C18-32	C	Medium		6300 PETERSBURG ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-35	C	Low		6240 B ST	Plate 1	
Closed tanks, gasoline (underground)	T13	T13-2	C	Low		6100 A ST	Plate 1	1,000-gallon
Closed tanks, gasoline (underground)	T13	T13-3	C	Low		6100 A ST	Plate 1	1,000-gallon
Motor / motor vehicle repair shops	C31	C31-64	C	Medium		6031 ARCTIC BLVD	Plate 1	
Construction trade areas and materials	C09	C9-78	C	Low		6041 MACKAY ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-118	C	Low		4001 LAKE OTIS PKWY # 100	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-119	C	Low		4003 LAKE OTIS PKWY # 101	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-16	C	Medium		109 A STREET LOOP	Plate 1	
Motor / motor vehicle repair shops	C31	C31-65	C	Medium		6230 A ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-45	C	High		5941 ARCTIC BLVD	Plate 1	
Hardware stores	C17	C17-66	C	Low		106 E DOWLING RD # B	Plate 1	
Hardware stores	C17	C17-54	C	Low		6407 BRAYTON DR	Plate 1	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Hardware stores	C17	C17-67	C	Low		907 E DOWLING RD # 4	Plate 1	
Construction trade areas and materials	C09	C9-79	C	Low		646 E DOWLING RD	Plate 1	
Septic tank cleaning and servicing	C39	C39-1	C	Low		6218 QUINHAGAK ST	Plate 1	
Body shops (automotive)	C05	C5-21	C	Medium		5941 ARCTIC BLVD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-36	C	Low		5645 OLD SEWARD HWY	Plate 1	
Wastewater Holding Tank	T22	T22-1	C	Low		6441 A ST	Plate 1	350-gallons, CLOSED LUST Site
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-35	C	Low		6441 A ST	Plate 1	ADEC LUST File # L100.40 and Site Name Carr Gottstein Warehouse. In July of 1990, soil contamination was discovered during the removal of a 5,000-gallon diesel UST and dispenser. Approximately 230 cubic yards were stockpiled onsite for remediation. No information is available to whether or not groundwater was impacted at this site. Stockpile and excavation site met ADEC cleanup guidelines in 1998 and a no further action letter was issued in April of 2000.
Construction trade areas and materials	C09	C9-80	C	Low		6109 MIKE ST	Plate 1	
Body shops (automotive)	C05	C5-22	C	Medium		6241 A ST	Plate 1	
Body shops (automotive)	C05	C5-23	C	Medium		774 FISCHER AVE	Plate 1	
Hardware stores	C17	C17-68	C	Low		5650 OLD SEWARD HWY # F	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-31	C	Low		6307 ARCTIC SPUR RD	Plate 1	ADEC LUST File # L55.03 and Site Name K & L DISTRIBUTORS INC. Petroleum hydrocarbon impacted soils and groundwater were discovered during the removal of a 2,500-gallon diesel UST and two 1,500-gallon gasoline USTs in May of 1989. Approximately 1,600 tons of contaminated soils were removed from the excavation and stored onsite for remediation until the soils met cleanup criteria for disposal at the Anchorage Municipal Landfill. Three (3) groundwater monitoring wells were installed to determine the presence or absence of contaminants in the unconfined aquifer. Groundwater samples taken in December of 1990 indicated benzene in at least one of the monitoring wells. A No Further Action letter was issued when total petroleum hydrocarbon reached ADEC target cleanup levels in June of 1993.
Body shops (automotive)	C05	C5-24	C	Medium		151 A STREET LOOP # 3	Plate 1	
Dry cleaners	C10	C10-5	C	Medium		5520 LAKE OTIS PKWY # 106	Plate 1	
Injection wells (Class V) Industrial Process Water & Water Disposal Wells	D40	D40-4	C	High		5520 LAKE OTIS PKWY # 106	Plate 1	
Body shops (automotive)	C05	C5-25	C	Medium		5610 OLD SEWARD HWY # J	Plate 1	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Construction trade areas and materials	C09	C9-81	C	Low		150 W DOWLING RD	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-25	C	Low		1147 E Dowling Road	Plate 1	<i>ADEC Contaminated Sites File # CS100.89 and Site Name Laidlaw Transit Inc..</i> Countless spills of petroleum hydrocarbons. Site is INACTIVE.
Gasoline stations (with repair shop)	C16	C16-10	C	Medium		4417 LAKE OTIS PKWY	Plate 1	
Tanks, gasoline (underground)	T12	T12-46	C	Medium		4417 LAKE OTIS PKWY	Plate 1	10,000-gallons, single-walled, Tank Tightness Testing, Inventory Control, SIR
Tanks, gasoline (underground)	T12	T12-47	C	Medium		4417 LAKE OTIS PKWY	Plate 1	10,000-gallons, single-walled, Tank Tightness Testing, Inventory Control, SIR
Tanks, gasoline (underground)	T12	T12-48	C	Medium		4417 LAKE OTIS PKWY	Plate 1	5,000-gallons, single-walled, Tank Tightness Testing, Inventory Control, SIR
Wastewater Holding Tank	T22	T22-2	C	Low		4417 LAKE OTIS PKWY	Plate 1	40-gallons
Wastewater Holding Tank	T22	T22-3	C	Low		4417 LAKE OTIS PKWY	Plate 1	40-gallons
Tanks, diesel (underground)	T08	T8-37	C	Medium		4417 LAKE OTIS PKWY	Plate 1	40-gallons
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-28	C	Medium		4417 LAKE OTIS PKWY	Plate 1	<i>ADEC LUST File # L10.11 and Site Name LAKE OTIS CHEVRON #97324.</i> In September of 1990, a used oil UST failed a tank tightness test and soil contamination was discovered. Petroleum hydrocarbons, tetrachloroethylene (PCE), 1,2-dichloroethane, 1,4-dichlorobenzene, and 1,1,1-dichloroethane was discovered in soils above MCLs. Groundwater monitoring wells were installed and revealed elevated levels of petroleum and chlorinated hydrocarbons including trichloroethylene (TCE). It was suggested that the chlorinated hydrocarbons originated from an off-site contaminant source (dry cleaning business). A vapor extraction/bioventing system was installed and was operational by January of 1993. Petroleum and chlorinated hydrocarbons in the groundwater have been monitored four times per year since 1993. In April of 2001, ADEC approved a workplan for the installation of three additional groundwater monitoring wells. A groundwater monitoring report was submitted to ADEC in June of 2001.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-120	C	Low		3744 LAKE OTIS PKWY	Plate 1	
Pharmacies	C35	C35-8	C	Low		4201 LAKE OTIS PKWY	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-17	C	Medium		1135 E DOWLING RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-37	C	Low		230 E POTTER DR # 6	Plate 1	

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**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-32	C	Low		1205 E DOWLING RD	Plate 1	ADEC LUST File #L55.47 and Site Name Vehicle Facility on Dowling Road; LOOMIS ARMORED INC. Soil contamination was encountered during a September 1989 removal of a 3,000-gallon gasoline UST. Approximately 60 cubic yards of contaminated soils were removed and properly disposed of in an ADEC manner. Further site assessment required by ADEC documented groundwater contamination. Groundwater samples taken from monitoring wells upgradient and downgradient of the UST excavation indicated similar levels of toluene, a constituent of gasoline. This provided evidence that another petroleum hydrocarbon contaminant source may have contributed partly or entirely to groundwater contamination at this site. Groundwater samples taken September of 1990 indicated low levels of toluene in three of four monitoring wells. These levels were well below the MCL for this contaminant. A letter sent by ADEC stating that no further action was required except to properly abandon monitoring wells was sent out in June of 1991.
Motor vehicle/general storage yards/facilities	X27	X27-8	C	Medium		1205 E DOWLING RD	Plate 1	
Body shops (automotive)	C05	C5-26	C	Medium		5901 ARCTIC BLVD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-17	C	Medium		648 E DOWLING RD # 101	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-18	C	Medium		6041 MACKAY ST	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-26	C	Low		6511 Brayton Drive	Plate 1	ADEC Contaminated Sites File # CS100.86 and Site Name Magnum Marine of AK. - Murray Subdivision. Waste drums of oil with RCRA action levels of lead and mercury. Suspected discharge of petroleum hydrocarbons between 8/90 and 11/90. Above ground spills of oil and oil water separator not working so it was discharging improperly. Site is INACTIVE.
Printers, publishers, copiers	C37	C37-42	C	Low		6407 BRAYTON DR # E	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-93	C	Low		5905 LAKE OTIS PKWY # A	Plate 1	
Welding shops	C43	C43-4	C	Medium		6121 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-82	C	Low		6118 OLD SEWARD HWY	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-40	C	Low		2600 PROVIDENCE DR	Plate 1	ADEC LUST File # L73.06 and Site Name DHSS - McLaughlin Youth Center. Soil contaminated with petroleum hydrocarbons was discovered during the removal of a 500-gallon diesel UST in February of 1993. The soils beneath the excavation met ADEC Cleanup Level A requirements. Contaminated stockpiled soils were later transported offsite for disposal. Site cleanup was complete in April of 1994.

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Construction trade areas and materials	C09	C9-83	C	Low		141 A STREET LOOP	Plate 1	
Paint sales /service	C32	C32-7	C	Low		1921 BARTLETT DR	Plate 1	
Tanks, diesel (underground)	T08	T8-33	C	Medium		4001 LAUREL ST	Plate 1	500-gallons, double-walled
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-35	C	Medium		4001 LAUREL ST	Plate 1	ADEC LUST File # L55.205 and Site Name ALASKA SURGERY CENTER. A release of diesel fuel was discovered during the removal of a 500-gallon UST (emergency generator) in December of 1994.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-96	C	Low		4050 LAKE OTIS PKWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-111	C	Low		4048 LAUREL ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-112	C	Low		4001 LAUREL ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-121	C	Low		4200 LAKE OTIS PKWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-126	C	Low		4120 LAUREL ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-127	C	Low		2401 E 42ND AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-130	C	Low		4325 LAUREL ST	Plate 1	
Body shops (automotive)	C05	C5-27	C	Medium		5650 OLD SEWARD HWY	Plate 1	
Motor / motor vehicle repair shops	C31	C31-66	C	Medium		202 E POTTER DR	Plate 1	
Construction trade areas and materials	C09	C9-84	C	Low		6637 GREENWOOD ST	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-34	C	Medium		4350 MACINNES	Plate 1	ADEC LUST File # L69.47 and Site Name MOA - FIRE STATION #4. A diesel spill was discovered during the closure of a 500-gallon UST in September of 1994. ADEC reviewed the corrective action plan in October of 1995 and a release investigation report in January of 1995.
Firehouses	X38	X38-1	C	Low		4350 MACINNES	Plate 1	
Motor / motor vehicle repair shops	C31	C31-46	C	Medium		2000 E DOWLING RD # 8	Plate 1	
Body shops (automotive)	C05	C5-28	C	Medium		5901 ARCTIC BLVD	Plate 1	
Body shops (automotive)	C05	C5-29	C	Medium		1301 E DOWLING RD	Plate 1	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Paint sales /service	C32	C32-8	C	Low		2091 CAMPBELL PL	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV s, snow machines, boats (with service department)	C27	C27-17	C	Medium		5941 ARCTIC BLVD # I	Plate 1	
Motor / motor vehicle repair shops	C31	C31-47	C	Medium		6300 PETERSBURG ST	Plate 1	
Tanks, diesel (underground)	T08	T8-36	C	Medium		5901 LAKE OTIS PKWY	Plate 1	300-gallons
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-29	C	Medium		6450 ARCTIC BLVD.	Plate 1	ADEC LUST File # L55.128 and Site Name N. C. MACHINERY CO. In September of 1991, soil and groundwater contamination was discovered emanating from leaks in the piping of a gasoline UST. Groundwater monitoring wells were installed in August of 1993 to determine the type, magnitude, and extent of contamination.
Machine and metal work shops	I23	I23-7	C	High		1200 W DOWLING RD	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-20	C	Low		6228 Nielson Way	Plate 1	ADEC Contaminated Sites File # CS100.154 and Site Name NANA/Dynatec-JV. Leaking drums - petroleum hydrocarbons and solvents. Contamination remains beneath structures onsite. Site status is "No Further Remedial Action Planned".
Motor/motor vehicle supplies stores	C28	C28-38	C	Low		1130 E DOWLING RD	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-13	C	Low		2490 E 42ND AVE	Plate 1	
Body shops (automotive)	C05	C5-30	C	Medium		5941 ARCTIC BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-122	C	Low		4115 LAKE OTIS PKWY # 201	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-20	C	Medium		299 W 64TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-85	C	Low		6108 MACKAY ST # 200	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-123	C	Low		4231 LAKE OTIS PKWY	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-24	C	Low		6211 Old Seward Highway	Plate 1	ADEC Contaminated Sites File # CS100.212 and Site Name Old Seward Hwy. Sawmill. Soil and groundwater contamination from diesel releases. Site status is "No Further Remedial Action Planned".
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-124	C	Low		3650 LAKE OTIS PKWY # 201	Plate 1	
Construction trade areas and materials	C09	C9-86	C	Low		6260 OLD SEWARD HWY	Plate 1	
Hardware stores	C17	C17-55	C	Low		5520 LAKE OTIS PKWY # 105A	Plate 1	



Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed tanks, gasoline (underground)	T13	T13-4	C	Low		5900 ARCTIC BLVD.	Plate 1	Tank closed in place
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-14	C	Medium		2333 E TUDOR RD	Plate 1	
Construction trade areas and materials	C09	C9-65	C	Low		2227 E 53RD AVE	Plate 1	
Body shops (automotive)	C05	C5-31	C	Medium		1237 E 66TH AVE	Plate 1	
Dry cleaners	C10	C10-6	C	Medium		4501 LAKE OTIS PKWY	Plate 1	
Injection wells (Class V) Industrial Process Water & Water Disposal Wells	D40	D40-3	C	High		4501 LAKE OTIS PKWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-134	C	Low		907 E DOWLING RD # 7	Plate 1	
Construction trade areas and materials	C09	C9-69	C	Low		3820 LAKE OTIS PKWY	Plate 1	
Lumber processing and preservation	N04	N4-8	C	Medium		5900 ARCTIC BLVD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-67	C	Medium		6727 GREENWOOD ST	Plate 1	
Hardware stores	C17	C17-69	C	Low		6514 GREENWOOD ST	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATV's, snow machines (with service department)	C30	C30-15	C	Medium		1801 E DOWLING RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-48	C	High		1801 E DOWLING RD	Plate 1	
Closed tanks, heating oil, nonresidential (underground)	T17	T17-1	C	Low		1801 E DOWLING RD	Plate 1	950-gallons
Motor vehicle/general storage yards/facilities	X27	X27-11	C	Medium		1524 E DOWLING RD	Plate 1	
Hardware stores	C17	C17-70	C	Low		6446 HOMER DR	Plate 1	
Motor / motor vehicle repair shops	C31	C31-68	C	Medium		210 E POTTER DR	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-54	C	High		210 E POTTER DR	Plate 1	
Construction trade areas and materials	C09	C9-66	C	Low		1720 E 59TH AVE	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-21	C	Medium		1100 E DOWLING RD	Plate 1	
Heavy equipment rental/storage	C18	C18-42	C	Medium		6116 NIELSON WAY	Plate 1	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Asphalt and tar processing/storage	I03	I3-3	C	Medium		240 W 68TH AVE	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-12	C	Medium		2240 E DOWLING RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-39	C	Low		130 E DOWLING RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-125	C	Low		4335 LAUREL ST	Plate 1	
Heavy equipment rental/storage	C18	C18-43	C	Medium		1150 E 68TH AVE	Plate 1	
Hardware stores	C17	C17-56	C	Low		2020 E DOWLING RD # 7	Plate 1	
Construction trade areas and materials	C09	C9-87	C	Low		6151 A ST	Plate 1	
Gasoline stations (without repair shop)	C15	C15-13	C	Medium		2510 TUDOR RD	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-33	C	Medium		2510 TUDOR RD	Plate 1	ADEC LUST File # L55.180 and Site Name RENNERS GAS AND SAVE. One 6,000-gallon diesel and two 12,000-gallon gasoline USTs were removed from this site in October of 1993. Tank excavations revealed soil and groundwater contamination. A Notice of Violation (NOV) was sent to the responsible party in November of 1995 for failure to submit a Release Investigation report nor a Corrective Action Plan. ADEC once again requested a workplan in June of 2001. A reply is currently overdue.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-47	C	High		1301 E DOWLING RD	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-29	C	Low		1301 E 64th Avenue	Plate 1	ADEC Contaminated Sites File # CS100.47 and Site Name Rogers & Babler Inc. Waste oil, asphalt being stored on site in 55 gallon drums. EPA plans no further action at site. 300 tons of tainted soils excavated while remediating surface soils and wastewater sump in 10/90. TPH, BTEX, and 1,2 dichlorobenzene detected in excavated soils. Further excavation at sump planned. Site is CLOSED.
Motor / motor vehicle repair shops	C31	C31-69	C	Medium		230 E POTTER DR # 3	Plate 1	
Hardware stores	C17	C17-71	C	Low		1320 E 68TH AVE # 101	Plate 1	
Windshield/glass repair shops	C44	C44-6	C	Low		5650 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-88	C	Low		6208 MACKAY ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-128	C	Low		3650 LAKE OTIS PKWY # 202	Plate 1	
Body shops (automotive)	C05	C5-32	C	Medium		5941 ARCTIC BLVD	Plate 1	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-3	C	Low		5941 ARCTIC BLVD	Plate 1	
Iron and steel manufacturing	I21	I21-3	C	Medium		6148 NIELSON WAY	Plate 1	
Hardware stores	C17	C17-57	C	Low		5520 LAKE OTIS PKWY # 103	Plate 1	
Hardware stores	C17	C17-72	C	Low		877 E DOWLING RD	Plate 1	
Dry cleaners	C10	C10-7	C	Medium		6726 GREENWOOD ST	Plate 1	
Welding shops	C43	C43-2	C	Medium		6130 NIELSON WAY	Plate 1	
Metal fabrication	I25	I25-3	C	High		6130 NIELSON WAY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-58	C	Low		6130 NIELSON WAY	Plate 1	ADEC LUST File # 55.178 and Site Name SHEET METAL INC. Very low levels of petroleum hydrocarbons below ADEC Level A Cleanup Standards were discovered during the removal of a 1,000-gallon gasoline UST in March of 1993. Based on the low level of existing contamination, a No Further Action letter was issued in March of 1996. Site is closed. Move to U8
Car washes with engine or undercarriage cleaning	C08	C8-7	C	Medium		1147 E DOWLING RD	Plate 1	
Body shops (automotive)	C05	C5-33	C	Medium		5941 ARCTIC BLVD # G	Plate 1	
Heavy equipment rental/storage	C18	C18-44	C	Medium		6308 MACKAY ST	Plate 1	
Closed tanks, lubricants or other petroleum products (underground)	T21	T21-2	C	Low		600 E 57TH PLACE	Plate 1	out of use LUST SITE
Lubrication shops	C25	C25-2	C	Medium		1721 E DOWLING RD	Plate 1	
Scrap, salvage, or junk yards	D59	D59-6	C	High		849 E 56TH AVE	Plate 1	
Body shops (automotive)	C05	C5-16	C	Medium		1657 E DOWLING RD	Plate 1	
Heavy equipment rental/storage	C18	C18-33	C	Medium		6108 PETERSBURG ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-94	C	Low		5520 LAKE OTIS PKWY	Plate 1	
Printers, publishers, copiers	C37	C37-43	C	Low		6340 PETERSBURG ST	Plate 1	
Sign manufacturing	I39	I39-5	C	Medium		6170 OLD SEWARD HWY	Plate 1	
Heavy equipment rental/storage	C18	C18-45	C	Medium		6727 OLD SEWARD HWY # A	Plate 1	
Construction trade areas and materials	C09	C9-67	C	Low		5101 LAUREL ST	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-13	C	Medium		6228 QUINHAGAK ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-40	C	Low		6321 A ST	Plate 1	
Meat processing	N05	N5-5	C	Low		6123 MACKAY ST	Plate 1	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-53	C	High		6017 AUSTIN ST	Plate 1	
Construction trade areas and materials	C09	C9-89	C	Low		600 E 57TH PL # B	Plate 1	
Body shops (automotive)	C05	C5-34	C	Medium		151 A STREET LOOP # 3	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-129	C	Low		4001 LAKE OTIS PKWY # 200	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-14	C	Medium		6200 PETERSBURG ST	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (without service department)	C26	C26-3	C	Medium		1301 E 64TH AVE	Plate 1	
Motor / motor vehicle repair shops	C31	C31-70	C	Medium		151 A STREET LOOP # 7	Plate 1	
Construction trade areas and materials	C09	C9-70	C	Low		3820 LAKE OTIS PKWY	Plate 1	
Gasoline stations (without repair shop)	C15	C15-15	C	Medium		4409 LAKE OTIS PKWY	Plate 1	
Tanks, gasoline (underground)	T12	T12-41	C	Medium		4409 LAKE OTIS PKWY	Plate 1	10,000-gallons, single-walled, Tank Tightness Testing, Inventory Control, ATG, Vapor Monitoring, and Groundwater Monitoring
Tanks, gasoline (underground)	T12	T12-42	C	Medium		4409 LAKE OTIS PKWY	Plate 1	10,000-gallons, single-walled, Tank Tightness Testing, Inventory Control, ATG, Vapor Monitoring, and Groundwater Monitoring
Tanks, gasoline (underground)	T12	T12-43	C	Medium		4409 LAKE OTIS PKWY	Plate 1	12,000-gallons, single-walled, Tank Tightness Testing, Inventory Control, ATG, Vapor Monitoring, and Groundwater Monitoring
Tanks, diesel (underground)	T08	T8-35	C	Medium		4409 LAKE OTIS PKWY	Plate 1	8,000-gallons, Tank Tighness Testing, Inventory Control, ATG, Vapor Monitoring, and Groundwater Monitoring
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-38	C	Medium		4409 LAKE OTIS PKWY	Plate 1	ADEC LUST File # L25.19 and Site Name TUDOR TEXACO FOOD MART #18. A confirmation of a release of petroleum hydrocarbons was received by ADEC in August of 1996. LUST corrective action was initiated in March of 1998. ADEC requested the submittal of a Corrective Action Plan for contaminated soil and groundwater for this site in July of 2000. No additional information is available at this time.
Construction trade areas and materials	C09	C9-90	C	Low		6211 OLD SEWARD HWY	Plate 1	
Hardware stores	C17	C17-58	C	Low		2020 E DOWLING RD # 6	Plate 1	
Welding shops	C43	C43-5	C	Medium		5839 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-50	C	High		5839 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-61	C	Low		160 W 68TH	Plate 1	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-37	C	Low		160 W 68TH	Plate 1	<i>ADEC LUST File # L55.83 and Site Name United Lumber Company Incorporated.</i> Soil and groundwater contamination was discovered during the removal of a 1,300-gallon diesel fuel UST in August of 1990. Approximately 518 tons of contaminated soil was removed from the excavation in October of 1990 and transported to the Anchorage Regional Landfill (below 1000 ppm TPH). Several other stockpiles that exceeded 1000 ppm TPH were transported offsite for treatment. In 1992, soils and groundwater were sampled again. Test results showed a small amount of contamination remains beneath the foundation of a structure onstie. This same sampling period yeilded total petroleum hydrocarbon (TPH) concentrations below MCLs. Site closure was granted in August of 1992.
Motor/motor vehicle supplies stores	C28	C28-41	C	Low		106 E DOWLING RD	Plate 1	
Construction trade areas and materials	C09	C9-91	C	Low		125 A STREET LOOP	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-28	C	Low		2523 Providence Drive	Plate 1	<i>ADEC Contaminated Sites File # No File Number and Site Name University of Alaska (formerly Anchorage Community College).</i> As much as 100 to 300 gallons of waste oil, alledgedly from transformers were spilled to the surface. No PCBs detected in soil samples. On-site inspection conducted in August 1986. Site is INACTIVE.
Printers, publishers, copiers	C37	C37-47	C	Low		907 E DOWLING RD # 13	Plate 1	
Heavy equiptment rental/storage	C18	C18-46	C	Medium		160 W 68TH AVE	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-15	C	Low		160 W 68TH AVE	Plate 1	
Boat engine/body repair shops	C04	C4-1	C	Low		1220 E 68TH AVE # 101	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-13	C	Low		6100 A ST	Plate 1	
Tanks, gasoline (underground)	T12	T12-39	C	Medium		591 W 67TH AVE	Plate 1	14,000-gallons, double-walled and cathodically protected
Construction trade areas and materials	C09	C9-92	C	Low		6120 A ST	Plate 1	
Hardware stores	C17	C17-59	C	Low		1658 E 59TH AVE	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-19	C	Medium		230 E POTTER DR # 4	Plate 1	
Motor / motor vehicle repair shops	C31	C31-71	C	Medium		5610 OLD SEWARD HWY # K	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-22	C	Medium		6028 MACKAY ST	Plate 1	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-18	C	Medium		6041 MACKAY ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-51	C	High		5901 ARCTIC BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-88	C	Low		1600 E TUDOR RD # C	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-95	C	Low		4045 LAKE OTIS PKWY # 201	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-97	C	Low		2501 E 42ND AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-98	C	Low		3820 LAKE OTIS PKWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-99	C	Low		2400 E 42ND AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-100	C	Low		4231 LAKE OTIS PKWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-101	C	Low		3650 LAKE OTIS PKWY # 205	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-102	C	Low		2501 E 42ND AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-103	C	Low		3650 LAKE OTIS PKWY # 202	Plate 1	
Residential area	R01	R1-3	C	Low		Zone C Protection Area	3	533 acres
Highways and roads, paved (cement or asphalt)	X20	X20-162 X20-297	C	Low		All roads in Zone C Protection Area	4	
Residential septic systems (serves one single-family home)	R02	R2-25 - R2-41	B	Low		All septic systems in Zone C Protection Area	5	

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Volatile Organic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-238 - D1-401	B	Low		All sewerlines in Zone C Protection Area	5	
Tanks, gasoline (underground)	T12	T12-60	D	Medium		6740 LAKE OTIS PKWY	Plate 1	10,000-gallons, single-walled, Tank Tightness Testing, Inventory Control, and Vapor Monitoring
Tanks, gasoline (underground)	T12	T12-61	D	Medium		6740 LAKE OTIS PKWY	Plate 1	10,000-gallons, single-walled, Tank Tightness Testing, Inventory Control, and Vapor Monitoring
Tanks, gasoline (underground)	T12	T12-62	D	Medium		6740 LAKE OTIS PKWY	Plate 1	8,000-gallons, single-walled, Tank Tightness Testing, Inventory Control, and Vapor Monitoring
Tanks, gasoline (underground)	T12	T12-66	D	Medium		7550 OLD SEWARD HWY	Plate 1	
Tanks, diesel (underground)	T08	T8-53	D	Medium		7550 OLD SEWARD HWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-50	D	Medium		6740 LAKE OTIS PKWY	Plate 1	<i>ADEC LUST File # L20.09 and Site Name TESORO NORTHSTORE #3.</i> Soil and groundwater contamination was encountered during an environmental site assessment conducted in September of 1994. Two monitor wells (M-1, M-2) were installed in 1994. An existing well (P-1) was discovered already on-site (no indication of when it was installed). All three wells were sampled during the 1994 release investigation. Diesel range organics was detected in all three wells (0.1ppm, 0.1ppm and 0.6ppm). Lab analyses showed no detectable BTEX or VPH. Groundwater was once again sampled in October 2001. Samples were obtained from M-1, M-2, and P-1. A third well OW-1 (no indication of when it was installed) was found to be dry. M-1 had benzene at 0.00133ppm all other constituents undetected. M-2 was undetected for all constituents. P-1 had xylenes at 0.006ppm, DRO at 2.39ppm and undetect for all other constituents. The conclusions and recommendations section of the monitoring report states: "This report presents the findings of the October 2001 ground water monitoring event. It is apparent that DRO contamination is still present in the ground water at this site at
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-60	D	High		1200 E 76TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-61	D	High		7427 OLD SEWARD HWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-49	D	Low		7800 LAKE OTIS PARKWAY	Plate 1	<i>ADEC LUST File # L55.165 and Site Name Quality Asphalt Paving.</i> Petroleum hydrocarbon contamination was discovered in soils during the removal of a unleaded gasoline UST in 1989. The contamination was reported to ADEC in 1992. Ten cubic yards of contamination, (TPH testing) was found. Closeout met standards for the period. Site will be closed out with NFA letter after confirmation of proper soil disposal.
Metal finishing	I26	I26-2	D	High		1153 E 74TH AVE # 1	Plate 1	
Closed tanks, heating oil, nonresidential (underground)	T17	T17-2	D	Low		2900 PROVIDENCE DR	Plate 1	25,000-gallons
Closed tanks, heating oil, nonresidential (underground)	T17	T17-3	D	Low		2900 PROVIDENCE DR	Plate 1	1,000-gallons

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-48	D	Low		2900 PROVIDENCE DR	Plate 1	ADEC LUST File # L73.08 and Site Name ALASKA PSYCHIATRIC INSTITUTE. Soil borings near USTs showed petroleum hydrocarbon contamination in February of 1992. Four regulated and two unregulated USTs were removed from the site. No further action was requested by ADEC and the site was closed in May of 1993.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-65	D	High		2000 E 68TH AVE	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-31	D	Low		7550 - 7580 BRIARWOOD ST	Plate 1	ADEC Contaminated Sites File # CS100.153 and Site Name ANCHORAGE AUTO ELECTRIC. Contamination from floor drains and surface spills at auto repair and auto body shops at 7550, 7560, and 7580 Briarwood. Site is CLOSED.
Tanks, diesel (underground)	T08	T8-44	D	Medium		1206 E. 73RD	Plate 1	200-gallons
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-44	D	Low		1206 E. 73RD	Plate 1	ADEC LUST File # L100.45 and Site Name ANCHORAGE CLEAN SWEEP. Soil and groundwater contamination was discovered in July of 1990 associated with six (6) 10,000-gallon used oil, three (3) 8,000-gallon used oil, one (1) 1,000-gallon gasoline, and one (1) 1,000-gallon diesel UST. Three groundwater monitoring wells were installed to determine the extent of contamination. A portion of the contaminated soils were removed from the various tank excavation sites. A bioremediation cell was installed onsite to attempt to remediate contaminated soils that were still in place. Nitrates were injected to within the soil to promote the natural mineralization of the petroleum hydrocarbons through microbial activity. Sampling/results of groundwater and soils in 1998 indicated low levels of diesel range organics, but concentrations were below ADEC Cleanup Levels for both soil and groundwater. The biocell and monitoring wells were decommissioned by May of 1998 and No Further Action was required in June of 1998.
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-58	D	Medium		3580 E Tudor	Plate 1	ADEC LUST File # L68.27 and Site Name ASD Student Transportation . A LUST corrective action plan was approved by ADEC in August of 1998. In October of 1999, ADEC requested an update to the workplan. No additional information is available at this time.
Scrap, salvage, or junk yards	D59	D59-7	D	High		2530 E 79TH AVE	Plate 1	
Closed tanks, gasoline (underground)	T13	T13-5	D	Low		7780 OLD SEWARD HWY	Plate 1	500-gallons
Closed tanks, gasoline (underground)	T13	T13-6	D	Low		7780 OLD SEWARD HWY	Plate 1	500-gallons
Closed tanks, gasoline (underground)	T13	T13-7	D	Low		7780 OLD SEWARD HWY	Plate 1	1,000-gallons
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-62	D	High		7015 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-58	D	High		2715 E TUDOR RD	Plate 1	



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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Tanks, gasoline (underground)	T12	T12-56	D	Medium		2715 E TUDOR RD	Plate 1	19,800-gallons, double-walled and cathodically protected with Auto Line Leak Detection
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-30	D	Low		2715 E TUDOR RD	Plate 1	ADEC Contaminated Sites File # 100.15 and Site Name COURTNEY'S TUDOR SERVICE. Metals and residual range petroleum hydrocarbons. Site status is "No Further Remedial Action Planned".
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-43	D	Low		2715 E TUDOR RD	Plate 1	ADEC LUST File # L55.01 and Site Name COURTNEY'S TUDOR SVC. Soil and groundwater contamination was found that resulted from a 10,000-gallon leaking unleaded gasoline UST in November of 1987. The UST, four additional tanks, and approximately 1,000 tons of contaminated soils were removed from the site. Groundwater monitoring wells were installed and monitoring of contamination continued until a No Further Action letter was issued by ADEC in March of 1998.
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-42	D	High		6401 LAKE OTIS PKWY	Plate 1	ADEC LUST File # L20.03 and Site Name Tesoro - Petro Products. In July 1987, soil and groundwater contamination was encountered during the removal of three USTs. This LUST site contains two identified contaminant releases. The facility was operated as a retail fueling facility containing both a gas station as well as a home heating oil delivery business. Contamination of the unconfined aquifer at this site, which is encountered at six to ten feet below land surface, resulted in the contamination of Little Campbell Creek adjacent to the property. Contaminated soils were removed from the site and an in-situ vapor extraction system was installed to vent fuel fumes in the subsurface. Groundwater contamination exists at this site and extends off the property, however, the areal extent of the contaminant plume has not yet been fully characterized.
Petroleum product bulk station/terminals	X11	X11-5	D	High		6401 LAKE OTIS PKWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-45	D	Medium		8123 HARTZELL RD	Plate 1	ADEC LUST File # L55.134 and Site Name DENALI FUEL COMPANY - FUZZYS. Contaminated soil and groundwater was discovered during the removal of a 10,000-gallon diesel UST in October of 1991. As of September of 2001, a release investigation has been conditionally approved for the installation of groundwater monitoring wells to determine the extent of petroleum contamination.
Petroleum product bulk station/terminals	X11	X11-4	D	High		8123 HARTZELL RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-70	D	High		7079 STELLA PL	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-73	D	High		2361 CINNABAR LOOP	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-68	D	High		1300 E 74TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-71	D	High		7100 HOMER AVE	Plate 1	

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Tanks, gasoline (underground)	T12	T12-65	D	Medium		3805 E TUDOR RD	Plate 1	
Tanks, diesel (underground)	T08	T8-49	D	Medium		3805 E TUDOR RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-72	D	High		6614 LAKE OTIS PKWY	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-34	D	Low		7140 Lake Otis Parkway	Plate 1	ADEC Contaminated Sites File # CS74.17 and Site Name Former Spruce Park Auto Body. Petroleum contaminated soils and RCRA hazardous soils found on the site during MOA road construction project start. Site is CLOSED.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-67	D	High		1200 E 71ST AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-74	D	High		3429 E TUDOR RD	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-44	D	Medium		3429 E TUDOR RD	Plate 1	ADEC LUST File # L55.121 and Site Name Tudor Minit Lube Store #1071 . Petroleum contaminated soils were encountered in association with a regulated UST in August of 1991. A 4,000-gallon tank with 5W-30 new motor oil failed. A corrective action plan (CAP) was submitted to ADEC in 1995. There is no indication whether or not the CAP has been implemented.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-69	D	High		6051 BURLWOOD ST	Plate 1	CS19.NF
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-35	D	Low		6051 BURLWOOD ST	Plate 1	ADEC Contaminated Sites File # CS19.NF and Site Name K & D AUTO SERVICE. Drum explosion spread waste oil over site. Impact to human health, amount, extent unknown. No further action required at this time. Site is CLOSED.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-53	D	Low		2341 CINNABAR LOOP	Plate 1	ADEC LUST File # L55.250 and Site Name LASERTECH ALASKA. Soil contamination was found in August of 1996 in association with a leaking 290-gallon used oil UST. Petroleum hydrocarbon concentrations werer below ADEC Level A for cleanup. A No Further Action letter was issued in February of 1997.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-51	D	Low		7260 HOMER DR	Plate 1	ADEC LUST File # L55.175 and Site Name MCDONALD INDUSTRIES ALASKA, INC.. During the removal of a 3,000-gallon diesel and a 3,000-gallon gasoline UST, a sheen was found on the water in the excavation in May of 1993. An environmental assessment report dated July 1993 indated the presence of floor drains and dry wells in several of the structures on this propety. It is unknown if these potential sources of contamination were ever addressed. Soil samples taken from the excavation pit indicated petroleum hydrocarbon contamination below ADEC Cleanup Level A. No further action was required for the site in December of 1994.
Tanks, heating oil, nonresidential (underground)	T16	T16-8	D	Medium		3650-D E. TUDOR RD	Plate 1	
Tanks, lubricants or other petroleum products (underground)	T20	T20-5	D	Medium		3650-D E. TUDOR RD	Plate 1	6,000-gallons, single-walled with ATG

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Wastewater Holding Tank	T22	T22-4	D	Low		3650-D E. TUDOR RD	Plate 1	6,000-gallons
Closed Wastewater Holding Tank	T23	T23-2	D	Low		3650-D E. TUDOR RD	Plate 1	600-gallons
Tanks, diesel (underground)	T08	T8-45	D	Medium		3650-D E. TUDOR RD	Plate 1	20,000-gallon, double-walled and cathodically protected
Tanks, diesel (underground)	T08	T8-46	D	Medium		3650-D E. TUDOR RD	Plate 1	2,000-gallon, cathodically protected
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-47	D	Medium		3650-D E. TUDOR RD	Plate 1	<i>ADEC LUST File # L69.14 and Site Name MOA - NEW TRANSIT MAINTENANCE FACILITY.</i> During UST removals in June of 1992, diesel contamination from the USTs was found in the soil and groundwater. ADEC sent a letter to the Municipality of Anchorage requesting more action on the site in February of 2001. No additional information is available at this time.
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-55	D	Medium		3650-C E. TUDOR	Plate 1	<i>ADEC LUST File # L69.50 and Site Name MOA - OLD TRANSIT MAINTENANCE.</i> Contaminated soil was discovered during the closure of a 500-gallon UST in August of 1997. LUST corrective action was initiated in March of 1998. No additional information is available at this time.
Closed Wastewater Holding Tank	T23	T23-1	D	Low		3650-D TUDOR RD	Plate 1	2,000-gallons
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-37	D	Low		3650 E Tudor Road	Plate 1	<i>ADEC Contaminated Sites File # CS69.14 and Site Name MOA Public Works Transit Facility.</i> Hydraulic fluid leaked from a lift in a bus service barn. Estimated that 1400 gallons leaked over 4 years. Site is INACTIVE.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-33	D	Low		1118 E. 70th Avenue	Plate 1	<i>ADEC Contaminated Sites File # CS100.159 and Site Name MOA Road Construction &amp; Improvement.</i> During construction of road improvements, soils containing petroleum hydrocarbons above cleanup levels were encountered in the E. 70th Avenue right-of-way. The release is of unknown origin. A potential source is heavy oil (possibly waste oil) was used at some time in the past to suppress dust in the surface soils in traffic areas. Seven stockpiles showed DRO levels between 4.2 and 590 ppm. Those with DRO levels were disposed of at the MOA Hiland Rd. Landfill because they were under 1,000 ppm DRO. The remaining clean soil was used as fill. Site is CLOSED.
Petroleum product bulk station/terminals	X11	X11-6	D	High		8141 DIMOND HOOK DR	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-46	D	Medium		8001 PETERSBURG ST	Plate 1	<i>ADEC LUST File # L55.135 and Site Name PACIFIC DETROIT DIESEL-ALLISON, Frontier Construction (formerly)</i> . Soil and shallow groundwater contamination was encountered during the excavation of a 10,000 gallon waste oil tank in November of 1991. Contaminated soils were excavated and placed in a bioremediation cell onsite. Monitoring wells were installed and showed low levels of benzene in samples taken in October of 1993. In December of 1999, ADEC requested no further action on contaminated soils, but requested further groundwater monitoring at this site.

Table 4

**Potential and Existing Sources of Contamination for MOA Well #12**  
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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-48	D	Medium		1153 E 72ND AVE	Plate 1	ADEC LUST File # L55.46 and Site Name PRIVATE CABLE/PACIFIC RIM TELECO. The September 1992 removal of a 1,500-gallon diesel and a 1,500-gallon unleaded gasoline UST revealed soil contaminated with petroleum hydrocarbons. As of February of 2002, the responsible party has not yet retained a 3rd party consultant to conduct a release investigation for this site.
Tanks, diesel (underground)	T08	T8-41	D	Medium		3200 PROVIDENCE DR	Plate 1	2000-gallons, double-walled and cathodically protected
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-52	D	Medium		3200 PROVIDENCE DR	Plate 1	ADEC LUST File # L55.203 and Site Name PROVIDENCE HOSPITAL. A diesel spill was discovered during the upgrade of a 500 gallon emergency generator in December of 1994. LUST corrective action is underway.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-49	D	Low		3200 PROVIDENCE DR	Plate 1	ADEC LUST File # L55.155 and Site Name PROVIDENCE HOSPITAL. Soil and groundwater contamination was discovered during the removal of a 20,000-gallon diesel and a 7,000-gallon diesel UST in March of 1992. No soil and groundwater samples were found to contain petroleum hydrocarbons above ADEC cleanup levels. Site closure was complete in may of 1993.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-64	D	High		1207 E 76TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-63	D	High		1153 E 74TH AVE # 4	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-66	D	High		1326 E 74TH AVE	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-32	D	High		7100 Lake Otis Pkwy.	Plate 1	ADEC Contaminated Sites File # CS100.163 and Site Name Spruce Park Trailer Park. Contamination from removal of 2 unregulated USTs 7/22-23/94. One was a 6,000 gallon heating oil tank and the second was a 500 gallon waste oil tank. DRO was found in soils up to 16,000 ppm and floating product was found on the groundwater. The two tanks were removed in October 1996. In July 2001, free products was reported floating on the water table measuring between 0.3 and 2.45 feet. Site is ACTIVE.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-36	D	Low		7780 Old Seward Highway	Plate 1	ADEC Contaminated Sites File # CS01.NF and Site Name Stephen Residence. Oil contamination present in soil from pipe behind old boathouse. Site is CLOSED.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-59	D	High		6714 LAKE OTIS PKWY	Plate 1	
Tanks, gasoline (underground)	T12	T12-58	D	Medium		2844 E TUDOR RD	Plate 1	10,000-gallons, single-walled, cathodically protected, Tank Tightness Testing and Inventory Control
Tanks, gasoline (underground)	T12	T12-59	D	Medium		2844 E TUDOR RD	Plate 1	10,000-gallons, single-walled, cathodically protected, Tank Tightness Testing and Inventory Control

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Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-57	D	Medium		2844 E TUDOR RD	Plate 1	ADEC LUST File # L20.56 and Site Name TESERO Northstore # 56. Observed groundwater impacts at time of UST removal in August of 1999. Approximately 45 cubic yards of a total of 90 cubic yards of contaminated soils were removed. Groundwater monitoring continues.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-47	D	Low		2321 CINNIBAR LOOP	Plate 1	ADEC LUST File # L55.105 and Site Name THE EXCAVATION COMPANY. A March 1991 removal of three (3) underground storage tanks (5,000-gallon diesel, 300-gallon used oil, 4,000-gallon gasoline) revealed soil and groundwater contamination. Approximately 230 cubic yards of soil was excavated from the site and transported offsite for thermal treatment. All groundwater samples were below MCLs for total petroleum hydrocarbons. Site closure was complete in June of 1993.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-46	D	Low		7725 OLD SEWARD HWY	Plate 1	ADEC LUST File # L55.97 and Site Name Grand Auto #222. Soil and groundwater contamination was discovered during the removal of a 500-gallon used oil UST in October of 1990. Approximately 38 tons of contaminated soils were removed during the excavation and transported to the Anchorage Regional Landfill for disposal. An additional 20 cubic yards of contaminated soil that was above the landfill disposal limit (TPH > 1000 ppm) was transported for thermal treatment prior to disposal at the landfill. Three (3) groundwater monitoring wells were installed to determine the direction of groundwater flow and the extent and magnitude of contamination at this site. Total petroleum hydrocarbons (TPH) concentrations in groundwater samples were found to be well below ADEC groundwater cleanup standards. No further action was issued for this site in January of 1996.
Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-56	D	Low		8220 PETERSBURG STREET	Plate 1	ADEC LUST File # L55.198 and Site Name TOVSEN PROPERTY. A waste oil spill was discovered during the closure of a 550-gallon UST in September of 1994. The tank and contaminated soils were excavated and transported offsite for disposal. No further action was requested by ADEC in November of 1994.
Tanks, gasoline (underground)	T12	T12-57	D	Medium		3211 Providence Dr	Plate 1	3,000-gallons, double-walled and cathodically protected, Inventory Control
Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-57	D	Low		3211 PROVIDENCE DR	Plate 1	LUST# L73.09
Tanks, diesel (underground)	T08	T8-40	D	Medium		3211 Providence Drive	Plate 1	2,000-gallon, double-walled and cathodically protected
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-55	D	Low		3211 PROVIDENCE DR	Plate 1	ADEC LUST File # L73.21 and Site Name UAA Energy Module I Bldg. Diesel contamination was found during the removal of a 500-gallon UST used for an emergency generator in October of 1994. Site cleanup has been completed and a No Further Action letter was issued in March of 1999.

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Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-43	D	Medium		3211 PROVIDENCE DR	Plate 1	ADEC LUST File # L73.15 and Site Name UAA - Arts Building. Soil and groundwater contamination was discovered during the removal of a 500-gallon diesel UST in July of 1997. Groundwater monitoring results in 2000 continue to show elevated diesel range organics. Groundwater monitoring continues.
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-53	D	Medium		3211 PROVIDENCE DR	Plate 1	ADEC LUST File # L73.05 and Site Name UAA - Providence. Soil contamination was discovered during the removal of a used oil UST in June of 1991. Corrective action is underway and groundwater monitoring continues.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-50	D	Low		3211 PROVIDENCE DR	Plate 1	ADEC LUST File # L73.13 and Site Name UAA Energy Module II Bldg. Gasoline and diesel contamination was found during the removal of a 500-gallon UST used for an emergency generator in May of 1995. Several tons of fuel contaminated soil was removed from the excavation and transported offsite for thermal treatment. Site cleanup has been completed and a No Further Action letter was issued in March of 2001.
Tanks, lubricants or other petroleum products (underground)	T20	T20-4	D	Medium		8221 PETERSBURG ST	Plate 1	5,000-gallons, single-walled with Tank Tightness Testing and ATG. Tank is temporarily out of use.
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-56	D	Medium		8221 PETERSBURG ST	Plate 1	ADEC LUST File # L55.269 and Site Name USPS - VMF (west tanks) ADEC requested a release investigation for groundwater in March of 1998. No additional information is available at this time.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-54	D	Low		8221 PETERSBURG ST	Plate 1	ADEC LUST File # L55.247 and Site Name US POSTAL SERVICE VEHICLE MAINT. Low levels of petroleum hydrocarbon contamination was found in association with the removal of two motor oil and one used oil tanks. The tanks were removed and soils below cleanup ADEC cleanup Level A were put back into the excavation. Site cleanup was completed in December of 1996.
Tanks, gasoline (underground)	T12	T12-50	D	Medium		6828 LAKE OTIS PKWY	Plate 1	10,000-gallons, single-walled, Tank Tightness Testing, ATG, and Auto Line Leak Detection
Tanks, gasoline (underground)	T12	T12-51	D	Medium		6828 LAKE OTIS PKWY	Plate 1	10,000-gallons, double-walled, Tank Tightness Testing, Inventory Control, Line Tightness Testing, Auto Line Leak Detection, and Interstit. Double-Wall Monitoring
Tanks, gasoline (underground)	T12	T12-52	D	Medium		6828 LAKE OTIS PKWY	Plate 1	15,000-gallons, double-walled, ATG and Auto Line Leak Detection
Tanks, gasoline (underground)	T12	T12-53	D	Medium		2900 E TUDOR RD	Plate 1	15,000-gallons, double-walled, ATG, Line Tightness testing, and Auto Line Leak Detection
Tanks, gasoline (underground)	T12	T12-54	D	Medium		2900 E TUDOR RD	Plate 1	10,000-gallons, double-walled, ATG, Line Tightness Testing, and Auto Line Leak Detection
Tanks, diesel (underground)	T08	T8-52	D	Medium		2900 E TUDOR RD	Plate 1	10,000-gallon, double-walled

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-45	D	Low		2900 E TUDOR RD	Plate 1	ADEC LUST File # L55.95 and Site Name WILLIAMS EXPRESS #5020. Soil and groundwater contamination was detected beneath a former diesel fueling facility in August of 1990. Contaminated soils were excavated and transported off-site for disposal. Some of the less contaminated soils were spread onsite. Groundwater monitoring wells were installed to determine to the extent of contamination on the unconfined aquifer and monitor concentrations. Site cleanup has been completed and No Further Action was granted in April of 2000.

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-4	A	High	1	411 W TUDOR RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-2	A	Medium	2	100 E 51ST AVE	Plate 1	
Motor / motor vehicle repair shops	C31	C31-3	A	Medium	3	411 W TUDOR RD	Plate 1	
Asphalt and tar processing/storage	I03	I3-1	A	Medium	4	4141 B ST # 410	Plate 1	
Lumber processing and preservation	N04	N4-1	A	Medium	5	4300 B ST # 603	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-1	A	Low	6	4040 B ST	Plate 1	
Government vehicle maintenance facilities	X19	X19-3	A	Medium	7	3301 C ST # 300	Plate 1	
Construction trade areas and materials	C09	C9-12	A	Low	8	4041 B ST	Plate 1	
Construction trade areas and materials	C09	C9-14	A	Low	9	4041 B ST # 202	Plate 1	
Battery manufacturing/recycling	I06	I6-1	A	High	10	200 W 34TH AVE # 1076	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-2	A	High		101 E NORTHERN LIGHTS BLVD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-5	A	High		301 E NORTHERN LIGHTS BLVD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-6	A	High		3607 SPENARD RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-1	A	High		1106 WILSHIRE AVE	Plate 1	
Motor / motor vehicle repair shops	C31	C31-1	A	Medium		3800 ARCTIC BLVD	Plate 1	
Gasoline stations (without repair shop)	C15	C15-7	A	Low		3230 C ST	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-4	A	Low		3330 ARCTIC BLVD	Plate 1	<i>ADEC LUST File # L10.? and Site Name 3300-40 ARCTIC BLVD. CORPORATION. Petroleum contaminated soils and groundwater were identified in October of 1989 during the removal of two 5,000-gallon underground petroleum tanks. Site closure was granted by ADEC in February of 1990. No further action required at this time.</i>
Motor vehicle dealerships - cars, trucks, motor cycles, ATVs, snow machines, boats (with service department)	C27	C27-1	A	Medium		3202 SPENARD RD	Plate 1	
Tanks, lubricants or other petroleum products (underground)	T20	T20-1	A	Medium		810 W TUDOR RD	Plate 1	550-gallons, double-walled, Manual Tank Testing
Tanks, lubricants or other petroleum products (underground)	T20	T20-2	A	Medium		3304 SPENARD RD	Plate 1	550-gallons, single-walled, Manual Tank Testing, Tank Tightness Testing, and Inventory Control
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-17	A	Low		3400 SPENARD RD # 4	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-18	A	Low		510 W TUDOR RD # 111	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-1	A	Low		4141 B ST	Plate 1	
Construction trade areas and materials	C09	C9-1	A	Low		200 W 34TH AVE # 374	Plate 1	



Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Motor vehicle rental facilities - cars, trucks, ATV's, snow machines (with service department)	C30	C30-1	A	Medium		502 W NORTHERN LIGHTS BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-2	A	Low		360 W BENSON BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-19	A	Low		3201 C ST # 602	Plate 1	
Body shops (automotive)	C05	C5-1	A	Medium		3685 SPRINGER ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-20	A	Low		3330 C ST # 100	Plate 1	
Printers, publishers, copiers	C37	C37-3	A	Low		501 W NORTHERN LIGHTS BL # 100	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-1	A	Low		3705 ARCTIC BLVD # 1693	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-21	A	Low		511 W 41ST AVE # 102	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-1	A	Medium		4011 ARCTIC BLVD # 101	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-6	A	Low		4300 B ST	Plate 1	<i>ADEC LUST File # L55.96 and Site Name ALASKA ENERGY BUILDING</i> . Soil contamination was discovered during the excavation of a 500-gallon diesel underground storage tank in October of 1990. No groundwater contamination was detected. Approximately 10 - 12 cubic yards of contaminated soils were excavated below the tank and was transported offsite for thermal treatment. File closed out to ADEC's satisfaction in September of 1991.
Motor vehicle rental facilities - cars, trucks, ATV's, snow machines (with service department)	C30	C30-2	A	Medium		3689 ARCTIC BLVD	Plate 1	
Car washes with engine or undercarriage cleaning	C08	C8-1	A	Low		3800 MINNESOTA DR	Plate 1	
Body shops (automotive)	C05	C5-2	A	Medium		2905 ARCTIC BLVD	Plate 1	
Orchards or nurseries	A10	A10-1	A	Medium		601 W 41ST AVE # D	Plate 1	
Printers, publishers, copiers	C37	C37-4	A	Low		3685 ARCTIC BLVD	Plate 1	
Hardware stores	C17	C17-1	A	Low		4205 COPE ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-2	A	Low		700 W 41ST AVE # J	Plate 1	
Hardware stores	C17	C17-2	A	Low		3207 ARCTIC BLVD	Plate 1	
Lawn and garden supplies/services	C23	C23-1	A	Medium		3105 CHEECHAKO ST	Plate 1	
Pest extermination services/pesticide sales	C33	C33-1	A	Low		1403 W 33RD AVE	Plate 1	
Printers, publishers, copiers	C37	C37-5	A	Low		4220 B ST # 210	Plate 1	
Construction trade areas and materials	C09	C9-2	A	Low		511 W 41ST AVE	Plate 1	
Sign manufacturing	I39	I39-1	A	Medium		3404 ARCTIC BLVD	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Gasoline stations (with repair shop)	C16	C16-2	A	Low		3607 SPENARD RD	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-3	A	Medium		150 W TUDOR RD	Plate 1	<i>ADEC LUST File # L30.12 and Site Name MAPCO - EXPRESS #5012.</i> Petroleum hydrocarbon contaminated soil and groundwater was encountered in September of 1987 during the removal of three (3) USTs (two gasoline and one diesel). Approximately 1,100 cubic yards of contaminated soils were removed in May of 1989 and later transported offsite for treatment and disposal. Groundwater monitoring wells were installed to determine the magnitude and extent of contamination. Benzene concentrations during the groundwater sampling periods in 1990 and 1991 were as high as 35 ppm in MW-3. An in-situ vapor extraction system (VES) was installed to aid in the remediation of groundwater at this site in 1993 and operated on a continuous basis until April of 2000. In conjunction with the VES, an air injection system (AIS) was installed in October of 1996 following the discovery of free petroleum product on the water table. Groundwater samples taken September 28, 2001 indicated the presence of petroleum hydrocarbons in MW-11 (north of excavation) with benzene (0.97 ppm) still over the MCL (0.005 ppm) for drinking water. However, concentrations of all constituents have shown a marked decrease since the June 2000 sampling period. This is due mostly in part to the removal of the contaminated soils coupled with the natural attenuation and dispersion of the contaminant plume. The next sampling period was scheduled for March 2002. The results of those tests are currently not available.
Heavy equipment rental/storage	C18	C18-1	A	Low		3600 ARCTIC BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-6	A	Low		600 W NORTHERN LIGHTS BLVD	Plate 1	
Heavy equipment rental/storage	C18	C18-2	A	Low		3940 ARCTIC BLVD # 300	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-23	A	Low		343 W BENSON BLVD # 3	Plate 1	
Race tracks (automotive)	C38	C38-1	A	Low		3600 EUREKA ST	Plate 1	
Printers, publishers, copiers	C37	C37-7	A	Low		702 W 32ND AVE	Plate 1	
Hardware stores	C17	C17-3	A	Low		3699 SPRINGER ST	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-5	A	Low		3719 ARCTIC BLVD.	Plate 1	ADEC LUST File # L55.48 and Site Name ARCTIC ANNEX BUILDING. Gasoline contaminated soil and groundwater was discovered during the removal of a 6,000-gallon unleaded gasoline UST in November of 1989. Approximately 65 cubic yards of contaminated soils were excavated and were temporarily stockpiled onsite. Sampling/results of groundwater from monitoring wells indicated 1.34 ppm benzene, 4.4 ppm ethylbenzene, 19.2 ppm toluene, and 25.5 ppm xylenes during the November sampling period. Contaminated soils were transported offsite for disposal at the Anchorage Regional Landfill in September of 1990. Groundwater samples taken in 1991 - 1998 continued to show petroleum hydrocarbons above the MCL for both soil and drinking water. In July of 1998, ADEC requested that the responsible party continue to monitor groundwater contamination on a semi-annual basis coupled with the submittal of a Corrective Action Plan for the existing soil contamination at this site. No information has been received by ADEC since 1998.
Laundromats without dry cleaning	C22	C22-1	A	Low		701 W 36TH AVE	Plate 1	
Gasoline stations (without repair shop)	C15	C15-3	A	Low		3603 ARCTIC BLVD	Plate 1	
Gasoline stations (with repair shop)	C16	C16-1	A	Low		810 W TUDOR RD	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-2	A	Low		810 W TUDOR RD	Plate 1	ADEC LUST File # L25.09 and Site Name ARCTIC TEXACO. Soil and groundwater contamination was discovered in February of 1992 as the result of a line failure between a turbine pump and the dispenser for a fuel UST system. Approximately 1,481 tons of contaminated soils were removed and transported offsite for treatment and processing. Groundwater monitoring wells were installed and samples were taken of the groundwater in January of 1994. Petroleum hydrocarbon concentrations during this sampling period were above MCLs for drinking water. A soil vapor extraction system (VES) was installed to aid in the remediation of the site in 1989. Additionally, a groundwater treatment system (GTS) was installed in 1997-1998. Quarterly groundwater samples were submitted to ADEC beginning in 1994 through continue today. Groundwater samples/results from March of 2001 continued to show petroleum hydrocarbons above MCLs for drinking water. Sample results from December 2001 are currently being reviewed by ADEC.

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Agricultural chemical sales/storage	C02	C2-1	A	Medium		701 W 41ST AVE # 103	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-6	A	Low		3000 ARCTIC BLVD.	Plate 1	ADEC LUST File # L69.42 and Site Name AWWU - ANCHORAGE WATER & WASTEWATER UTILITY HEADQUARTERS BUILDING. Soil contamination was discovered during the removal of two gasoline USTs in April of 1993. Approximately 630 tons of contaminated soils exceeding Level A Cleanup Standards were excavated and transported offsite for thermal treatment. ADEC has no additional information is available at this time on current site conditions.
Florists	C12	C12-1	A	Low		3600 SPENARD RD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-1	A	Low		700 W 41ST AVE	Plate 1	
Printers, publishers, copiers	C37	C37-8	A	Low		4639 KENT ST	Plate 1	
Scrap, salvage, or junk yards	D59	D59-1	A	High		1310 W. 56th Avenue	Plate 1	
Construction trade areas and materials	C09	C9-3	A	Low		3120 DENALI ST	Plate 1	
Jewelry manufacturing	I22	I22-1	A	Medium		3000 A ST	Plate 1	
Pharmacies	C35	C35-1	A	Low		173 E NORTHERN LIGHTS BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-24	A	Low		4500 BUSINESS PARK BLVD # C10	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-25	A	Low		4500 BUSINESS PARK BLVD # 10	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-26	A	Low		700 W NORTHERN LIGHTS BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-27	A	Low		405 W 36TH AVE # 100	Plate 1	
Hardware stores	C17	C17-4	A	Low		3227 ARCTIC BLVD	Plate 1	
Construction trade areas and materials	C09	C9-4	A	Low		1206 CHUGACH WAY	Plate 1	
Construction trade areas and materials	C09	C9-5	A	Low		1503 W 45TH AVE	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-2	A	Low		3565 ARCTIC BLVD	Plate 1	
Construction trade areas and materials	C09	C9-6	A	Low		3605 ARCTIC BLVD # 729	Plate 1	
Construction trade areas and materials	C09	C9-7	A	Low		3333 DENALI ST	Plate 1	
Heavy equipment rental/storage	C18	C18-3	A	Low		700 W 41ST AVE	Plate 1	
Hardware stores	C17	C17-5	A	Low		4263 MINNESOTA DR	Plate 1	
Hardware stores	C17	C17-6	A	Low		4011 ARCTIC BLVD # 206	Plate 1	
Heavy equipment rental/storage	C18	C18-4	A	Low		101 W BENSON BLVD # 503	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-5	A	Low		1401 W. 33RD	Plate 1	ADEC LUST File # L55.02 and Site Name E. J. YOUNG. Soil contamination was discovered during the excavation of an UST in May of 1990. Contaminated soils were excavated and stockpiled onsite for bioremediation in June of 1990. Treated soils were then placed back into the excavation pit in 1992. In December of 1997, the excavation surface was paved to decrease the amount of precipitation that infiltrates the soil at this site. On December 17, 1997, a No Further Action letter was issued by ADEC and site closure was complete.
Construction trade areas and materials	C09	C9-8	A	Low		1207 W 47TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-9	A	Low		3300 ARCTIC BLVD # 205	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-2	A	Low		3400 SPENARD RD	Plate 1	
Jewelers	C19	C19-1	A	Low		601 W 36TH AVE # 16	Plate 1	
Florists	C12	C12-2	A	Low		343 W BENSON BLVD # 7	Plate 1	
Printers, publishers, copiers	C37	C37-9	A	Low		3685 ARCTIC BLVD	Plate 1	
Textile manufacturing	I45	I45-1	A	Medium		510 W 41ST AVE	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATVs, snow machines, boats (with service department)	C27	C27-2	A	Medium		3231 SPENARD RD	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-3	A	Low		701 W 41ST AVE	Plate 1	
Construction trade areas and materials	C09	C9-10	A	Low		4101 ARTIC BLVD # 102	Plate 1	
Government vehicle maintenance facilities	X19	X19-2	A	Medium		3601 C ST # 1034	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-2	A	Low		1311 W 40th Avenue	Plate 1	ADEC Contaminated Sites File # CS100.148 and Site Name Former Auto Repair Shop. Evicted tenants left drums and batteries, junk autos, and several open containers. Site assessment in August of 1995 found petroleum had been discharged from 55-gallon drums onto the driveway that resulted in contamination of soil in adjacent unpaved, shallow roadside ditch. Site is INACTIVE.
Leaking Underground Fuel Storage Tank (LUST) Site	U04	U4-38	A	Low		2808 Eureka Street	Plate 1	ADEC Contaminated Sites File # CS96.67 and Site Name Former Ice Seafood Unreg. UST. Soil and groundwater contamination was discovered resulting from an unregulated leaking 1,000-gallon commercial heating oil underground storage tank (UST). Contaminated soils were removed and groundwater monitoring continued up until late 1996 when petroleum hydrocarbon contamination decreased enough to issue a "No Further Action" request for the site. This site has been CLOSED since March of 1997.

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Hardware stores	C17	C17-19	A	Low		3309 SPENARD RD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-2	A	Low		3903 COPE ST	Plate 1	
Construction trade areas and materials	C09	C9-11	A	Low		3705 ARCTIC BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-10	A	Low		2805 BERING ST	Plate 1	
Body shops (automotive)	C05	C5-3	A	Medium		1306 CHUGACH WAY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-28	A	Low		3510 SPENARD RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-3	A	Low		111 E NORTHERN LIGHTS BLVD	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-7	A	Low		111 E NORTHERN LIGHTS BLVD	Plate 1	ADEC LUST File # L55.98 and Site Name GRAND AUTO SUPPLY #217. Waste oil contamination was discovered in the soils during the removal of a 500-gallon UST in October of 1990. Approximately 45 cubic yards of contaminated soil was excavated from the site and transported offsite. No further action was required and site closure was complete in August of 1992.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-29	A	Low		702 W 32ND AVE # 202	Plate 1	
Construction trade areas and materials	C09	C9-13	A	Low		301 W NORTHERN LIGHTS # 300	Plate 1	
Printers, publishers, copiers	C37	C37-11	A	Low		341 W TUDOR RD # 206	Plate 1	
Motor / motor vehicle repair shops	C31	C31-4	A	Medium		3207 DENALI ST	Plate 1	
Hardware stores	C17	C17-7	A	Low		341 W TUDOR RD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-3	A	Low		1408 W 36TH AVE	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-3	A	Low		301 E NORTHERN LIGHTS BLVD	Plate 1	ADEC LUST File # and Site Name HEGEDUS & SONS FIRESTONE. Petroleum soil & shallow groundwater contamination found during gasoline & waste oil tank removal. Amount of product loss unknown. Site closed out unless concrete apron is removed then further action will need to be taken.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-30	A	Low		2909 ARCTIC BLVD # 101	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-3	A	Low		701 SESAME ST # 200	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-2	A	Medium		4500 BUSINESS PARK BLVD # 18	Plate 1	
Taxidermists	C41	C41-1	A	Medium		704 W 45TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-15	A	Low		3333 DENALI ST	Plate 1	
Hardware stores	C17	C17-8	A	Low		1207 W 36TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-16	A	Low		1204 CHUGACH WAY	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Hardware stores	C17	C17-9	A	Low		500 W 41ST AVE	Plate 1	
Hardware stores	C17	C17-10	A	Low		3703 SPENARD RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-31	A	Low		541 W 36TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-17	A	Low		3705 ARCTIC BLVD # 1189	Plate 1	
Jewelers	C19	C19-2	A	Low		1303 W 33RD AVE	Plate 1	
Motor / motor vehicle repair shops	C31	C31-5	A	Medium		3611 1/2 SPENARD RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-4	A	Low		300 CALAIS DR	Plate 1	
Rubber fabrication or manufacturing	I38	I38-1	A	Low		3380 C ST # 205	Plate 1	
Motor / motor vehicle repair shops	C31	C31-6	A	Medium		3330 DENALI ST	Plate 1	
Printers, publishers, copiers	C37	C37-12	A	Low		4220 B ST # 210	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-4	A	Low		4101 ARCTIC BLVD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-5	A	Low		501 W 41ST AVE	Plate 1	
Printers, publishers, copiers	C37	C37-13	A	Low		700 W 41ST AVE	Plate 1	
Hardware stores	C17	C17-11	A	Low		4141 B ST # 207	Plate 1	
Lumber processing and preservation	N04	N4-2	A	Medium		3501 DENALI ST # 202	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-32	A	Low		401 E 36TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-33	A	Low		3501 DENALI ST # 302	Plate 1	
Printers, publishers, copiers	C37	C37-14	A	Low		600 W 41ST AVE # A	Plate 1	
Paint sales /service	C32	C32-1	A	Low		555 W NORTHERN LIGHTS BL # 207	Plate 1	
Machine and metal work shops	I23	I23-1	A	High		200 W 34TH AVE # 979	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV s, snow machines, boats (with service department)	C27	C27-3	A	Medium		3710 SPENARD RD	Plate 1	
Gasoline stations (without repair shop)	C15	C15-1	A	Low		150 W TUDOR RD	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-3	A	Low		150 W TUDOR RD	Plate 1	ADEC LUST File # L30.12 and Site Name MAPCO - EXPRESS #5012. Petroleum hydrocarbon contaminated soil and groundwater was encountered in September of 1987 during the removal of three (3) USTs (two gasoline and one diesel). Approximately 1,100 cubic yards of contaminated soils were removed in May of 1989 and later transported offsite for treatment and disposal. Groundwater monitoring wells were installed to determine the magnitude and extent of contamination. Benzene concentrations during the groundwater sampling periods in 1990 and 1991 were as high as 35 ppm in MW-3. An in-situ vapor extraction system (VES) was installed to aid in the remediation of groundwater at this site in 1993 and operated on a continuous basis until April of 2000. In conjunction with the VES, an air injection system (AIS) was installed in October of 1996 following the discovery of free petroleum product on the water table. Groundwater samples taken September 28, 2001 indicated the presence of petroleum hydrocarbons in MW-11 (north of excavation) with benzene (0.97 ppm) still over the MCL (0.005 ppm) for drinking water. However, concentrations of all constituents have shown a marked decrease since the June 2000 sampling period. This is due mostly in part to the removal of the contaminated soils coupled with the natural attenuation and dispersion of the contaminant plume. The next sampling period was scheduled for March 2002. The results of those tests are currently not available.
Gasoline stations (without repair shop)	C15	C15-4	A	Low		3201 C ST # 700	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-22	A	Low		2805 DAWSON ST # 100	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-34	A	Low		601 W 41ST AVE # 102	Plate 1	
Jewelry manufacturing	I22	I22-2	A	Medium		3300 ARCTIC BLVD	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-1	A	Low		3737 ARCTIC BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-15	A	Low		601 W 36TH AVE # 7	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-35	A	Low		4101 ARCTIC BLVD	Plate 1	



Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-7	A	Low		4333 BERING ST	Plate 1	<i>ADEC LUST File # L69.43 and Site Name MOA - BERING STREET MAINTENANCE SHOP.</i> Soil contamination was discovered during the removal of 5,000-gallon used oil UST in May of 1993 (Event ID 360). During this closure event, one 5,000-gallon gasoline and one 500-gallon used oil USTs were discovered. The two 5,000-gallon tanks were removed and the 500-gallon tank was closed in place. Approximately 400 cubic yards of contaminated soils were removed from the excavation. In October of 1996, a soil vapor extraction (SVE) system was installed to enhance the remediation of the site. In October of 1998, a 12,000-gallon gasoline UST was removed from the same property (Event ID 2656). Soils and groundwater contained gasoline range organics and BTEX over the MCL for ADEC Level A Cleanup Standards. Contaminated soils were removed from the excavation pit and transported offsite for thermal treatment. The Work Plan for this site entails quarterly groundwater monitoring in 2001. Laboratory results were expected in January 2002 and a report summarizing the results should have been submitted to ADEC in February 2002. ADEC is in the process of acquiring the results of the February 2002 sampling period.
Body shops (automotive)	C05	C5-4	A	Medium		1104 1/2 W 30TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-18	A	Low		3702 SPENARD RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-36	A	Low		240 E TUDOR RD # 100	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-5	A	Low		3400 SPENARD RD # A	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-10	A	Low		301 W NORTHERN LIGHTS BLVD	Plate 1	<i>ADEC LUST File # L55.161 and Site Name NATIONAL BANK OF ALASKA Corp HQ.</i> Soil and slight groundwater contamination was discovered during the removal of a 500-gallon diesel UST in November of 1992. Groundwater monitoring wells were installed and contaminated soils were excavated in June of 1993. Contaminated soils were spread onsite due to their low level of contamination. Monitoring wells were decommissioned and site closure was complete on June 22, 1993.
Construction trade areas and materials	C09	C9-19	A	Low		712 W 36TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-37	A	Low		3330 EAGLE ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-6	A	Low		3408 ARCTIC BLVD	Plate 1	
Heavy equipment rental/storage	C18	C18-5	A	Low		4700 BUSINESS PARK BLVD # 19	Plate 1	
Leather processing	C24	C24-1	A	Medium		3605 ARCTIC BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-16	A	Low		4011 ARCTIC BLVD # 103	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-38	A	Low		207 E NORTHERN LIGHTS BL # 201	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-39	A	Low		4101 ARCTIC BLVD	Plate 1	
Hardware stores	C17	C17-12	A	Low		702 W 32ND AVE	Plate 1	
Windshield/glass repair shops	C44	C44-1	A	Low		3221 DENALI ST	Plate 1	
Heavy equipment rental/storage	C18	C18-6	A	Low		101 W BENSON BLVD # 503	Plate 1	
Construction trade areas and materials	C09	C9-20	A	Low		240 E TUDOR RD # 200	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-4	A	Low		240 E TUDOR RD # 200	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-40	A	Low		3601 C ST # 260	Plate 1	
Construction trade areas and materials	C09	C9-21	A	Low		3510 SPENARD RD # 105	Plate 1	
Metal refining	I28	I28-1	A	High		3406 ARCTIC BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-41	A	Low		4000 CREDIT UNION DR # 600	Plate 1	
Hardware stores	C17	C17-13	A	Low		3209 SPENARD RD	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-8	A	Low		3707 ARCTIC BLVD	Plate 1	<i>ADEC LUST File # 55.103 and Site Name LK COMSTOCK AND COMPANY.</i> Near surface soil contamination was discovered during the removal of one 800-gallon diesel tank and one 1200-gallon gasoline UST in January of 1991. Contaminated soils were excavated and transported offsite from disposal. A groundwater monitoring well installed downgradient of the contaminated area detected no petroleum hydrocarbons. No further action was issued by ADEC in February of 1992.
Petroleum product bulk station/terminals	X11	X11-1	A	Low		3111 C ST # 500	Plate 1	
Heavy equipment rental/storage	C18	C18-7	A	Low		502 W NORTHERN LIGHTS BLVD	Plate 1	
Dry cleaners	C10	C10-1	A	Low		2700 A ST	Plate 1	
Injection wells (Class V) Industrial Process Water & Water Disposal Wells	D40	D40-1	A	Low		2700 A ST	Plate 1	
Printers, publishers, copiers	C37	C37-17	A	Low		702 W NORTHERN LIGHTS BLVD	Plate 1	
Lawn and garden supplies/services	C23	C23-2	A	Medium		3807 COPE ST	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-3	A	Medium		520 W 41ST AVE # A	Plate 1	
Welding shops	C43	C43-1	A	Medium		3705 ARCTIC BLVD # 111	Plate 1	
Construction trade areas and materials	C09	C9-22	A	Low		1401 W 34TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-23	A	Low		1399 W 34TH AVE # 205	Plate 1	
Motor / motor vehicle repair shops	C31	C31-7	A	Medium		1207 CHUGACH WAY	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Printers, publishers, copiers	C37	C37-18	A	Low		600 W NORTHERN LIGHTS BLVD	Plate 1	
Hardware stores	C17	C17-14	A	Low		702 W 32ND AVE # 101	Plate 1	
Construction trade areas and materials	C09	C9-24	A	Low		1206 W 47TH AVE # A	Plate 1	
Motor / motor vehicle repair shops	C31	C31-8	A	Medium		1106 WILSHIRE AVE	Plate 1	
Sign manufacturing	I39	I39-2	A	Medium		3909 ARCTIC BLVD	Plate 1	
Paint sales /service	C32	C32-2	A	Low		3705 ARCTIC BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-19	A	Low		3201 C ST # 115	Plate 1	
Hardware stores	C17	C17-15	A	Low		3300 C ST	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-5	A	Low		207 E NORTHERN LIGHTS # 103 A	Plate 1	
Construction trade areas and materials	C09	C9-25	A	Low		3700 SPRINGER ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-7	A	Low		401 W TUDOR RD # C	Plate 1	
Asphalt and tar processing/storage	I03	I3-2	A	Medium		701 W 41ST AVE # 103	Plate 1	
Hardware stores	C17	C17-16	A	Low		3205 SPENARD RD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-6	A	Low		1107 W 36TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-42	A	Low		3803 MCCAIN LOOP	Plate 1	
Florists	C12	C12-3	A	Low		601 W 41ST AVE # B	Plate 1	
Printers, publishers, copiers	C37	C37-20	A	Low		521 W 41ST AVE	Plate 1	
Dry cleaners	C10	C10-2	A	Low		2811 DAWSON ST	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-11	A	Low		3630 SPRINGER ST	Plate 1	<i>ADEC LUST File # L55.277 and Site Name SUNRISE DISTRIBUTING CO, INC.</i>
Hardware stores	C17	C17-17	A	Low		3695 SPRINGER ST	Plate 1	
Gasoline stations (without repair shop)	C15	C15-2	A	Low		101 E NORTHERN LIGHTS BLVD	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-9	A	Low		101 E NORTHERN LIGHTS BLVD	Plate 1	<i>ADEC LUST File # 55.130 and Site Name TESORO NORTHSTORE #72 and BAILEYS RENT ALL (FORMERLY). In October of 1991, soil contamination was discovered during the removal of a diesel, gasoline, and used oil underground tanks (500 gallons each). Contaminated soils were excavated. No further action was issued and site cleanup was complete in September of 1996..</i>
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-12	A	Low		3601 C ST	Plate 1	<i>ADEC LUST File # L55.327 nfa and Site Name THE FRONTIER BUILDING. Minor soil contamination was discovered during the removal of a 300-gallon diesel UST in February of 1999. Contaminated soils were removed from the excavation. A No Further Action letter written by ADEC on 05 May 1999.</i>
Printers, publishers, copiers	C37	C37-21	A	Low		300 W 36TH AVE	Plate 1	
Hardware stores	C17	C17-18	A	Low		701 SESAME ST # 102	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Motor vehicle/general storage yards/facilities	X27	X27-2	A	Low		341 W TUDOR RD	Plate 1	
Pest extermination services/pesticide sales	C33	C33-2	A	Low		1104 W 30TH AVE	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-4	A	Low		401 W Tudor Road	Plate 1	<i>ADEC Contaminated Sites File # CS100.158 and Site Name Tudor Rd. Dimond Z.</i> Surface staining and soil contamination was discovered during a property transfer on May 26, 1994. Minor groundwater contamination had occurred. This site is CLOSED (September 1999).
Lawn and garden supplies/services	C23	C23-3	A	Medium		3804 WILSON ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-43	A	Low		701 SESAME ST # 101	Plate 1	
Florists	C12	C12-4	A	Low		242 W 34TH AVE	Plate 1	
Closed tanks, lubricants or other petroleum products (underground)	T21	T21-1	A	Low		300 E 36TH AVE	Plate 1	500-gallons
Government vehicle maintenance facilities	X19	X19-1	A	Medium		300 E 36TH AVE	Plate 1	
Printers, publishers, copiers	C37	C37-22	A	Low		200 W 34TH AVE # 658	Plate 1	
Pharmacies	C35	C35-2	A	Low		3101 A ST	Plate 1	
Construction trade areas and materials	C09	C9-26	A	Low		3909 ARCTIC BLVD	Plate 1	
Construction trade areas and materials	C09	C9-27	A	Low		4101 ARCTIC BLVD # 203	Plate 1	
Motor / motor vehicle repair shops	C31	C31-9	A	Medium		1303 W 33RD AVE	Plate 1	
Construction trade areas and materials	C09	C9-28	A	Low		511 W 41ST AVE	Plate 1	
Jewelry manufacturing	I22	I22-3	A	Medium		3300 ARCTIC BLVD	Plate 1	
Gasoline stations (without repair shop)	C15	C15-6	A	Low		3500 C ST	Plate 1	
Gasoline stations (without repair shop)	C15	C15-5	A	Low		3201 C ST	Plate 1	
Gasoline stations (without repair shop)	C15	C15-8	A	Low		3727 SPENARD RD	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-8	A	Low		3727 SPENARD RD	Plate 1	<i>ADEC LUST File # L.30.30 and Site Name WILLIAMS EXPRESS #5030.</i> A 2,500-gallon heating oil UST was removed from the site in 1991. Confirmation soil samples indicated the presence of petroleum hydrocarbons. Further site characterization work in 1991 confirmed impacted soils and groundwater. In June and July of 1999 soils were excavated to determine severity of the release during tank upgrades (Event ID 2349). Approximately 120 cubic yards of fuel contaminated soil was removed from the excavation and transported offsite for treatment and disposal. To evaluate the magnitude and extent of groundwater contamination, six monitoring wells were installed. Groundwater samples confirmed the presence of elevated petroleum hydrocarbons. On March 22, 2001 gasoline was spilled on-site due to overfilling of the USTs (Event ID 2660). An additional monitoring well was installed and sampled. The results of that sampling verified the presence of petroleum impacted groundwater. It is not apparent whether or not the impacted groundwater is a result of the 2001 spill event, the existing contaminant plume from the former UST excavations on-site, or contaminant sources on adjacent properties. A phased approach for addressing groundwater contamination at this site is described in a November 7, 2001 submittal of a Corrective Action Plan (CAP). In the spring of 2002, the CAP will be implemented and will include a combined vapor extraction and air injection system to treat the impacted contaminant source area. Groundwater was sampled in March/April of 2002. The results of those tests are currently not available.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-44	A	Low		341 W TUDOR RD # 106	Plate 1	
Lubrication shops	C25	C25-1	A	Medium		150 E BENSON BLVD	Plate 1	
Gasoline stations (with repair shop)	C16	C16-3	A	Low		3304 SPENARD RD	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-2	A	Low		3304 SPENARD RD	Plate 1	<i>ADEC LUST File # L25.07.44 and Site Name Y &amp; B TEXACO #24.</i> Gasoline and waste oil contamination was encountered in soils during an waste oil UST removal in August of 1988. Approximately 300 cubic yards of soil was excavated and disposed of in an ADEC approved manner. The excavation was then backfilled with clean gravel and sand prior to the installation of the new UST system. Site cleanup was complete in October of 1988.

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-13	A	Low		3600 DENALI ST	Plate 1	ADEC LUST File # L69.62 and Site Name Z J LOUSSAC PUBLIC LIBRARY. Minimal soil contamination was discovered during the removal of a 1,000-gallon diesel UST in December of 1997. The tank was removed and a new 1,000-gallon double-walled UST was put in its place. No further action was required by ADEC in September of 1998.
Printers, publishers, copiers	C37	C37-1	A	Low		4011 ARTIC BLVD # 107	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-1	A	Low		3300 C ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-2	A	Low		3601 C ST # 574	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-3	A	Low		3201 C ST # 107	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-4	A	Low		3401 DENALI ST # 203	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-5	A	Low		405 W 36TH AVE # 101	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-6	A	Low		3340 ARCTIC BLVD # 104	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-7	A	Low		3401 DENALI ST # 102	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-8	A	Low		240 E TUDOR RD # 100	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-9	A	Low		3401 DENALI ST # 201	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-10	A	Low		741 SESAME ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-11	A	Low		3401 DENALI ST # 102	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-12	A	Low		3201 C ST # 107	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-13	A	Low		4060 B ST # 110	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-14	A	Low		3900 ARCTIC BLVD # 103	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-15	A	Low		4141 B ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-16	A	Low		4300 B ST # 202	Plate 1	
Residential area	R01	R1-1	A	Low		Zone A Protection Area	3	266 acres
Landscaping around commercial, industrial, or government buildings	X03	X3-1	A	Low		Eureka and 36th Avenue	3	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Landscaping around commercial, industrial, or government buildings	X03	X3-2	A	Low		3800 Arctic Blvd	3	
Landscaping around commercial, industrial, or government buildings	X03	X3-3	A	Low		3500 Spenard	3	
Landscaping around commercial, industrial, or government buildings	X03	X3-4	A	Low		401 - 405 Northen Lights Blvd	3	
Municipal or city parks (with green areas)	X04	X4-1	A	Low		Midtown Park	3	
Municipal or city parks (with green areas)	X04	X4-2	A	Low		Springer Park	3	
Municipal or city parks (with green areas)	X04	X4-3	A	Low		Pop Carr park	3	
Municipal or city parks (with green areas)	X04	X4-4	A	Low		48th St	3	
Municipal or city parks (with green areas)	X04	X4-5	A	Low		Arctic/Benson Park	3	
Municipal or city parks (with green areas)	X04	X4-6	A	Low		Wilson Street Park	3	
Highways and roads, paved (cement or asphalt)	X20	X20-1 - X20-80	A	Low		All roads in Zone A Protection Area	4	
Residential septic systems (serves one single-family home)	R02	R2-1 - R2-6	A	Low		All septic systems in Zone A Protection Area	5	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-1 - D1-115	A	Low		All sewerlines in Zone A Protection Area	5	
Furniture manufacturing, repair, and finishing shops	C14	C14-7	B	Low		4841 FAIRBANKS ST # I	Plate 1	
Gasoline stations (without repair shop)	C15	C15-12	B	Low		5121 ARCTIC BLVD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-8	B	High		501 W INTL AIRPORT RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-24	B	Medium		601 W 58TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-12	B	High		737 E INTL AIRPORT RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-12	B	Medium		4617 OLD SEWARD HWY	Plate 1	
Printers, publishers, copiers	C37	C37-29	B	Low		549 W INTL AIRPORT RD # 812	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-5	B	Medium		512 W INTL AIRPORT RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-10	B	Medium		600 Telephone Avenue	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-5	B	Low		600 Telephone Avenue	Plate 1	ADEC Contaminated Sites File # CS 100.155 and Site Name ACS Warehouse. Hydraulic fluid released from a floor lift under the facility building. Approximately 40 cubic yards of soil was reportedly excavated from this area. Analytical results indicate that diesel range organic (DRO) concentrations remaining in the soil were as high as 2,130 mg/kg and residual range organic (RRO) concentration at 6,350 mg/kg. This site is currently INACTIVE.

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-20	B	Low		600 Telephone Avenue	Plate 1	<i>ADEC LUST File # L69.21 and Site Name MOA - ANCHORAGE TELEPHONE UTILITY. This is a combination ADEC Contaminated Site (CS 100.155 ) and LUST Site. See Contaminant Source ID Tag U4-5. Petroleum hydrocarbon contamination was found during an underground tank system removal in July of 1991. The tanks and contaminated soils were excavated from the site and cleanup was completed in March of 1993.</i>
Motor / motor vehicle repair shops	C31	C31-25	B	Medium		5610 SILVERADO WAY # A3	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV s, snow machines, boats (with service department)	C27	C27-5	B	Medium		3901 OLD SEWARD HWY	Plate 1	
Heavy equipment rental/storage	C18	C18-18	B	Low		100 W INTERNATIONAL AIRPORT RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-26	B	Medium		737 E INTL AIRPORT RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-16	B	Low		5235 A ST	Plate 1	
Construction trade areas and materials	C09	C9-37	B	Low		261 E 56TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-38	B	Low		520 W 58TH AVE # J	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-4	B	Medium		910 W INTERNATIONAL AIRPORT RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-10	B	Low		4109 OLD SEWARD HWY # 100	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-25	B	High		3200 SEWARD HWY	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-5	B	Medium		350 E INTL AIRPORT RD	Plate 1	
Construction trade areas and materials	C09	C9-39	B	Low		720 W 58TH AVE # D	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-50	B	Low		4637 OLD SEWARD HWY	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-6	B	Low		4550 Gambell Street	Plate 1	<i>No ADEC Contaminated Sites File #. Site Name Alaska Club Partners. Drums of petroleum products have spilled over the years creating patches of contamination in the surface and subsurface soil. Contaminated soil are stockpiled (12 cy) and will be transported offsite for thermal treatment in the spring of 2002. Site is currently ACTIVE.</i>
Motor/motor vehicle supplies stores	C28	C28-17	B	Low		552 W 58TH AVE # J	Plate 1	
Construction trade areas and materials	C09	C9-32	B	Low		4953 EAGLE ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-18	B	Low		1200 W INTL AIRPORT RD	Plate 1	



Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-28	B	Low		1200 W INTL AIRPORT RD	Plate 1	ADEC LUST File # L55.307 and Site Name ALASKA DIESEL ELECTRIC INC. During the removal of a 1,000-gallon gasoline UST in November 1994, soil contamination was discovered below ADEC Level B cleanup levels. The tank was removed and the excavation pit was backfilled with the soil. ADEC issued a No Further Action letter in August of 1998.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-80	B	Low		540 W INTERNATIONAL AIRPORT RD	Plate 1	
Construction trade areas and materials	C09	C9-40	B	Low		5610 SILVERADO WAY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-68	B	Low		3546 LATOUCHE ST	Plate 1	
Heavy equipment rental/storage	C18	C18-19	B	Low		5610 SILVERADO WAY # A7	Plate 1	
Leather processing	C24	C24-2	B	Medium		4417 OLD SEWARD HWY	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-9	B	Low		144 E POTTER DR	Plate 1	
Battery manufacturing/recycling	I06	I6-2	B	High		4142 INGRA ST	Plate 1	
Hardware stores	C17	C17-28	B	Low		500 W POTTER DR	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-11	B	Low		500 W POTTER DR	Plate 1	ADEC Contaminated Sites File # CS CS100.65 and Site Name ALASKA HYDRAULICS INC.. A citizens complaint was made about used diesel oil being dumped on the adjacent property. The practice had been going on for some time according to the complainant. Contaminated soils were excavated in August of 1991 and no further action was granted in July of 1992. Site is CLOSED.
Hardware stores	C17	C17-20	B	Low		4700 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-41	B	Low		649 W 54TH AVE	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-16	B	Low		325 W POTTER DR	Plate 1	ADEC LUST File # L55.174 and Site Name ALASKA NEWS AGENCY. Petroleum contaminated soil and groundwater was encountered during the removal of a 2,000 gallon unleaded gasoline UST in August of 1993. A LUST cleanup grant was received by the responsible party in November of 1997. Soil and groundwater samples taken in May of 1998 indicated that the benzene plume had not migrated more than 60 feet from the UST excavation area. In August of 1998, a soil vapor extraction (SVE) system was tested on-site. ADEC file records show that monitoring wells were last sampled on October 21, 1999. No additional information is available at this time.

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Motor vehicle rental facilities - cars, trucks, ATV's, snow machines (with service department)	C30	C30-6	B	Medium		712 W POTTER DR	Plate 1	
Printers, publishers, copiers	C37	C37-30	B	Low		401 W INTL AIRPORT RD # 11	Plate 1	
Heavy equipment rental/storage	C18	C18-20	B	Low		261 E 56TH AVE # A	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-7	B	Low		700 W 58TH AVE # J	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-81	B	Low		549 W INTL AIRPORT RD # B2	Plate 1	
Motor / motor vehicle repair shops	C31	C31-13	B	Medium		600 E 48TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-14	B	High		600 E 48TH AVE	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-6	B	Medium		5630 SILVERADO WAY # 8	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-8	B	Low		4651 Gambell Street	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-15	B	Low		4651 Gambell Street	Plate 1	<i>ADEC Contaminated Sites File # CS100.33 and Site Name Alaska Vehicle Accessories.</i> Surficial waste oil contaminated soils containing petroleum and chlorinated hydrocabons was documented in November of 1989. Sludge from the site's automotive workshop oil/water separator was spread in an adjacent alley. Approximately 100 cubic yards of contaminated soils excavated and transported offsite. File exists in CERCLA system but had no EPA ID# assigned. No further action was required as of March 1992. This site is CLOSED.
Motor / motor vehicle repair shops	C31	C31-27	B	Medium		107 E 54TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-23	B	High		107 E 54TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-51	B	Low		3315 FAIRBANKS ST	Plate 1	
Vocational training facilities	X45	X45-1	B	Low		701 E TUDOR RD	Plate 1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-2	B	Low		4000 OLD SEWARD	Plate 1	
Hardware stores	C17	C17-21	B	Low		3002 SEWARD HWY	Plate 1	
Hardware stores	C17	C17-22	B	Low		999 E TUDOR RD	Plate 1	
Construction trade areas and materials	C09	C9-33	B	Low		5100 CORDOVA ST # 100	Plate 1	
Body shops (automotive)	C05	C5-10	B	Medium		1313 LAONA CIR	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATV's, snow machines (with service department)	C30	C30-7	B	Medium		550 W 54TH AVE	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-82	B	Low		549 W INTL AIRPORT RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-19	B	Low		552 W 58TH AVE # H	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-13	B	High		220 E INTL AIRPORT RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-52	B	Low		4000 OLD SEWARD HWY # 100	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-34	B	High		224 E 54TH AVE	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-22	B	Low		3300 FAIRBANKS ST	Plate 1	<i>ADEC LUST File # L73.17 and Site Name ANCHORAGE DATA CENTER.</i> Diesel contamination of soils was found when a 2,000-gallon diesel UST was removed in October of 1997. Approximately 35 cubic yards of impacted soil was excavated and transported off-site for thermal treatment. Clean, imported fill material was used to backfill the excavation pit. LUST corrective action was initiated in March of 1998. No additional information is available at this time on the status of groundwater contamination remediation activities at this site.
Heavy equipment rental/storage	C18	C18-15	B	Low		1415 E TUDOR RD	Plate 1	
Body shops (automotive)	C05	C5-11	B	Medium		117 E 53RD AVE	Plate 1	
Sign manufacturing	I39	I39-3	B	Medium		4600 CORDOVA ST	Plate 1	
Hardware stores	C17	C17-29	B	Low		380 E 54TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-42	B	Low		5401 CORDOVA ST # 203	Plate 1	
Metal fabrication	I25	I25-1	B	High		5621 ARCTIC BLVD	Plate 1	
Hardware stores	C17	C17-30	B	Low		5735 B ST	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATV's, snow machines (with service department)	C30	C30-8	B	Medium		1130 W INTL AIRPORT RD	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATV's, snow machines (with service department)	C30	C30-9	B	Medium		601 W 58TH AVE	Plate 1	
Gasoline stations (with repair shop)	C16	C16-6	B	Low		1231 Redwood Court	Plate 1	
Printers, publishers, copiers	C37	C37-25	B	Low		1108 E NORTHERN LIGHTS BLVD	Plate 1	
Stone and clay processing/manufacturing	I43	I43-1	B	Medium		661 E 48TH AVE	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-7	B	Medium		5430 FAIRBANKS ST # 7	Plate 1	
Quarries (sand, gravel, rock, other?)	E10	E10-1	B	Low		314 E INTERNATIONAL AIRPORT RD	Plate 1	
Taxidermists	C41	C41-2	B	Medium		520 W 58TH AVE # D	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Motor vehicle dealerships - cars, trucks, motor cycles, ATVs, snow machines, boats (with service department)	C27	C27-6	B	Medium		909 E TUDOR RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-28	B	Medium		600 W 58TH AVE # J	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-8	B	Medium		520 W 58TH AVE # F	Plate 1	
Hardware stores	C17	C17-31	B	Low		621 W 54TH AVE	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-11	B	Low		4505 OLD SEWARD HWY	Plate 1	
Aircraft maintenance shops	C01	C1-1	B	Medium		639 W INTL AIRPORT RD # 30	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-23	B	Low		852 W INTERNATIONAL	Plate 1	<i>ADEC LUST File # L55.168 and Site Name B &amp; H PROPERTIES.</i> Soil contamination was found during the closure of a 1,000-gallon gasoline UST in May of 1993. UST excavation soil met ADEC Level B cleanup standards. Approximately 10 cubic yards of contaminated soils were removed from the excavation and transported offsite for thermal treatment. No further action was granted in October of 1993.
Motor vehicle/general storage yards/facilities	X27	X27-3	B	Low		4640 GAMBELL ST	Plate 1	
Heavy equipment rental/storage	C18	C18-8	B	Low		4730 BUSINESS PARK BLVD # 44	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-69	B	Low		3730 RHONE CIR	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-9	B	Medium		611 E INTL AIRPORT RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-62	B	Low		1515 E TUDOR RD # 3	Plate 1	
Hardware stores	C17	C17-32	B	Low		5801 ARCTIC BLVD	Plate 1	
Hardware stores	C17	C17-23	B	Low		4831 OLD SEWARD HWY # 115	Plate 1	
Heavy equipment rental/storage	C18	C18-9	B	Low		4111 INGRA ST	Plate 1	
Construction trade areas and materials	C09	C9-43	B	Low		401 W INTL AIRPORT RD # 12	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-20	B	Low		549 W INTL AIRPORT RD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-8	B	Low		3048 REDWOOD ST	Plate 1	
Sign manufacturing	I39	I39-4	B	Medium		5861 ARCTIC BLVD # A	Plate 1	
Printers, publishers, copiers	C37	C37-26	B	Low		1108 E NORTHERN LIGHTS BLVD	Plate 1	
Lumber processing and preservation	N04	N4-3	B	Medium		999 E TUDOR RD # 1	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Construction trade areas and materials	C09	C9-44	B	Low		852 W INTERNATIONAL RD # 101	Plate 1	
Motor / motor vehicle repair shops	C31	C31-14	B	Medium		4625 OLD SEWARD HWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-70	B	Low		3315 VASSAR DR	Plate 1	
Heavy equipment rental/storage	C18	C18-10	B	Low		5100 CORDOVA ST	Plate 1	
Pharmacies	C35	C35-3	B	Low		600 E NORTHERN LIGHTS BLVD	Plate 1	
Machine and metal work shops	I23	I23-2	B	High		700 E 46TH AVE	Plate 1	
Metal fabrication	I25	I25-2	B	High		212 E INTL AIRPORT RD	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-17	B	Low		212 E INTL AIRPORT RD	Plate 1	<i>ADEC LUST File # L55.92 and Site Name CENTRAL PLUMBING &amp; HEATING INC.</i> Gasoline contamination was present in the soil and groundwater during an underground storage tank excavation in August of 1990. Late in 1991, benzene and 1,2-dichloroethane exceeded the MCL for drinking water in one groundwater monitoring well. A total of 139 tons of contaminated soils were removed from the site for thermal treatment. Groundwater monitoring continued through 1995 when ADEC issued a No Further Action letter.
Gasoline stations (with repair shop)	C16	C16-4	B	Low		2927 SEWARD HWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-10	B	Low		2927 SEWARD HWY	Plate 1	<i>ADEC LUST File # L10.01 and Site Name CHEVRON - #91518.</i> Gasoline contaminated soil and groundwater was found when underground storage tanks were removed and monitoring wells installed in September of 1987. Groundwater monitoring wells onsite contained benzene concentrations as high as 7.8 ppm in 1990. Soil vapor extraction (SVE) and air sparge (AS) systems were installed in 1989 to aid in the remediation of the groundwater. The results of tests in 1990 showed that the SVE system was not effective in reducing the contamination to the degree expected. However, benzene levels in monitoring wells have been decreasing with time. The SVE and AS systems were deactivated in 1993 and reactivated in 1999. Quarterly groundwater monitoring continued from 1991 through 1995 and was later reduced to semi-annual monitoring. Monitoring results from the October 2001 sampling period indicates the presence of a contaminant plume that extends off-site approximately 200 feet to the north-northwest. Concentrations of BTEX and gasoline range organics are highest in MW-6 and MW-9, located north of Wen

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
								median of the Seward Highway, respectively. These concentrations continue to be above the MCL for drinking water. The next groundwater sampling period is scheduled for May of 2002.
Gasoline stations (without repair shop)	C15	C15-17	B	Low		2811 New Seward Highway	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-39	B	Low		2811 New Seward Highway	Plate 1	<i>ADEC LUST File # L20.06 and Site Name GARRETT'S TESORO #1.</i> In July 1997, a geotechnical investigation identified soil and groundwater contamination associated with two 10,000-gallon gasoline USTs, one 10,000-gallon diesel UST, one 500-gallon used oil UST, one 250-gallon used oil UST, six fuel dispensers, and a vehicle lube pit and sand trap/oil-water separator. Dissolved petroleum hydrocarbons were detected in groundwater monitoring wells onsite. A total of 1,029 tons of petroleum impacted soils were removed during the excavation of the UST systems and transported offsite for thermal treatment. Currently, existing contamination at this site as well as its current UST system (26,000-gallon, three-compartment UST) is being monitored through five (5) groundwater monitoring wells. A soil vapor extraction (SVE) has also been installed to accelerate the remediation of this site. Samples/results taken August 17, 2001 exceeded ADEC Groundwater Cleanup Levels in one well located in the northwest corner of the property (Test Hole MW). Petroleum hydrocarbons were not detected in all other monitoring wells onsite and offsite for this sampling period. This site is monitored semi-annually. Therefore, the next sampling period schedule for this site is May of 2002.
Gasoline stations (with repair shop)	C16	C16-7	B	Low		815 W INTL AIRPORT RD	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-19	B	Low		815 W INTL AIRPORT RD	Plate 1	<i>ADEC LUST File # L10.20 and Site Name CHEVRON - 96585.</i> Soil and groundwater contamination was discovered in July of 1997 stemming from a leaking 1,000-gallon used oil UST. A total of 108.6 tons of hydrocarbon contaminated soil was excavated and exported off-site for treatment by thermal desorption. Three groundwater monitoring wells were installed on-site to determine the direction of groundwater flow and characterize the magnitude and extent of contamination in the unconfined aquifer. Samples taken from monitoring wells in May of 2001 indicated elevated levels of petroleum hydrocarbons including MTBE, all above Category A Cleanup Levels for groundwater. The extent of groundwater contamination has not been fully characterized at this site. In response to this, Chevron plans on installing additional monitoring wells. No information is available at this time with regards to the plan for new monitoring well installation as well as the results of samples taken in September of 2001.
Photography supplies/photo processing laboratories	C36	C36-6	B	Low		5401 CORDOVA ST # 204	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-10	B	Low		700 W 58TH AVE # J	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-10	B	Medium		5401 OLD SEWARD HWY	Plate 1	
Motor / motor vehicle repair shops	C31	C31-29	B	Medium		501 W INTL AIRPORT RD # 19	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-6	B	Low		4710 BUSINESS PARK BLVD # 24	Plate 1	
Hardware stores	C17	C17-33	B	Low		5401 CORDOVA ST # 302	Plate 1	
Heavy equipment rental/storage	C18	C18-11	B	Low		4710 BUSINESS PARK BLVD	Plate 1	
Windshield/glass repair shops	C44	C44-2	B	Low		4900 FAIRBANKS ST	Plate 1	
Construction trade areas and materials	C09	C9-29	B	Low		4950 FAIRBANKS ST	Plate 1	

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**Potential and Existing Sources of Contamination for MOA Well #12  
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PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-24	B	Low		4950 FAIRBANKS ST	Plate 1	<i>ADEC LUST File # L55.181 and Site Name COMMERCIAL CONTRACTORS, INC.</i> Soil and groundwater contamination was discovered in November of 1993 associated with a leaking 1,000-gallon gasoline UST. Approximately 27 tons of contaminated soil were excavated and transported offsite for thermal treatment. A soil venting system was installed when the excavation pit was backfilled. In May of 1999, three groundwater monitoring wells were installed to determine the extent and magnitude of contamination. Groundwater at the site was encountered at 6.5 feet below ground surface. In each of the three monitoring wells, petroleum hydrocarbon constituents were detected at levels exceeding the ADEC groundwater cleanup levels. The release investigation recommended the installation of three additional monitoring wells to more adequately assess downgradient impacts of this contamination. Currently, the responsible party is seeking a grant to fund cleanup efforts at this site.
Recycling and waste reduction facilities	D57	D57-1	B	Medium		750 E INTL AIRPORT RD	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-8	B	Low		200 W POTTER DR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-53	B	Low		550 E TUDOR RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-15	B	Medium		5001 OLD SEWARD HWY	Plate 1	
Motor / motor vehicle repair shops	C31	C31-16	B	Medium		4940 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-19	B	High		4940 OLD SEWARD HWY	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-18	B	Low		4940 OLD SEWARD HWY	Plate 1	<i>ADEC LUST File # L55.09 and Site Name CONTINENTAL MOTOR CO.</i> Soil and groundwater contamination was discovered in September of 1990 in association with a waste oil tank that had a fill pipe connection separated for unknown amount of time. Contaminated soils were excavated and removed offsite for thermal treatment. Groundwater monitoring wells were installed to determine the extent of contamination in the unconfined aquifer. Petroleum hydrocarbons were monitored through the wells until it was determined that concentrations were below MCL's. Corrective actions were complete and no further action was issued by ADEC in January of 1991.



Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-10	B	Medium		5660 B ST	Plate 1	
Printers, publishers, copiers	C37	C37-31	B	Low		5401 CORDOVA ST # 304	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-9	B	Low		600 W 58TH AVE # D	Plate 1	
Construction trade areas and materials	C09	C9-34	B	Low		212 E 51ST AVE	Plate 1	
Motor / motor vehicle repair shops	C31	C31-17	B	Medium		4510 GAMBELL ST	Plate 1	
Hardware stores	C17	C17-34	B	Low		5333 FAIRBANKS ST	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-4	B	Medium		4404 Old SEWARD HWY	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-14	B	Low		4404 Old SEWARD HWY	Plate 1	<i>ADEC LUST File # L55.33 and Site Name Nissan/Jeep/Eagle dealership (Culhane Tudor &amp; Old Seward). Soil and shallow groundwater contaminated with petroleum hydrocarbons were found during 1a November 1988 site assessment. Approx. 1,100 cubic yards contaminated soils removed. An additional 700 cubic yards were transported offsite to be used in a cold asphalt emulsion mix in May of 1992. A no further action letter was issued upon receipt of this documentation and site closure was complete.</i>
Motor/motor vehicle supplies stores	C28	C28-12	B	Low		854 E 36TH AVE	Plate 1	
Motor / motor vehicle repair shops	C31	C31-30	B	Medium		501 W POTTER DR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-71	B	Low		3707 RHONE CIR	Plate 1	
Hardware stores	C17	C17-35	B	Low		600 W 58TH AVE # G	Plate 1	
Florists	C12	C12-8	B	Low		5401 FAIRBANKS ST # 3	Plate 1	
Motor / motor vehicle repair shops	C31	C31-18	B	Medium		4651 GAMBELL ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-54	B	Low		2706 FAIRBANKS ST # 4	Plate 1	
Construction trade areas and materials	C09	C9-45	B	Low		5330 CORDOVA ST	Plate 1	
Florists	C12	C12-9	B	Low		118 E INTL AIRPORT RD	Plate 1	
Hardware stores	C17	C17-36	B	Low		700 W INTL AIRPORT RD BLDG B	Plate 1	
Hardware stores	C17	C17-24	B	Low		333 E TUDOR RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-11	B	Medium		239 E INTERNATIONAL AIRPORT R	Plate 1	

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**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-21	B	Low		239 E INTERNATIONAL AIRPORT R	Plate 1	ADEC LUST File # L55.154 and Site Name Chevron - Earls RV Center. Waste oil and mixed hydrocarbon contaminated soil was encountered during the removal of two 1,000-gallon used oil USTs. Concentrations of total petroleum hydrocarbons in soils were as high as 27,200 ppm. In addition, 1,2-dichlorobenzene was found in the soil at a concentration of 0.35 ppm as well as low levels of lead, arsenic, and chromium. An estimated 27 cubic yards of contaminated soils were transported offsite for disposal. The excavation pit was then backfilled with clean, imported fill material. Some low levels of contamination remains beneath the excavation pit, but are below the ADEC Level A Cleanup Standards. Site closure was accomplished in November of 1992 when ADEC issued a No Further Action letter.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-24	B	Low		401 E. INTERNATIONAL AIRPORT RD	Plate 1	ADEC LUST File # L55.169 and Site Name ENSTAR - ANCHORAGE OPERATIONS CENTER. Diesel contaminated soils and groundwater were found during an UST removal in May of 1993. Approximately 111 cubic yards of contaminated soils were excavated and disposed of at AK Soil Recycling for thermal treatment. Groundwater and soils were determined to be below ADEC cleanup levels and a No Further Action letter was issued in November of 1999.
Motor / motor vehicle repair shops	C31	C31-31	B	Medium		5740 B ST	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-10	B	Low		520 W 58TH AVE	Plate 1	
Heavy equipment rental/storage	C18	C18-21	B	Low		5701 SILVERADO WAY # J	Plate 1	
Motor / motor vehicle repair shops	C31	C31-19	B	Medium		3606 OLD SEWARD HWY	Plate 1	
Motor / motor vehicle repair shops	C31	C31-32	B	Medium		600 W 58TH AVE # A	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-30	B	High		600 W 58TH AVE # A	Plate 1	

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**Potential and Existing Sources of Contamination for MOA Well #12  
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PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-14	B	Low		4908 OLD SEWARD HWY	Plate 1	<i>ADEC LUST File # L55.40 and Site Name EUROPEAN MOTORS.</i> Soil contamination was discovered during the removal of a 500-gallon used oil UST in September of 1992. Soil boring near tank found significant contamination (22,000 ppm TPH, 13,000 ppm DRO, 520 ppm GRO, 180 ppm BTEX, 3.4 ppm benzene) in saturated soil samples. In May of 1994, approximately 72.25 tons of impacted soils were excavated and transported offsite for thermal processing. A request for submittal of a Work Plan for addressing elevated levels of soil contamination in March of 2001. That submittal is currently overdue. No additional information is available at this time.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-55	B	Low		5121 ARCTIC BLVD # E	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-73	B	Low		3730 RHONE CIR # 102	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-11	B	Medium		123 E INTL AIRPORT RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-21	B	Low		202 E INTL AIRPORT RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-33	B	High		202 E INTL AIRPORT RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-33	B	Medium		209 E INTERNATIONAL AIRPORT RD	Plate 1	
Body shops (automotive)	C05	C5-12	B	Medium		230 E 54TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-74	B	Low		3238 LATOUCHE ST # H10	Plate 1	
Heavy equipment rental/storage	C18	C18-22	B	Low		700 W INTL AIRPORT RD	Plate 1	
Pharmacies	C35	C35-4	B	Low		1000 E NORTHERN LIGHTS BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-32	B	Low		639 W INTL AIRPORT RD # 36	Plate 1	
Florists	C12	C12-5	B	Low		4007 OLD SEWARD HWY # 700	Plate 1	
Gasoline stations (with repair shop)	C16	C16-8	B	Low		724 W INTL AIRPORT RD	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-11	B	Low		724 W INTL AIRPORT RD	Plate 1	<i>ADEC LUST File # L20.06 and Site Name GARRETT'S TESORO.</i> Significant soil and groundwater contamination was discovered in 1988 and 1989 in association with the filler pipes of a 12,000-gallon gasoline UST. In July of 1990, four to five feet of floating product was documented on water table at this site. A vapor extraction system was installed to help aid in the remediation of the site in January of 1994. Contaminated groundwater was also pumped and treated beginning in February of 1994. Quarterly groundwater and VES reports were submitted to ADEC from 1994 through 1995. No additional information is available at this time.
Motor / motor vehicle repair shops	C31	C31-20	B	Medium		4831 FAIRBANKS ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-10	B	High		4831 FAIRBANKS ST	Plate 1	
Construction trade areas and materials	C09	C9-46	B	Low		119 E 54TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-75	B	Low		3708 RHONE CIR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-76	B	Low		3730 RHONE CIR # 203	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-83	B	Low		501 W INTL AIRPORT RD # 1A	Plate 1	
Pharmacies	C35	C35-5	B	Low		3730 RHONE CIR # 105	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-77	B	Low		3606 RHONE CIR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-78	B	Low		3730 RHONE CIR # 100	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-19	B	Low		5801 SILVERADO WAY	Plate 1	ADEC LUST File # L55.61 and Site Name Hanaman Warehouse. Soil and groundwater was discovered during the removal of a 1000-gallon diesel, a 1000-gallon gasoline and a 2000-gallon gasoline UST in August of 1990. Approximately 95 tons of contaminated soil were excavated and transport offsite for disposal. The excavation was then backfilled with clean fill material. One groundwater monitoring well was installed and showed only low levels of petroleum hydrocarbon contamination (approximately 1% of the MCL for BTEX in September 1990). Existing soil contamination during this same sampling period showed petroleum hydrocarbons were 11.2 ppm and 12% above ADEC Cleanup Levels for soils. Site cleanup was complete in March of 1991 and the monitoring well was decommissioned in August.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-22	B	Low		5801 SILVERADO WAY	Plate 1	ADEC LUST File # L55.61 and Site Name Halliburton Geophysical Services Incorporated. Soil and groundwater contamination was discovered during the removal of a 500-gallon used oil UST that leaked adjacent to the warehouse on the property in April of 1993. A groundwater monitoring well was installed and sampled in July of 1993. Groundwater samples indicated low levels of petroleum hydrocarbons, however, they were inferred as being the result of biochemical decomposition of organics within the soils and were deemed naturally occurring. Based on the sampling that occurred during this sampling period, a No Further Action letter was issued by ADEC in August of 1993.
Jewelry manufacturing	I22	I22-4	B	Medium		4300 OLD SEWARD HWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-84	B	Low		601 W 58TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-47	B	Low		401 W INTL AIRPORT RD # 31	Plate 1	
Construction trade areas and materials	C09	C9-35	B	Low		1011 E TUDOR RD # 100	Plate 1	
Hardware stores	C17	C17-37	B	Low		5501 A ST	Plate 1	
Printers, publishers, copiers	C37	C37-33	B	Low		360 E INTL AIRPORT RD # 6	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-7	B	Low		700 W 58TH AVE # D	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-12	B	Medium		341 E 56TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-48	B	Low		550 W 54TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-49	B	Low		5326 A ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-22	B	Low		626 E INTL AIRPORT RD	Plate 1	
Gasoline stations (with repair shop)	C16	C16-9	B	Low		5210 OLD SEWARD HWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-21	B	Low		5210 OLD SEWARD HWY	Plate 1	<i>ADEC LUST File # L10.19 and Site Name HANSON'S CHEVRON #95414.</i> In April and May of 1996, five (5) USTs were removed from this property. These included two 10,000-gallon gasoline, one 5,000-gallon gasoline, one 1,000-gallon diesel, and one 1,000-gallon used oil USTs. During the excavation of the tanks and the removal of the piping system and pump island dispensers, soil and groundwater contamination was discovered. Approximately, 1,500 tons of petroleum impacted soils were removed from the site and exported offsite for treatment. In August of 1998, three groundwater monitoring wells were installed to determine the magnitude and extent of contamination of the unconfined aquifer. Since then, three additional monitoring wells have been developed to assess off-property impacts. Recent groundwater monitoring results (September 25, 2001) indicate petroleum hydrocarbons have migrated off-site to the adjacent property to the west. Concentrations of diesel range organics, gasoline range organics, and benzene in MW-5 were 1.6 ppm, 0.245 ppm, and 0.023 ppm, respectively. Groundwater quality is being assessed on a semi-annual basis. Therefore, the next sampling period for this site is scheduled for May of 2002.
Lumber processing and preservation	N04	N4-5	B	Medium		424 W 54TH AVE	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-20	B	Low		4617 OLD SEWARD HWY	Plate 1	<i>ADEC LUST File # L55.255 and Site Name HAROLD'S RENT-A-TRUCK, INC.</i> Soil and groundwater contamination was discovered in November of 1996 during the removal of two (2) 4,500-gallon gasoline UST. Approximately 100 cubic yards of petroleum hydrocarbon contaminated soils were excavated and stockpiled onsite. One groundwater monitoring well was installed south of the excavation. Results of sampling indicated that benzene was present above ADEC cleanup levels for drinking water. However, a deeper drinking water well onsite was sampled and was found free of contamination. ADEC requested a quarterly groundwater monitoring and stockpile sampling report in May of 1999. No additional information is available at this time on the status of conditions at this site.
Motor vehicle/general storage yards/facilities	X27	X27-4	B	Low		4617 OLD SEWARD HWY	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-13	B	Low		4109 OLD SEWARD HWY	Plate 1	
Hardware stores	C17	C17-38	B	Low		220 E INTERNATIONAL AIRPORT RD	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-4	B	Medium		4240 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-50	B	Low		436 W POTTER DR	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-32	B	High		436 W POTTER DR	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-14	B	Low		144 E 53rd Avenue	Plate 1	<i>ADEC Contaminated Sites File # CS100.31 and Site Name Hirsch Porsche/Audi Repair.</i> A waste oil spill of approximately 50-100 gallons was reported on April 24, 1989. Contaminated soils were excavated and transported offsite. After ADEC review of sampling techniques, analysis and results of the samples taken during excavation, the site does not appear to pose an immediate health hazard to the local population or a serious threat to the groundwater. ADEC reserves the right to request appropriate soil or groundwater assessment and remediation if additional information is found which indicates that the groundwater or soil is contaminated. No further action was required as of September of 1991. This site is CLOSED.
Laboratories (chemical, soils, and research)	C20	C20-11	B	Low		5630 SILVERADO WAY # A2	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Hardware stores	C17	C17-25	B	Low		515 E TUDOR RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-85	B	Low		500 W INTL AIRPORT RD # C	Plate 1	
Taxidermists	C41	C41-3	B	Medium		822 W INTL AIRPORT RD	Plate 1	
Printers, publishers, copiers	C37	C37-34	B	Low		650 W INTERNATIONAL AIRPORT RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-23	B	Low		552 W 58TH AVE # A	Plate 1	
Orchards or nurseries	A10	A10-2	B	Medium		5333 A ST	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-16	B	Low		201 E 56TH ST, SUITE 300	Plate 1	<i>ADEC LUST File # L55.64 and Site Name INTERIOR TELEPHONE COMPANY</i> . Petroleum hydrocarbon contaminated soil was identified during an October 1989 removal of a 2,000-gallon gasoline UST. Approximately 60 cubic yards of contaminated soils were excavated from the site and transported to the Anchorage Municipal Landfill for disposal. Test results showed no detectable petroleum hydrocarbons in the excavation pit. No Further Action was required for this site after February of 1991 when the site was closed.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-31	B	High		A ST & INTL AIRPORT RD	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-17	B	Medium		512 W. International	Plate 1	<i>ADEC Contaminated Sites File # CS100.207 and Site Name Interstate Exploration</i> . Petroleum hydrocarbon contamination of soil and groundwater resulting from a floor drain and sump was discovered in 1999. A site characterization workplan was approved in January of 2002 by ADEC and corrective action has begun. This site is currently ACTIVE.
Jewelers	C19	C19-3	B	Low		600 E NORTHERN LIGHTS BLVD	Plate 1	
Body shops (automotive)	C05	C5-6	B	Medium		4700 GAMBELL ST	Plate 1	
Car washes with engine or undercarriage cleaning	C08	C8-2	B	Low		4551 FAIRBANKS ST	Plate 1	
Body shops (automotive)	C05	C5-7	B	Medium		4434 OLD SEWARD HWY	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATVs, snow machines, boats (without service department)	C26	C26-1	B	Low		4748 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-20	B	High		4748 OLD SEWARD HWY	Plate 1	



Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-17	B	Low		4748 OLD SEWARD HWY	Plate 1	<i>ADEC LUST File # L55.192 and Site Name JOHNSON NISSAN.</i> Gasoline contaminated soils and groundwater were encountered during the removal of two (2) 5,000-gallon (diesel and gasoline) USTs in August of 1994. In July 1996, approximately 550 tons of petroleum-contaminated soil was exported off-site for thermal treatment. A total of fifteen (15) groundwater monitoring wells were installed to determine the magnitude and extent of groundwater contamination at this site and adjacent properties. Results of groundwater sampling in November 1999 indicated significant levels of petroleum hydrocarbons in downgradient monitoring wells. However, not all monitoring wells were sampled at that time. It appears a contaminant plume emanating from this site has traveled downgradient to the south-southeast toward the property at 4800 Old Seward Highway. To further assess downgradient/off-site impacts of contamination from this site, the third party contractor for the responsible party will be installing and sampling two additional monitoring wells in the spring of 2002.
Hardware stores	C17	C17-39	B	Low		549 W INTL AIRPORT RD # A15	Plate 1	
Hardware stores	C17	C17-40	B	Low		126 W INTL AIRPORT RD	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-8	B	Low		219 E INTL AIRPORT RD	Plate 1	
Hardware stores	C17	C17-41	B	Low		510 W 53RD AVE	Plate 1	
Hardware stores	C17	C17-42	B	Low		360 E INTL AIRPORT RD	Plate 1	
Printers, publishers, copiers	C37	C37-27	B	Low		3597 VASSAR DR	Plate 1	
Motor / motor vehicle repair shops	C31	C31-34	B	Medium		400 W 53RD AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-15	B	High		400 W 53RD AVE	Plate 1	
Recycling and waste reduction facilities	D57	D57-2	B	Medium		111 E 56TH AVE	Plate 1	
Boat yards and marinas	X15	X11-7	B	Low		536 E 48TH AVE	Plate 1	
Motor / motor vehicle repair shops	C31	C31-35	B	Medium		512 W INTL AIRPORT RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-28	B	High		512 W INTL AIRPORT RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-86	B	Low		1205 E INTERNATIONAL RD # 103	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-16	B	Medium		620 E. Int'l Airport Road	Plate 1	<i>ADEC Contaminated Sites File # CS100.17 and Site Name M &amp; M Enterprises -Int'l Airport Rd.</i> Soil and groundwater contamination was documented at this site in August of 1989 in association with an old metal, battery, and copper wire recycling business. In October 1989, polychlorinated biphenols (PCBs) above ADEC cleanup levels were detected in two soil samples at 15.3 and 93.4 ppm as well as lead at 140 to 211 ppm. Groundwater samples indicated 0.053 ppm lead during this same sampling period. Currently, a corrective action plan is being established to determine the best available technology for cleanup of this site. This site is ACTIVE.
Body shops (automotive)	C05	C5-8	B	Medium		4973 EAGLE ST	Plate 1	
Hardware stores	C17	C17-26	B	Low		1700 OXFORD DR	Plate 1	
Machine and metal work shops	I23	I23-3	B	High		5440 B ST	Plate 1	
Gasoline stations (without repair shop)	C15	C15-9	B	Low		5159 OLD SEWARD HWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-12	B	Low		5159 OLD SEWARD HWY	Plate 1	<i>ADEC LUST File # L30.04 and Site Name MAPCO - EXPRESS #5004.</i> Petroleum hydrocarbon contamination was detected in soils and groundwater during a September 1987 site assessment. In groundwater samples taken in July of 1990 petroleum hydrocarbons were detected above MCLs. Also detected during that sampling period was tetrachloroethylene (PCE) at a concentration of 0.022 ppm. Approximately 47 gallons of free product was removed from the surface of the water table in October 1991. Three (3) USTs were removed from the site in June of 1992, which included two 10,000-gallon gasoline and one 5,000-gallon USTs. Groundwater monitoring wells were installed onsite to determine the magnitude and extent of contamination. A combined vapor extraction and air injection system (VEAIS) was installed in October 1992. In November of 1992, 50 cubic yards of contaminated soils were removed from the road right-of-way that were discovered during the repair of a AWWU waterline break. Groundwater samples/results from May 2001 indicate elevated levels of gasoline range organics (GRO), diesel range o
Motor / motor vehicle repair shops	C31	C31-36	B	Medium		110 E 54TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-27	B	High		110 E 54TH AVE	Plate 1	
Motor / motor vehicle repair shops	C31	C31-21	B	Medium		4800 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-51	B	Low		720 W 58TH AVE # E	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-49	B	Low		625 E 34TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-72	B	Low		3500 LATOUCHE ST # 200	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-16	B	High		3200 SEWARD HWY	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-5	B	Low		3901 OLD SEWARD HWY	Plate 1	
Motor / motor vehicle repair shops	C31	C31-22	B	Medium		711 E NORTHERN LIGHTS BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-35	B	Low		5445 OLD SEWARD HWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-87	B	Low		5313 ARCTIC BLVD # 101	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-56	B	Low		3315 FAIRBANKS ST	Plate 1	
Hardware stores	C17	C17-43	B	Low		510 E INTL AIRPORT RD	Plate 1	
Construction trade areas and materials	C09	C9-52	B	Low		300 E 54TH AVE	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-11	B	Medium		550 W 54TH AVE	Plate 1	
Heavy equipment rental/storage	C18	C18-16	B	Low		1001 E BENSON BLVD	Plate 1	
Construction trade areas and materials	C09	C9-53	B	Low		5610 SILVERADO WAY # 6	Plate 1	
Heavy equipment rental/storage	C18	C18-12	B	Low		4700 BUSINESS PARK BLVD # 19	Plate 1	
Hardware stores	C17	C17-44	B	Low		5410 FAIRBANKS ST	Plate 1	
Construction trade areas and materials	C09	C9-36	B	Low		4970 FAIRBANKS ST	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-18	B	Low		4510 GAMBELL ST	Plate 1	<i>ADEC LUST File # L55.122 and Site Name NORTHERN HYDRAULICS LTD.</i> A site assessment conducted near a 500-gallon used oil UST in October of 1995 identified soil contamination that extended to groundwater. An UST Closure report dated February 1997, noted high levels of soil contamination (up to 12,800 ppm DRO, 16,800 ppm RRO, 144 ppm GRO, and 0.287 ppm benzene) and groundwater contamination (26.9 ppm DRO and 9.66 ppb benzene). Groundwater sampling results from two monitoring wells on-site indicated that contamination was still present (up to 0.0047 ppm benzene, 36.7 ppm DRO, and 28.7 ppm RRO). ADEC requested quarterly groundwater monitoring to continue in October of 1998. No additional information is currently available on the results of subsequent sampling periods.
Heavy equipment rental/storage	C18	C18-17	B	Low		1406 MATTERHORN WAY	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Dry cleaners	C10	C10-3	B	Low		601 E NORTHERN LIGHTS BLVD # J	Plate 1	
Injection wells (Class V) Industrial Process Water & Water Disposal Wells	D40	D40-2	B	Low		601 E NORTHERN LIGHTS BLVD # J	Plate 1	
Printers, publishers, copiers	C37	C37-36	B	Low		5701 SILVERADO WAY # K	Plate 1	
Hardware stores	C17	C17-45	B	Low		220 CENTER CT	Plate 1	
Gasoline stations (with repair shop)	C16	C16-5	B	Low		854 E 36TH AVE	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-9	B	Low		854 E 36TH AVE	Plate 1	ADEC LUST File # L20.02-2 and Site Name OLSONS GAS - #2. In December 1987, during installation of a light pole, employees of City Electric Co. noted a gasoline odor and lit torch causing an explosion. Soil and groundwater contamination was found. LUST cleanup began in July of 1995 following the failure of Tank Tightness Tests in March of that year. Two 12,000-gallon gasoline USTs and one 2,000-gallon diesel UST and associated dispenser islands were removed in July 1995. Three on-site and three off-site groundwater monitoring wells were installed in 1995 to aid in the determination of the direction of groundwater flow as well as the magnitude and extent of groundwater contamination emanating from the former UST system. Since 1995, five (5) additional groundwater monitoring wells have been installed off-site to aid in the delineation of the contaminant plume. Groundwater samples/results from May 2001 indicate that benzene, xylenes, and gasoline range organics (GRO) have traveled approximately 450 feet north-northwest of the former UST system (B2MW - 0.046 ppm benzene). However, historic
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-10	B	Medium		4908 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-18	B	High		4908 OLD SEWARD HWY	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-7	B	Medium		5159 OLD SEWARD HWY	Plate 1	
Lumber processing and preservation	N04	N4-4	B	Medium		128 E 51ST AVE	Plate 1	
Machine and metal work shops	I23	I23-4	B	High		360 E INTL AIRPORT RD # 12	Plate 1	
Motor / motor vehicle repair shops	C31	C31-37	B	Medium		665 W POTTER DR	Plate 1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-1	B	Low		665 W POTTER DR	Plate 1	
Heavy equipment rental/storage	C18	C18-23	B	Low		720 W 58TH AVE # H	Plate 1	

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**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Car washes with engine or undercarriage cleaning	C08	C8-3	B	Low		4551 FAIRBANKS ST	Plate 1	
Printers, publishers, copiers	C37	C37-37	B	Low		401 W INTL AIRPORT RD # 37	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-57	B	Low		3315 FAIRBANKS ST	Plate 1	
Florists	C12	C12-6	B	Low		4007 OLD SEWARD HWY	Plate 1	
Printers, publishers, copiers	C37	C37-38	B	Low		360 E INTERNATIONAL RD # 6	Plate 1	
Construction trade areas and materials	C09	C9-54	B	Low		610 W 54TH AVE	Plate 1	
Quarries (sand, gravel, rock, other?)	E10	E10-2	B	Low		300 E 54TH AVE	Plate 1	
Heavy equipment rental/storage	C18	C18-24	B	Low		5801 SILVERADO WAY	Plate 1	
Windshield/glass repair shops	C44	C44-3	B	Low		4141 INGRA ST # B	Plate 1	
Windshield/glass repair shops	C44	C44-4	B	Low		720 W 58TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-26	B	High		4820 FAIRBANKS ST	Plate 1	
Body shops (automotive)	C05	C5-13	B	Medium		701 W POTTER DR	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-24	B	Low		5801 SILVERADO WAY	Plate 1	
Motor / motor vehicle repair shops	C31	C31-38	B	Medium		601 W 58TH AVE # M	Plate 1	
Motor / motor vehicle repair shops	C31	C31-39	B	Medium		210 E INTL AIRPORT RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-22	B	High		210 E INTL AIRPORT RD	Plate 1	
Printers, publishers, copiers	C37	C37-39	B	Low		5611 SILVERADO WAY # D	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-13	B	Low		4900 EAGLE ST	Plate 1	ADEC Contaminated Sites File # CS100.39 and Site Name Our Lady of Compassion Care Center. Removed tight underground storage tank with fill & vent loose & leaking with excavated soil stockpiled. Site is INACTIVE.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-58	B	Low		4900 EAGLE ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-59	B	Low		701 E TUDOR RD # 100	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-9	B	Low		401 W INTERNATIONAL RD # 33	Plate 1	
Body shops (automotive)	C05	C5-9	B	Medium		631 E 48TH AVE	Plate 1	
Printers, publishers, copiers	C37	C37-23	B	Low		5020 FAIRBANKS ST	Plate 1	
Motor / motor vehicle repair shops	C31	C31-23	B	Medium		4627 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-17	B	High		4627 OLD SEWARD HWY	Plate 1	
Hardware stores	C17	C17-46	B	Low		129 W 53RD AVE	Plate 1	
Construction trade areas and materials	C09	C9-55	B	Low		130 W INTL AIRPORT RD # K	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Heavy equipment rental/storage	C18	C18-13	B	Low		4240 OLD SEWARD HWY # 24	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (without service department)	C29	C29-1	B	Low		1313 LAONA CIRCLE	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-12	B	Medium		512 W INTL AIRPORT RD	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-15	B	Low		1313 LAONA CIRCLE	Plate 1	<i>ADEC LUST File # L74.03 and Site Name USSBA - Den Tech Equipment Yard.</i> Petroleum hydrocarbon contaminated soil was found in November of 1989 during the decommissioning of a 15,000-gallon gasoline and a 500-gallon used oil UST. Approximately 160 tons of contaminated soils were excavated and transported to the Anchorage Municipal Landfill for disposal. ADEC found that no further cleanup was necessary and the site was closed in July of 1991.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-24	B	High		540 W POTTER	Plate 1	
Scrap, salvage, or junk yards	D59	D59-2	B	High		1100 W INTL AIRPORT RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-21	B	High		720 W 58TH AVE	Plate 1	
Hardware stores	C17	C17-27	B	Low		5001 ARCTIC BLVD	Plate 1	
Paint sales /service	C32	C32-3	B	Low		601 E INTL AIRPORT RD	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-13	B	Low		210 CENTER COURT	Plate 1	<i>ADEC LUST File # L55.26 and Site Name Pizza Hut Administration Offices.</i> Soil contamination was found in November of 1990 in association with a 1,000-gallon unleaded UST system. A release investigation identified petroleum hydrocarbon contamination was well above the MCL for soil at this site. In May of 2001, ADEC sent a letter to the responsible party restating that corrective action was still required. This May 2001 letter specified that 2 cubic yards of contaminated soils remain stockpiled onsite and that there is a strong possibility that soil and groundwater contamination remains at this site. No additional information is available for this site at this time.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-79	B	Low		3708 RHONE CIR	Plate 1	
Florists	C12	C12-7	B	Low		4240 OLD SEWARD HWY # 21	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-8	B	Medium		5400 OLD SEWARD HWY	Plate 1	
Dry cleaners	C10	C10-4	B	Low		601 W 58TH AVE # M	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-8	B	Low		36th & Old Seward Hwy.	Plate 1	<i>ADEC Contaminated Sites File # CS100.141 and Site Name Saunders Properties 36th &amp; Denali.</i> Heavy hydrocarbon soil staining from parked autos and trucks. Soils excavated and transported off site. Site is Closed.
Motor/motor vehicle supplies stores	C28	C28-14	B	Low		700 E NORTHERN LIGHTS BLVD	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATV's, snow machines (with service department)	C30	C30-13	B	Medium		940 W INTL AIRPORT RD	Plate 1	
Appliance repair shops	C03	C3-1	B	Low		700 E NORTHERN LIGHTS BLVD	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-25	B	Low		700 E NORTHERN LIGHTS BLVD	Plate 1	ADEC LUST File # L55.244 and Site Name SEARS ROEBUCK & CO. Soil contamination was discovered in July of 1993 during the removal of a 500-gallon used oil UST, a 5,000-gallon heating oil UST, and an oil/water separator. Approximately 22.5 tons of contaminated soil was excavated and transported offsite for disposal. Groundwater was not impacted at this site, as per file records. Soil samples taken from the excavation pit in January 1995 indicated low levels of petroleum hydrocarbons below ADEC Level A cleanup standards. Corrective action is complete on this site and No Further Action was required in August of 1996.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-26	B	Low		700 E NORTHERN LIGHTS BLVD	Plate 1	<i>ADEC LUST File # L55.197 and Site Name SEARS ROEBUCK &amp; CO.</i> Additional soil contamination was discovered during closure activities associated with existing LUST site (CS ID Tag U8-25; LUST file #L55.244) in July of 1994. Contaminated soils were excavated and transported offsite for disposal. Site cleanup was completed in March of 1998.
Laboratories (chemical, soils, and research)	C20	C20-12	B	Low		5761 SILVERADO WAY # N	Plate 1	
Bus maintenance facilities	X16	X16-8	B	Medium		3339 FAIRBANKS ST # A	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-13	B	Medium		750 E INTL AIRPORT RD # B	Plate 1	
Paint sales /service	C32	C32-4	B	Low		401 W INTERNATIONAL AIRPORT RD	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Jewelers	C19	C19-4	B	Low		601 E NORTHERN LIGHTS BLVD # H	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-14	B	Medium		5333 FAIRBANKS ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-15	B	Low		4640 GAMBELL ST	Plate 1	
Body shops (automotive)	C05	C5-14	B	Medium		5445 OLD SEWARD HWY # 3	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-7	B	High		650 W 58TH AVE	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-5	B	Low		551 W 54TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-56	B	Low		540 W POTTER DR	Plate 1	
Heavy equipment rental/storage	C18	C18-25	B	Low		5761 SILVERADO WAY # M1	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-9	B	Medium		624 W POTTER DR	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-25	B	Low		524 W INTL AIRPORT RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-40	B	Medium		1218 W INTL AIRPORT RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-11	B	High		1218 W INTL AIRPORT RD	Plate 1	
Printers, publishers, copiers	C37	C37-40	B	Low		1225 E INTL AIRPORT RD # 107	Plate 1	
Heavy equipment rental/storage	C18	C18-26	B	Low		5631 SILVERADO WAY # G	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-60	B	Low		500 E TUDOR RD	Plate 1	
Organic chemicals manufacturing	I29	I29-1	B	Low		720 W 58TH AVE	Plate 1	
Jewelers	C19	C19-5	B	Low		600 E NORTHERN LIGHTS BL # 118	Plate 1	
Hardware stores	C17	C17-47	B	Low		411 E 54TH AVE	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-10	B	Low		355 W POTTER DR	Plate 1	
Motor / motor vehicle repair shops	C31	C31-41	B	Medium		5631 SILVERADO WAY	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-11	B	Low		700 W 58TH AVE # D	Plate 1	
Hardware stores	C17	C17-48	B	Low		130 W INTL AIRPORT RD # C	Plate 1	
Paint sales /service	C32	C32-5	B	Low		401 W INTERNATIONAL AIRPORT RD	Plate 1	
Hardware stores	C17	C17-49	B	Low		5861 ARCTIC BLVD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-9	B	Low		1000 E. NORTHERN LIGHTS BL.	Plate 1	



Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-30	B	Low		1000 E. NORTHERN LIGHTS BL.	Plate 1	ADEC LUST File # L55.344 and Site Name Former Discount Tire; TOP AUTO, INC. During the removal of a 500-gallon used oil UST. Soil samples taken 25 September, 1990, indicated that low levels of petroleum hydrocarbons were present. However, concentrations were below MCLs for the contaminants of concern. LUST site cleanup was complete at this time, however, ADEC did not send a letter specifying "No Further Action" on the site until December of 1999.
Heavy equipment rental/storage	C18	C18-27	B	Low		5430 FAIRBANKS ST # 11	Plate 1	
Construction trade areas and materials	C09	C9-57	B	Low		220 CENTER CT	Plate 1	
Motor / motor vehicle repair shops	C31	C31-42	B	Medium		501 W INTERNATIONAL RD # 19	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-14	B	Medium		420 W INTL AIRPORT RD	Plate 1	
Heavy equipment rental/storage	C18	C18-28	B	Low		184 E 53RD AVE	Plate 1	
Heavy equipment rental/storage	C18	C18-14	B	Low		4751 OLD SEWARD HWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-23	B	Low		4751 OLD SEWARD HWY	Plate 1	ADEC LUST File # L55.313 and Site Name U-HAUL CO. Soil and groundwater contamination was discovered during the removal of a 4,000-gallon gasoline and a 4,000-gallon diesel UST in August of 1998. In March of 2001, a revised corrective action workplan was received by ADEC. In August 2001, five (5) groundwater monitoring wells were installed and soil and groundwater was sampled to determine the extent of contamination at this site. Three (3) 55-gallon drums of petroleum contaminated soils were generated during the construction of the monitoring wells. The impacted soils were exported offsite for thermal treatment. No information is available at this time on the magnitude and extent of groundwater contamination at this site.
Construction trade areas and materials	C09	C9-30	B	Low		750 E. INTERNATIONAL AIRPORT RD	Plate 1	
Construction trade areas and materials	C09	C9-58	B	Low		5300 A ST	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-29	B	Low		949 E 36th Ave	Plate 1	ADEC LUST File # L55.314 and Site Name University Plaza Building. A 300-gallon heating oil tank was removed from this site in August of 1998. All analytical samples/results showed non-detect levels of petroleum hydrocarbons. A No Further Action letter was issued by ADEC in December of 1998.

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Heavy equipment rental/storage	C18	C18-29	B	Low		200 CENTER CT	Plate 1	
Motor / motor vehicle repair shops	C31	C31-43	B	Medium		5713 ARCTIC BLVD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-9	B	High		5713 ARCTIC BLVD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-29	B	High		5713 ARCTIC BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-24	B	Low		3333 FAIRBANKS ST	Plate 1	
Hardware stores	C17	C17-50	B	Low		5760 SILVERADO WAY	Plate 1	
Gasoline stations (without repair shop)	C15	C15-10	B	Low		717 E NORTHERN LIGHTS BLVD	Plate 1	
Gasoline stations (without repair shop)	C15	C15-11	B	Low		801 E TUDOR RD	Plate 1	
Construction trade areas and materials	C09	C9-59	B	Low		549 W INTL AIRPORT RD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-11	B	Low		5326 A ST	Plate 1	
Construction trade areas and materials	C09	C9-31	B	Low		511 W 54TH ST	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-27	B	Low		511 W 54TH ST	Plate 1	<i>ADEC LUST File # L55.240 and Site Name WOODARD CONSTRUCTION CO.</i> During the removal of a 500-gallon gasoline UST in April of 1992, low levels of petroleum hydrocarbon contamination were found. All soil samples/results were found to be below ADEC Cleanup Levels. ADEC required No Further Action on this site in April of 1996.
Construction trade areas and materials	C09	C9-60	B	Low		130 W INTERNATIONAL AIRPORT RD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-12	B	Low		224 E 54TH AVE	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-26	B	Low		239 E INTL AIRPORT RD	Plate 1	
Hardware stores	C17	C17-51	B	Low		330 E INTL AIRPORT RD	Plate 1	
Jewelers	C19	C19-6	B	Low		600 E NORTHERN LIGHTS BL # 130	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-61	B	Low		2702 GAMBELL ST # 206	Plate 1	
Printers, publishers, copiers	C37	C37-28	B	Low		636 W 53RD AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-45	B	Low		5001 ARCTIC BLVD # 202	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-46	B	Low		3315 FAIRBANKS ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-47	B	Low		4450 CORDOVA ST # 210	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-48	B	Low		4450 CORDOVA ST # 130	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-63	B	Low		3708 RHONE CIR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-64	B	Low		3606 RHONE CIR # 2	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-65	B	Low		3730 RHONE CIR # 103	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-66	B	Low		3606 RHONE CIR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-67	B	Low		3730 RHONE CIR # 202	Plate 1	
Residential area	R01	R1-2	B	Low		Zone B Protection Area	3	217 acres
Municipal or city parks (with green areas)	X04	X4-7	B	Low		Foxtree park	3	
Highways and roads, paved (cement or asphalt)	X20	X20-81 - X20-161	B	Low		All roads in Zone B Protection Area	4	
Residential septic systems (serves one single-family home)	R02	R2-7 - R2-24	B	Low		All septic systems in Zone B Protection Area	5	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-116 - D1-237	B	Low		All sewerlines in Zone B Protection Area	5	
Construction trade areas and materials	C09	C9-93	C	Low		575 E DOWLING RD	Plate 1	
Construction trade areas and materials	C09	C9-62	C	Low		5700 LAKE OTIS PKWY	Plate 1	
Welding shops	C43	C43-3	C	Medium		106 E DOWLING RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-27	C	Low		5838 ROWAN ST	Plate 1	
Florists	C12	C12-10	C	Low		4502 CASSIN DR	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATVs, snow machines, boats (with service department)	C27	C27-12	C	Medium		6239 MACKAY ST	Plate 1	
Motor / motor vehicle repair shops	C31	C31-49	C	Medium		6239 MACKAY ST	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-36	C	Low		6239 MACKAY ST	Plate 1	ADEC LUST File # L55.84 and Site Name Continental Motors 6239. A 500-gallon used oil UST was removed from this site in August of 1990. Sampling in May of 1992 indicated low levels of petroleum hydrocarbon and heavy metal contamination in the soil surrounding the excavation. No further action was required by ADEC in August of 1994.
Motor/motor vehicle supplies stores	C28	C28-28	C	Low		1220 E 68TH AVE # 103	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-13	C	Low		6330 ARCTIC BLVD	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-32	C	Low		6446 GREENWOOD	Plate 1	ADEC LUST File # L55.50 and Site Name AAA PLUMBING AND HEATING. The removal of a 1,000-gallon gasoline and a 1,000-gallon diesel UST in September of 1992 revealed soil contaminated with petroleum hydrocarbons. Approximately 85 cubic yards of contaminated soil were removed and stockpiled on-site. A corrective action plan was approved by ADEC in November of 2000.
Motor vehicle/general storage yards/facilities	X27	X27-16	C	Low		980 E 54TH AVE	Plate 1	
Metal finishing	I26	I26-1	C	High		5700 OLD SEWARD HWY # B	Plate 1	
Motor / motor vehicle repair shops	C31	C31-50	C	Medium		5610 OLD SEWARD HWY # E	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-40	C	High		5610 OLD SEWARD HWY # E	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-131	C	Low		6917 OLD SEWARD HWY	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATVs, snow machines, boats (with service department)	C27	C27-15	C	Medium		5550 OLD SEWARD HWY	Plate 1	
Scrap, salvage, or junk yards	D59	D59-3	C	High		5625 Old Seward Highway	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-22	C	Medium		5625 Old Seward Highway	Plate 1	ADEC Contaminated Sites File # CS100.125.1 and Site Name ABC Towing/Adrian Gray Property. Wrecking yard using pick ax to puncture gasoline tanks resulting in high levels of GRO and BTEX. Site is Active.
Scrap, salvage, or junk yards	D59	D59-4	C	High		56th & Old Seward Highway	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-21	C	Medium		56th & Old Seward Highway	Plate 1	ADEC Contaminated Sites File # CS100.125.2 and Site Name ABC Towing/Floyd Carley Property. Wrecking yard using pick ax to puncture gasoline tanks resulting in high levels of GRO and BTEX. Site is Active.
Body shops (automotive)	C05	C5-17	C	Medium		1111 E DOWLING RD # 101	Plate 1	
Body shops (automotive)	C05	C5-15	C	Medium		1840 E DOWLING RD	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-15	C	Low		1800 STRATFORD CT	Plate 1	
Printers, publishers, copiers	C37	C37-44	C	Low		591 W 67TH AVE	Plate 1	
Scrap, salvage, or junk yards	D59	D59-5	C	High		849 E 56TH AVE	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATVs, snow machines, boats (with service department)	C27	C27-11	C	Medium		1733 E Dowling Rd	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-49	C	High		1733 E Dowling Rd	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-42	C	Low		1733 E Dowling Rd	Plate 1	<i>ADEC LUST File # L55.257 and Site Name Acura of Anchorage</i> . During the removal of a 1,000-gallon used oil UST in March of 1997, soil contamination was discovered. Low levels of petroleum hydrocarbon and heavy metals were detected in soil samples from the excavation. Approximately 30 tons of contaminated soils were exported offsite for treatment. The existing petroleum hydrocarbon contamination was below the most stringent ADEC Category A cleanup guideline for these suite of contaminants. Heavy metal, including lead, arsenic, cadmium, and chromium were characterized as being within normal background concentrations for the Anchorage area. No further action was required by ADEC as of March of 1998.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-104	C	Low		3650 LAKE OTIS PKWY # 140	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-105	C	Low		3600 LAKE OTIS PKWY	Plate 1	
Quarries (sand, gravel, rock, other?)	E10	E10-3	C	Low		240 W 68TH AVE	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-26	C	Low		525 W 67TH AVE	Plate 1	<i>ADEC LUST File # L55.72 and Site Name AIR LAND TRANSPORT, INC.</i> . The closure of an underground storage tank in May of 1990 revealed contamination from a 1,000-gallon diesel and a 1,000-gallon leaded gasoline dispensing systems. LUST cleanup was initiated that same month. ADEC requested further groundwater sampling in July of 1999. No additional information is available at this time.
Motor vehicle/general storage yards/facilities	X27	X27-9	C	Low		525 W 67TH AVE	Plate 1	
Organic chemicals manufacturing	I29	I29-2	C	Low		6415 ARCTIC BLVD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-51	C	Medium		1300 E 68TH AVE # 104	Plate 1	
Motor / motor vehicle repair shops	C31	C31-44	C	Medium		6325 PETERSBURG ST	Plate 1	
Battery manufacturing/recycling	I06	I6-3	C	High		166 E POTTER DR # 2	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-106	C	Low		3800 LAKE OTIS PKWY	Plate 1	
Hardware stores	C17	C17-60	C	Low		550 W 64TH AVE # 200	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-89	C	Low		1600 E TUDOR RD # 201	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-29	C	Low		240 E POTTER DR	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-107	C	Low		3600 LAKE OTIS PKWY # 101	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-30	C	Low		6181 ROSEWOOD ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-108	C	Low		4107 LAUREL ST	Plate 1	
Paint sales /service	C32	C32-6	C	Low		1658 E 59TH AVE # 1	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-109	C	Low		4355 LAUREL ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-110	C	Low		3900 LAKE OTIS PKWY	Plate 1	
Machine and metal work shops	I23	I23-5	C	High		6511 BRAYTON DR	Plate 1	
Motor / motor vehicle repair shops	C31	C31-52	C	Medium		1147 E DOWLING RD	Plate 1	
Pharmacies	C35	C35-6	C	Low		4201 LAKE OTIS PKWY	Plate 1	
Hardware stores	C17	C17-61	C	Low		5811 OLD SEWARD HWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-132	C	Low		6000 A ST	Plate 1	
Iron and steel manufacturing	I21	I21-1	C	High		1200 W DOWLING RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-43	C	High		6407 GREENWOOD ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-31	C	Low		5901 ARCTIC BLVD	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-17	C	Low		6930 OLD SEWARD HWY	Plate 1	
Stone and clay processing/manufacturing	I43	I43-2	C	Medium		6131 A ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-113	C	Low		4115 LAKE OTIS PKWY	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-32	C	Low		600 E 57TH PL # B	Plate 1	
Hardware stores	C17	C17-52	C	Low		2000 E DOWLING RD # 15	Plate 1	
Lumber processing and preservation	N04	N4-7	C	Medium		166 E POTTER DR	Plate 1	
Car washes with engine or undercarriage cleaning	C08	C8-4	C	Low		1136 E 66TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-90	C	Low		5520 LAKE OTIS PKWY # 101	Plate 1	
Iron and steel manufacturing	I21	I21-2	C	High		6218 NIELSON WAY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-42	C	High		6626 GREENWOOD ST	Plate 1	
Motor / motor vehicle repair shops	C31	C31-48	C	Medium		1136 E 66TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-37	C	High		1136 E 66TH AVE	Plate 1	
Heavy equipment rental/storage	C18	C18-34	C	Low		6717 ROSEWOOD ST	Plate 1	
Printers, publishers, copiers	C37	C37-45	C	Low		907 E DOWLING RD # 15	Plate 1	
Heavy equipment rental/storage	C18	C18-35	C	Low		130 A STREET LOOP	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-39	C	Low		2240 E DOWLING RD	Plate 1	<i>ADEC LUST File # L55.32 and Site Name Smyth Movers Warehouse.</i> In July of 1992, petroleum contamination was reported to ADEC during the removal of two leaking 1,000-gallon gasoline USTs and one 2,000-gallon diesel UST. Overfills may have resulted in the majority of contamination found at this site. Approximately 28 cubic yards of contaminated soils were removed and stockpiled on-site and later transported offsite for treatment. Excavation sample results showed that the soils met ADEC Cleanup Level A requirements. Groundwater did not show indication of contamination during the site investigations. ADEC issued a No Further Action letter in December of 1996.
Motor vehicle/general storage yards/facilities	X27	X27-10	C	Low		2240 E DOWLING RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-91	C	Low		1600 E TUDOR RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-53	C	Medium		6150 A ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-46	C	High		6150 A ST	Plate 1	
Recycling and waste reduction facilities	D57	D57-3	C	Medium		6161 ROSEWOOD ST	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-31	C	Low		6301 ROSEWOOD	Plate 1	<i>ADEC LUST File # L55.153 and Site Name ANCHORAGE REFUSE INC..</i> A July 1992 removal of a 9,000-gallon diesel and 2 - 2,000-gallon unleaded gasoline UST and dispensers found groundwater and soils contaminated with petroleum hydrocarbons. The unconfined aquifer at this site was identified at 6 to 7 feet below land surface. Contaminated soils remain below groundwater level. Contaminated soils were removed from the excavation and biocell treatment was employed to remediate soils. ADEC requested additional information regarding the site and a quarterly groundwater monitoring report in June of 2000. No additional information is available at this time.

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-34	C	Low		6250 ROSEWOOD DR	Plate 1	<i>ADEC LUST File # L55.73 and Site Name Anderson Trucking.</i> Soil and groundwater contamination was encountered during the removal of a 2,000-gallon diesel and a 2,000-gallon gasoline UST in May of 1990. In October of 1990, ADEC requested a long term groundwater sampling program and remediation plan. Four (4) groundwater monitoring wells were installed to determine the extent of contamination. Contaminated soils were removed and stockpiled on-site and later transported offsite for disposal. Groundwater and soil samples taken in 1992 showed a marked decrease in petroleum hydrocarbon concentrations and were below ADEC required cleanup levels. A No Further Action letter was issued by ADEC in January of 1993.
Motor vehicle/general storage yards/facilities	X27	X27-7	C	Low		6250 ROSEWOOD DR	Plate 1	
Appliance repair shops	C03	C3-2	C	Low		230 E POTTER DR # 9	Plate 1	
Motor / motor vehicle repair shops	C31	C31-54	C	Medium		6031 ARCTIC BLVD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-41	C	High		6031 ARCTIC BLVD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-33	C	Low		1301 E DOWLING RD # 105	Plate 1	
Printers, publishers, copiers	C37	C37-41	C	Low		2217 E TUDOR RD # 17	Plate 1	
Body shops (automotive)	C05	C5-18	C	Medium		6727 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-52	C	High		6727 OLD SEWARD HWY	Plate 1	
Gasoline stations (without repair shop)	C15	C15-16	C	Low		6010 OLD SEWARD HWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-25	C	Low		6010 OLD SEWARD HWY	Plate 1	<i>ADEC LUST File # L30.21 and Site Name WILLIAMS EXPRESS STORE #5021.</i> Site investigations conducted in 1990 showed high levels of benzene, toluene, ethylbenzene, & xylenes in groundwater emanating from leaking diesel and gasoline USTs. A groundwater monitoring wells were installed to determine the extent and magnitude of contamination. An in situ vapor extraction system was in operation in late 1990 and early 1991 to aid in the remediation of the site. Monitoring of petroleum hydrocarbons in groundwater continues at this site.
Motor / motor vehicle repair shops	C31	C31-55	C	Medium		6705 ROSEWOOD ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-38	C	High		6705 ROSEWOOD ST	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-14	C	Low		6000 ARCTIC BLVD	Plate 1	



Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Heavy equipment rental/storage	C18	C18-36	C	Low		6871 OLD SEWARD HWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-30	C	Low		6871 OLD SEWARD HWY	Plate 1	<i>ADEC LUST File # L55.149 and Site Name BAILEY'S RENT ALL INC.</i> Two 1000-gallon diesel and one 1000-gallon gasoline USTs were removed from this site in November of 1991 to reveal soil and groundwater contaminated with petroleum constituents. Contaminated soils were excavated and stockpiled onsite. In April of 2001, the responsible party hired a consultant to conduct a release investigation for the site which includes excavation sidewall sampling, stockpile sampling, and the installation of groundwater monitoring wells. No additional information is available at this time.
Motor vehicle dealerships - cars, trucks, motor cycles, ATVs, snow machines, boats (with service department)	C27	C27-16	C	Medium		5740 OLD SEWARD HWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-27	C	Low		299 W 64TH AVE	Plate 1	<i>ADEC LUST File # L55.08 and Site Name BEKINS MOVING &amp; STORAGE.</i> Gasoline contaminated soil and groundwater was discovered in July 1990 associated with a leaking 2,000-gallon UST. A Corrective Action Plan was approved by ADEC in August of 1998. Letters requesting workplans for identification of vertical/lateral extent of surface/subsurface contamination were sent to the responsible party in August and October of 2000 and again in March of 2001.
Motor vehicle/general storage yards/facilities	X27	X27-18	C	Low		299 W 64TH AVE	Plate 1	
Pharmacies	C35	C35-7	C	Low		4045 LAKE OTIS PKWY # 204	Plate 1	
Construction trade areas and materials	C09	C9-71	C	Low		1300 E 68TH AVE # 112	Plate 1	
Heavy equipment rental/storage	C18	C18-37	C	Low		6415 ARCTIC BLVD	Plate 1	
Construction trade areas and materials	C09	C9-72	C	Low		5941 ARCTIC BLVD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-56	C	Medium		6209 MIKE ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-36	C	High		5941 ARCTIC BLVD	Plate 1	
Heavy equipment rental/storage	C18	C18-38	C	Low		6927 OLD SEWARD HWY # 105	Plate 1	
Leather processing	C24	C24-3	C	Medium		5911 OLD SEWARD HWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-114	C	Low		4000 LAUREL ST	Plate 1	
Motor / motor vehicle repair shops	C31	C31-45	C	Medium		1950 E DOWLING RD # C	Plate 1	
Hardware stores	C17	C17-62	C	Low		151 A STREET LOOP # 2	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Petroleum product bulk station/terminals	X11	X11-2	C	Low		1727 BARTLETT DR	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-44	C	High		5901 ARCTIC BLVD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-15	C	Low		6350 NIELSON WAY	Plate 1	
Hardware stores	C17	C17-63	C	Low		600 E 57TH PL	Plate 1	
Motor / motor vehicle repair shops	C31	C31-57	C	Medium		6820 ROSEWOOD ST	Plate 1	
Printers, publishers, copiers	C37	C37-46	C	Low		6361 NIELSON WAY # 210	Plate 1	
Orchards or nurseries	A10	A10-3	C	Medium		6151 B ST	Plate 1	
Motor / motor vehicle repair shops	C31	C31-58	C	Medium		5941 ARCTIC BLVD # AQ	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-115	C	Low		4045 LAKE OTIS PKWY # 210	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-34	C	Low		230 E POTTER DR # 2	Plate 1	
Motor / motor vehicle repair shops	C31	C31-59	C	Medium		5941 ARCTIC BLVD # J	Plate 1	
Laundromats without dry cleaning	C22	C22-2	C	Low		2494 E TUDOR RD	Plate 1	
Construction trade areas and materials	C09	C9-73	C	Low		1217 E 66TH AVE	Plate 1	
Heavy equipment rental/storage	C18	C18-39	C	Low		1217 E 66TH AVE	Plate 1	
Heavy equipment rental/storage	C18	C18-40	C	Low		5400 HOMER DR	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATVs, snow machines, boats (with service department)	C27	C27-13	C	Medium		6255 MACKAY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-57	C	High		6255 MACKAY	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-38	C	Low		6255 MACKAY	Plate 1	<i>ADEC LUST File # L55.85 and Site Name Continental Motors 6255. Soil and groundwater contamination was discovered during the removal of a 500-gallon used oil UST in August of 1990. Approximately 6 cubic yards of contaminated soils were excavated from the site and transported to another contaminated soils stockpile at 4940 Old Seward Highway. The entire stockpile was eventually transported for thermal treatment in July of 1993. The excavation was later filled with clean sand and gravel. No petroleum hydrocarbons were detected in groundwater from samples taken in September of 1992. ADEC issued a No Further Action letter indicating that site cleanup was complete in August of 1994.</i>
Motor / motor vehicle repair shops	C31	C31-60	C	Medium		130 W DOWLING RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-39	C	High		130 W DOWLING RD	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-12	C	Low		2000 E DOWLING RD # 6	Plate 1	
Construction trade areas and materials	C09	C9-63	C	Low		2000 E DOWLING RD # 4	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Lumber processing and preservation	N04	N4-6	C	Medium		2518 E TUDOR RD	Plate 1	
Petroleum product bulk station/terminals	X11	X11-3	C	Low		2080 DIMOND DR	Plate 1	
Heavy equipment rental/storage	C18	C18-31	C	Low		6129 PETERSBURG ST	Plate 1	
Hardware stores	C17	C17-64	C	Low		6239 B ST # 102	Plate 1	
Hardware stores	C17	C17-65	C	Low		6706 GREENWOOD ST	Plate 1	
Construction trade areas and materials	C09	C9-74	C	Low		538 LYNWOOD DR	Plate 1	
Car washes with engine or undercarriage cleaning	C08	C8-5	C	Low		538 LYNWOOD DR	Plate 1	
Motor / motor vehicle repair shops	C31	C31-61	C	Medium		6820 ROSEWOOD ST # 13	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-55	C	High		6820 ROSEWOOD ST # 13	Plate 1	
Construction trade areas and materials	C09	C9-75	C	Low		740 BONANZA AVE	Plate 1	
Construction trade areas and materials	C09	C9-68	C	Low		1621 STANTON AVE	Plate 1	
Construction trade areas and materials	C09	C9-64	C	Low		6112 PETERSBURG ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-92	C	Low		2545 E TUDOR RD	Plate 1	
Agricultural chemical sales/storage	C02	C2-2	C	Medium		5340 TUDORTOP CIR	Plate 1	
Hardware stores	C17	C17-53	C	Low		5406 LAKE OTIS PKWY	Plate 1	
Construction trade areas and materials	C09	C9-76	C	Low		6150 A ST	Plate 1	
Body shops (automotive)	C05	C5-19	C	Medium		6616 ROSEWOOD ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-56	C	High		6616 ROSEWOOD ST	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-33	C	Low		6616 ROSEWOOD ST	Plate 1	<i>ADEC LUST File # L55.45 and Site Name Distinctive Auto Body.</i> Contaminated soil and groundwater was discovered during an October 1989 removal of a 500-gallon used oil UST. Approximately 65 cubic yards of soil were excavated and transported offsite for treatment and disposal. Four (4) groundwater monitoring wells were installed to assess impacts to the unconfined aquifer. On August 18, 1992, groundwater was sampled from one monitoring well and a domestic drinking water well downgradient of the site. Total petroleum hydrocarbon in the wells were 0.22 mg/L and no-detect, respectively. Based on the concentrations of existing contaminants within the soils and groundwater, ADEC issued a no further actions letter in September of 1992. All four monitoring wells were decommissioned in October of 1992.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-133	C	Low		5901 ARCTIC BLVD # H	Plate 1	
Motor / motor vehicle repair shops	C31	C31-62	C	Medium		6220 MACKAY ST	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-35	C	High		1801 E Dowling Road	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-18	C	Medium		1801 E Dowling Road	Plate 1	<i>ADEC Contaminated Sites File # CS100.230 and Site Name Dowling Investments.</i> This is a combination LUST and CS site. The CS portion comprises contaminated soils beneath a floor drain system in the former Honda dealership shop at this property. Soils have up to 250 ppm TCE and diesel contaminated soils exceeding cleanup standards. Based on the TCE levels and additional TCLP testing, the soils would be hazardous waste if excavated. Groundwater is probably contaminated. Site is Active.
Lawn and garden supplies/services	C23	C23-4	C	Medium		2000 E DOWLING RD	Plate 1	
Machine and metal work shops	I23	I23-6	C	High		6706 GREENWOOD ST # 1	Plate 1	
Appliance repair shops	C03	C3-3	C	Low		5610 OLD SEWARD HWY # G	Plate 1	
Gasoline stations (without repair shop)	C15	C15-14	C	Low		6321 A ST	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-41	C	Low		6321 A ST	Plate 1	<i>ADEC LUST File # L55.182, L55.322 and Site Name COASTAL TIRE.</i> A 500-gallon used oil UST was removed and revealed soil contamination in September of 1998.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-41	C	Low		6321 A ST	Plate 1	<i>ADEC LUST File # L55.182 and Site Name COASTAL TIRE.</i> Gasoline contaminated soils were discovered during the removal of a 1,000-gallon regulated UST in April of 1994. Site cleanup was completed in April of 2000.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-116	C	Low		3650 LAKE OTIS PKWY # 102	Plate 1	
Motor / motor vehicle repair shops	C31	C31-63	C	Medium		5740 B ST	Plate 1	
Heavy equipment rental/storage	C18	C18-30	C	Low		6727 Old Seward Hwy.	Plate 1	CS100.113 *diesel fuel, residual range petroleum hydrocarbons
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-23	C	Low		6727 Old Seward Hwy.	Plate 1	<i>ADEC Contaminated Sites File # CS100.113 and Site Name Exploration Supply &amp; Equipment, Inc.</i> Surface and near surface soils were contaminated with diesel and residual range petroleum hydrocarbons. Groundwater data from 1998 identifies GRO, benzene, and 1-2, DCE above cleanup levels. The source of the contamination is believed to be leakage of fuels and/or oils from heavy equipment parked on the site. Site is Active.
Heavy equipment rental/storage	C18	C18-41	C	Low		6627 ROSEWOOD ST	Plate 1	
Car washes with engine or undercarriage cleaning	C08	C8-6	C	Low		6521 GREENWOOD ST	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (without service department)	C26	C26-2	C	Low		900 E DOWLING RD	Plate 1	
Paint sales /service	C32	C32-9	C	Low		151 A STREET LOOP # 1	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-36	C	Low		6407 BRAYTON	Plate 1	<i>ADEC LUST File # L55.225 and Site Name FORMER QUICK LUBE.</i> Soil contamination was discovered in July of 1996 during the removal of a 500-gallon used oil UST. A letter was sent to the responsible party in June of 1996 requesting an update on LUST corrective action.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-117	C	Low		3650 LAKE OTIS PKWY # 102	Plate 1	
Construction trade areas and materials	C09	C9-77	C	Low		634 FISCHER AVE	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-19	C	Low		6321 A ST	Plate 1	
Body shops (automotive)	C05	C5-20	C	Medium		5941 ARCTIC BLVD # P	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATV's, snow machines (with service department)	C30	C30-16	C	Medium		1537 E DOWLING RD	Plate 1	
Windshield/glass repair shops	C44	C44-5	C	Low		5955 OLD SEWARD HWY	Plate 1	
Heavy equipment rental/storage	C18	C18-32	C	Low		6300 PETERSBURG ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-35	C	Low		6240 B ST	Plate 1	
Motor / motor vehicle repair shops	C31	C31-64	C	Medium		6031 ARCTIC BLVD	Plate 1	
Construction trade areas and materials	C09	C9-78	C	Low		6041 MACKAY ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-118	C	Low		4001 LAKE OTIS PKWY # 100	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-119	C	Low		4003 LAKE OTIS PKWY # 101	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-16	C	Low		109 A STREET LOOP	Plate 1	
Motor / motor vehicle repair shops	C31	C31-65	C	Medium		6230 A ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-45	C	High		5941 ARCTIC BLVD	Plate 1	
Hardware stores	C17	C17-66	C	Low		106 E DOWLING RD # B	Plate 1	
Hardware stores	C17	C17-54	C	Low		6407 BRAYTON DR	Plate 1	
Hardware stores	C17	C17-67	C	Low		907 E DOWLING RD # 4	Plate 1	
Construction trade areas and materials	C09	C9-79	C	Low		646 E DOWLING RD	Plate 1	
Septic tank cleaning and servicing	C39	C39-1	C	Low		6218 QUINHAGAK ST	Plate 1	
Body shops (automotive)	C05	C5-21	C	Medium		5941 ARCTIC BLVD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-36	C	Low		5645 OLD SEWARD HWY	Plate 1	
Wastewater Holding Tank	T22	T22-1	C	Low		6441 A ST	Plate 1	350-gallons, CLOSED LUST Site

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-35	C	Low		6441 A ST	Plate 1	<i>ADEC LUST File # L100.40 and Site Name Carr Gottstein Warehouse.</i> In July of 1990, soil contamination was discovered during the removal of a 5,000-gallon diesel UST and dispenser. Approximately 230 cubic yards were stockpiled onsite for remediation. No information is available to whether or not groundwater was impacted at this site. Stockpile and excavation site met ADEC cleanup guidelines in 1998 and a no further action letter was issued in April of 2000.
Construction trade areas and materials	C09	C9-80	C	Low		6109 MIKE ST	Plate 1	
Body shops (automotive)	C05	C5-22	C	Medium		6241 A ST	Plate 1	
Body shops (automotive)	C05	C5-23	C	Medium		774 FISCHER AVE	Plate 1	
Hardware stores	C17	C17-68	C	Low		5650 OLD SEWARD HWY # F	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-31	C	Low		6307 ARCTIC SPUR RD	Plate 1	<i>ADEC LUST File # L55.03 and Site Name K &amp; L DISTRIBUTORS INC.</i> Petroleum hydrocarbon impacted soils and groundwater were discovered during the removal of a 2,500-gallon diesel UST and two 1,500-gallon gasoline USTs in May of 1989. Approximately 1,600 tons of contaminated soils were removed from the excavation and stored onsite for remediation until the soils met cleanup criteria for disposal at the Anchorage Municipal Landfill. Three (3) groundwater monitoring wells were installed to determine the presence or absence of contaminants in the unconfined aquifer. Groundwater samples taken in December of 1990 indicated benzene in at least one of the monitoring wells. A No Further Action letter was issued when total petroleum hydrocarbon reached ADEC target cleanup levels in June of 1993.
Body shops (automotive)	C05	C5-24	C	Medium		151 A STREET LOOP # 3	Plate 1	
Dry cleaners	C10	C10-5	C	Low		5520 LAKE OTIS PKWY # 106	Plate 1	
Injection wells (Class V) Industrial Process Water & Water Disposal Wells	D40	D40-4	C	Low		5520 LAKE OTIS PKWY # 106	Plate 1	
Body shops (automotive)	C05	C5-25	C	Medium		5610 OLD SEWARD HWY # J	Plate 1	
Construction trade areas and materials	C09	C9-81	C	Low		150 W DOWLING RD	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-25	C	Low		1147 E Dowling Road	Plate 1	<i>ADEC Contaminated Sites File # CS100.89 and Site Name Laidlaw Transit Inc..</i> Countless spills of petroleum hydrocarbons. Site is Inactive.
Gasoline stations (with repair shop)	C16	C16-10	C	Low		4417 LAKE OTIS PKWY	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Wastewater Holding Tank	T22	T22-2	C	Low		4417 LAKE OTIS PKWY	Plate 1	40-gallons
Wastewater Holding Tank	T22	T22-3	C	Low		4417 LAKE OTIS PKWY	Plate 1	40-gallons
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-28	C	Low		4417 LAKE OTIS PKWY	Plate 1	ADEC LUST File # L10.11 and Site Name LAKE OTIS CHEVRON #97324. In September of 1990, a used oil UST failed a tank tightness test and soil contamination was discovered. Petroleum hydrocarbons, tetrachloroethylene (PCE), 1,2-dichloroethane, 1,4-dichlorobenzene, and 1,1,1-dichloroethane was discovered in soils above MCLs. Groundwater monitoring wells were installed and revealed elevated levels of petroleum and chlorinated hydrocarbons including trichloroethylene (TCE). It was suggested that the chlorinated hydrocarbons originated from an off-site contaminant source (dry cleaning business). A vapor extraction/bioventing system was installed and was operational by January of 1993. Petroleum and chlorinated hydrocarbons in the groundwater have been monitored on four times per year since 1993. In April of 2001, ADEC approved a workplan for the installation of three additional groundwater monitoring wells. A groundwater monitoring report was submitted to ADEC in June of 2001.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-120	C	Low		3744 LAKE OTIS PKWY	Plate 1	
Pharmacies	C35	C35-8	C	Low		4201 LAKE OTIS PKWY	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-17	C	Medium		1135 E DOWLING RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-37	C	Low		230 E POTTER DR # 6	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-32	C	Low		1205 E DOWLING RD	Plate 1	<i>ADEC LUST File #L55.47 and Site Name Vehicle Facility on Dowling Road; LOOMIS ARMORED INC.</i> Soil contamination was encountered during a September 1989 removal of a 3,000-gallon gasoline UST. Approximately 60 cubic yards of contaminated soils were removed and properly disposed of in an ADEC manner. Further site assessment required by ADEC documented groundwater contamination. Groundwater samples taken from monitoring wells upgradient and downgradient of the UST excavation indicated similar levels of toluene, a constituent of gasoline. This provided evidence that another petroleum hydrocarbon contaminant source may have contributed partly or entirely to groundwater contamination at this site. Groundwater samples taken September of 1990 indicated low levels of toluene in three of four monitoring wells. These levels were well below the MCL for this contaminant. A letter sent by ADEC stating that no further action was required except to properly abandon monitoring wells was sent out in June of 1991.
Motor vehicle/general storage yards/facilities	X27	X27-8	C	Low		1205 E DOWLING RD	Plate 1	
Body shops (automotive)	C05	C5-26	C	Medium		5901 ARCTIC BLVD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-17	C	Low		648 E DOWLING RD # 101	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-18	C	Low		6041 MACKAY ST	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-26	C	Medium		6511 Brayton Drive	Plate 1	<i>ADEC Contaminated Sites File # CS100.86 and Site Name Magnum Marine of AK. - Murray Subdivision.</i> Waste drums of oil with RCRA action levels of lead and mercury. Suspected discharge of petroleum hydrocarbons between 8/90 and 11/90. Above ground spills of oil and oil water separator not working so it was discharging improperly. Site is Inactive.
Printers, publishers, copiers	C37	C37-42	C	Low		6407 BRAYTON DR # E	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-93	C	Low		5905 LAKE OTIS PKWY # A	Plate 1	
Welding shops	C43	C43-4	C	Medium		6121 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-82	C	Low		6118 OLD SEWARD HWY	Plate 1	



Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-40	C	Low		2600 PROVIDENCE DR	Plate 1	ADEC LUST File # L73.06 and Site Name DHSS - McLaughlin Youth Center. Soil contaminated with petroleum hydrocarbons was discovered during the removal of a 500-gallon diesel UST in February of 1993. The soils beneath the excavation met ADEC Cleanup Level A requirements. Contaminated stockpiled soils were later transported offsite for disposal. Site cleanup was complete in April of 1994.
Construction trade areas and materials	C09	C9-83	C	Low		141 A STREET LOOP	Plate 1	
Paint sales /service	C32	C32-7	C	Low		1921 BARTLETT DR	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-35	C	Low		4001 LAUREL ST	Plate 1	ADEC LUST File # L55.205 and Site Name ALASKA SURGERY CENTER. A release of diesel fuel was discovered during the removal of a 500-gallon UST (emergency generator) in December of 1994.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-96	C	Low		4050 LAKE OTIS PKWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-111	C	Low		4048 LAUREL ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-112	C	Low		4001 LAUREL ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-121	C	Low		4200 LAKE OTIS PKWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-126	C	Low		4120 LAUREL ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-127	C	Low		2401 E 42ND AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-130	C	Low		4325 LAUREL ST	Plate 1	
Body shops (automotive)	C05	C5-27	C	Medium		5650 OLD SEWARD HWY	Plate 1	
Motor / motor vehicle repair shops	C31	C31-66	C	Medium		202 E POTTER DR	Plate 1	
Construction trade areas and materials	C09	C9-84	C	Low		6637 GREENWOOD ST	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-34	C	Low		4350 MACINNES	Plate 1	ADEC LUST File # L69.47 and Site Name MOA - FIRE STATION #4. A diesel spill was discovered during the closure of a 500-gallon UST in September of 1994. ADEC reviewed the corrective action plan in October of 1995 and a release investigation report in January of 1995.
Firehouses	X38	X38-1	C	Low		4350 MACINNES	Plate 1	
Motor / motor vehicle repair shops	C31	C31-46	C	Medium		2000 E DOWLING RD # 8	Plate 1	
Body shops (automotive)	C05	C5-28	C	Medium		5901 ARCTIC BLVD	Plate 1	
Body shops (automotive)	C05	C5-29	C	Medium		1301 E DOWLING RD	Plate 1	
Paint sales /service	C32	C32-8	C	Low		2091 CAMPBELL PL	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-17	C	Medium		5941 ARCTIC BLVD # 1	Plate 1	
Motor / motor vehicle repair shops	C31	C31-47	C	Medium		6300 PETERSBURG ST	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-29	C	Low		6450 ARCTIC BLVD.	Plate 1	<i>ADEC LUST File # L55.128 and Site Name N. C. MACHINERY CO.</i> In September of 1991, soil and groundwater contamination was discovered emanating from leaks in the piping of a gasoline UST. Groundwater monitoring wells were installed in August of 1993 to determine the type, magnitude, and extent of contamination.
Machine and metal work shops	I23	I23-7	C	High		1200 W DOWLING RD	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-20	C	Low		6228 Nielson Way	Plate 1	<i>ADEC Contaminated Sites File # CS100.154 and Site Name NANA/Dynatec-JV.</i> Leaking drums - petroleum hydrocarbons and solvents. Contamination remains beneath structures onsite. Site status is "No Further Remedial Action Planned".
Motor/motor vehicle supplies stores	C28	C28-38	C	Low		1130 E DOWLING RD	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-13	C	Low		2490 E 42ND AVE	Plate 1	
Body shops (automotive)	C05	C5-30	C	Medium		5941 ARCTIC BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-122	C	Low		4115 LAKE OTIS PKWY # 201	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-20	C	Low		299 W 64TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-85	C	Low		6108 MACKAY ST # 200	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-123	C	Low		4231 LAKE OTIS PKWY	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-24	C	Low		6211 Old Seward Highway	Plate 1	<i>ADEC Contaminated Sites File # CS100.212 and Site Name Old Seward Hwy. Sawmill.</i> Soil and groundwater contamination from diesel releases. Site status is "No Further Remedial Action Planned".
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-124	C	Low		3650 LAKE OTIS PKWY # 201	Plate 1	
Construction trade areas and materials	C09	C9-86	C	Low		6260 OLD SEWARD HWY	Plate 1	
Hardware stores	C17	C17-55	C	Low		5520 LAKE OTIS PKWY # 105A	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-14	C	Medium		2333 E TUDOR RD	Plate 1	
Construction trade areas and materials	C09	C9-65	C	Low		2227 E 53RD AVE	Plate 1	
Body shops (automotive)	C05	C5-31	C	Medium		1237 E 66TH AVE	Plate 1	
Dry cleaners	C10	C10-6	C	Low		4501 LAKE OTIS PKWY	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Industrial Process Water & Water Disposal Wells	D40	D40-3	C	Low		4501 LAKE OTIS PKWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-134	C	Low		907 E DOWLING RD # 7	Plate 1	
Construction trade areas and materials	C09	C9-69	C	Low		3820 LAKE OTIS PKWY	Plate 1	
Lumber processing and preservation	N04	N4-8	C	Medium		5900 ARCTIC BLVD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-67	C	Medium		6727 GREENWOOD ST	Plate 1	
Hardware stores	C17	C17-69	C	Low		6514 GREENWOOD ST	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-15	C	Medium		1801 E DOWLING RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-48	C	High		1801 E DOWLING RD	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-11	C	Low		1524 E DOWLING RD	Plate 1	
Hardware stores	C17	C17-70	C	Low		6446 HOMER DR	Plate 1	
Motor / motor vehicle repair shops	C31	C31-68	C	Medium		210 E POTTER DR	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-54	C	High		210 E POTTER DR	Plate 1	
Construction trade areas and materials	C09	C9-66	C	Low		1720 E 59TH AVE	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-21	C	Low		1100 E DOWLING RD	Plate 1	
Heavy equipment rental/storage	C18	C18-42	C	Low		6116 NIELSON WAY	Plate 1	
Asphalt and tar processing/storage	I03	I3-3	C	Medium		240 W 68TH AVE	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-12	C	Low		2240 E DOWLING RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-39	C	Low		130 E DOWLING RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-125	C	Low		4335 LAUREL ST	Plate 1	
Heavy equipment rental/storage	C18	C18-43	C	Low		1150 E 68TH AVE	Plate 1	
Hardware stores	C17	C17-56	C	Low		2020 E DOWLING RD # 7	Plate 1	
Construction trade areas and materials	C09	C9-87	C	Low		6151 A ST	Plate 1	
Gasoline stations (without repair shop)	C15	C15-13	C	Low		2510 TUDOR RD	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-33	C	Low		2510 TUDOR RD	Plate 1	ADEC LUST File # L55.180 and Site Name RENNERS GAS AND SAVE. One 6,000-gallon diesel and two 12,000-gallon gasoline USTs were removed from this site in October of 1993. Tank excavations revealed soil and groundwater contamination. A Notice of Violation (NOV) was sent to the responsible party in November of 1995 for failure to submit a Release Investigation report nor a Corrective Action Plan. ADEC once again requested a workplan in June of 2001. A reply is currently overdue.

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-47	C	High		1301 E DOWLING RD	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-29	C	Low		1301 E 64th Avenue	Plate 1	<i>ADEC Contaminated Sites File # CS100.47 and Site Name Rogers &amp; Babler Inc. Waste oil, asphalt being stored on site in 55 gallon drums. EPA plans no further action at site. 300 tons of tainted soils excavated while remediating surface soils and wastewater sump in 10/90. TPH, BTEX, and 1,2 dichlorobenzene detected in excavated soils. Further excavation at sump planned. Site is Closed.</i>
Motor / motor vehicle repair shops	C31	C31-69	C	Medium		230 E POTTER DR # 3	Plate 1	
Hardware stores	C17	C17-71	C	Low		1320 E 68TH AVE # 101	Plate 1	
Windshield/glass repair shops	C44	C44-6	C	Low		5650 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-88	C	Low		6208 MACKAY ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-128	C	Low		3650 LAKE OTIS PKWY # 202	Plate 1	
Body shops (automotive)	C05	C5-32	C	Medium		5941 ARCTIC BLVD	Plate 1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-3	C	Low		5941 ARCTIC BLVD	Plate 1	
Iron and steel manufacturing	I21	I21-3	C	High		6148 NIELSON WAY	Plate 1	
Hardware stores	C17	C17-57	C	Low		5520 LAKE OTIS PKWY # 103	Plate 1	
Hardware stores	C17	C17-72	C	Low		877 E DOWLING RD	Plate 1	
Dry cleaners	C10	C10-7	C	Low		6726 GREENWOOD ST	Plate 1	
Welding shops	C43	C43-2	C	Medium		6130 NIELSON WAY	Plate 1	
Metal fabrication	I25	I25-3	C	High		6130 NIELSON WAY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-58	C	Low		6130 NIELSON WAY	Plate 1	<i>ADEC LUST File # 55.178 and Site Name SHEET METAL INC. Very low levels of petroleum hydrocarbons below ADEC Level A Cleanup Standards were discovered during the removal of a 1,000-gallon gasoline UST in Mardh of 1993. Based on the low level of existing contamination, a No Further Action letter was issued in March of 1996. Site is closed. Move to U8</i>
Car washes with engine or undercarriage cleaning	C08	C8-7	C	Low		1147 E DOWLING RD	Plate 1	
Body shops (automotive)	C05	C5-33	C	Medium		5941 ARCTIC BLVD # G	Plate 1	
Heavy equipment rental/storage	C18	C18-44	C	Low		6308 MACKAY ST	Plate 1	
Closed tanks, lubricants or other petroleum products (underground)	T21	T21-2	C	Low		600 E 57TH PLACE	Plate 1	out of use LUST SITE
Lubrication shops	C25	C25-2	C	Medium		1721 E DOWLING RD	Plate 1	
Scrap, salvage, or junk yards	D59	D59-6	C	High		849 E 56TH AVE	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Body shops (automotive)	C05	C5-16	C	Medium		1657 E DOWLING RD	Plate 1	
Heavy equipment rental/storage	C18	C18-33	C	Low		6108 PETERSBURG ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-94	C	Low		5520 LAKE OTIS PKWY	Plate 1	
Printers, publishers, copiers	C37	C37-43	C	Low		6340 PETERSBURG ST	Plate 1	
Sign manufacturing	I39	I39-5	C	Medium		6170 OLD SEWARD HWY	Plate 1	
Heavy equipment rental/storage	C18	C18-45	C	Low		6727 OLD SEWARD HWY # A	Plate 1	
Construction trade areas and materials	C09	C9-67	C	Low		5101 LAUREL ST	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-13	C	Low		6228 QUINHAGAK ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-40	C	Low		6321 A ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-53	C	High		6017 AUSTIN ST	Plate 1	
Construction trade areas and materials	C09	C9-89	C	Low		600 E 57TH PL # B	Plate 1	
Body shops (automotive)	C05	C5-34	C	Medium		151 A STREET LOOP # 3	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-129	C	Low		4001 LAKE OTIS PKWY # 200	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-14	C	Low		6200 PETERSBURG ST	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV s, snow machines, boats (without service department)	C26	C26-3	C	Low		1301 E 64TH AVE	Plate 1	
Motor / motor vehicle repair shops	C31	C31-70	C	Medium		151 A STREET LOOP # 7	Plate 1	
Construction trade areas and materials	C09	C9-70	C	Low		3820 LAKE OTIS PKWY	Plate 1	
Gasoline stations (without repair shop)	C15	C15-15	C	Low		4409 LAKE OTIS PKWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-38	C	Low		4409 LAKE OTIS PKWY	Plate 1	<i>ADEC LUST File # L25.19 and Site Name TUDOR TEXACO FOOD MART #18. A confirmation of a release of petroleum hydrocarbons was received by ADEC in August of 1996. LUST corrective action was initiated in March of 1998. ADEC requested the submittal of a Corrective Action Plan for contaminated soil and groundwater for this site in July of 2000. No additional information is available at this time.</i>
Construction trade areas and materials	C09	C9-90	C	Low		6211 OLD SEWARD HWY	Plate 1	
Hardware stores	C17	C17-58	C	Low		2020 E DOWLING RD # 6	Plate 1	
Welding shops	C43	C43-5	C	Medium		5839 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-50	C	High		5839 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-61	C	Low		160 W 68TH	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-37	C	Low		160 W 68TH	Plate 1	<i>ADEC LUST File # L55.83 and Site Name United Lumber Company Incorporated.</i> Soil and groundwater contamination was discovered during the removal of a 1,300-gallon diesel fuel UST in August of 1990. Approximately 518 tons of contaminated soil was removed from the excavation in October of 1990 and transported to the Anchorage Regional Landfill (below 1000 ppm TPH). Several other stockpiles that exceeded 1000 ppm TPH were transported offsite for treatment. In 1992, soils and groundwater were sampled again. Test results showed a small amount of contamination remains beneath the foundation of a structure on site. This same sampling period yielded total petroleum hydrocarbon (TPH) concentrations below MCLs. Site closure was granted in August of 1992.
Motor/motor vehicle supplies stores	C28	C28-41	C	Low		106 E DOWLING RD	Plate 1	
Construction trade areas and materials	C09	C9-91	C	Low		125 A STREET LOOP	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-28	C	Low		2523 Providence Drive	Plate 1	<i>ADEC Contaminated Sites File # No File Number and Site Name University of Alaska (formerly Anchorage Community College).</i> As much as 100 to 300 gallons of waste oil, allegedly from transformers were spilled to the surface. No PCBs detected in soil samples. On-site inspection conducted in August 1986. Site is Inactive.
Printers, publishers, copiers	C37	C37-47	C	Low		907 E DOWLING RD # 13	Plate 1	
Heavy equipment rental/storage	C18	C18-46	C	Low		160 W 68TH AVE	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-15	C	Medium		160 W 68TH AVE	Plate 1	
Boat engine/body repair shops	C04	C4-1	C	Medium		1220 E 68TH AVE # 101	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-13	C	Low		6100 A ST	Plate 1	
Construction trade areas and materials	C09	C9-92	C	Low		6120 A ST	Plate 1	
Hardware stores	C17	C17-59	C	Low		1658 E 59TH AVE	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-19	C	Low		230 E POTTER DR # 4	Plate 1	
Motor / motor vehicle repair shops	C31	C31-71	C	Medium		5610 OLD SEWARD HWY # K	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-22	C	Low		6028 MACKAY ST	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATVs, snow machines, boats (with service department)	C27	C27-18	C	Medium		6041 MACKAY ST	Plate 1	

**Table 5**

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-51	C	High		5901 ARCTIC BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-88	C	Low		1600 E TUDOR RD # C	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-95	C	Low		4045 LAKE OTIS PKWY # 201	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-97	C	Low		2501 E 42ND AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-98	C	Low		3820 LAKE OTIS PKWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-99	C	Low		2400 E 42ND AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-100	C	Low		4231 LAKE OTIS PKWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-101	C	Low		3650 LAKE OTIS PKWY # 205	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-102	C	Low		2501 E 42ND AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-103	C	Low		3650 LAKE OTIS PKWY # 202	Plate 1	
Residential area	R01	R1-3	C	Low		Zone C Protection Area	3	533 acres
Municipal or city parks (with green areas)	X04	X4-8	C	Low		Wickersham Park	3	
Municipal or city parks (with green areas)	X04	X4-9	C	Low		Carlson, Jacobson, and David Green Memorial Parks	3	
Municipal or city parks (with green areas)	X04	X4-10	C	Low		University Park	3	
Municipal or city parks (with green areas)	X04	X4-11	C	Low		Bancroft Park	3	
Municipal or city parks (with green areas)	X04	X4-12	C	Low		Wickersham Park	3	
Municipal or city parks (with green areas)	X04	X4-13	C	Low		Campbell Park	3	
Municipal or city parks (with green areas)	X04	X4-14	C	Low		Lynwood Park	3	
Municipal or city parks (with green areas)	X04	X4-15	C	Low		Meadow Street Park	3	
Highways and roads, paved (cement or asphalt)	X20	X20-162 - X20-297	C	Low		All roads in Zone C Protection Area	4	
Residential septic systems (serves one single-family home)	R02	R2-25 - R2-41	B	Low		All septic systems in Zone C Protection Area	5	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-238 - D1-401	C	Low		All sewerlines in Zone C Protection Area	5	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-50	D	Low		6740 LAKE OTIS PKWY	Plate 1	<i>ADEC LUST File # L20.09 and Site Name TESORO NORTHSTORE #3.</i> Soil and groundwater contamination was encountered during a environmental site assessment conducted in September of 1994. Two monitor wells (M-1, M-2) were installed in 1994. An existing well (P-1) was discovered already on-site (no indication of when it was installed). All three wells were sampled during the 1994 release investigation. Diesel range organics was detected in all three wells (0.1ppm, 0.1ppm and 0.6ppm). Lab analyses showed no detectable BTEX or VPH. Groundwater was once again sampled in October 2001. Samples were obtained from M-1, M-2, and P-1. A third well OW-1 (no indication of when it was installed) was found to be dry. M-1 had benzene at 0.00133ppm all other constituents undetected. M-2 was undetected for all constituents. P-1 had xylenes at 0.006ppm, DRO at 2.39ppm and undetect for all other constituents. The conclusions and recommendations section of the monitoring report states: "This report presents the findings of the October 2001 ground water monitoring event. It is apparent that DRO contamination is still
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-60	D	High		1200 E 76TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-61	D	High		7427 OLD SEWARD HWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-49	D	Low		7800 LAKE OTIS PARKWAY	Plate 1	<i>ADEC LUST File # L55.165 and Site Name Quality Asphalt Paving.</i> Petroleum hydrocarbon contamination was discovered in soils during the removal of a unleaded gasoline UST in 1989. The contamination was reported to ADEC in 1992. Ten cubic yards of contamination, (TPH testing) was found. Closeout met standards for the period. Site will be closed out with NFA letter after confirmation of proper soil disposal.
Metal finishing	I26	I26-2	D	High		1153 E 74TH AVE # 1	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-48	D	Low		2900 PROVIDENCE DR	Plate 1	<i>ADEC LUST File # L73.08 and Site Name ALASKA PSYCHIATRIC INSTITUTE.</i> Soil borings near USTs showed petroleum hydrocarbon contamination in February of 1992. Four regulated and two unregulated USTs were removed from the site. No further action was requested by ADEC and the site was closed in May of 1993.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-65	D	High		2000 E 68TH AVE	Plate 1	



Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-31	D	Low		7560 BRIARWOOD ST	Plate 1	ADEC Contaminated Sites File # CS100.153 and Site Name ANCHORAGE AUTO ELECTRIC. Contamination from floor drains and surface spills at auto repair and auto body shops at 7550, 7560, and 7580 Briarwood. Site is Closed.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-44	D	Low		1206 E. 73RD	Plate 1	ADEC LUST File # L100.45 and Site Name ANCHORAGE CLEAN SWEEP. Soil and groundwater contamination was discovered in July of 1990 associated with six (6) 10,000-gallon used oil, three (3) 8,000-gallon used oil, one (1) 1,000-gallon gasoline, and one (1) 1,000-gallon diesel UST. Three groundwater monitoring wells were installed to determine the extent of contamination. A portion of the contaminated soils were removed from the various tank excavation sites. A bioremediation cell was installed onsite to attempt to remediate contaminated soils that were still in place. Nitrates were injected to within the soil to promote the natural mineralization of the petroleum hydrocarbons through microbial activity. Sampling/results of groundwater and soils in 1998 indicated low levels of diesel range organics, but concentrations were below ADEC Cleanup Levels for both soil and groundwater. The biocell and monitoring wells were decommissioned by May of 1998 and No Further Action was required in June of 1998.
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-58	D	Low		3580 E Tudor	Plate 1	ADEC LUST File # L68.27 and Site Name ASD Student Transportation . A LUST corrective action plan was approved by ADEC in August of 1998. In October of 1999, ADEC requested an update to the workplan. No additional information is available at this time.
Scrap, salvage, or junk yards	D59	D59-7	D	High		2530 E 79TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-62	D	High		7015 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-58	D	High		2715 E TUDOR RD	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-30	D	Low		2715 E TUDOR RD	Plate 1	ADEC Contaminated Sites File # 100.15 and Site Name COURTNEY'S TUDOR SERVICE. Metals and residual range petroleum hydrocarbons. Site status is "No Further Remedial Action Planned".

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-43	D	Low		2715 E TUDOR RD	Plate 1	<i>ADEC LUST File # L55.01 and Site Name COURTNEY'S TUDOR SVC.</i> Soil and groundwater contamination was found that resulted from a 10,000-gallon leaking unleaded gasoline UST in November of 1987. The UST, four additional tanks, and approximately 1,000 tons of contaminated soils were removed from the site. Groundwater monitoring wells were installed and monitoring of contamination continued until a No Further Action letter was issued by ADEC in March of 1998.
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-42	D	Low		6401 LAKE OTIS PKWY	Plate 1	<i>ADEC LUST File # L20.03 and Site Name Tesoro - Petro Products.</i> In July 1987, soil and groundwater contamination was encountered during the removal of three USTs. This LUST site contains two identified contaminant releases. The facility was operated as a retail fueling facility containing both a gas station as well as a home heating oil delivery business. Contamination of the unconfined aquifer at this site, which is encountered at six to ten feet below land surface, resulted in the contamination of Little Campbell Creek adjacent to the property. Contaminated soils were removed from the site and an in-situ vapor extraction system was installed to vent fuel fumes in the subsurface. Groundwater contamination exists at this site and extends off the property, however, the areal extent of the contaminant plume has not yet been fully characterized.
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-45	D	Low		8123 HARTZELL RD	Plate 1	<i>ADEC LUST File # L55.134 and Site Name DENALI FUEL COMPANY - FUZZYS.</i> Contaminated soil and groundwater was discovered during the removal of a 10,000-gallon diesel UST in October of 1991. As of September of 2001, a release investigation has been conditionally approved for the installation of groundwater monitoring wells to determine the extent of petroleum contamination.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-70	D	High		7079 STELLA PL	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-73	D	High		2361 CINNABAR LOOP	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-68	D	High		1300 E 74TH AVE	Plate 1	

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-71	D	High		7100 HOMER AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-72	D	High		6614 LAKE OTIS PKWY	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-34	D	Low		7140 Lake Otis Parkway	Plate 1	<i>ADEC Contaminated Sites File # CS74.17 and Site Name Former Spruce Park Auto Body.</i> Petroleum contaminated soils and RCRA hazardous soils found on the site during MOA road construction project start. Site is Closed.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-67	D	High		1200 E 71ST AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-74	D	High		3429 E TUDOR RD	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-44	D	Low		3429 E TUDOR RD	Plate 1	<i>ADEC LUST File # L55.121 and Site Name Tudor Minit Lube Store #1071.</i> Petroleum contaminated soils were encountered in association with a regulated UST in August of 1991. A 4,000-gallon tank with 5W-30 new motor oil failed. A corrective action plan (CAP) was submitted to ADEC in 1995. There is no indication whether or not the CAP has been implemented.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-69	D	High		6051 BURLWOOD ST	Plate 1	CS19.NF
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-35	D	Low		6051 BURLWOOD ST	Plate 1	<i>ADEC Contaminated Sites File # CS19.NF and Site Name K &amp; D AUTO SERVICE.</i> Drum explosion spread waste oil over site. No further action required at this time. Site is CLOSED.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-53	D	Low		2341 CINNABAR LOOP	Plate 1	<i>ADEC LUST File # L55.250 and Site Name LASERTECH ALASKA.</i> Soil contamination was found in August of 1996 in association with a leaking 290-gallon used oil UST. Petroleum hydrocarbon concentrations werer below ADEC Level A for cleanup. A No Further Action letter was issued in February of 1997.

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-51	D	Low		7260 HOMER DR	Plate 1	<i>ADEC LUST File # L55.175 and Site Name MCDONALD INDUSTRIES ALASKA, INC.</i> During the removal of a 3,000-gallon diesel and a 3,000-gallon gasoline UST, a sheen was found on the water in the excavation in May of 1993. An environmental assessment report dated July 1993 indicated the presence of floor drains and dry wells in several of the structures on this property. It is unknown if these potential sources of contamination were ever addressed. Soil samples taken from the excavation pit indicated petroleum hydrocarbon contamination below ADEC Cleanup Level A. No further action was required for the site in December of 1994.
Tanks, lubricants or other petroleum products (underground)	T20	T20-5	D	Medium		3650-D E. TUDOR RD	Plate 1	6,000-gallons, single-walled with ATG
Tanks, lubricants or other petroleum products (underground)	T20	T20-4	D	Medium		8221 PETERSBURG ST	Plate 1	5,000-gallons, single-walled with Tank Tightness Testing and ATG. Tank is temporarily out of use.
Wastewater Holding Tank	T22	T22-4	D	Low		3650-D E. TUDOR RD	Plate 1	6,000-gallons
Closed Wastewater Holding Tank	T23	T23-2	D	Low		3650-D E. TUDOR RD	Plate 1	600-gallons
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-47	D	Low		3650-D E. TUDOR RD	Plate 1	<i>ADEC LUST File # L69.14 and Site Name MOA - NEW TRANSIT MAINTENANCE FACILITY.</i> During UST removals in June of 1992, diesel contamination from the USTs was found in the soil and groundwater. ADEC sent a letter to the Municipality of Anchorage requesting more action on the site in February of 2001. No additional information is available at this time.
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-55	D	Low		3650-C E. TUDOR	Plate 1	<i>ADEC LUST File # L69.50 and Site Name MOA - OLD TRANSIT MAINTENANCE.</i> Contaminated soil was discovered during the closure of a 500-gallon UST in August of 1997. LUST corrective action was initiated in March of 1998. No additional information is available at this time.
Closed Wastewater Holding Tank	T23	T23-1	D	Low		3650-D TUDOR RD	Plate 1	2,000-gallons
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-37	D	Low		3650 E Tudor Road	Plate 1	<i>ADEC Contaminated Sites File # CS69.14 and Site Name MOA Public Works Transit Facility.</i> Hydraulic fluid leaked from a lift in a bus service barn. Estimated that 1400 gallons leaked over 4 years. Site is Inactive.

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-33	D	Low		1118 E. 70th Avenue	Plate 1	<i>ADEC Contaminated Sites File # CS100.159 and Site Name MOA Road Construction &amp; Improvement.</i> During construction of road improvements, soils containing petroleum hydrocarbons above cleanup levels were encountered in the E. 70th Avenue right-of-way. The release is of unknown origin. A potential source is heavy oil (possibly waste oil) was used at some time in the past to suppress dust in the surface soils in traffic areas. Seven stockpiles showed DRO levels between 4.2 and 590 ppm. Those with DRO levels were disposed of at the MOA Hiland Rd. Landfill because they were under 1,000 ppm DRO. The remaining clean soil was used as fill. Site is Closed.
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-46	D	Low		8001 PETERSBURG ST	Plate 1	<i>ADEC LUST File # L55.135 and Site Name PACIFIC DETROIT DIESEL-ALLISON, Frontier Construction (formerly).</i> Soil and shallow groundwater contamination was encountered during the excavation of a 10,000 gallon waste oil tank in November of 1991. Contaminated soils were excavated and placed in a bioremediation cell onsite. Monitoring wells were installed and showed low levels of benzene in samples taken in October of 1993. In December of 1999, ADEC requested no further action on contaminated soils, but requested further groundwater monitoring at this site.
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-48	D	Low		1153 E 72ND AVE	Plate 1	<i>ADEC LUST File # L55.46 and Site Name PRIVATE CABLE/PACIFIC RIM TELECO.</i> The September 1992 removal of a 1,500-gallon diesel and a 1,500-gallon unleaded gasoline UST revealed soil contaminated with petroleum hydrocarbons. As of February of 2002, the responsible party has not yet retained a 3rd party consultant to conduct a release investigation for this site.
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-52	D	Low		3200 PROVIDENCE DR	Plate 1	<i>ADEC LUST File # L55.203 and Site Name PROVIDENCE HOSPITAL.</i> A diesel spill was discovered during the upgrade of a 500 gallon emergency generator in December of 1994. LUST corrective action is underway.

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-49	D	Low		3200 PROVIDENCE DR	Plate 1	<i>ADEC LUST File # L55.155 and Site Name PROVIDENCE HOSPITAL.</i> Soil and groundwater contamination was discovered during the removal of a 20,000-gallon diesel and a 7,000-gallon diesel UST in March of 1992. No soil and groundwater samples were found to contain petroleum hydrocarbons above ADEC cleanup levels. Site closure was complete in May of 1993.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-64	D	High		1207 E 76TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-63	D	High		1153 E 74TH AVE # 4	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-66	D	High		1326 E 74TH AVE	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-32	D	Low		7100 Lake Otis Pkwy.	Plate 1	<i>ADEC Contaminated Sites File # CS100.163 and Site Name Spruce Park Trailer Park.</i> Contamination from removal of 2 unregulated USTs 7/22-23/94. One was a 6,000 gallon heating oil tank and the second was a 500 gallon waste oil tank. DRO was found in soils up to 16,000 ppm and floating product was found on the groundwater. The two tanks were removed in October 1996. In July 2001, free products was reported floating on the water table measuring between 0.3 and 2.45 feet. Site is Open.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-36	D	Low		7780 Old Seward Highway	Plate 1	<i>ADEC Contaminated Sites File # CS01.NF and Site Name Stephen Residence.</i> Oil contamination present in soil from pipe behind old boathouse. Site is Closed.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-59	D	High		6714 LAKE OTIS PKWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-57	D	Low		2844 E TUDOR RD	Plate 1	<i>ADEC LUST File # L20.56 and Site Name TESERO Northstore # 56.</i> Observed groundwater impacts at time of UST removal in August of 1999. Approximately 45 cubic yards of a total of 90 cubic yards of contaminated soils were removed. Groundwater monitoring continues.

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-47	D	Low		2321 CINNIBAR LOOP	Plate 1	ADEC LUST File # L55.105 and Site Name THE EXCAVATION COMPANY. A March 1991 removal of three (3) underground storage tanks (5,000-gallon diesel, 300-gallon used oil, 4,000-gallon gasoline) revealed soil and groundwater contamination. Approximately 230 cubic yards of soil was excavated from the site and transported offsite for thermal treatment. All groundwater samples were below MCLs for total petroleum hydrocarbons. Site closure was complete in June of 1993.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-46	D	Low		7725 OLD SEWARD HWY	Plate 1	ADEC LUST File # L55.97 and Site Name Grand Auto #222. Soil and groundwater contamination was discovered during the removal of a 500-gallon used oil UST in October of 1990. Approximately 38 tons of contaminated soils were removed during the excavation and transported to the Anchorage Regional Landfill for disposal. An additional 20 cubic yards of contaminated soil that was above the landfill disposal limit (TPH > 1000 ppm) was transported for thermal treatment prior to disposal at the landfill. Three (3) groundwater monitoring wells were installed to determine the direction of groundwater flow and the extent and magnitude of contamination at this site. Total petroleum hydrocarbons (TPH) concentrations in groundwater samples were found to be well below ADEC groundwater cleanup standards. No further action was issued for this site in January of 1996.
Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-56	D	Low		8220 PETERSBURG STREET	Plate 1	ADEC LUST File # L55.198 and Site Name TOVSEN PROPERTY. A waste oil spill was discovered during the closure of a 550-gallon UST in September of 1994. The tank and contaminated soils were excavated and transported offsite for disposal. No further action was requested by ADEC in November of 1994.
Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-57	D	Low		3211 PROVIDENCE DR	Plate 1	LUST#L73.09
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-55	D	Low		3211 PROVIDENCE DR	Plate 1	ADEC LUST File # L73.21 and Site Name UAA Energy Module I Bldg. Diesel contamination was found during the removal of a 500-gallon UST used for an emergency generator in October of 1994. Site cleanup has been completed and a No Further Action letter was issued in March of 1999.

Table 5

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Heavy Metals, Cyanide, and Other Inorganic Chemicals**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-43	D	Low		3211 PROVIDENCE DR	Plate 1	<i>ADEC LUST File # L73.15 and Site Name UAA - Arts Building.</i> Soil and groundwater contamination was discovered during the removal of a 500-gallon diesel UST in July of 1997. Groundwater monitoring results in 2000 continue to show elevated diesel range organics. Groundwater monitoring continues.
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-53	D	Low		3211 PROVIDENCE DR	Plate 1	<i>ADEC LUST File # L73.05 and Site Name UAA - Providence.</i> Soil contamination was discovered during the removal of a used oil UST in June of 1991. Corrective action is underway and groundwater monitoring continues.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-50	D	Low		3211 PROVIDENCE DR	Plate 1	<i>ADEC LUST File # L73.13 and Site Name UAA Energy Module II Bldg.</i> Gasoline and diesel contamination was found during the removal of a 500-gallon UST used for an emergency generator in May of 1995. Several tons of fuel contaminated soil was removed from the excavation and transported offsite for thermal treatment. Site cleanup has been completed and a No Further Action letter was issued in March of 2001.
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-56	D	Low		8221 PETERSBURG ST	Plate 1	<i>ADEC LUST File # L55.269 and Site Name USPS - VMF (west tanks)</i> ADEC requested a release investigation for groundwater in March of 1998. No additional information is available at this time.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-54	D	Low		8221 PETERSBURG ST	Plate 1	<i>ADEC LUST File # L55.247 and Site Name US POSTAL SERVICE VEHICLE MAINT.</i> Low levels of petroleum hydrocarbon contamination was found in association with the removal of two motor oil and one used oil tanks. The tanks were removed and soils below cleanup ADEC cleanup Level A were put back into the excavation. Site cleanup was completed in December of 1996.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-45	D	Low		2900 E TUDOR RD	Plate 1	<i>ADEC LUST File # L55.95 and Site Name WILLIAMS EXPRESS #5020.</i> Soil and groundwater contamination was detected beneath a former diesel fueling facility in August of 1990. Contaminated soils were excavated and transported off-site for disposal. Some of the less contaminated soils were spread onsite. Groundwater monitoring wells were installed to determine to the extent of contamination on the unconfined aquifer and monitor concentrations. Site cleanup has been completed and No Further Action was granted in April of 2000.



Table 6

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Synthetic Organic Chemicals (Pesticides and Herbicides)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Municipal or city parks (with green areas)	X04	X4-1	A	Low	1	Midtown Park	3	
Agricultural chemical sales/storage	C02	C2-1	A	Medium	2	701 W 41ST AVE # 103	Plate 1	
Orchards or nurseries	A10	A10-1	A	Medium	3	601 W 41ST AVE # D	Plate 1	
Municipal or city parks (with green areas)	X04	X4-2	A	Low	4	Springer Park	3	
Lumber processing and preservation	N04	N4-1	A	Low	5	4300 B ST # 603	Plate 1	
Residential area	R01	R1-1	A	Low	6	Zone A Protection Area	3	266 acres
Residential area	R01	R1-2	B	Low	7	Zone B Protection Area	3	217 acres
Lumber processing and preservation	N04	N4-2	A	Low	8	3501 DENALI ST # 202	Plate 1	
Lawn and garden supplies/services	C23	C23-2	A	Low	9	3807 COPE ST	Plate 1	
Lawn and garden supplies/services	C23	C23-3	A	Low	10	3804 WILSON ST	Plate 1	
Lawn and garden supplies/services	C23	C23-1	A	Low		3105 CHEECHAKO ST	Plate 1	
Pest extermination services/pesticide sales	C33	C33-1	A	Low		1403 W 33RD AVE	Plate 1	
Florists	C12	C12-1	A	Low		3600 SPENARD RD	Plate 1	
Scrap, salvage, or junk yards	D59	D59-1	A	Low		1310 W. 56th Avenue	Plate 1	
Fish hatcheries	X46	X40-45	A	Low		4606 GARFIELD ST	Plate 1	
Florists	C12	C12-2	A	Low		343 W BENSON BLVD # 7	Plate 1	
Leather processing	C24	C24-1	A	Low		3605 ARCTIC BLVD	Plate 1	
Florists	C12	C12-3	A	Low		601 W 41ST AVE # B	Plate 1	
Pest extermination services/pesticide sales	C33	C33-2	A	Low		1104 W 30TH AVE	Plate 1	
Florists	C12	C12-4	A	Low		242 W 34TH AVE	Plate 1	
Landscaping around commercial, industrial, or government buildings	X03	X3-1	A	Low		Eureka and 36th Avenue	3	
Landscaping around commercial, industrial, or government buildings	X03	X3-2	A	Low		3800 Arctic Blvd	3	
Landscaping around commercial, industrial, or government buildings	X03	X3-3	A	Low		3500 Spenard	3	
Landscaping around commercial, industrial, or government buildings	X03	X3-4	A	Low		401 - 405 Northen Lights Blvd	3	
Municipal or city parks (with green areas)	X04	X4-3	A	Low		Pop Carr park	3	
Municipal or city parks (with green areas)	X04	X4-4	A	Low		48th St	3	
Municipal or city parks (with green areas)	X04	X4-5	A	Low		Arctic/Benson Park	3	
Municipal or city parks (with green areas)	X04	X4-6	A	Low		Wilson Street Park	3	
Residential septic systems (serves one single-family home)	R02	R2-1 - R2-6	A	Low		All septic systems in Zone A Protection Area	5	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-1 - D1-115	A	Low		All sewerlines in Zone A Protection Area	5	
Leather processing	C24	C24-2	B	Low		4417 OLD SEWARD HWY	Plate 1	

Table 6

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Synthetic Organic Chemicals (Pesticides and Herbicides)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-2	B	Low		4000 OLD SEWARD	Plate 1	
Quarries (sand, gravel, rock, other?)	E10	E10-1	B	Low		314 E INTERNATIONAL AIRPORT RD	Plate 1	
Lumber processing and preservation	N04	N4-3	B	Low		999 E TUDOR RD # 1	Plate 1	
Florists	C12	C12-8	B	Low		5401 FAIRBANKS ST # 3	Plate 1	
Florists	C12	C12-9	B	Low		118 E INTL AIRPORT RD	Plate 1	
Florists	C12	C12-5	B	Low		4007 OLD SEWARD HWY # 700	Plate 1	
Lumber processing and preservation	N04	N4-5	B	Low		424 W 54TH AVE	Plate 1	
Orchards or nurseries	A10	A10-2	B	Medium		5333 A ST	Plate 1	
Lumber processing and preservation	N04	N4-4	B	Low		128 E 51ST AVE	Plate 1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-1	B	Low		665 W POTTER DR	Plate 1	
Florists	C12	C12-6	B	Low		4007 OLD SEWARD HWY	Plate 1	
Quarries (sand, gravel, rock, other?)	E10	E10-2	B	Low		300 E 54TH AVE	Plate 1	
Scrap, salvage, or junk yards	D59	D59-2	B	Low		1100 W INTL AIRPORT RD	Plate 1	
Florists	C12	C12-7	B	Low		4240 OLD SEWARD HWY # 21	Plate 1	
Municipal or city parks (with green areas)	X04	X4-7	B	Low		Foxtree park	3	
Residential septic systems (serves one single-family home)	R02	R2-7 - R2-24	B	Low		All septic systems in Zone B Protection Area	5	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-116 - D1-237	B	Low		All sewerlines in Zone B Protection Area	5	
Florists	C12	C12-10	C	Low		4502 CASSIN DR	Plate 1	
Scrap, salvage, or junk yards	D59	D59-3	C	Low		5625 Old Seward Highway	Plate 1	
Scrap, salvage, or junk yards	D59	D59-4	C	Low		56th & Old Seward Highway	Plate 1	
Scrap, salvage, or junk yards	D59	D59-5	C	Low		849 E 56TH AVE	Plate 1	
Quarries (sand, gravel, rock, other?)	E10	E10-3	C	Low		240 W 68TH AVE	Plate 1	
Lumber processing and preservation	N04	N4-7	C	Low		166 E POTTER DR	Plate 1	
Leather processing	C24	C24-3	C	Low		5911 OLD SEWARD HWY	Plate 1	
Orchards or nurseries	A10	A10-3	C	Medium		6151 B ST	Plate 1	
Lumber processing and preservation	N04	N4-6	C	Low		2518 E TUDOR RD	Plate 1	
Agricultural chemical sales/storage	C02	C2-2	C	Medium		5340 TUDORTOP CIR	Plate 1	
Lawn and garden supplies/services	C23	C23-4	C	Low		2000 E DOWLING RD	Plate 1	
Lumber processing and preservation	N04	N4-8	C	Low		5900 ARCTIC BLVD	Plate 1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-3	C	Low		5941 ARCTIC BLVD	Plate 1	

Table 6

**Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Synthetic Organic Chemicals (Pesticides and Herbicides)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Scrap, salvage, or junk yards	D59	D59-6	C	Low		849 E 56TH AVE	Plate 1	
Residential area	R01	R1-3	C	Low		Zone C Protection Area	3	533 acres
Municipal or city parks (with green areas)	X04	X4-8	C	Low		Wickersham Park	3	
Municipal or city parks (with green areas)	X04	X4-9	C	Low		Carlson, Jacobson, and David Green Memorial Parks	3	
Municipal or city parks (with green areas)	X04	X4-10	C	Low		University Park	3	
Municipal or city parks (with green areas)	X04	X4-11	C	Low		Bancroft Park	3	
Municipal or city parks (with green areas)	X04	X4-12	C	Low		Wickersham Park	3	
Municipal or city parks (with green areas)	X04	X4-13	C	Low		Campbell Park	3	
Municipal or city parks (with green areas)	X04	X4-14	C	Low		Lynwood Park	3	
Municipal or city parks (with green areas)	X04	X4-15	C	Low		Meadow Street Park	3	
Residential septic systems (serves one single-family home)	R02	R2-25 - R2-41	B	Low		All septic systems in Zone C Protection Area	5	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-238 - D1-401	B	Low		All sewerlines in Zone C Protection Area	5	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-4	A	Medium	1	411 W TUDOR RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-2	A	Low	2	100 E 51ST AVE	Plate 1	
Motor / motor vehicle repair shops	C31	C31-3	A	Low	3	411 W TUDOR RD	Plate 1	
Asphalt and tar processing/storage	I03	I3-1	A	Low	4	4141 B ST # 410	Plate 1	
Lumber processing and preservation	N04	N4-1	A	Low	5	4300 B ST # 603	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-1	A	Low	6	4040 B ST	Plate 1	
Government vehicle maintenance facilities	X19	X19-3	A	Low	7	3301 C ST # 300	Plate 1	
Construction trade areas and materials	C09	C9-12	A	Low	8	4041 B ST	Plate 1	
Construction trade areas and materials	C09	C9-14	A	Low	9	4041 B ST # 202	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-2	A	Medium	10	101 E NORTHERN LIGHTS BLVD	Plate 1	
Battery manufacturing/recycling	I06	I6-1	A	Low		200 W 34TH AVE # 1076	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-5	A	Medium		301 E NORTHERN LIGHTS BLVD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-6	A	Medium		3607 SPENARD RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-1	A	Medium		1106 WILSHIRE AVE	Plate 1	
Motor / motor vehicle repair shops	C31	C31-1	A	Low		3800 ARCTIC BLVD	Plate 1	
Gasoline stations (without repair shop)	C15	C15-7	A	Low		3230 C ST	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-4	A	Low		3330 ARCTIC BLVD	Plate 1	<i>ADEC LUST File # L10.? and Site Name 3300-40 ARCTIC BLVD. CORPORATION. Petroleum contaminated soils and groundwater were identified in October of 1989 during the removal of two 5,000-gallon underground petroleum tanks. Site closure was granted by ADEC in February of 1990. No further action required at this time.</i>
Motor vehicle dealerships - cars, trucks, motor cycles, ATVs, snow machines, boats (with service department)	C27	C27-1	A	Low		3202 SPENARD RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-17	A	Low		3400 SPENARD RD # 4	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-18	A	Low		510 W TUDOR RD # 111	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-1	A	Low		4141 B ST	Plate 1	
Construction trade areas and materials	C09	C9-1	A	Low		200 W 34TH AVE # 374	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-1	A	Low		502 W NORTHERN LIGHTS BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-2	A	Low		360 W BENSON BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-19	A	Low		3201 C ST # 602	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Body shops (automotive)	C05	C5-1	A	Low		3685 SPRINGER ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-20	A	Low		3330 C ST # 100	Plate 1	
Printers, publishers, copiers	C37	C37-3	A	Low		501 W NORTHERN LIGHTS BL # 100	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-1	A	Low		3705 ARCTIC BLVD # 1693	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-21	A	Low		511 W 41ST AVE # 102	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-1	A	Low		4011 ARCTIC BLVD # 101	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-6	A	Low		4300 B ST	Plate 1	<i>ADEC LUST File # L55.96 and Site Name ALASKA ENERGY BUILDING</i> . Soil contamination was discovered during the excavation of a 500-gallon diesel underground storage tank in October of 1990. No groundwater contamination was detected. Approximately 10 - 12 cubic yards of contaminated soils were excavated below the tank and was transported offsite for thermal treatment. File closed out to ADEC's satisfaction in September of 1991.
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-2	A	Low		3689 ARCTIC BLVD	Plate 1	
Car washes with engine or undercarriage cleaning	C08	C8-1	A	Low		3800 MINNESOTA DR	Plate 1	
Body shops (automotive)	C05	C5-2	A	Low		2905 ARCTIC BLVD	Plate 1	
Orchards or nurseries	A10	A10-1	A	Low		601 W 41ST AVE # D	Plate 1	
Printers, publishers, copiers	C37	C37-4	A	Low		3685 ARCTIC BLVD	Plate 1	
Hardware stores	C17	C17-1	A	Low		4205 COPE ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-2	A	Low		700 W 41ST AVE # J	Plate 1	
Hardware stores	C17	C17-2	A	Low		3207 ARCTIC BLVD	Plate 1	
Lawn and garden supplies/services	C23	C23-1	A	Low		3105 CHEECHAKO ST	Plate 1	
Pest extermination services/pesticide sales	C33	C33-1	A	Low		1403 W 33RD AVE	Plate 1	
Printers, publishers, copiers	C37	C37-5	A	Low		4220 B ST # 210	Plate 1	
Construction trade areas and materials	C09	C9-2	A	Low		511 W 41ST AVE	Plate 1	
Sign manufacturing	I39	I39-1	A	Low		3404 ARCTIC BLVD	Plate 1	
Gasoline stations (with repair shop)	C16	C16-2	A	Low		3607 SPENARD RD	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-3	A	Low		150 W TUDOR RD	Plate 1	<p><i>ADEC LUST File # L30.12 and Site Name MAPCO - EXPRESS #5012. Petroleum hydrocarbon contaminated soil and groundwater was encountered in September of 1987 during the removal of three (3) USTs (two gasoline and one diesel). Approximately 1,100 cubic yards of contaminated soils were removed in May of 1989 and later transported offsite for treatment and disposal. Groundwater monitoring wells were installed to determine the magnitude and extent of contamination. Benzene concentrations during the groundwater sampling periods in 1990 and 1991 were as high as 35 ppm in MW-3. An in-situ vapor extraction system (VES) was installed to aid in the remediation of groundwater at this site in 1993 and operated on a continuous basis until April of 2000. In conjunction with the VES, an air injection system (AIS) was installed in October of 1996 following the discovery of free petroleum product on the water table. Groundwater samples taken September 28, 2001 indicated the presence of petroleum hydrocarbons in MW-11 (north of excavation) with benzene (0.97 ppm) still over the MCL (0.005 ppm) for drinking water. However, concentrations of all constituents have shown a marked decrease since the June 2000 sampling period. This is due mostly impart to the removal of the contaminated soils coupled with the natural attenuation and dispersion of the contaminant plume. The next sampling period was scheduled for March 2002. The results of those tests are currently not available.</i></p>
				Low				
Heavy equipment rental/storage	C18	C18-1	A	Low		3600 ARCTIC BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-6	A	Low		600 W NORTHERN LIGHTS BLVD	Plate 1	
Heavy equipment rental/storage	C18	C18-2	A	Low		3940 ARCTIC BLVD # 300	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-23	A	Low		343 W BENSON BLVD # 3	Plate 1	
Race tracks (automotive)	C38	C38-1	A	Low		3600 EUREKA ST	Plate 1	
Printers, publishers, copiers	C37	C37-7	A	Low		702 W 32ND AVE	Plate 1	
Hardware stores	C17	C17-3	A	Low		3699 SPRINGER ST	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-5	A	Low		3719 ARCTIC BLVD.	Plate 1	ADEC LUST File # L55.48 and Site Name ARCTIC ANNEX BUILDING. Gasoline contaminated soil and groundwater was discovered during the removal of a 6,000-gallon unleaded gasoline UST in November of 1989. Approximately 65 cubic yards of contaminated soils were excavated and were temporarily stockpiled onsite. Sampling/results of groundwater from monitoring wells indicated 1.34 ppm benzene, 4.4 ppm ethylbenzene, 19.2 ppm toluene, and 25.5 ppm xylenes during the November sampling period. Contaminated soils were transported offsite for disposal at the Anchorage Regional Landfill in September of 1990. Groundwater samples taken in 1991 - 1998 continued to show petroleum hydrocarbons above the MCL for both soil and drinking water. In July of 1998, ADEC requested that the responsible party continue to monitor groundwater contamination on a semi-annual basis coupled with the submittal of a Corrective Action Plan for the existing soil contamination at this site. No information has been received by ADEC since 1998.
Laundromats without dry cleaning	C22	C22-1	A	Low		701 W 36TH AVE	Plate 1	
Gasoline stations (without repair shop)	C15	C15-3	A	Low		3603 ARCTIC BLVD	Plate 1	
Gasoline stations (with repair shop)	C16	C16-1	A	Low		810 W TUDOR RD	Plate 1	
Tanks, lubricants or other petroleum products (underground)	T20	T20-1	A	Low		810 W TUDOR RD	Plate 1	550-gallons, double-walled, Manual Tank Testing

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-2	A	Low		810 W TUDOR RD	Plate 1	<i>ADEC LUST File # L25.09 and Site Name ARCTIC TEXACO.</i> Soil and groundwater contamination was discovered in February of 1992 as the result of a line failure between a turbine pump and the dispenser for a fuel UST system. Approximately 1,481 tons of contaminated soils were removed and transported offsite for treatment and processing. Groundwater monitoring wells were installed and samples were taken of the groundwater in January of 1994. Petroleum hydrocarbon concentrations during this sampling period were above MCLs for drinking water. A soil vapor extraction system (VES) was installed to aid in the remediation of the site in 1989. Additionally, a groundwater treatment system (GTS) was installed in 1997-1998. Quarterly groundwater samples were submitted to ADEC beginning in 1994 through continue today. Groundwater samples/results from March of 2001 continued to show petroleum hydrocarbons above MCLs for drinking water. Sample results from December 2001 are currently being reviewed by ADEC.
Agricultural chemical sales/storage	C02	C2-1	A	Low		701 W 41ST AVE # 103	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-6	A	Low		3000 ARCTIC BLVD.	Plate 1	<i>ADEC LUST File # L69.42 and Site Name AWWU - ANCHORAGE WATER &amp; WASTEWATER UTILITY HEADQUARTERS BUILDING.</i> Soil contamination was discovered during the removal of two gasoline USTs in April of 1993. Approximately 630 tons of contaminated soils exceeding Level A Cleanup Standards were excavated and transported offsite for thermal treatment. ADEC has no additional information is available at this time on current site conditions.
Florists	C12	C12-1	A	Low		3600 SPENARD RD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-1	A	Low		700 W 41ST AVE	Plate 1	
Printers, publishers, copiers	C37	C37-8	A	Low		4639 KENT ST	Plate 1	
Scrap, salvage, or junk yards	D59	D59-1	A	Low		1310 W. 56th Avenue	Plate 1	
Construction trade areas and materials	C09	C9-3	A	Low		3120 DENALI ST	Plate 1	
Jewelry manufacturing	I22	I22-1	A	Low		3000 A ST	Plate 1	
Pharmacies	C35	C35-1	A	Low		173 E NORTHERN LIGHTS BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-24	A	Low		4500 BUSINESS PARK BLVD # C10	Plate 1	



Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-25	A	Low		4500 BUSINESS PARK BLVD # 10	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-26	A	Low		700 W NORTHERN LIGHTS BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-27	A	Low		405 W 36TH AVE # 100	Plate 1	
Hardware stores	C17	C17-4	A	Low		3227 ARCTIC BLVD	Plate 1	
Construction trade areas and materials	C09	C9-4	A	Low		1206 CHUGACH WAY	Plate 1	
Construction trade areas and materials	C09	C9-5	A	Low		1503 W 45TH AVE	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-2	A	Low		3565 ARCTIC BLVD	Plate 1	
Construction trade areas and materials	C09	C9-6	A	Low		3605 ARCTIC BLVD # 729	Plate 1	
Construction trade areas and materials	C09	C9-7	A	Low		3333 DENALI ST	Plate 1	
Heavy equipment rental/storage	C18	C18-3	A	Low		700 W 41ST AVE	Plate 1	
Hardware stores	C17	C17-5	A	Low		4263 MINNESOTA DR	Plate 1	
Hardware stores	C17	C17-6	A	Low		4011 ARCTIC BLVD # 206	Plate 1	
Heavy equipment rental/storage	C18	C18-4	A	Low		101 W BENSON BLVD # 503	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-5	A	Low		1401 W. 33RD	Plate 1	ADEC LUST File # L55.02 and Site Name E. J. YOUNG. Soil contamination was discovered during the excavation of an UST in May of 1990. Contaminated soils were excavated and stockpiled onsite for bioremediation in June of 1990. Treated soils were then placed back into the excavation pit in 1992. In December of 1997, the excavation surface was paved to decrease the amount of precipitation that infiltrates the soil at this site. On December 17, 1997, a No Further Action letter was issued by ADEC and site closure was complete.
Construction trade areas and materials	C09	C9-8	A	Low		1207 W 47TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-9	A	Low		3300 ARCTIC BLVD # 205	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-2	A	Low		3400 SPENARD RD	Plate 1	
Jewelers	C19	C19-1	A	Low		601 W 36TH AVE # 16	Plate 1	
Florists	C12	C12-2	A	Low		343 W BENSON BLVD # 7	Plate 1	
Printers, publishers, copiers	C37	C37-9	A	Low		3685 ARCTIC BLVD	Plate 1	
Textile manufacturing	I45	I45-1	A	Low		510 W 41ST AVE	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-2	A	Low		3231 SPENARD RD	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-3	A	Low		701 W 41ST AVE	Plate 1	
Construction trade areas and materials	C09	C9-10	A	Low		4101 ARCTIC BLVD # 102	Plate 1	
Government vehicle maintenance facilities	X19	X19-2	A	Low		3601 C ST # 1034	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-2	A	Low		1311 W 40th Avenue	Plate 1	ADEC Contaminated Sites File # CS100.148 and Site Name Former Auto Repair Shop. Evicted tenants left drums and batteries, junk autos, and several open containers. Site assessment in August of 1995 found petroleum had been discharged from 55-gallon drums onto the driveway that resulted in contamination of soil in adjacent unpaved, shallow roadside ditch. Site is INACTIVE.
Leaking Underground Fuel Storage Tank (LUST) Site	U04	U4-38	A	Low		2808 Eureka Street	Plate 1	ADEC Contaminated Sites File # CS96.67 and Site Name Former Icicle Seafood Unreg. UST. Soil and groundwater contamination was discovered resulting from an unregulated leaking 1,000-gallon commercial heating oil underground storage tank (UST). Contaminated soils were removed and groundwater monitoring continued up until late 1996 when petroleum hydrocarbon contamination decreased enough to issue a "No Further Action" request for the site. This site has been CLOSED since March of 1997.
Hardware stores	C17	C17-19	A	Low		3309 SPENARD RD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-2	A	Low		3903 COPE ST	Plate 1	
Construction trade areas and materials	C09	C9-11	A	Low		3705 ARCTIC BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-10	A	Low		2805 BERING ST	Plate 1	
Body shops (automotive)	C05	C5-3	A	Low		1306 CHUGACH WAY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-28	A	Low		3510 SPENARD RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-3	A	Low		111 E NORTHERN LIGHTS BLVD	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-7	A	Low		111 E NORTHERN LIGHTS BLVD	Plate 1	ADEC LUST File # L55.98 and Site Name GRAND AUTO SUPPLY #217. Waste oil contamination was discovered in the soils during the removal of a 500-gallon UST in October of 1990. Approximately 45 cubic yards of contaminated soil was excavated from the site and transported offsite. No further action was required and site closure was complete in August of 1992.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-29	A	Low		702 W 32ND AVE # 202	Plate 1	
Construction trade areas and materials	C09	C9-13	A	Low		301 W NORTHERN LIGHTS # 300	Plate 1	
Printers, publishers, copiers	C37	C37-11	A	Low		341 W TUDOR RD # 206	Plate 1	
Motor / motor vehicle repair shops	C31	C31-4	A	Low		3207 DENALI ST	Plate 1	
Hardware stores	C17	C17-7	A	Low		341 W TUDOR RD	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Furniture manufacturing, repair, and finishing shops	C14	C14-3	A	Low		1408 W 36TH AVE	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-3	A	Low		301 E NORTHERN LIGHTS BLVD	Plate 1	ADEC LUST File # and Site Name HEGEDUS & SONS FIRESTONE. Petroleum soil & shallow groundwater contamination found during gasoline & waste oil tank removal. Amount of product loss unknown. Site closed out unless concrete apron is removed then further action will need to be taken.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-30	A	Low		2909 ARCTIC BLVD # 101	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-3	A	Low		701 SESAME ST # 200	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-2	A	Low		4500 BUSINESS PARK BLVD # 18	Plate 1	
Taxidermists	C41	C41-1	A	Low		704 W 45TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-15	A	Low		3333 DENALI ST	Plate 1	
Hardware stores	C17	C17-8	A	Low		1207 W 36TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-16	A	Low		1204 CHUGACH WAY	Plate 1	
Hardware stores	C17	C17-9	A	Low		500 W 41ST AVE	Plate 1	
Hardware stores	C17	C17-10	A	Low		3703 SPENARD RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-31	A	Low		541 W 36TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-17	A	Low		3705 ARCTIC BLVD # 1189	Plate 1	
Jewelers	C19	C19-2	A	Low		1303 W 33RD AVE	Plate 1	
Motor / motor vehicle repair shops	C31	C31-5	A	Low		3611 1/2 SPENARD RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-4	A	Low		300 CALAIS DR	Plate 1	
Rubber fabrication or manufacturing	I38	I38-1	A	Low		3380 C ST # 205	Plate 1	
Motor / motor vehicle repair shops	C31	C31-6	A	Low		3330 DENALI ST	Plate 1	
Printers, publishers, copiers	C37	C37-12	A	Low		4220 B ST # 210	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-4	A	Low		4101 ARCTIC BLVD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-5	A	Low		501 W 41ST AVE	Plate 1	
Printers, publishers, copiers	C37	C37-13	A	Low		700 W 41ST AVE	Plate 1	
Hardware stores	C17	C17-11	A	Low		4141 B ST # 207	Plate 1	
Lumber processing and preservation	N04	N4-2	A	Low		3501 DENALI ST # 202	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-32	A	Low		401 E 36TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-33	A	Low		3501 DENALI ST # 302	Plate 1	
Printers, publishers, copiers	C37	C37-14	A	Low		600 W 41ST AVE # A	Plate 1	
Paint sales /service	C32	C32-1	A	Low		555 W NORTHERN LIGHTS BL # 207	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Machine and metal work shops	I23	I23-1	A	Low		200 W 34TH AVE # 979	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATVs, snow machines, boats (with service department)	C27	C27-3	A	Low		3710 SPENARD RD	Plate 1	
Gasoline stations (without repair shop)	C15	C15-1	A	Low		150 W TUDOR RD	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-3	A	Low		150 W TUDOR RD	Plate 1	<i>ADEC LUST File # L30.12 and Site Name MAPCO - EXPRESS #5012. Petroleum hydrocarbon contaminated soil and groundwater was encountered in September of 1987 during the removal of three (3) USTs (two gasoline and one diesel). Approximately 1,100 cubic yards of contaminated soils were removed in May of 1989 and later transported offsite for treatment and disposal. Groundwater monitoring wells were installed to determine the magnitude and extent of contamination. Benzene concentrations during the groundwater sampling periods in 1990 and 1991 were as high as 35 ppm in MW-3. An in-situ vapor extraction system (VES) was installed to aid in the remediation of groundwater at this site in 1993 and operated on a continuous basis until April of 2000. In conjunction with the VES, an air injection system (AIS) was installed in October of 1996 following the discovery of free petroleum product on the water table. Groundwater samples taken September 28, 2001 indicated the presence of petroleum hydrocarbons in MW-11 (north of excavation) with benzene (0.97 ppm) still over the MCL (0.005 ppm) for drinking water. However, concentrations of all constituents have shown a marked decrease since the June 2000 sampling period. This is due mostly impart to the removal of the contaminated soils coupled with the natural attenuation and dispersion of the contaminant plume. The next sampling period was scheduled for March 2002. The results of those tests are currently not available.</i>
Gasoline stations (without repair shop)	C15	C15-4	A	Low		3201 C ST # 700	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-22	A	Low		2805 DAWSON ST # 100	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-34	A	Low		601 W 41ST AVE # 102	Plate 1	
Jewelry manufacturing	I22	I22-2	A	Low		3300 ARCTIC BLVD	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-1	A	Low		3737 ARCTIC BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-15	A	Low		601 W 36TH AVE # 7	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-35	A	Low		4101 ARCTIC BLVD	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-7	A	Low		4333 BERING ST	Plate 1	<i>ADEC LUST File # L69.43 and Site Name MOA - BERING STREET MAINTENANCE SHOP.</i> Soil contamination was discovered during the removal of 5,000-gallon used oil UST in May of 1993 (Event ID 360). During this closure event, one 5,000-gallon gasoline and one 500-gallon used oil USTs were discovered. The two 5,000-gallon tanks were removed and the 500-gallon tank was closed in place. Approximately 400 cubic yards of contaminated soils were removed from the excavation. In October of 1996, a soil vapor extraction (SVE) system was installed to enhance the remediation of the site. In October of 1998, a 12,000-gallon gasoline UST was removed from the same property (Event ID 2656). Soils and groundwater contained gasoline range organics and BTEX over the MCL for ADEC Level A Cleanup Standards. Contaminated soils were removed from the excavation pit and transported offsite for thermal treatment. The Work Plan for this site entails quarterly groundwater monitoring in 2001. Laboratory results were expected in January 2002 and a report summarizing the results should have been submitted to ADEC in February 2002. ADEC is in the process of acquiring the results of the February 2002 sampling period.
Body shops (automotive)	C05	C5-4	A	Low		1104 1/2 W 30TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-18	A	Low		3702 SPENARD RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-36	A	Low		240 E TUDOR RD # 100	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-5	A	Low		3400 SPENARD RD # A	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-10	A	Low		301 W NORTHERN LIGHTS BLVD	Plate 1	<i>ADEC LUST File # L55.161 and Site Name NATIONAL BANK OF ALASKA Corp HQ.</i> Soil and slight groundwater contamination was discovered during the removal of a 500-gallon diesel UST in November of 1992. Groundwater monitoring wells were installed and contaminated soils were excavated in June of 1993. Contaminated soils were spread onsite due to their low level of contamination. Monitoring wells were decommissioned and site closure was complete on June 22, 1993.
Construction trade areas and materials	C09	C9-19	A	Low		712 W 36TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-37	A	Low		3330 EAGLE ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-6	A	Low		3408 ARCTIC BLVD	Plate 1	
Heavy equipment rental/storage	C18	C18-5	A	Low		4700 BUSINESS PARK BLVD # 19	Plate 1	
Leather processing	C24	C24-1	A	Low		3605 ARCTIC BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-16	A	Low		4011 ARCTIC BLVD # 103	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-38	A	Low		207 E NORTHERN LIGHTS BL # 201	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-39	A	Low		4101 ARCTIC BLVD	Plate 1	
Hardware stores	C17	C17-12	A	Low		702 W 32ND AVE	Plate 1	
Windshield/glass repair shops	C44	C44-1	A	Low		3221 DENALI ST	Plate 1	
Heavy equipment rental/storage	C18	C18-6	A	Low		101 W BENSON BLVD # 503	Plate 1	
Construction trade areas and materials	C09	C9-20	A	Low		240 E TUDOR RD # 200	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-4	A	Low		240 E TUDOR RD # 200	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-40	A	Low		3601 C ST # 260	Plate 1	
Construction trade areas and materials	C09	C9-21	A	Low		3510 SPENARD RD # 105	Plate 1	
Metal refining	I28	I28-1	A	Low		3406 ARCTIC BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-41	A	Low		4000 CREDIT UNION DR # 600	Plate 1	
Hardware stores	C17	C17-13	A	Low		3209 SPENARD RD	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-8	A	Low		3707 ARCTIC BLVD	Plate 1	<i>ADEC LUST File # 55.103 and Site Name LK COMSTOCK AND COMPANY.</i> Near surface soil contamination was discovered during the removal of one 800-gallon diesel tank and one 1200-gallon gasoline UST in January of 1991. Contaminated soils were excavated and transported offsite from disposal. A groundwater monitoring well installed downgradient of the contaminated area detected no petroleum hydrocarbons. No further action was issued by ADEC in February of 1992.
Petroleum product bulk station/terminals	X11	X11-1	A	Low		3111 C ST # 500	Plate 1	
Heavy equipment rental/storage	C18	C18-7	A	Low		502 W NORTHERN LIGHTS BLVD	Plate 1	
Dry cleaners	C10	C10-1	A	Low		2700 A ST	Plate 1	
Injection wells (Class V) Industrial Process Water & Water Disposal Wells	D40	D40-1	A	Low		2700 A ST	Plate 1	
Printers, publishers, copiers	C37	C37-17	A	Low		702 W NORTHERN LIGHTS BLVD	Plate 1	
Lawn and garden supplies/services	C23	C23-2	A	Low		3807 COPE ST	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-3	A	Low		520 W 41ST AVE # A	Plate 1	
Welding shops	C43	C43-1	A	Low		3705 ARCTIC BLVD # 111	Plate 1	
Construction trade areas and materials	C09	C9-22	A	Low		1401 W 34TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-23	A	Low		1399 W 34TH AVE # 205	Plate 1	
Motor / motor vehicle repair shops	C31	C31-7	A	Low		1207 CHUGACH WAY	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Printers, publishers, copiers	C37	C37-18	A	Low		600 W NORTHERN LIGHTS BLVD	Plate 1	
Hardware stores	C17	C17-14	A	Low		702 W 32ND AVE # 101	Plate 1	
Construction trade areas and materials	C09	C9-24	A	Low		1206 W 47TH AVE # A	Plate 1	
Motor / motor vehicle repair shops	C31	C31-8	A	Low		1106 WILSHIRE AVE	Plate 1	
Sign manufacturing	I39	I39-2	A	Low		3909 ARCTIC BLVD	Plate 1	
Paint sales /service	C32	C32-2	A	Low		3705 ARCTIC BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-19	A	Low		3201 C ST # 115	Plate 1	
Hardware stores	C17	C17-15	A	Low		3300 C ST	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-5	A	Low		207 E NORTHERN LIGHTS # 103 A	Plate 1	
Construction trade areas and materials	C09	C9-25	A	Low		3700 SPRINGER ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-7	A	Low		401 W TUDOR RD # C	Plate 1	
Asphalt and tar processing/storage	I03	I3-2	A	Low		701 W 41ST AVE # 103	Plate 1	
Hardware stores	C17	C17-16	A	Low		3205 SPENARD RD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-6	A	Low		1107 W 36TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-42	A	Low		3803 MCCAIN LOOP	Plate 1	
Florists	C12	C12-3	A	Low		601 W 41ST AVE # B	Plate 1	
Printers, publishers, copiers	C37	C37-20	A	Low		521 W 41ST AVE	Plate 1	
Dry cleaners	C10	C10-2	A	Low		2811 DAWSON ST	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-11	A	Low		3630 SPRINGER ST	Plate 1	<i>ADEC LUST File # L55.277 and Site Name SUNRISE DISTRIBUTING CO, INC.</i>
Hardware stores	C17	C17-17	A	Low		3695 SPRINGER ST	Plate 1	
Gasoline stations (without repair shop)	C15	C15-2	A	Low		101 E NORTHERN LIGHTS BLVD	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-9	A	Low		101 E NORTHERN LIGHTS BLVD	Plate 1	<i>ADEC LUST File # 55.130 and Site Name TESORO NORTHSTORE #72 and BAILEYS RENT ALL (FORMERLY). In October of 1991, soil contamination was discovered during the removal of a diesel, gasoline, and used oil underground tanks (500 gallons each). Contaminated soils were excavated. No further action was issued and site cleanup was complete in September of 1996..</i>
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-12	A	Low		3601 C ST	Plate 1	<i>ADEC LUST File # L55.327 nfa and Site Name THE FRONTIER BUILDING. Minor soil contamination was discovered during the removal of a 300-gallon diesel UST in February of 1999. Contaminated soils were removed from the excavation. A No Further Action letter written by ADEC on 05 May 1999.</i>
Printers, publishers, copiers	C37	C37-21	A	Low		300 W 36TH AVE	Plate 1	
Hardware stores	C17	C17-18	A	Low		701 SESAME ST # 102	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Motor vehicle/general storage yards/facilities	X27	X27-2	A	Low		341 W TUDOR RD	Plate 1	
Pest extermination services/pesticide sales	C33	C33-2	A	Low		1104 W 30TH AVE	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-4	A	Low		401 W Tudor Road	Plate 1	<i>ADEC Contaminated Sites File # CS100.158 and Site Name Tudor Rd. Dimond Z.</i> Surface staining and soil contamination was discovered during a property transfer on May 26, 1994. Minor groundwater contamination had occurred. This site is CLOSED (September 1999).
Lawn and garden supplies/services	C23	C23-3	A	Low		3804 WILSON ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-43	A	Low		701 SESAME ST # 101	Plate 1	
Florists	C12	C12-4	A	Low		242 W 34TH AVE	Plate 1	
Closed tanks, lubricants or other petroleum products (underground)	T21	T21-1	A	Low		300 E 36TH AVE	Plate 1	500-gallons
Government vehicle maintenance facilities	X19	X19-1	A	Low		300 E 36TH AVE	Plate 1	
Printers, publishers, copiers	C37	C37-22	A	Low		200 W 34TH AVE # 658	Plate 1	
Pharmacies	C35	C35-2	A	Low		3101 A ST	Plate 1	
Construction trade areas and materials	C09	C9-26	A	Low		3909 ARCTIC BLVD	Plate 1	
Construction trade areas and materials	C09	C9-27	A	Low		4101 ARCTIC BLVD # 203	Plate 1	
Motor / motor vehicle repair shops	C31	C31-9	A	Low		1303 W 33RD AVE	Plate 1	
Construction trade areas and materials	C09	C9-28	A	Low		511 W 41ST AVE	Plate 1	
Jewelry manufacturing	I22	I22-3	A	Low		3300 ARCTIC BLVD	Plate 1	
Gasoline stations (without repair shop)	C15	C15-6	A	Low		3500 C ST	Plate 1	
Gasoline stations (without repair shop)	C15	C15-5	A	Low		3201 C ST	Plate 1	
Gasoline stations (without repair shop)	C15	C15-8	A	Low		3727 SPENARD RD	Plate 1	



Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-8	A	Low		3727 SPENARD RD	Plate 1	<i>ADEC LUST File # L.30.30 and Site Name WILLIAMS EXPRESS #5030.</i> A 2,500-gallon heating oil UST was removed from the site in 1991. Confirmation soil samples indicated the presence of petroleum hydrocarbons. Further site characterization work in 1991 confirmed impacted soils and groundwater. In June and July of 1999 soils were excavated to determine severity of the release during tank upgrades (Event ID 2349). Approximately 120 cubic yards of fuel contaminated soil was removed from the excavation and transported offsite for treatment and disposal. To evaluate the magnitude and extent of groundwater contamination, six monitoring wells were installed. Groundwater samples confirmed the presence of elevated petroleum hydrocarbons. On March 22, 2001 gasoline was spilled on-site due to overfilling of the USTs (Event ID 2660). An additional monitoring well was installed and sampled. The results of that sampling verified the presence of petroleum impacted groundwater. It is not apparent whether or not the impacted groundwater is a result of the 2001 spill event, the existing contaminant plume from the former UST excavations on-site, or contaminant sources on adjacent properties. A phased approach for addressing groundwater contamination at this site is described in a November 7, 2001 submittal of a Corrective Action Plan (CAP). In the spring of 2002, the CAP will be implemented and will include a combined vapor extraction and air injection system to treat the impacted contaminant source area. Groundwater was sampled in March/April of 2002. The results of those tests are currently not available.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-44	A	Low		341 W TUDOR RD # 106	Plate 1	
Lubrication shops	C25	C25-1	A	Low		150 E BENSON BLVD	Plate 1	
Gasoline stations (with repair shop)	C16	C16-3	A	Low		3304 SPENARD RD	Plate 1	
Tanks, lubricants or other petroleum products (underground)	T20	T20-2	A	Low		3304 SPENARD RD	Plate 1	550-gallons, single-walled, Manual Tank Testing, Tank Tightness Testing, and Inventory Control
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-2	A	Low		3304 SPENARD RD	Plate 1	<i>ADEC LUST File # L25.07.44 and Site Name Y &amp; B TEXACO #24.</i> Gasoline and waste oil contamination was encountered in soils during an waste oil UST removal in August of 1988. Approximately 300 cubic yards of soil was excavated and disposed of in an ADEC approved manner. The excavation was then backfilled with clean gravel and sand prior to the installation of the new UST system. Site cleanup was complete in October of 1988.

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-13	A	Low		3600 DENALI ST	Plate 1	ADEC LUST File # L69.62 and Site Name Z J LOUSSAC PUBLIC LIBRARY. Minimal soil contamination was discovered during the removal of a 1,000-gallon diesel UST in December of 1997. The tank was removed and a new 1,000-gallon double-walled UST was put in its place. No further action was required by ADEC in September of 1998.
Printers, publishers, copiers	C37	C37-1	A	Low		4011 ARTIC BLVD # 107	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-1	A	Low		3300 C ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-2	A	Low		3601 C ST # 574	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-3	A	Low		3201 C ST # 107	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-4	A	Low		3401 DENALI ST # 203	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-5	A	Low		405 W 36TH AVE # 101	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-6	A	Low		3340 ARCTIC BLVD # 104	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-7	A	Low		3401 DENALI ST # 102	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-8	A	Low		240 E TUDOR RD # 100	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-9	A	Low		3401 DENALI ST # 201	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-10	A	Low		741 SESAME ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-11	A	Low		3401 DENALI ST # 102	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-12	A	Low		3201 C ST # 107	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-13	A	Low		4060 B ST # 110	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-14	A	Low		3900 ARCTIC BLVD # 103	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-15	A	Low		4141 B ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-16	A	Low		4300 B ST # 202	Plate 1	
Residential area	R01	R1-1	A	Low		Zone A Protection Area	3	266 acres
Landscaping around commercial, industrial, or government buildings	X03	X3-1	A	Low		Eureka and 36th Avenue	3	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Landscaping around commercial, industrial, or government buildings	X03	X3-2	A	Low		3800 Arctic Blvd	3	
Landscaping around commercial, industrial, or government buildings	X03	X3-3	A	Low		3500 Spenard	3	
Landscaping around commercial, industrial, or government buildings	X03	X3-4	A	Low		401 - 405 Northen Lights Blvd	3	
Municipal or city parks (with green areas)	X04	X4-1	A	Low		Midtown Park	3	
Municipal or city parks (with green areas)	X04	X4-2	A	Low		Springer Park	3	
Municipal or city parks (with green areas)	X04	X4-3	A	Low		Pop Carr park	3	
Municipal or city parks (with green areas)	X04	X4-4	A	Low		48th St	3	
Municipal or city parks (with green areas)	X04	X4-5	A	Low		Arctic/Benson Park	3	
Municipal or city parks (with green areas)	X04	X4-6	A	Low		Wilson Street Park	3	
Highways and roads, paved (cement or asphalt)	X20	X20-1 - X20-80	A	Low		All roads in Zone A Protection Area	4	
Residential septic systems (serves one single-family home)	R02	R2-1 - R2-6	A	Low		All septic systems in Zone A Protection Area	5	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-1 - D1-115	A	Low		All sewerlines in Zone A Protection Area	5	
Furniture manufacturing, repair, and finishing shops	C14	C14-7	B	Low		4841 FAIRBANKS ST # I	Plate 1	
Gasoline stations (without repair shop)	C15	C15-12	B	Low		5121 ARCTIC BLVD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-8	B	Medium		501 W INTL AIRPORT RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-24	B	Low		601 W 58TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-12	B	Medium		737 E INTL AIRPORT RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-12	B	Low		4617 OLD SEWARD HWY	Plate 1	
Printers, publishers, copiers	C37	C37-29	B	Low		549 W INTL AIRPORT RD # 812	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-5	B	Low		512 W INTL AIRPORT RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-10	B	Low		600 Telephone Avenue	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-5	B	Low		600 Telephone Avenue	Plate 1	ADEC Contaminated Sites File # CS 100.155 and Site Name ACS Warehouse. Hydraulic fluid released from a floor lift under the facility building. Approximately 40 cubic yards of soil was reportedly excavated from this area. Analytical results indicate that diesel range organic (DRO) concentrations remaining in the soil were as high as 2,130 mg/kg and residual range organic (RRO) concentration at 6,350 mg/kg. This site is currently INACTIVE.

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-20	B	Low		600 Telephone Avenue	Plate 1	ADEC LUST File # L69.21 and Site Name MOA - ANCHORAGE TELEPHONE UTILITY. This is a combination ADEC Contaminated Site (CS 100.155 ) and LUST Site. See Contaminant Source ID Tag U4-5. Petroleum hydrocarbon contamination was found during an underground tank system removal in July of 1991. The tanks and contaminated soils were excavated from the site and cleanup was completed in March of 1993.
Motor / motor vehicle repair shops	C31	C31-25	B	Low		5610 SILVERADO WAY # A3	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV s, snow machines, boats (with service department)	C27	C27-5	B	Low		3901 OLD SEWARD HWY	Plate 1	
Heavy equipment rental/storage	C18	C18-18	B	Low		100 W INTERNATIONAL AIRPORT RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-26	B	Low		737 E INTL AIRPORT RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-16	B	Low		5235 A ST	Plate 1	
Construction trade areas and materials	C09	C9-37	B	Low		261 E 56TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-38	B	Low		520 W 58TH AVE # J	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-4	B	Low		910 W INTERNATIONAL AIRPORT RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-10	B	Low		4109 OLD SEWARD HWY # 100	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-25	B	Medium		3200 SEWARD HWY	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-5	B	Low		350 E INTL AIRPORT RD	Plate 1	
Construction trade areas and materials	C09	C9-39	B	Low		720 W 58TH AVE # D	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-50	B	Low		4637 OLD SEWARD HWY	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-6	B	Low		4550 Gambell Street	Plate 1	No ADEC Contaminated Sites File #. Site Name Alaska Club Partners. Drums of petroleum products have spilled over the years creating patches of contamination in the surface and subsurface soil. Contaminated soil are stockpiled (12 cy) and will be transported offsite for thermal treatment in the spring of 2002. Site is currently ACTIVE.
Motor/motor vehicle supplies stores	C28	C28-17	B	Low		552 W 58TH AVE # J	Plate 1	
Construction trade areas and materials	C09	C9-32	B	Low		4953 EAGLE ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-18	B	Low		1200 W INTL AIRPORT RD	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-28	B	Low		1200 W INTL AIRPORT RD	Plate 1	ADEC LUST File # L55.307 and Site Name ALASKA DIESEL ELECTRIC INC. During the removal of a 1,000-gallon gasoline UST in November 1994, soil contamination was discovered below ADEC Level B cleanup levels. The tank was removed and the excavation pit was backfilled with the soil. ADEC issued a No Further Action letter in August of 1998.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-80	B	Low		540 W INTERNATIONAL AIRPORT RD	Plate 1	
Construction trade areas and materials	C09	C9-40	B	Low		5610 SILVERADO WAY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-68	B	Low		3546 LATOUCHE ST	Plate 1	
Heavy equipment rental/storage	C18	C18-19	B	Low		5610 SILVERADO WAY # A7	Plate 1	
Leather processing	C24	C24-2	B	Low		4417 OLD SEWARD HWY	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-9	B	Low		144 E POTTER DR	Plate 1	
Battery manufacturing/recycling	I06	I6-2	B	Low		4142 INGRA ST	Plate 1	
Hardware stores	C17	C17-28	B	Low		500 W POTTER DR	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-11	B	Low		500 W POTTER DR	Plate 1	ADEC Contaminated Sites File # CS CS100.65 and Site Name ALASKA HYDRAULICS INC.. A citizens complaint was made about used diesel oil being dumped on the adjacent property. The practice had been going on for some time according to the complainant. Contaminated soils were excavated in August of 1991 and no further action was granted in July of 1992. Site is CLOSED.
Hardware stores	C17	C17-20	B	Low		4700 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-41	B	Low		649 W 54TH AVE	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-16	B	Low		325 W POTTER DR	Plate 1	ADEC LUST File # L55.174 and Site Name ALASKA NEWS AGENCY. Petroleum contaminated soil and groundwater was encountered during the removal of a 2,000 gallon unleaded gasoline UST in August of 1993. A LUST cleanup grant was received by the responsible party in November of 1997. Soil and groundwater samples taken in May of 1998 indicated that the benzene plume had not migrated more than 60 feet from the UST excavation area. In August of 1998, a soil vapor extraction (SVE) system was tested on-site. ADEC file records show that monitoring wells were last sampled on October 21, 1999. No additional information is available at this time.

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Motor vehicle rental facilities - cars, trucks, ATV's, snow machines (with service department)	C30	C30-6	B	Low		712 W POTTER DR	Plate 1	
Printers, publishers, copiers	C37	C37-30	B	Low		401 W INTL AIRPORT RD # 11	Plate 1	
Heavy equipment rental/storage	C18	C18-20	B	Low		261 E 56TH AVE # A	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-7	B	Low		700 W 58TH AVE # J	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-81	B	Low		549 W INTL AIRPORT RD # B2	Plate 1	
Motor / motor vehicle repair shops	C31	C31-13	B	Low		600 E 48TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-14	B	Medium		600 E 48TH AVE	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-6	B	Low		5630 SILVERADO WAY # 8	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-8	B	Low		4651 Gambell Street	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-15	B	Low		4651 Gambell Street	Plate 1	<i>ADEC Contaminated Sites File # CS100.33 and Site Name Alaska Vehicle Accessories.</i> Surficial waste oil contaminated soils containing petroleum and chlorinated hydrocabons was documented in November of 1989. Sludge from the site's automotive workshop oil/water separator was spread in an adjacent alley. Approximately 100 cubic yards of contaminated soils excavated and transported offsite. File exists in CERCLA system but had no EPA ID# assigned. No further action was required as of March 1992. This site is CLOSED.
Motor / motor vehicle repair shops	C31	C31-27	B	Low		107 E 54TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-23	B	Medium		107 E 54TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-51	B	Low		3315 FAIRBANKS ST	Plate 1	
Vocational training facilities	X45	X45-1	B	Low		701 E TUDOR RD	Plate 1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-2	B	Low		4000 OLD SEWARD	Plate 1	
Hardware stores	C17	C17-21	B	Low		3002 SEWARD HWY	Plate 1	
Hardware stores	C17	C17-22	B	Low		999 E TUDOR RD	Plate 1	
Construction trade areas and materials	C09	C9-33	B	Low		5100 CORDOVA ST # 100	Plate 1	
Body shops (automotive)	C05	C5-10	B	Low		1313 LAONA CIR	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATV's, snow machines (with service department)	C30	C30-7	B	Low		550 W 54TH AVE	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-82	B	Low		549 W INTL AIRPORT RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-19	B	Low		552 W 58TH AVE # H	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-13	B	Medium		220 E INTL AIRPORT RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-52	B	Low		4000 OLD SEWARD HWY # 100	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-34	B	Medium		224 E 54TH AVE	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-22	B	Low		3300 FAIRBANKS ST	Plate 1	<i>ADEC LUST File # L73.17 and Site Name ANCHORAGE DATA CENTER.</i> Diesel contamination of soils was found when a 2,000-gallon diesel UST was removed in October of 1997. Approximately 35 cubic yards of impacted soil was excavated and transported off-site for thermal treatment. Clean, imported fill material was used to backfill the excavation pit. LUST corrective action was initiated in March of 1998. No additional information is available at this time on the status of groundwater contamination remediation activities at this site.
Heavy equipment rental/storage	C18	C18-15	B	Low		1415 E TUDOR RD	Plate 1	
Body shops (automotive)	C05	C5-11	B	Low		117 E 53RD AVE	Plate 1	
Sign manufacturing	I39	I39-3	B	Low		4600 CORDOVA ST	Plate 1	
Hardware stores	C17	C17-29	B	Low		380 E 54TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-42	B	Low		5401 CORDOVA ST # 203	Plate 1	
Metal fabrication	I25	I25-1	B	Low		5621 ARCTIC BLVD	Plate 1	
Hardware stores	C17	C17-30	B	Low		5735 B ST	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATV's, snow machines (with service department)	C30	C30-8	B	Low		1130 W INTL AIRPORT RD	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATV's, snow machines (with service department)	C30	C30-9	B	Low		601 W 58TH AVE	Plate 1	
Gasoline stations (with repair shop)	C16	C16-6	B	Low		1231 Redwood Court	Plate 1	
Printers, publishers, copiers	C37	C37-25	B	Low		1108 E NORTHERN LIGHTS BLVD	Plate 1	
Stone and clay processing/manufacturing	I43	I43-1	B	Low		661 E 48TH AVE	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-7	B	Low		5430 FAIRBANKS ST # 7	Plate 1	
Quarries (sand, gravel, rock, other?)	E10	E10-1	B	Low		314 E INTERNATIONAL AIRPORT RD	Plate 1	
Taxidermists	C41	C41-2	B	Low		520 W 58TH AVE # D	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Motor vehicle dealerships - cars, trucks, motor cycles, ATVs, snow machines, boats (with service department)	C27	C27-6	B	Low		909 E TUDOR RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-28	B	Low		600 W 58TH AVE # J	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-8	B	Low		520 W 58TH AVE # F	Plate 1	
Hardware stores	C17	C17-31	B	Low		621 W 54TH AVE	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-11	B	Low		4505 OLD SEWARD HWY	Plate 1	
Aircraft maintenance shops	C01	C1-1	B	Low		639 W INTL AIRPORT RD # 30	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-23	B	Low		852 W INTERNATIONAL	Plate 1	<i>ADEC LUST File # L55.168 and Site Name B &amp; H PROPERTIES.</i> Soil contamination was found during the closure of a 1,000-gallon gasoline UST in May of 1993. UST excavation soil met ADEC Level B cleanup standards. Approximately 10 cubic yards of contaminated soils were removed from the excavation and transported offsite for thermal treatment. No further action was granted in October of 1993.
Motor vehicle/general storage yards/facilities	X27	X27-3	B	Low		4640 GAMBELL ST	Plate 1	
Heavy equipment rental/storage	C18	C18-8	B	Low		4730 BUSINESS PARK BLVD # 44	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-69	B	Low		3730 RHONE CIR	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-9	B	Low		611 E INTL AIRPORT RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-62	B	Low		1515 E TUDOR RD # 3	Plate 1	
Hardware stores	C17	C17-32	B	Low		5801 ARCTIC BLVD	Plate 1	
Hardware stores	C17	C17-23	B	Low		4831 OLD SEWARD HWY # 115	Plate 1	
Heavy equipment rental/storage	C18	C18-9	B	Low		4111 INGRA ST	Plate 1	
Construction trade areas and materials	C09	C9-43	B	Low		401 W INTL AIRPORT RD # 12	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-20	B	Low		549 W INTL AIRPORT RD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-8	B	Low		3048 REDWOOD ST	Plate 1	
Sign manufacturing	I39	I39-4	B	Low		5861 ARCTIC BLVD # A	Plate 1	
Printers, publishers, copiers	C37	C37-26	B	Low		1108 E NORTHERN LIGHTS BLVD	Plate 1	
Lumber processing and preservation	N04	N4-3	B	Low		999 E TUDOR RD # 1	Plate 1	



Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Construction trade areas and materials	C09	C9-44	B	Low		852 W INTERNATIONAL RD # 101	Plate 1	
Motor / motor vehicle repair shops	C31	C31-14	B	Low		4625 OLD SEWARD HWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-70	B	Low		3315 VASSAR DR	Plate 1	
Heavy equipment rental/storage	C18	C18-10	B	Low		5100 CORDOVA ST	Plate 1	
Pharmacies	C35	C35-3	B	Low		600 E NORTHERN LIGHTS BLVD	Plate 1	
Machine and metal work shops	I23	I23-2	B	Low		700 E 46TH AVE	Plate 1	
Metal fabrication	I25	I25-2	B	Low		212 E INTL AIRPORT RD	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-17	B	Low		212 E INTL AIRPORT RD	Plate 1	<i>ADEC LUST File # L55.92 and Site Name CENTRAL PLUMBING &amp; HEATING INC.</i> Gasoline contamination was present in the soil and groundwater during an underground storage tank excavation in August of 1990. Late in 1991, benzene and 1,2-dichloroethane exceeded the MCL for drinking water in one groundwater monitoring well. A total of 139 tons of contaminated soils were removed from the site for thermal treatment. Groundwater monitoring continued through 1995 when ADEC issued a No Further Action letter.
Gasoline stations (with repair shop)	C16	C16-4	B	Low		2927 SEWARD HWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-10	B	Low		2927 SEWARD HWY	Plate 1	<i>ADEC LUST File # L10.01 and Site Name CHEVRON - #91518.</i> Gasoline contaminated soil and groundwater was found when underground storage tanks were removed and monitoring wells installed in September of 1987. Groundwater monitoring wells onsite contained benzene concentrations as high as 7.8 ppm in 1990. Soil vapor extraction (SVE) and air sparge (AS) systems were installed in 1989 to aid in the remediation of the groundwater. The results of tests in 1990 showed that the SVE system was not effective in reducing the contamination to the degree expected. However, benzene levels in monitoring wells have been decreasing with time. The SVE and AS systems were deactivated in 1993 and reactivated in 1999. Quarterly groundwater monitoring continued from 1991 through 1995 and was later reduced to semi-annual monitoring. Monitoring results from the October 2001 sampling period indicates the presence of a contaminant plume that extends off-site approximately 200 feet to the north-northwest. Concentrations of BTEX and gasoline range organics are highest in MW-6 and MW-9, located north of Wen

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
								median of the Seward Highway, respectively. These concentrations continue to be above the MCL for drinking water. The next groundwater sampling period is scheduled for May of 2002.
Gasoline stations (without repair shop)	C15	C15-17	B	Low		2811 New Seward Highway	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-39	B	Low		2811 New Seward Highway	Plate 1	<i>ADEC LUST File # L20.06 and Site Name GARRETT'S TESORO #1.</i> In July 1997, a geotechnical investigation identified soil and groundwater contamination associated with two 10,000-gallon gasoline USTs, one 10,000-gallon diesel UST, one 500-gallon used oil UST, one 250-gallon used oil UST, six fuel dispensers, and a vehicle lube pit and sand trap/oil-water separator. Dissolved petroleum hydrocarbons were detected in groundwater monitoring wells onsite. A total of 1,029 tons of petroleum impacted soils were removed during the excavation of the UST systems and transported offsite for thermal treatment. Currently, existing contamination at this site as well as its current UST system (26,000-gallon, three-compartment UST) is being monitored through five (5) groundwater monitoring wells. A soil vapor extraction (SVE) has also been installed to accelerate the remediation of this site. Samples/results taken August 17, 2001 exceeded ADEC Groundwater Cleanup Levels in one well located in the northwest corner of the property (Test Hole MW). Petroleum hydrocarbons were not detected in all other monitoring wells onsite and offsite for this sampling period. This site is monitored semi-annually. Therefore, the next sampling period schedule for this site is May of 2002.
Gasoline stations (with repair shop)	C16	C16-7	B	Low		815 W INTL AIRPORT RD	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-19	B	Low		815 W INTL AIRPORT RD	Plate 1	<i>ADEC LUST File # L10.20 and Site Name CHEVRON - 96585.</i> Soil and groundwater contamination was discovered in July of 1997 stemming from a leaking 1,000-gallon used oil UST. A total of 108.6 tons of hydrocarbon contaminated soil was excavated and exported off-site for treatment by thermal desorption. Three groundwater monitoring wells were installed on-site of determine the direction of groundwater flow and characterize the magnitude and extent of contamination in the unconfined aquifer. Samples taken from monitoring wells in May of 2001 indicated elevated levels of petroleum hydrocarbons including MTBE, all above Category A Cleanup Levels for groundwater. The extent of groundwater contamination has not been fully characterized at this site. In response to this, Chevron plans on installing additional monitoring wells. No information is available at this time with regards to the plan for new monitoring well installation as well as the results of samples taken in September of 2001.
Photography supplies/photo processing laboratories	C36	C36-6	B	Low		5401 CORDOVA ST # 204	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-10	B	Low		700 W 58TH AVE # J	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-10	B	Low		5401 OLD SEWARD HWY	Plate 1	
Motor / motor vehicle repair shops	C31	C31-29	B	Low		501 W INTL AIRPORT RD # 19	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-6	B	Low		4710 BUSINESS PARK BLVD # 24	Plate 1	
Hardware stores	C17	C17-33	B	Low		5401 CORDOVA ST # 302	Plate 1	
Heavy equipment rental/storage	C18	C18-11	B	Low		4710 BUSINESS PARK BLVD	Plate 1	
Windshield/glass repair shops	C44	C44-2	B	Low		4900 FAIRBANKS ST	Plate 1	
Construction trade areas and materials	C09	C9-29	B	Low		4950 FAIRBANKS ST	Plate 1	

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**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-24	B	Low		4950 FAIRBANKS ST	Plate 1	<i>ADEC LUST File # L55.181 and Site Name COMMERCIAL CONTRACTORS, INC.</i> Soil and groundwater contamination was discovered in November of 1993 associated with a leaking 1,000-gallon gasoline UST. Approximately 27 tons of contaminated soil were excavated and transported offsite for thermal treatment. A soil venting system was installed when the excavation pit was backfilled. In May of 1999, three groundwater monitoring wells were installed to determine the extent and magnitude of contamination. Groundwater at the site was encountered at 6.5 feet below ground surface. In each of the three monitoring wells, petroleum hydrocarbon constituents were detected at levels exceeding the ADEC groundwater cleanup levels. The release investigation recommended the installation of three additional monitoring wells to more adequately assess downgradient impacts of this contamination. Currently, the responsible party is seeking a grant to fund cleanup efforts at this site.
Recycling and waste reduction facilities	D57	D57-1	B	Low		750 E INTL AIRPORT RD	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-8	B	Low		200 W POTTER DR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-53	B	Low		550 E TUDOR RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-15	B	Low		5001 OLD SEWARD HWY	Plate 1	
Motor / motor vehicle repair shops	C31	C31-16	B	Low		4940 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-19	B	Medium		4940 OLD SEWARD HWY	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-18	B	Low		4940 OLD SEWARD HWY	Plate 1	<i>ADEC LUST File # L55.09 and Site Name CONTINENTAL MOTOR CO.</i> Soil and groundwater contamination was discovered in September of 1990 in association with a waste oil tank that had a fill pipe connection separated for unknown amount of time. Contaminated soils were excavated and removed offsite for thermal treatment. Groundwater monitoring wells were installed to determine the extent of contamination in the unconfined aquifer. Petroleum hydrocarbons were monitored through the wells until it was determined that concentrations were below MCL's. Corrective actions were complete and no further action was issued by ADEC in January of 1991.

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-10	B	Low		5660 B ST	Plate 1	
Printers, publishers, copiers	C37	C37-31	B	Low		5401 CORDOVA ST # 304	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-9	B	Low		600 W 58TH AVE # D	Plate 1	
Construction trade areas and materials	C09	C9-34	B	Low		212 E 51ST AVE	Plate 1	
Motor / motor vehicle repair shops	C31	C31-17	B	Low		4510 GAMBELL ST	Plate 1	
Hardware stores	C17	C17-34	B	Low		5333 FAIRBANKS ST	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-4	B	Low		4404 Old SEWARD HWY	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-14	B	Low		4404 Old SEWARD HWY	Plate 1	<i>ADEC LUST File # L55.33 and Site Name Nissan/Jeep/Eagle dealership (Culhane Tudor &amp; Old Seward). Soil and shallow groundwater contaminated with petroleum hydrocarbons were found during 1a November 1988 site assessment. Approx. 1,100 cubic yards contaminated soils removed. An additional 700 cubic yards were transported offsite to be used in a cold asphalt emulsion mix in May of 1992. A no further action letter was issued upon receipt of this documentation and site closure was complete.</i>
Motor/motor vehicle supplies stores	C28	C28-12	B	Low		854 E 36TH AVE	Plate 1	
Motor / motor vehicle repair shops	C31	C31-30	B	Low		501 W POTTER DR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-71	B	Low		3707 RHONE CIR	Plate 1	
Hardware stores	C17	C17-35	B	Low		600 W 58TH AVE # G	Plate 1	
Florists	C12	C12-8	B	Low		5401 FAIRBANKS ST # 3	Plate 1	
Motor / motor vehicle repair shops	C31	C31-18	B	Low		4651 GAMBELL ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-54	B	Low		2706 FAIRBANKS ST # 4	Plate 1	
Construction trade areas and materials	C09	C9-45	B	Low		5330 CORDOVA ST	Plate 1	
Florists	C12	C12-9	B	Low		118 E INTL AIRPORT RD	Plate 1	
Hardware stores	C17	C17-36	B	Low		700 W INTL AIRPORT RD BLDG B	Plate 1	
Hardware stores	C17	C17-24	B	Low		333 E TUDOR RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-11	B	Low		239 E INTERNATIONAL AIRPORT R	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-21	B	Low		239 E INTERNATIONAL AIRPORT R	Plate 1	<i>ADEC LUST File # L55.154 and Site Name Chevron - Earls RV Center.</i> Waste oil and mixed hydrocarbon contaminated soil was encountered during the removal of two 1,000-gallon used oil USTs. Concentrations of total petroleum hydrocarbons in soils were as high as 27,200 ppm. In addition, 1,2-dichlorobenzene was found in the soil at a concentration of 0.35 ppm as well as low levels of lead, arsenic, and chromium. An estimated 27 cubic yards of contaminated soils were transported offsite for disposal. The excavation pit was then backfilled with clean, imported fill material. Some low levels of contamination remains beneath the excavation pit, but are below the ADEC Level A Cleanup Standards. Site closure was accomplished in November of 1992 when ADEC issued a No Further Action letter.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-24	B	Low		401 E. INTERNATIONAL AIRPORT RD	Plate 1	<i>ADEC LUST File # L55.169 and Site Name ENSTAR - ANCHORAGE OPERATIONS CENTER.</i> Diesel contaminated soils and groundwater were found during an UST removal in May of 1993. Approximately 111 cubic yards of contaminated soils were excavated and disposed of at AK Soil Recycling for thermal treatment. Groundwater and soils were determined to be below ADEC cleanup levels and a No Further Action letter was issued in November of 1999.
Motor / motor vehicle repair shops	C31	C31-31	B	Low		5740 B ST	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-10	B	Low		520 W 58TH AVE	Plate 1	
Heavy equipment rental/storage	C18	C18-21	B	Low		5701 SILVERADO WAY # J	Plate 1	
Motor / motor vehicle repair shops	C31	C31-19	B	Low		3606 OLD SEWARD HWY	Plate 1	
Motor / motor vehicle repair shops	C31	C31-32	B	Low		600 W 58TH AVE # A	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-30	B	Medium		600 W 58TH AVE # A	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-14	B	Low		4908 OLD SEWARD HWY	Plate 1	<i>ADEC LUST File # L55.40 and Site Name EUROPEAN MOTORS.</i> Soil contamination was discovered during the removal of a 500-gallon used oil UST in September of 1992. Soil boring near tank found significant contamination (22,000 ppm TPH, 13,000 ppm DRO, 520 ppm GRO, 180 ppm BTEX, 3.4 ppm benzene) in saturated soil samples. In May of 1994, approximately 72.25 tons of impacted soils were excavated and transported offsite for thermal processing. A request for submittal of a Work Plan for addressing elevated levels of soil contamination in March of 2001. That submittal is currently overdue. No additional information is available at this time.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-55	B	Low		5121 ARCTIC BLVD # E	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-73	B	Low		3730 RHONE CIR # 102	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-11	B	Low		123 E INTL AIRPORT RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-21	B	Low		202 E INTL AIRPORT RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-33	B	Medium		202 E INTL AIRPORT RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-33	B	Low		209 E INTERNATIONAL AIRPORT RD	Plate 1	
Body shops (automotive)	C05	C5-12	B	Low		230 E 54TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-74	B	Low		3238 LATOUCHE ST # H10	Plate 1	
Heavy equipment rental/storage	C18	C18-22	B	Low		700 W INTL AIRPORT RD	Plate 1	
Pharmacies	C35	C35-4	B	Low		1000 E NORTHERN LIGHTS BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-32	B	Low		639 W INTL AIRPORT RD # 36	Plate 1	
Florists	C12	C12-5	B	Low		4007 OLD SEWARD HWY # 700	Plate 1	
Gasoline stations (with repair shop)	C16	C16-8	B	Low		724 W INTL AIRPORT RD	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-11	B	Low		724 W INTL AIRPORT RD	Plate 1	<i>ADEC LUST File # L20.06 and Site Name GARRETT'S TESORO.</i> Significant soil and groundwater contamination was discovered in 1988 and 1989 in association with the filler pipes of a 12,000-gallon gasoline UST. In July of 1990, four to five feet of floating product was documented on water table at this site. A vapor extraction system was installed to help aid in the remediation of the site in January of 1994. Contaminated groundwater was also pumped and treated beginning in February of 1994. Quarterly groundwater and VES reports were submitted to ADEC from 1994 through 1995. No additional information is available at this time.
Motor / motor vehicle repair shops	C31	C31-20	B	Low		4831 FAIRBANKS ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-10	B	Medium		4831 FAIRBANKS ST	Plate 1	
Construction trade areas and materials	C09	C9-46	B	Low		119 E 54TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-75	B	Low		3708 RHONE CIR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-76	B	Low		3730 RHONE CIR # 203	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-83	B	Low		501 W INTL AIRPORT RD # 1A	Plate 1	
Pharmacies	C35	C35-5	B	Low		3730 RHONE CIR # 105	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-77	B	Low		3606 RHONE CIR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-78	B	Low		3730 RHONE CIR # 100	Plate 1	



Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-19	B	Low		5801 SILVERADO WAY	Plate 1	ADEC LUST File # L55.61 and Site Name Hanaman Warehouse. Soil and groundwater was discovered during the removal of a 1000-gallon diesel, a 1000-gallon gasoline and a 2000-gallon gasoline UST in August of 1990. Approximately 95 tons of contaminated soil were excavated and transport offsite for disposal. The excavation was then backfilled with clean fill material. One groundwater monitoring well was installed and showed only low levels of petroleum hydrocarbon contamination (approximately 1% of the MCL for BTEX in September 1990). Existing soil contamination during this same sampling period showed petroleum hydrocarbons were 11.2 ppm and 12% above ADEC Cleanup Levels for soils. Site cleanup was complete in March of 1991 and the monitoring well was decommissioned in August.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-22	B	Low		5801 SILVERADO WAY	Plate 1	ADEC LUST File # L55.61 and Site Name Halliburton Geophysical Services Incorporated. Soil and groundwater contamination was discovered during the removal of a 500-gallon used oil UST that leaked adjacent to the warehouse on the property in April of 1993. A groundwater monitoring well was installed and sampled in July of 1993. Groundwater samples indicated low levels of petroleum hydrocarbons, however, they were inferred as being the result of biochemical decomposition of organics within the soils and were deemed naturally occurring. Based on the sampling that occurred during this sampling period, a No Further Action letter was issued by ADEC in August of 1993.
Jewelry manufacturing	I22	I22-4	B	Low		4300 OLD SEWARD HWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-84	B	Low		601 W 58TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-47	B	Low		401 W INTL AIRPORT RD # 31	Plate 1	
Construction trade areas and materials	C09	C9-35	B	Low		1011 E TUDOR RD # 100	Plate 1	
Hardware stores	C17	C17-37	B	Low		5501 A ST	Plate 1	
Printers, publishers, copiers	C37	C37-33	B	Low		360 E INTL AIRPORT RD # 6	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-7	B	Low		700 W 58TH AVE # D	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-12	B	Low		341 E 56TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-48	B	Low		550 W 54TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-49	B	Low		5326 A ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-22	B	Low		626 E INTL AIRPORT RD	Plate 1	
Gasoline stations (with repair shop)	C16	C16-9	B	Low		5210 OLD SEWARD HWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-21	B	Low		5210 OLD SEWARD HWY	Plate 1	<i>ADEC LUST File # L10.19 and Site Name HANSON'S CHEVRON #95414. In April and May of 1996, five (5) USTs were removed from this property. These included two 10,000-gallon gasoline, one 5,000-gallon gasoline, one 1,000-gallon diesel, and one 1,000-gallon used oil USTs. During the excavation of the tanks and the removal of the piping system and pump island dispensers, soil and groundwater contamination was discovered. Approximately, 1,500 tons of petroleum impacted soils were removed from the site and exported offsite for treatment. In August of 1998, three groundwater monitoring wells were installed to determine the magnitude and extent of contamination of the unconfined aquifer. Since then, three additional monitoring wells have been developed to assess off-property impacts. Recent groundwater monitoring results (September 25, 2001) indicate petroleum hydrocarbons have migrated off-site to the adjacent property to the west. Concentrations of diesel range organics, gasoline range organics, and benzene in MW-5 were 1.6 ppm, 0.245 ppm, and 0.023 ppm, respectively. Groundwater quality is being assessed on a semi-annual basis. Therefore, the next sampling period for this site is scheduled for May of 2002.</i>
Lumber processing and preservation	N04	N4-5	B	Low		424 W 54TH AVE	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-20	B	Low		4617 OLD SEWARD HWY	Plate 1	<i>ADEC LUST File # L55.255 and Site Name HAROLD'S RENT-A-TRUCK, INC.</i> Soil and groundwater contamination was discovered in November of 1996 during the removal of two (2) 4,500-gallon gasoline UST. Approximately 100 cubic yards of petroleum hydrocarbon contaminated soils were excavated and stockpiled onsite. One groundwater monitoring well was installed south of the excavation. Results of sampling indicated that benzene was present above ADEC cleanup levels for drinking water. However, a deeper drinking water well onsite was sampled and was found free of contamination. ADEC requested a quarterly groundwater monitoring and stockpile sampling report in May of 1999. No additional information is available at this time on the status of conditions at this site.
Motor vehicle/general storage yards/facilities	X27	X27-4	B	Low		4617 OLD SEWARD HWY	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-13	B	Low		4109 OLD SEWARD HWY	Plate 1	
Hardware stores	C17	C17-38	B	Low		220 E INTERNATIONAL AIRPORT RD	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-4	B	Low		4240 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-50	B	Low		436 W POTTER DR	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-32	B	Medium		436 W POTTER DR	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-14	B	Low		144 E 53rd Avenue	Plate 1	<i>ADEC Contaminated Sites File # CS100.31 and Site Name Hirsch Porsche/Audi Repair.</i> A waste oil spill of approximately 50-100 gallons was reported on April 24, 1989. Contaminated soils were excavated and transported offsite. After ADEC review of sampling techniques, analysis and results of the samples taken during excavation, the site does not appear to pose an immediate health hazard to the local population or a serious threat to the groundwater. ADEC reserves the right to request appropriate soil or groundwater assessment and remediation if additional information is found which indicates that the groundwater or soil is contaminated. No further action was required as of September of 1991. This site is CLOSED.
Laboratories (chemical, soils, and research)	C20	C20-11	B	Low		5630 SILVERADO WAY # A2	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Hardware stores	C17	C17-25	B	Low		515 E TUDOR RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-85	B	Low		500 W INTL AIRPORT RD # C	Plate 1	
Taxidermists	C41	C41-3	B	Low		822 W INTL AIRPORT RD	Plate 1	
Printers, publishers, copiers	C37	C37-34	B	Low		650 W INTERNATIONAL AIRPORT RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-23	B	Low		552 W 58TH AVE # A	Plate 1	
Orchards or nurseries	A10	A10-2	B	Low		5333 A ST	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-16	B	Low		201 E 56TH ST, SUITE 300	Plate 1	<i>ADEC LUST File # L55.64 and Site Name INTERIOR TELEPHONE COMPANY</i> . Petroleum hydrocarbon contaminated soil was identified during an October 1989 removal of a 2,000-gallon gasoline UST. Approximately 60 cubic yards of contaminated soils were excavated from the site and transported to the Anchorage Municipal Landfill for disposal. Test results showed no detectable petroleum hydrocarbons in the excavation pit. No Further Action was required for this site after February of 1991 when the site was closed.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-31	B	Medium		A ST & INTL AIRPORT RD	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-17	B	Low		512 W. International	Plate 1	<i>ADEC Contaminated Sites File # CS100.207 and Site Name Interstate Exploration</i> . Petroleum hydrocarbon contamination of soil and groundwater resulting from a floor drain and sump was discovered in 1999. A site characterization workplan was approved in January of 2002 by ADEC and corrective action has begun. This site is currently ACTIVE.
Jewelers	C19	C19-3	B	Low		600 E NORTHERN LIGHTS BLVD	Plate 1	
Body shops (automotive)	C05	C5-6	B	Low		4700 GAMBELL ST	Plate 1	
Car washes with engine or undercarriage cleaning	C08	C8-2	B	Low		4551 FAIRBANKS ST	Plate 1	
Body shops (automotive)	C05	C5-7	B	Low		4434 OLD SEWARD HWY	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATVs, snow machines, boats (without service department)	C26	C26-1	B	Low		4748 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-20	B	Medium		4748 OLD SEWARD HWY	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-17	B	Low		4748 OLD SEWARD HWY	Plate 1	<i>ADEC LUST File # L55.192 and Site Name JOHNSON NISSAN.</i> Gasoline contaminated soils and groundwater were encountered during the removal of two (2) 5,000-gallon (diesel and gasoline) USTs in August of 1994. In July 1996, approximately 550 tons of petroleum-contaminated soil was exported off-site for thermal treatment. A total of fifteen (15) groundwater monitoring wells were installed to determine the magnitude and extent of groundwater contamination at this site and adjacent properties. Results of groundwater sampling in November 1999 indicated significant levels of petroleum hydrocarbons in downgradient monitoring wells. However, not all monitoring wells were sampled at that time. It appears a contaminant plume emanating from this site has traveled downgradient to the south-southeast toward the property at 4800 Old Seward Highway. To further assess downgradient/off-site impacts of contamination from this site, the third party contractor for the responsible party will be installing and sampling two additional monitoring wells in the spring of 2002.
Hardware stores	C17	C17-39	B	Low		549 W INTL AIRPORT RD # A15	Plate 1	
Hardware stores	C17	C17-40	B	Low		126 W INTL AIRPORT RD	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-8	B	Low		219 E INTL AIRPORT RD	Plate 1	
Hardware stores	C17	C17-41	B	Low		510 W 53RD AVE	Plate 1	
Hardware stores	C17	C17-42	B	Low		360 E INTL AIRPORT RD	Plate 1	
Printers, publishers, copiers	C37	C37-27	B	Low		3597 VASSAR DR	Plate 1	
Motor / motor vehicle repair shops	C31	C31-34	B	Low		400 W 53RD AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-15	B	Medium		400 W 53RD AVE	Plate 1	
Recycling and waste reduction facilities	D57	D57-2	B	Low		111 E 56TH AVE	Plate 1	
Boat yards and marinas	X15	X11-7	B	Low		536 E 48TH AVE	Plate 1	
Motor / motor vehicle repair shops	C31	C31-35	B	Low		512 W INTL AIRPORT RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-28	B	Medium		512 W INTL AIRPORT RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-86	B	Low		1205 E INTERNATIONAL RD # 103	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-16	B	Medium		620 E. Int'l Airport Road	Plate 1	<i>ADEC Contaminated Sites File # CS100.17 and Site Name M &amp; M Enterprises -Int'l Airport Rd.</i> Soil and groundwater contamination was documented at this site in August of 1989 in association with an old metal, battery, and copper wire recycling business. In October 1989, polychlorinated biphenols (PCBs) above ADEC cleanup levels were detected in two soil samples at 15.3 and 93.4 ppm as well as lead at 140 to 211 ppm. Groundwater samples indicated 0.053 ppm lead during this same sampling period. Currently, a corrective action plan is being established to determine the best available technology for cleanup of this site. This site is ACTIVE.
Body shops (automotive)	C05	C5-8	B	Low		4973 EAGLE ST	Plate 1	
Hardware stores	C17	C17-26	B	Low		1700 OXFORD DR	Plate 1	
Machine and metal work shops	I23	I23-3	B	Low		5440 B ST	Plate 1	
Gasoline stations (without repair shop)	C15	C15-9	B	Low		5159 OLD SEWARD HWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-12	B	Low		5159 OLD SEWARD HWY	Plate 1	<i>ADEC LUST File # L30.04 and Site Name MAPCO - EXPRESS #5004.</i> Petroleum hydrocarbon contamination was detected in soils and groundwater during a September 1987 site assessment. In groundwater samples taken in July of 1990 petroleum hydrocarbons were detected above MCLs. Also detected during that sampling period was tetrachloroethylene (PCE) at a concentration of 0.022 ppm. Approximately 47 gallons of free product was removed from the surface of the water table in October 1991. Three (3) USTs were removed from the site in June of 1992, which included two 10,000-gallon gasoline and one 5,000-gallon USTs. Groundwater monitoring wells were installed onsite to determine the magnitude and extent of contamination. A combined vapor extraction and air injection system (VEAIS) was installed in October 1992. In November of 1992, 50 cubic yards of contaminated soils were removed from the road right-of-way that were discovered during the repair of a AWWU waterline break. Groundwater samples/results from May 2001 indicate elevated levels of gasoline range organics (GRO), diesel range o
Motor / motor vehicle repair shops	C31	C31-36	B	Low		110 E 54TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-27	B	Medium		110 E 54TH AVE	Plate 1	
Motor / motor vehicle repair shops	C31	C31-21	B	Low		4800 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-51	B	Low		720 W 58TH AVE # E	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-49	B	Low		625 E 34TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-72	B	Low		3500 LATOUCHE ST # 200	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-16	B	Medium		3200 SEWARD HWY	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-5	B	Low		3901 OLD SEWARD HWY	Plate 1	
Motor / motor vehicle repair shops	C31	C31-22	B	Low		711 E NORTHERN LIGHTS BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-35	B	Low		5445 OLD SEWARD HWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-87	B	Low		5313 ARCTIC BLVD # 101	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-56	B	Low		3315 FAIRBANKS ST	Plate 1	
Hardware stores	C17	C17-43	B	Low		510 E INTL AIRPORT RD	Plate 1	
Construction trade areas and materials	C09	C9-52	B	Low		300 E 54TH AVE	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-11	B	Low		550 W 54TH AVE	Plate 1	
Heavy equipment rental/storage	C18	C18-16	B	Low		1001 E BENSON BLVD	Plate 1	
Construction trade areas and materials	C09	C9-53	B	Low		5610 SILVERADO WAY # 6	Plate 1	
Heavy equipment rental/storage	C18	C18-12	B	Low		4700 BUSINESS PARK BLVD # 19	Plate 1	
Hardware stores	C17	C17-44	B	Low		5410 FAIRBANKS ST	Plate 1	
Construction trade areas and materials	C09	C9-36	B	Low		4970 FAIRBANKS ST	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-18	B	Low		4510 GAMBELL ST	Plate 1	<i>ADEC LUST File # L55.122 and Site Name NORTHERN HYDRAULICS LTD.</i> A site assessment conducted near a 500-gallon used oil UST in October of 1995 identified soil contamination that extended to groundwater. An UST Closure report dated February 1997, noted high levels of soil contamination (up to 12,800 ppm DRO, 16,800 ppm RRO, 144 ppm GRO, and 0.287 ppm benzene) and groundwater contamination (26.9 ppm DRO and 9.66 ppb benzene). Groundwater sampling results from two monitoring wells on-site indicated that contamination was still present (up to 0.0047 ppm benzene, 36.7 ppm DRO, and 28.7 ppm RRO). ADEC requested quarterly groundwater monitoring to continue in October of 1998. No additional information is currently available on the results of subsequent sampling periods.
Heavy equipment rental/storage	C18	C18-17	B	Low		1406 MATTERHORN WAY	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Dry cleaners	C10	C10-3	B	Low		601 E NORTHERN LIGHTS BLVD # J	Plate 1	
Injection wells (Class V) Industrial Process Water & Water Disposal Wells	D40	D40-2	B	Low		601 E NORTHERN LIGHTS BLVD # J	Plate 1	
Printers, publishers, copiers	C37	C37-36	B	Low		5701 SILVERADO WAY # K	Plate 1	
Hardware stores	C17	C17-45	B	Low		220 CENTER CT	Plate 1	
Gasoline stations (with repair shop)	C16	C16-5	B	Low		854 E 36TH AVE	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-9	B	Low		854 E 36TH AVE	Plate 1	ADEC LUST File # L20.02-2 and Site Name OLSONS GAS - #2. In December 1987, during installation of a light pole, employees of City Electric Co. noted a gasoline odor and lit torch causing an explosion. Soil and groundwater contamination was found. LUST cleanup began in July of 1995 following the failure of Tank Tighness Tests in March of that year. Two 12,000-gallon gasoline USTs and one 2,000-gallon diesel UST and associated dispenser islands were removed in July 1995. Three on-site and three off-site groundwater monitoring wells were installed in 1995 to aid in the determination of the direction of groundwater flow as well as the magnitude and extent of groundwater contamination emanating from the former UST system. Since 1995, five (5) additional groundwater monitoring wells have been installed off-site to aid in the delineation of the contaminant plume. Groundwater samples/results from May 2001 indicate that benzene, xylenes, and gasoline range organics (GRO) have traveled approximately 450 feet north-northwest of the former UST system (B2MW - 0.046 ppm benzene). However, historic
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-10	B	Low		4908 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-18	B	Medium		4908 OLD SEWARD HWY	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-7	B	Low		5159 OLD SEWARD HWY	Plate 1	
Lumber processing and preservation	N04	N4-4	B	Low		128 E 51ST AVE	Plate 1	
Machine and metal work shops	I23	I23-4	B	Low		360 E INTL AIRPORT RD # 12	Plate 1	
Motor / motor vehicle repair shops	C31	C31-37	B	Low		665 W POTTER DR	Plate 1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-1	B	Low		665 W POTTER DR	Plate 1	
Heavy equipment rental/storage	C18	C18-23	B	Low		720 W 58TH AVE # H	Plate 1	



Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Car washes with engine or undercarriage cleaning	C08	C8-3	B	Low		4551 FAIRBANKS ST	Plate 1	
Printers, publishers, copiers	C37	C37-37	B	Low		401 W INTL AIRPORT RD # 37	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-57	B	Low		3315 FAIRBANKS ST	Plate 1	
Florists	C12	C12-6	B	Low		4007 OLD SEWARD HWY	Plate 1	
Printers, publishers, copiers	C37	C37-38	B	Low		360 E INTERNATIONAL RD # 6	Plate 1	
Construction trade areas and materials	C09	C9-54	B	Low		610 W 54TH AVE	Plate 1	
Quarries (sand, gravel, rock, other?)	E10	E10-2	B	Low		300 E 54TH AVE	Plate 1	
Heavy equipment rental/storage	C18	C18-24	B	Low		5801 SILVERADO WAY	Plate 1	
Windshield/glass repair shops	C44	C44-3	B	Low		4141 INGRA ST # B	Plate 1	
Windshield/glass repair shops	C44	C44-4	B	Low		720 W 58TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-26	B	Medium		4820 FAIRBANKS ST	Plate 1	
Body shops (automotive)	C05	C5-13	B	Low		701 W POTTER DR	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-24	B	Low		5801 SILVERADO WAY	Plate 1	
Motor / motor vehicle repair shops	C31	C31-38	B	Low		601 W 58TH AVE # M	Plate 1	
Motor / motor vehicle repair shops	C31	C31-39	B	Low		210 E INTL AIRPORT RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-22	B	Medium		210 E INTL AIRPORT RD	Plate 1	
Printers, publishers, copiers	C37	C37-39	B	Low		5611 SILVERADO WAY # D	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-13	B	Low		4900 EAGLE ST	Plate 1	ADEC Contaminated Sites File # CS100.39 and Site Name Our Lady of Compassion Care Center. Removed tight underground storage tank with fill & vent loose & leaking with excavated soil stockpiled. Site is INACTIVE.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-58	B	Low		4900 EAGLE ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-59	B	Low		701 E TUDOR RD # 100	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-9	B	Low		401 W INTERNATIONAL RD # 33	Plate 1	
Body shops (automotive)	C05	C5-9	B	Low		631 E 48TH AVE	Plate 1	
Printers, publishers, copiers	C37	C37-23	B	Low		5020 FAIRBANKS ST	Plate 1	
Motor / motor vehicle repair shops	C31	C31-23	B	Low		4627 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-17	B	Medium		4627 OLD SEWARD HWY	Plate 1	
Hardware stores	C17	C17-46	B	Low		129 W 53RD AVE	Plate 1	
Construction trade areas and materials	C09	C9-55	B	Low		130 W INTL AIRPORT RD # K	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Heavy equipment rental/storage	C18	C18-13	B	Low		4240 OLD SEWARD HWY # 24	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (without service department)	C29	C29-1	B	Low		1313 LAONA CIRCLE	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-12	B	Low		512 W INTL AIRPORT RD	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-15	B	Low		1313 LAONA CIRCLE	Plate 1	<i>ADEC LUST File # L74.03 and Site Name USSBA - Den Tech Equipment Yard.</i> Petroleum hydrocarbon contaminated soil was found in November of 1989 during the decommissioning of a 15,000-gallon gasoline and a 500-gallon used oil UST. Approximately 160 tons of contaminated soils were excavated and transported to the Anchorage Municipal Landfill for disposal. ADEC found that no further cleanup was necessary and the site was closed in July of 1991.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-24	B	Medium		540 W POTTER	Plate 1	
Scrap, salvage, or junk yards	D59	D59-2	B	Low		1100 W INTL AIRPORT RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-21	B	Medium		720 W 58TH AVE	Plate 1	
Hardware stores	C17	C17-27	B	Low		5001 ARCTIC BLVD	Plate 1	
Paint sales /service	C32	C32-3	B	Low		601 E INTL AIRPORT RD	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-13	B	Low		210 CENTER COURT	Plate 1	<i>ADEC LUST File # L55.26 and Site Name Pizza Hut Administration Offices.</i> Soil contamination was found in November of 1990 in association with a 1,000-gallon unleaded UST system. A release investigation identified petroleum hydrocarbon contamination was well above the MCL for soil at this site. In May of 2001, ADEC sent a letter to the responsible party restating that corrective action was still required. This May 2001 letter specified that 2 cubic yards of contaminated soils remain stockpiled onsite and that there is a strong possibility that soil and groundwater contamination remains at this site. No additional information is available for this site at this time.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-79	B	Low		3708 RHONE CIR	Plate 1	
Florists	C12	C12-7	B	Low		4240 OLD SEWARD HWY # 21	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-8	B	Low		5400 OLD SEWARD HWY	Plate 1	
Dry cleaners	C10	C10-4	B	Low		601 W 58TH AVE # M	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-8	B	Low		36th & Old Seward Hwy.	Plate 1	<i>ADEC Contaminated Sites File # CS100.141 and Site Name Saunders Properties 36th &amp; Denali.</i> Heavy hydrocarbon soil staining from parked autos and trucks. Soils excavated and transported off site. Site is Closed.
Motor/motor vehicle supplies stores	C28	C28-14	B	Low		700 E NORTHERN LIGHTS BLVD	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATV's, snow machines (with service department)	C30	C30-13	B	Low		940 W INTL AIRPORT RD	Plate 1	
Appliance repair shops	C03	C3-1	B	Low		700 E NORTHERN LIGHTS BLVD	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-25	B	Low		700 E NORTHERN LIGHTS BLVD	Plate 1	ADEC LUST File # L55.244 and Site Name SEARS ROEBUCK & CO. Soil contamination was discovered in July of 1993 during the removal of a 500-gallon used oil UST, a 5,000-gallon heating oil UST, and an oil/water separator. Approximately 22.5 tons of contaminated soil was excavated and transported offsite for disposal. Groundwater was not impacted at this site, as per file records. Soil samples taken from the excavation pit in January 1995 indicated low levels of petroleum hydrocarbons below ADEC Level A cleanup standards. Corrective action is complete on this site and No Further Action was required in August of 1996.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-26	B	Low		700 E NORTHERN LIGHTS BLVD	Plate 1	<i>ADEC LUST File # L55.197 and Site Name SEARS ROEBUCK &amp; CO.</i> Additional soil contamination was discovered during closure activities associated with existing LUST site (CS ID Tag U8-25; LUST file #L55.244) in July of 1994. Contaminated soils were excavated and transported offsite for disposal. Site cleanup was completed in March of 1998.
Laboratories (chemical, soils, and research)	C20	C20-12	B	Low		5761 SILVERADO WAY # N	Plate 1	
Bus maintenance facilities	X16	X16-8	B	Low		3339 FAIRBANKS ST # A	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-13	B	Low		750 E INTL AIRPORT RD # B	Plate 1	
Paint sales /service	C32	C32-4	B	Low		401 W INTERNATIONAL AIRPORT RD	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Jewelers	C19	C19-4	B	Low		601 E NORTHERN LIGHTS BLVD # H	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-14	B	Low		5333 FAIRBANKS ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-15	B	Low		4640 GAMBELL ST	Plate 1	
Body shops (automotive)	C05	C5-14	B	Low		5445 OLD SEWARD HWY # 3	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-7	B	Medium		650 W 58TH AVE	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-5	B	Low		551 W 54TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-56	B	Low		540 W POTTER DR	Plate 1	
Heavy equipment rental/storage	C18	C18-25	B	Low		5761 SILVERADO WAY # M1	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-9	B	Low		624 W POTTER DR	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-25	B	Low		524 W INTL AIRPORT RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-40	B	Low		1218 W INTL AIRPORT RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-11	B	Medium		1218 W INTL AIRPORT RD	Plate 1	
Printers, publishers, copiers	C37	C37-40	B	Low		1225 E INTL AIRPORT RD # 107	Plate 1	
Heavy equipment rental/storage	C18	C18-26	B	Low		5631 SILVERADO WAY # G	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-60	B	Low		500 E TUDOR RD	Plate 1	
Organic chemicals manufacturing	I29	I29-1	B	Low		720 W 58TH AVE	Plate 1	
Jewelers	C19	C19-5	B	Low		600 E NORTHERN LIGHTS BL # 118	Plate 1	
Hardware stores	C17	C17-47	B	Low		411 E 54TH AVE	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-10	B	Low		355 W POTTER DR	Plate 1	
Motor / motor vehicle repair shops	C31	C31-41	B	Low		5631 SILVERADO WAY	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-11	B	Low		700 W 58TH AVE # D	Plate 1	
Hardware stores	C17	C17-48	B	Low		130 W INTL AIRPORT RD # C	Plate 1	
Paint sales /service	C32	C32-5	B	Low		401 W INTERNATIONAL AIRPORT RD	Plate 1	
Hardware stores	C17	C17-49	B	Low		5861 ARCTIC BLVD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-9	B	Low		1000 E. NORTHERN LIGHTS BL.	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-30	B	Low		1000 E. NORTHERN LIGHTS BL.	Plate 1	ADEC LUST File # L55.344 and Site Name Former Discount Tire; TOP AUTO, INC. During the removal of a 500-gallon used oil UST. Soil samples taken 25 September, 1990, indicated that low levels of petroleum hydrocarbons were present. However, concentrations were below MCLs for the contaminants of concern. LUST site cleanup was complete at this time, however, ADEC did not send a letter specifying "No Further Action" on the site until December of 1999.
Heavy equipment rental/storage	C18	C18-27	B	Low		5430 FAIRBANKS ST # 11	Plate 1	
Construction trade areas and materials	C09	C9-57	B	Low		220 CENTER CT	Plate 1	
Motor / motor vehicle repair shops	C31	C31-42	B	Low		501 W INTERNATIONAL RD # 19	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-14	B	Low		420 W INTL AIRPORT RD	Plate 1	
Heavy equipment rental/storage	C18	C18-28	B	Low		184 E 53RD AVE	Plate 1	
Heavy equipment rental/storage	C18	C18-14	B	Low		4751 OLD SEWARD HWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-23	B	Low		4751 OLD SEWARD HWY	Plate 1	ADEC LUST File # L55.313 and Site Name U-HAUL CO. Soil and groundwater contamination was discovered during the removal of a 4,000-gallon gasoline and a 4,000-gallon diesel UST in August of 1998. In March of 2001, a revised corrective action workplan was received by ADEC. In August 2001, five (5) groundwater monitoring wells were installed and soil and groundwater was sampled to determine the extent of contamination at this site. Three (3) 55-gallon drums of petroleum contaminated soils were generated during the construction of the monitoring wells. The impacted soils were exported offsite for thermal treatment. No information is available at this time on the magnitude and extent of groundwater contamination at this site.
Construction trade areas and materials	C09	C9-30	B	Low		750 E. INTERNATIONAL AIRPORT RD	Plate 1	
Construction trade areas and materials	C09	C9-58	B	Low		5300 A ST	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-29	B	Low		949 E 36th Ave	Plate 1	ADEC LUST File # L55.314 and Site Name University Plaza Building. A 300-gallon heating oil tank was removed from this site in August of 1998. All analytical samples/results showed non-detect levels of petroleum hydrocarbons. A No Further Action letter was issued by ADEC in December of 1998.

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Heavy equipment rental/storage	C18	C18-29	B	Low		200 CENTER CT	Plate 1	
Motor / motor vehicle repair shops	C31	C31-43	B	Low		5713 ARCTIC BLVD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-9	B	Medium		5713 ARCTIC BLVD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-29	B	Medium		5713 ARCTIC BLVD	Plate 1	
Printers, publishers, copiers	C37	C37-24	B	Low		3333 FAIRBANKS ST	Plate 1	
Hardware stores	C17	C17-50	B	Low		5760 SILVERADO WAY	Plate 1	
Gasoline stations (without repair shop)	C15	C15-10	B	Low		717 E NORTHERN LIGHTS BLVD	Plate 1	
Gasoline stations (without repair shop)	C15	C15-11	B	Low		801 E TUDOR RD	Plate 1	
Construction trade areas and materials	C09	C9-59	B	Low		549 W INTL AIRPORT RD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-11	B	Low		5326 A ST	Plate 1	
Construction trade areas and materials	C09	C9-31	B	Low		511 W 54TH ST	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-27	B	Low		511 W 54TH ST	Plate 1	<i>ADEC LUST File # L55.240 and Site Name WOODARD CONSTRUCTION CO.</i> During the removal of a 500-gallon gasoline UST in April of 1992, low levels of petroleum hydrocarbon contamination were found. All soil samples/results were found to be below ADEC Cleanup Levels. ADEC required No Further Action on this site in April of 1996.
Construction trade areas and materials	C09	C9-60	B	Low		130 W INTERNATIONAL AIRPORT RD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-12	B	Low		224 E 54TH AVE	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-26	B	Low		239 E INTL AIRPORT RD	Plate 1	
Hardware stores	C17	C17-51	B	Low		330 E INTL AIRPORT RD	Plate 1	
Jewelers	C19	C19-6	B	Low		600 E NORTHERN LIGHTS BL # 130	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-61	B	Low		2702 GAMBELL ST # 206	Plate 1	
Printers, publishers, copiers	C37	C37-28	B	Low		636 W 53RD AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-45	B	Low		5001 ARCTIC BLVD # 202	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-46	B	Low		3315 FAIRBANKS ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-47	B	Low		4450 CORDOVA ST # 210	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-48	B	Low		4450 CORDOVA ST # 130	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-63	B	Low		3708 RHONE CIR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-64	B	Low		3606 RHONE CIR # 2	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-65	B	Low		3730 RHONE CIR # 103	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-66	B	Low		3606 RHONE CIR	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-67	B	Low		3730 RHONE CIR # 202	Plate 1	
Residential area	R01	R1-2	B	Low		Zone B Protection Area	3	217 acres
Municipal or city parks (with green areas)	X04	X4-7	B	Low		Foxtree park	3	
Highways and roads, paved (cement or asphalt)	X20	X20-81 - X20-161	B	Low		All roads in Zone B Protection Area	4	
Residential septic systems (serves one single-family home)	R02	R2-7 - R2-24	B	Low		All septic systems in Zone B Protection Area	5	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-116 - D1-237	B	Low		All sewerlines in Zone B Protection Area	5	
Construction trade areas and materials	C09	C9-93	C	Low		575 E DOWLING RD	Plate 1	
Construction trade areas and materials	C09	C9-62	C	Low		5700 LAKE OTIS PKWY	Plate 1	
Welding shops	C43	C43-3	C	Low		106 E DOWLING RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-27	C	Low		5838 ROWAN ST	Plate 1	
Florists	C12	C12-10	C	Low		4502 CASSIN DR	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATVs, snow machines, boats (with service department)	C27	C27-12	C	Low		6239 MACKAY ST	Plate 1	
Motor / motor vehicle repair shops	C31	C31-49	C	Low		6239 MACKAY ST	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-36	C	Low		6239 MACKAY ST	Plate 1	ADEC LUST File # L55.84 and Site Name Continental Motors 6239. A 500-gallon used oil UST was removed from this site in August of 1990. Sampling in May of 1992 indicated low levels of petroleum hydrocarbon and heavy metal contamination in the soil surrounding the excavation. No further action was required by ADEC in August of 1994.
Motor/motor vehicle supplies stores	C28	C28-28	C	Low		1220 E 68TH AVE # 103	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-13	C	Low		6330 ARCTIC BLVD	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-32	C	Low		6446 GREENWOOD	Plate 1	ADEC LUST File # L55.50 and Site Name AAA PLUMBING AND HEATING. The removal of a 1,000-gallon gasoline and a 1,000-gallon diesel UST in September of 1992 revealed soil contaminated with petroleum hydrocarbons. Approximately 85 cubic yards of contaminated soil were removed and stockpiled on-site. A corrective action plan was approved by ADEC in November of 2000.
Motor vehicle/general storage yards/facilities	X27	X27-16	C	Low		980 E 54TH AVE	Plate 1	
Metal finishing	I26	I26-1	C	Low		5700 OLD SEWARD HWY # B	Plate 1	
Motor / motor vehicle repair shops	C31	C31-50	C	Low		5610 OLD SEWARD HWY # E	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-40	C	Medium		5610 OLD SEWARD HWY # E	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-131	C	Low		6917 OLD SEWARD HWY	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-15	C	Low		5550 OLD SEWARD HWY	Plate 1	
Scrap, salvage, or junk yards	D59	D59-3	C	Low		5625 Old Seward Highway	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-22	C	Low		5625 Old Seward Highway	Plate 1	ADEC Contaminated Sites File # CS100.125.1 and Site Name ABC Towing/Adrian Gray Property. Wrecking yard using pick ax to puncture gasoline tanks resulting in high levels of GRO and BTEX. Site is Active.
Scrap, salvage, or junk yards	D59	D59-4	C	Low		56th & Old Seward Highway	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-21	C	Low		56th & Old Seward Highway	Plate 1	ADEC Contaminated Sites File # CS100.125.2 and Site Name ABC Towing/Floyd Carley Property. Wrecking yard using pick ax to puncture gasoline tanks resulting in high levels of GRO and BTEX. Site is Active.
Body shops (automotive)	C05	C5-17	C	Low		1111 E DOWLING RD # 101	Plate 1	
Body shops (automotive)	C05	C5-15	C	Low		1840 E DOWLING RD	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-15	C	Low		1800 STRATFORD CT	Plate 1	
Printers, publishers, copiers	C37	C37-44	C	Low		591 W 67TH AVE	Plate 1	
Scrap, salvage, or junk yards	D59	D59-5	C	Low		849 E 56TH AVE	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-11	C	Low		1733 E Dowling Rd	Plate 1	



Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-49	C	Medium		1733 E Dowling Rd	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-42	C	Low		1733 E Dowling Rd	Plate 1	<i>ADEC LUST File # L55.257 and Site Name Acura of Anchorage</i> . During the removal of a 1,000-gallon used oil UST in March of 1997, soil contamination was discovered. Low levels of petroleum hydrocarbon and heavy metals were detected in soil samples from the excavation. Approximately 30 tons of contaminated soils were exported offsite for treatment. The existing petroleum hydrocarbon contamination was below the most stringent ADEC Category A cleanup guideline for these suite of contaminants. Heavy metal, including lead, arsenic, cadmium, and chromium where characterized as being within normal background concentrations for the Anchorage area. No further action was required by ADEC as of March of 1998.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-104	C	Low		3650 LAKE OTIS PKWY # 140	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-105	C	Low		3600 LAKE OTIS PKWY	Plate 1	
Quarries (sand, gravel, rock, other?)	E10	E10-3	C	Low		240 W 68TH AVE	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-26	C	Low		525 W 67TH AVE	Plate 1	<i>ADEC LUST File # L55.72 and Site Name AIR LAND TRANSPORT, INC.</i> . The closure of an underground storage tank in May of 1990 revealed contamination from a 1,000-gallon diesel and a 1,000-gallon leaded gasoline dispensing systems. LUST cleanup was initiated that same month. ADEC requested further groundwater sampling in July of 1999. No additional information is available at this time.
Motor vehicle/general storage yards/facilities	X27	X27-9	C	Low		525 W 67TH AVE	Plate 1	
Organic chemicals manufacturing	I29	I29-2	C	Low		6415 ARCTIC BLVD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-51	C	Low		1300 E 68TH AVE # 104	Plate 1	
Motor / motor vehicle repair shops	C31	C31-44	C	Low		6325 PETERSBURG ST	Plate 1	
Battery manufacturing/recycling	I06	I6-3	C	Low		166 E POTTER DR # 2	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-106	C	Low		3800 LAKE OTIS PKWY	Plate 1	
Hardware stores	C17	C17-60	C	Low		550 W 64TH AVE # 200	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-89	C	Low		1600 E TUDOR RD # 201	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-29	C	Low		240 E POTTER DR	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-107	C	Low		3600 LAKE OTIS PKWY # 101	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-30	C	Low		6181 ROSEWOOD ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-108	C	Low		4107 LAUREL ST	Plate 1	
Paint sales /service	C32	C32-6	C	Low		1658 E 59TH AVE # 1	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-109	C	Low		4355 LAUREL ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-110	C	Low		3900 LAKE OTIS PKWY	Plate 1	
Machine and metal work shops	I23	I23-5	C	Low		6511 BRAYTON DR	Plate 1	
Motor / motor vehicle repair shops	C31	C31-52	C	Low		1147 E DOWLING RD	Plate 1	
Pharmacies	C35	C35-6	C	Low		4201 LAKE OTIS PKWY	Plate 1	
Hardware stores	C17	C17-61	C	Low		5811 OLD SEWARD HWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-132	C	Low		6000 A ST	Plate 1	
Iron and steel manufacturing	I21	I21-1	C	Low		1200 W DOWLING RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-43	C	Medium		6407 GREENWOOD ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-31	C	Low		5901 ARCTIC BLVD	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-17	C	Low		6930 OLD SEWARD HWY	Plate 1	
Stone and clay processing/manufacturing	I43	I43-2	C	Low		6131 A ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-113	C	Low		4115 LAKE OTIS PKWY	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-32	C	Low		600 E 57TH PL # B	Plate 1	
Hardware stores	C17	C17-52	C	Low		2000 E DOWLING RD # 15	Plate 1	
Lumber processing and preservation	N04	N4-7	C	Low		166 E POTTER DR	Plate 1	
Car washes with engine or undercarriage cleaning	C08	C8-4	C	Low		1136 E 66TH AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-90	C	Low		5520 LAKE OTIS PKWY # 101	Plate 1	
Iron and steel manufacturing	I21	I21-2	C	Low		6218 NIELSON WAY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-42	C	Medium		6626 GREENWOOD ST	Plate 1	
Motor / motor vehicle repair shops	C31	C31-48	C	Low		1136 E 66TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-37	C	Medium		1136 E 66TH AVE	Plate 1	
Heavy equipment rental/storage	C18	C18-34	C	Low		6717 ROSEWOOD ST	Plate 1	
Printers, publishers, copiers	C37	C37-45	C	Low		907 E DOWLING RD # 15	Plate 1	
Heavy equipment rental/storage	C18	C18-35	C	Low		130 A STREET LOOP	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-39	C	Low		2240 E DOWLING RD	Plate 1	<i>ADEC LUST File # L55.32 and Site Name Smyth Movers Warehouse.</i> In July of 1992, petroleum contamination was reported to ADEC during the removal of two leaking 1,000-gallon gasoline USTs and one 2,000-gallon diesel UST. Overfills may have resulted in the majority of contamination found at this site. Approximately 28 cubic yards of contaminated soils were removed and stockpiled on-site and later transported offsite for treatment. Excavation sample results showed that the soils met ADEC Cleanup Level A requirements. Groundwater did not show indication of contamination during the site investigations. ADEC issued a No Further Action letter in December of 1996.
Motor vehicle/general storage yards/facilities	X27	X27-10	C	Low		2240 E DOWLING RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-91	C	Low		1600 E TUDOR RD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-53	C	Low		6150 A ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-46	C	Medium		6150 A ST	Plate 1	
Recycling and waste reduction facilities	D57	D57-3	C	Low		6161 ROSEWOOD ST	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-31	C	Low		6301 ROSEWOOD	Plate 1	<i>ADEC LUST File # L55.153 and Site Name ANCHORAGE REFUSE INC..</i> A July 1992 removal of a 9,000-gallon diesel and 2 - 2,000-gallon unleaded gasoline UST and dispensers found groundwater and soils contaminated with petroleum hydrocarbons. The unconfined aquifer at this site was identified at 6 to 7 feet below land surface. Contaminated soils remain below groundwater level. Contaminated soils were removed from the excavation and biocell treatment was employed to remediate soils. ADEC requested additional information regarding the site and a quarterly groundwater monitoring report in June of 2000. No additional information is available at this time.

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-34	C	Low		6250 ROSEWOOD DR	Plate 1	<i>ADEC LUST File # L55.73 and Site Name Anderson Trucking.</i> Soil and groundwater contamination was encountered during the removal of a 2,000-gallon diesel and a 2,000-gallon gasoline UST in May of 1990. In October of 1990, ADEC requested a long term groundwater sampling program and remediation plan. Four (4) groundwater monitoring wells were installed to determine the extent of contamination. Contaminated soils were removed and stockpiled on-site and later transported offsite for disposal. Groundwater and soil samples taken in 1992 showed a marked decrease in petroleum hydrocarbon concentrations and were below ADEC required cleanup levels. A No Further Action letter was issued by ADEC in January of 1993.
Motor vehicle/general storage yards/facilities	X27	X27-7	C	Low		6250 ROSEWOOD DR	Plate 1	
Appliance repair shops	C03	C3-2	C	Low		230 E POTTER DR # 9	Plate 1	
Motor / motor vehicle repair shops	C31	C31-54	C	Low		6031 ARCTIC BLVD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-41	C	Medium		6031 ARCTIC BLVD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-33	C	Low		1301 E DOWLING RD # 105	Plate 1	
Printers, publishers, copiers	C37	C37-41	C	Low		2217 E TUDOR RD # 17	Plate 1	
Body shops (automotive)	C05	C5-18	C	Low		6727 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-52	C	Medium		6727 OLD SEWARD HWY	Plate 1	
Gasoline stations (without repair shop)	C15	C15-16	C	Low		6010 OLD SEWARD HWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-25	C	Low		6010 OLD SEWARD HWY	Plate 1	<i>ADEC LUST File # L30.21 and Site Name WILLIAMS EXPRESS STORE #5021.</i> Site investigations conducted in 1990 showed high levels of benzene, toluene, ethylbenzene, & xylenes in groundwater emanating from leaking diesel and gasoline USTs. A groundwater monitoring wells were installed to determine the extent and magnitude of contamination. An in situ vapor extraction system was in operation in late 1990 and early 1991 to aid in the remediation of the site. Monitoring of petroleum hydrocarbons in groundwater continues at this site.
Motor / motor vehicle repair shops	C31	C31-55	C	Low		6705 ROSEWOOD ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-38	C	Medium		6705 ROSEWOOD ST	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-14	C	Low		6000 ARCTIC BLVD	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Heavy equipment rental/storage	C18	C18-36	C	Low		6871 OLD SEWARD HWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-30	C	Low		6871 OLD SEWARD HWY	Plate 1	ADEC LUST File # L55.149 and Site Name BAILEY'S RENT ALL INC. Two 1000-gallon diesel and one 1000-gallon gasoline USTs were removed from this site in November of 1991 to reveal soil and groundwater contaminated with petroleum constituents. Contaminated soils were excavated and stockpiled onsite. In April of 2001, the responsible party hired a consultant to conduct a release investigation for the site which includes excavation sidewall sampling, stockpile sampling, and the installation of groundwater monitoring wells. No additional information is available at this time.
Motor vehicle dealerships - cars, trucks, motor cycles, ATVs, snow machines, boats (with service department)	C27	C27-16	C	Low		5740 OLD SEWARD HWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-27	C	Low		299 W 64TH AVE	Plate 1	ADEC LUST File # L55.08 and Site Name BEKINS MOVING & STORAGE. Gasoline contaminated soil and groundwater was discovered in July 1990 associated with a leaking 2,000-gallon UST. A Corrective Action Plan was approved by ADEC in August of 1998. Letters requesting workplans for identification of vertical/lateral extent of surface/subsurface contamination were sent to the responsible party in August and October of 2000 and again in March of 2001.
Motor vehicle/general storage yards/facilities	X27	X27-18	C	Low		299 W 64TH AVE	Plate 1	
Pharmacies	C35	C35-7	C	Low		4045 LAKE OTIS PKWY # 204	Plate 1	
Construction trade areas and materials	C09	C9-71	C	Low		1300 E 68TH AVE # 112	Plate 1	
Heavy equipment rental/storage	C18	C18-37	C	Low		6415 ARCTIC BLVD	Plate 1	
Construction trade areas and materials	C09	C9-72	C	Low		5941 ARCTIC BLVD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-56	C	Low		6209 MIKE ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-36	C	Medium		5941 ARCTIC BLVD	Plate 1	
Heavy equipment rental/storage	C18	C18-38	C	Low		6927 OLD SEWARD HWY # 105	Plate 1	
Leather processing	C24	C24-3	C	Low		5911 OLD SEWARD HWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-114	C	Low		4000 LAUREL ST	Plate 1	
Motor / motor vehicle repair shops	C31	C31-45	C	Low		1950 E DOWLING RD # C	Plate 1	
Hardware stores	C17	C17-62	C	Low		151 A STREET LOOP # 2	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Petroleum product bulk station/terminals	X11	X11-2	C	Low		1727 BARTLETT DR	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-44	C	Medium		5901 ARCTIC BLVD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-15	C	Low		6350 NIELSON WAY	Plate 1	
Hardware stores	C17	C17-63	C	Low		600 E 57TH PL	Plate 1	
Motor / motor vehicle repair shops	C31	C31-57	C	Low		6820 ROSEWOOD ST	Plate 1	
Printers, publishers, copiers	C37	C37-46	C	Low		6361 NIELSON WAY # 210	Plate 1	
Orchards or nurseries	A10	A10-3	C	Low		6151 B ST	Plate 1	
Motor / motor vehicle repair shops	C31	C31-58	C	Low		5941 ARCTIC BLVD # AQ	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-115	C	Low		4045 LAKE OTIS PKWY # 210	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-34	C	Low		230 E POTTER DR # 2	Plate 1	
Motor / motor vehicle repair shops	C31	C31-59	C	Low		5941 ARCTIC BLVD # J	Plate 1	
Laundromats without dry cleaning	C22	C22-2	C	Low		2494 E TUDOR RD	Plate 1	
Construction trade areas and materials	C09	C9-73	C	Low		1217 E 66TH AVE	Plate 1	
Heavy equipment rental/storage	C18	C18-39	C	Low		1217 E 66TH AVE	Plate 1	
Heavy equipment rental/storage	C18	C18-40	C	Low		5400 HOMER DR	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATVs, snow machines, boats (with service department)	C27	C27-13	C	Low		6255 MACKAY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-57	C	Medium		6255 MACKAY	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-38	C	Low		6255 MACKAY	Plate 1	ADEC LUST File # L55.85 and Site Name Continental Motors 6255. Soil and groundwater contamination was discovered during the removal of a 500-gallon used oil UST in August of 1990. Approximately 6 cubic yards of contaminated soils were excavated from the site and transported to another contaminated soils stockpile at 4940 Old Seward Highway. The entire stockpile was eventually transported for thermal treatment in July of 1993. The excavation was later filled with clean sand and gravel. No petroleum hydrocarbons were detected in groundwater from samples taken in September of 1992. ADEC issued a No Further Action letter indicating that site cleanup was complete in August of 1994.
Motor / motor vehicle repair shops	C31	C31-60	C	Low		130 W DOWLING RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-39	C	Medium		130 W DOWLING RD	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-12	C	Low		2000 E DOWLING RD # 6	Plate 1	
Construction trade areas and materials	C09	C9-63	C	Low		2000 E DOWLING RD # 4	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Lumber processing and preservation	N04	N4-6	C	Low		2518 E TUDOR RD	Plate 1	
Petroleum product bulk station/terminals	X11	X11-3	C	Low		2080 DIMOND DR	Plate 1	
Heavy equipment rental/storage	C18	C18-31	C	Low		6129 PETERSBURG ST	Plate 1	
Hardware stores	C17	C17-64	C	Low		6239 B ST # 102	Plate 1	
Hardware stores	C17	C17-65	C	Low		6706 GREENWOOD ST	Plate 1	
Construction trade areas and materials	C09	C9-74	C	Low		538 LYNWOOD DR	Plate 1	
Car washes with engine or undercarriage cleaning	C08	C8-5	C	Low		538 LYNWOOD DR	Plate 1	
Motor / motor vehicle repair shops	C31	C31-61	C	Low		6820 ROSEWOOD ST # 13	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-55	C	Medium		6820 ROSEWOOD ST # 13	Plate 1	
Construction trade areas and materials	C09	C9-75	C	Low		740 BONANZA AVE	Plate 1	
Construction trade areas and materials	C09	C9-68	C	Low		1621 STANTON AVE	Plate 1	
Construction trade areas and materials	C09	C9-64	C	Low		6112 PETERSBURG ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-92	C	Low		2545 E TUDOR RD	Plate 1	
Agricultural chemical sales/storage	C02	C2-2	C	Low		5340 TUDORTOP CIR	Plate 1	
Hardware stores	C17	C17-53	C	Low		5406 LAKE OTIS PKWY	Plate 1	
Construction trade areas and materials	C09	C9-76	C	Low		6150 A ST	Plate 1	
Body shops (automotive)	C05	C5-19	C	Low		6616 ROSEWOOD ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-56	C	Medium		6616 ROSEWOOD ST	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-33	C	Low		6616 ROSEWOOD ST	Plate 1	ADEC LUST File # L55.45 and Site Name <i>Distinctive Auto Body</i> . Contaminated soil and groundwater was discovered during an October 1989 removal of a 500-gallon used oil UST. Approximately 65 cubic yards of soil were excavated and transported offsite for treatment and disposal. Four (4) groundwater monitoring wells were installed to assess impacts to the unconfined aquifer. On August 18, 1992, groundwater was sampled from one monitoring well and a domestic drinking water well downgradient of the site. Total petroleum hydrocarbon in the wells were 0.22 mg/L and no-detect, respectively. Based on the concentrations of existing contaminants within the soils and groundwater, ADEC issued a no further actions letter in September of 1992. All four monitoring wells were decommissioned in October of 1992.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-133	C	Low		5901 ARCTIC BLVD # H	Plate 1	
Motor / motor vehicle repair shops	C31	C31-62	C	Low		6220 MACKAY ST	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-35	C	Medium		1801 E Dowling Road	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-18	C	Low		1801 E Dowling Road	Plate 1	<i>ADEC Contaminated Sites File # CS100.230 and Site Name Dowling Investments.</i> This is a combination LUST and CS site. The CS portion comprises contaminated soils beneath a floor drain system in the former Honda dealership shop at this property. Soils have up to 250 ppm TCE and diesel contaminated soils exceeding cleanup standards. Based on the TCE levels and additional TCLP testing, the soils would be hazardous waste if excavated. Groundwater is probably contaminated. Site is Active.
Lawn and garden supplies/services	C23	C23-4	C	Low		2000 E DOWLING RD	Plate 1	
Machine and metal work shops	I23	I23-6	C	Low		6706 GREENWOOD ST # 1	Plate 1	
Appliance repair shops	C03	C3-3	C	Low		5610 OLD SEWARD HWY # G	Plate 1	
Gasoline stations (without repair shop)	C15	C15-14	C	Low		6321 A ST	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-41	C	Low		6321 A ST	Plate 1	<i>ADEC LUST File # L55.182, L55.322 and Site Name COASTAL TIRE.</i> A 500-gallon used oil UST was removed and revealed soil contamination in September of 1998.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-41	C	Low		6321 A ST	Plate 1	<i>ADEC LUST File # L55.182 and Site Name COASTAL TIRE.</i> Gasoline contaminated soils were discovered during the removal of a 1,000-gallon regulated UST in April of 1994. Site cleanup was completed in April of 2000.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-116	C	Low		3650 LAKE OTIS PKWY # 102	Plate 1	
Motor / motor vehicle repair shops	C31	C31-63	C	Low		5740 B ST	Plate 1	
Heavy equipment rental/storage	C18	C18-30	C	Low		6727 Old Seward Hwy.	Plate 1	CS100.113 *diesel fuel, residual range petroleum hydrocarbons
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-23	C	Low		6727 Old Seward Hwy.	Plate 1	<i>ADEC Contaminated Sites File # CS100.113 and Site Name Exploration Supply &amp; Equipment, Inc.</i> Surface and near surface soils were contaminated with diesel and residual range petroleum hydrocarbons. Groundwater data from 1998 identifies GRO, benzene, and 1-2, DCE above cleanup levels. The source of the contamination is believed to be leakage of fuels and/or oils from heavy equipment parked on the site. Site is Active.
Heavy equipment rental/storage	C18	C18-41	C	Low		6627 ROSEWOOD ST	Plate 1	
Car washes with engine or undercarriage cleaning	C08	C8-6	C	Low		6521 GREENWOOD ST	Plate 1	



Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (without service department)	C26	C26-2	C	Low		900 E DOWLING RD	Plate 1	
Paint sales /service	C32	C32-9	C	Low		151 A STREET LOOP # 1	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-36	C	Low		6407 BRAYTON	Plate 1	<i>ADEC LUST File # L55.225 and Site Name FORMER QUICK LUBE.</i> Soil contamination was discovered in July of 1996 during the removal of a 500-gallon used oil UST. A letter was sent to the responsible party in June of 1996 requesting an update on LUST corrective action.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-117	C	Low		3650 LAKE OTIS PKWY # 102	Plate 1	
Construction trade areas and materials	C09	C9-77	C	Low		634 FISCHER AVE	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-19	C	Low		6321 A ST	Plate 1	
Body shops (automotive)	C05	C5-20	C	Low		5941 ARCTIC BLVD # P	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATV's, snow machines (with service department)	C30	C30-16	C	Low		1537 E DOWLING RD	Plate 1	
Windshield/glass repair shops	C44	C44-5	C	Low		5955 OLD SEWARD HWY	Plate 1	
Heavy equipment rental/storage	C18	C18-32	C	Low		6300 PETERSBURG ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-35	C	Low		6240 B ST	Plate 1	
Motor / motor vehicle repair shops	C31	C31-64	C	Low		6031 ARCTIC BLVD	Plate 1	
Construction trade areas and materials	C09	C9-78	C	Low		6041 MACKAY ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-118	C	Low		4001 LAKE OTIS PKWY # 100	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-119	C	Low		4003 LAKE OTIS PKWY # 101	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-16	C	Low		109 A STREET LOOP	Plate 1	
Motor / motor vehicle repair shops	C31	C31-65	C	Low		6230 A ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-45	C	Medium		5941 ARCTIC BLVD	Plate 1	
Hardware stores	C17	C17-66	C	Low		106 E DOWLING RD # B	Plate 1	
Hardware stores	C17	C17-54	C	Low		6407 BRAYTON DR	Plate 1	
Hardware stores	C17	C17-67	C	Low		907 E DOWLING RD # 4	Plate 1	
Construction trade areas and materials	C09	C9-79	C	Low		646 E DOWLING RD	Plate 1	
Septic tank cleaning and servicing	C39	C39-1	C	Low		6218 QUINHAGAK ST	Plate 1	
Body shops (automotive)	C05	C5-21	C	Low		5941 ARCTIC BLVD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-36	C	Low		5645 OLD SEWARD HWY	Plate 1	
Wastewater Holding Tank	T22	T22-1	C	Low		6441 A ST	Plate 1	350-gallons, CLOSED LUST Site

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-35	C	Low		6441 A ST	Plate 1	<i>ADEC LUST File # L100.40 and Site Name Carr Gottstein Warehouse.</i> In July of 1990, soil contamination was discovered during the removal of a 5,000-gallon diesel UST and dispenser. Approximately 230 cubic yards were stockpiled onsite for remediation. No information is available to whether or not groundwater was impacted at this site. Stockpile and excavation site met ADEC cleanup guidelines in 1998 and a no further action letter was issued in April of 2000.
Construction trade areas and materials	C09	C9-80	C	Low		6109 MIKE ST	Plate 1	
Body shops (automotive)	C05	C5-22	C	Low		6241 A ST	Plate 1	
Body shops (automotive)	C05	C5-23	C	Low		774 FISCHER AVE	Plate 1	
Hardware stores	C17	C17-68	C	Low		5650 OLD SEWARD HWY # F	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-31	C	Low		6307 ARCTIC SPUR RD	Plate 1	<i>ADEC LUST File # L55.03 and Site Name K &amp; L DISTRIBUTORS INC.</i> Petroleum hydrocarbon impacted soils and groundwater were discovered during the removal of a 2,500-gallon diesel UST and two 1,500-gallon gasoline USTs in May of 1989. Approximately 1,600 tons of contaminated soils were removed from the excavation and stored onsite for remediation until the soils met cleanup criteria for disposal at the Anchorage Municipal Landfill. Three (3) groundwater monitoring wells were installed to determine the presence or absence of contaminants in the unconfined aquifer. Groundwater samples taken in December of 1990 indicated benzene in at least one of the monitoring wells. A No Further Action letter was issued when total petroleum hydrocarbon reached ADEC target cleanup levels in June of 1993.
Body shops (automotive)	C05	C5-24	C	Low		151 A STREET LOOP # 3	Plate 1	
Dry cleaners	C10	C10-5	C	Low		5520 LAKE OTIS PKWY # 106	Plate 1	
Injection wells (Class V) Industrial Process Water & Water Disposal Wells	D40	D40-4	C	Low		5520 LAKE OTIS PKWY # 106	Plate 1	
Body shops (automotive)	C05	C5-25	C	Low		5610 OLD SEWARD HWY # J	Plate 1	
Construction trade areas and materials	C09	C9-81	C	Low		150 W DOWLING RD	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-25	C	Low		1147 E Dowling Road	Plate 1	<i>ADEC Contaminated Sites File # CS100.89 and Site Name Laidlaw Transit Inc..</i> Countless spills of petroleum hydrocarbons. Site is Inactive.
Gasoline stations (with repair shop)	C16	C16-10	C	Low		4417 LAKE OTIS PKWY	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Wastewater Holding Tank	T22	T22-2	C	Low		4417 LAKE OTIS PKWY	Plate 1	40-gallons
Wastewater Holding Tank	T22	T22-3	C	Low		4417 LAKE OTIS PKWY	Plate 1	40-gallons
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-28	C	Low		4417 LAKE OTIS PKWY	Plate 1	<i>ADEC LUST File # L10.11 and Site Name LAKE OTIS CHEVRON #97324.</i> In September of 1990, a used oil UST failed a tank tightness test and soil contamination was discovered. Petroleum hydrocarbons, tetrachloroethylene (PCE), 1,2-dichloroethane, 1,4-dichlorobenzene, and 1,1,1-dichloroethane was discovered in soils above MCLs. Groundwater monitoring wells were installed and revealed elevated levels of petroleum and chlorinated hydrocarbons including trichloroethylene (TCE). It was suggested that the chlorinated hydrocarbons originated from an off-site contaminant source (dry cleaning business). A vapor extraction/bioventing system was installed and was operational by January of 1993. Petroleum and chlorinated hydrocarbons in the groundwater have been monitored on four times per year since 1993. In April of 2001, ADEC approved a workplan for the installation of three additional groundwater monitoring wells. A groundwater monitoring report was submitted to ADEC in June of 2001.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-120	C	Low		3744 LAKE OTIS PKWY	Plate 1	
Pharmacies	C35	C35-8	C	Low		4201 LAKE OTIS PKWY	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-17	C	Low		1135 E DOWLING RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-37	C	Low		230 E POTTER DR # 6	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-32	C	Low		1205 E DOWLING RD	Plate 1	<i>ADEC LUST File #L55.47 and Site Name Vehicle Facility on Dowling Road; LOOMIS ARMORED INC.</i> Soil contamination was encountered during a September 1989 removal of a 3,000-gallon gasoline UST. Approximately 60 cubic yards of contaminated soils were removed and properly disposed of in an ADEC manner. Further site assessment required by ADEC documented groundwater contamination. Groundwater samples taken from monitoring wells upgradient and downgradient of the UST excavation indicated similar levels of toluene, a constituent of gasoline. This provided evidence that another petroleum hydrocarbon contaminant source may have contributed partly or entirely to groundwater contamination at this site. Groundwater samples taken September of 1990 indicated low levels of toluene in three of four monitoring wells. These levels were well below the MCL for this contaminant. A letter sent by ADEC stating that no further action was required except to properly abandon monitoring wells was sent out in June of 1991.
Motor vehicle/general storage yards/facilities	X27	X27-8	C	Low		1205 E DOWLING RD	Plate 1	
Body shops (automotive)	C05	C5-26	C	Low		5901 ARCTIC BLVD	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-17	C	Low		648 E DOWLING RD # 101	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-18	C	Low		6041 MACKAY ST	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-26	C	Low		6511 Brayton Drive	Plate 1	<i>ADEC Contaminated Sites File # CS100.86 and Site Name Magnum Marine of AK. - Murray Subdivision.</i> Waste drums of oil with RCRA action levels of lead and mercury. Suspected discharge of petroleum hydrocarbons between 8/90 and 11/90. Above ground spills of oil and oil water separator not working so it was discharging improperly. Site is Inactive.
Printers, publishers, copiers	C37	C37-42	C	Low		6407 BRAYTON DR # E	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-93	C	Low		5905 LAKE OTIS PKWY # A	Plate 1	
Welding shops	C43	C43-4	C	Low		6121 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-82	C	Low		6118 OLD SEWARD HWY	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-40	C	Low		2600 PROVIDENCE DR	Plate 1	ADEC LUST File # L73.06 and Site Name DHSS - McLaughlin Youth Center. Soil contaminated with petroleum hydrocarbons was discovered during the removal of a 500-gallon diesel UST in February of 1993. The soils beneath the excavation met ADEC Cleanup Level A requirements. Contaminated stockpiled soils were later transported offsite for disposal. Site cleanup was complete in April of 1994.
Construction trade areas and materials	C09	C9-83	C	Low		141 A STREET LOOP	Plate 1	
Paint sales /service	C32	C32-7	C	Low		1921 BARTLETT DR	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-35	C	Low		4001 LAUREL ST	Plate 1	ADEC LUST File # L55.205 and Site Name ALASKA SURGERY CENTER. A release of diesel fuel was discovered during the removal of a 500-gallon UST (emergency generator) in December of 1994.
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-96	C	Low		4050 LAKE OTIS PKWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-111	C	Low		4048 LAUREL ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-112	C	Low		4001 LAUREL ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-121	C	Low		4200 LAKE OTIS PKWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-126	C	Low		4120 LAUREL ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-127	C	Low		2401 E 42ND AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-130	C	Low		4325 LAUREL ST	Plate 1	
Body shops (automotive)	C05	C5-27	C	Low		5650 OLD SEWARD HWY	Plate 1	
Motor / motor vehicle repair shops	C31	C31-66	C	Low		202 E POTTER DR	Plate 1	
Construction trade areas and materials	C09	C9-84	C	Low		6637 GREENWOOD ST	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-34	C	Low		4350 MACINNES	Plate 1	ADEC LUST File # L69.47 and Site Name MOA - FIRE STATION #4. A diesel spill was discovered during the closure of a 500-gallon UST in September of 1994. ADEC reviewed the corrective action plan in October of 1995 and a release investigation report in January of 1995.
Firehouses	X38	X38-1	C	Low		4350 MACINNES	Plate 1	
Motor / motor vehicle repair shops	C31	C31-46	C	Low		2000 E DOWLING RD # 8	Plate 1	
Body shops (automotive)	C05	C5-28	C	Low		5901 ARCTIC BLVD	Plate 1	
Body shops (automotive)	C05	C5-29	C	Low		1301 E DOWLING RD	Plate 1	
Paint sales /service	C32	C32-8	C	Low		2091 CAMPBELL PL	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-17	C	Low		5941 ARCTIC BLVD # 1	Plate 1	
Motor / motor vehicle repair shops	C31	C31-47	C	Low		6300 PETERSBURG ST	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-29	C	Low		6450 ARCTIC BLVD.	Plate 1	<i>ADEC LUST File # L55.128 and Site Name N. C. MACHINERY CO.</i> In September of 1991, soil and groundwater contamination was discovered emanating from leaks in the piping of a gasoline UST. Groundwater monitoring wells were installed in August of 1993 to determine the type, magnitude, and extent of contamination.
Machine and metal work shops	I23	I23-7	C	Low		1200 W DOWLING RD	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-20	C	Low		6228 Nielson Way	Plate 1	<i>ADEC Contaminated Sites File # CS100.154 and Site Name NANA/Dynatec-JV.</i> Leaking drums - petroleum hydrocarbons and solvents. Contamination remains beneath structures onsite. Site status is "No Further Remedial Action Planned".
Motor/motor vehicle supplies stores	C28	C28-38	C	Low		1130 E DOWLING RD	Plate 1	
Photography supplies/photo processing laboratories	C36	C36-13	C	Low		2490 E 42ND AVE	Plate 1	
Body shops (automotive)	C05	C5-30	C	Low		5941 ARCTIC BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-122	C	Low		4115 LAKE OTIS PKWY # 201	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-20	C	Low		299 W 64TH AVE	Plate 1	
Construction trade areas and materials	C09	C9-85	C	Low		6108 MACKAY ST # 200	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-123	C	Low		4231 LAKE OTIS PKWY	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-24	C	Low		6211 Old Seward Highway	Plate 1	<i>ADEC Contaminated Sites File # CS100.212 and Site Name Old Seward Hwy. Sawmill.</i> Soil and groundwater contamination from diesel releases. Site status is "No Further Remedial Action Planned".
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-124	C	Low		3650 LAKE OTIS PKWY # 201	Plate 1	
Construction trade areas and materials	C09	C9-86	C	Low		6260 OLD SEWARD HWY	Plate 1	
Hardware stores	C17	C17-55	C	Low		5520 LAKE OTIS PKWY # 105A	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV's, snow machines, boats (with service department)	C27	C27-14	C	Low		2333 E TUDOR RD	Plate 1	
Construction trade areas and materials	C09	C9-65	C	Low		2227 E 53RD AVE	Plate 1	
Body shops (automotive)	C05	C5-31	C	Low		1237 E 66TH AVE	Plate 1	
Dry cleaners	C10	C10-6	C	Low		4501 LAKE OTIS PKWY	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Industrial Process Water & Water Disposal Wells	D40	D40-3	C	Low		4501 LAKE OTIS PKWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-134	C	Low		907 E DOWLING RD # 7	Plate 1	
Construction trade areas and materials	C09	C9-69	C	Low		3820 LAKE OTIS PKWY	Plate 1	
Lumber processing and preservation	N04	N4-8	C	Low		5900 ARCTIC BLVD	Plate 1	
Motor / motor vehicle repair shops	C31	C31-67	C	Low		6727 GREENWOOD ST	Plate 1	
Hardware stores	C17	C17-69	C	Low		6514 GREENWOOD ST	Plate 1	
Motor vehicle rental facilities - cars, trucks, ATVs, snow machines (with service department)	C30	C30-15	C	Low		1801 E DOWLING RD	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-48	C	Medium		1801 E DOWLING RD	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-11	C	Low		1524 E DOWLING RD	Plate 1	
Hardware stores	C17	C17-70	C	Low		6446 HOMER DR	Plate 1	
Motor / motor vehicle repair shops	C31	C31-68	C	Low		210 E POTTER DR	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-54	C	Medium		210 E POTTER DR	Plate 1	
Construction trade areas and materials	C09	C9-66	C	Low		1720 E 59TH AVE	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-21	C	Low		1100 E DOWLING RD	Plate 1	
Heavy equipment rental/storage	C18	C18-42	C	Low		6116 NIELSON WAY	Plate 1	
Asphalt and tar processing/storage	I03	I3-3	C	Low		240 W 68TH AVE	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-12	C	Low		2240 E DOWLING RD	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-39	C	Low		130 E DOWLING RD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-125	C	Low		4335 LAUREL ST	Plate 1	
Heavy equipment rental/storage	C18	C18-43	C	Low		1150 E 68TH AVE	Plate 1	
Hardware stores	C17	C17-56	C	Low		2020 E DOWLING RD # 7	Plate 1	
Construction trade areas and materials	C09	C9-87	C	Low		6151 A ST	Plate 1	
Gasoline stations (without repair shop)	C15	C15-13	C	Low		2510 TUDOR RD	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-33	C	Low		2510 TUDOR RD	Plate 1	ADEC LUST File # L55.180 and Site Name RENNERS GAS AND SAVE. One 6,000-gallon diesel and two 12,000-gallon gasoline USTs were removed from this site in October of 1993. Tank excavations revealed soil and groundwater contamination. A Notice of Violation (NOV) was sent to the responsible party in November of 1995 for failure to submit a Release Investigation report nor a Corrective Action Plan. ADEC once again requested a workplan in June of 2001. A reply is currently overdue.

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-47	C	Medium		1301 E DOWLING RD	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-29	C	Low		1301 E 64th Avenue	Plate 1	<i>ADEC Contaminated Sites File # CS100.47 and Site Name Rogers &amp; Babler Inc. Waste oil, asphalt being stored on site in 55 gallon drums. EPA plans no further action at site. 300 tons of tainted soils excavated while remediating surface soils and wastewater sump in 10/90. TPH, BTEX, and 1,2 dichlorobenzene detected in excavated soils. Further excavation at sump planned. Site is Closed.</i>
Motor / motor vehicle repair shops	C31	C31-69	C	Low		230 E POTTER DR # 3	Plate 1	
Hardware stores	C17	C17-71	C	Low		1320 E 68TH AVE # 101	Plate 1	
Windshield/glass repair shops	C44	C44-6	C	Low		5650 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-88	C	Low		6208 MACKAY ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-128	C	Low		3650 LAKE OTIS PKWY # 202	Plate 1	
Body shops (automotive)	C05	C5-32	C	Low		5941 ARCTIC BLVD	Plate 1	
Injection wells (Class V) Large-Capacity Septic System (Drainfield Disposal Method)	D10	D10-3	C	Low		5941 ARCTIC BLVD	Plate 1	
Iron and steel manufacturing	I21	I21-3	C	Low		6148 NIELSON WAY	Plate 1	
Hardware stores	C17	C17-57	C	Low		5520 LAKE OTIS PKWY # 103	Plate 1	
Hardware stores	C17	C17-72	C	Low		877 E DOWLING RD	Plate 1	
Dry cleaners	C10	C10-7	C	Low		6726 GREENWOOD ST	Plate 1	
Welding shops	C43	C43-2	C	Low		6130 NIELSON WAY	Plate 1	
Metal fabrication	I25	I25-3	C	Low		6130 NIELSON WAY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-58	C	Low		6130 NIELSON WAY	Plate 1	<i>ADEC LUST File # 55.178 and Site Name SHEET METAL INC. Very low levels of petroleum hydrocarbons below ADEC Level A Cleanup Standards were discovered during the removal of a 1,000-gallon gasoline UST in Mardh of 1993. Based on the low level of existing contamination, a No Further Action letter was issued in March of 1996. Site is closed. Move to U8</i>
Car washes with engine or undercarriage cleaning	C08	C8-7	C	Low		1147 E DOWLING RD	Plate 1	
Body shops (automotive)	C05	C5-33	C	Low		5941 ARCTIC BLVD # G	Plate 1	
Heavy equipment rental/storage	C18	C18-44	C	Low		6308 MACKAY ST	Plate 1	
Closed tanks, lubricants or other petroleum products (underground)	T21	T21-2	C	Low		600 E 57TH PLACE	Plate 1	out of use LUST SITE
Lubrication shops	C25	C25-2	C	Low		1721 E DOWLING RD	Plate 1	
Scrap, salvage, or junk yards	D59	D59-6	C	Low		849 E 56TH AVE	Plate 1	



Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Body shops (automotive)	C05	C5-16	C	Low		1657 E DOWLING RD	Plate 1	
Heavy equipment rental/storage	C18	C18-33	C	Low		6108 PETERSBURG ST	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-94	C	Low		5520 LAKE OTIS PKWY	Plate 1	
Printers, publishers, copiers	C37	C37-43	C	Low		6340 PETERSBURG ST	Plate 1	
Sign manufacturing	I39	I39-5	C	Low		6170 OLD SEWARD HWY	Plate 1	
Heavy equipment rental/storage	C18	C18-45	C	Low		6727 OLD SEWARD HWY # A	Plate 1	
Construction trade areas and materials	C09	C9-67	C	Low		5101 LAUREL ST	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-13	C	Low		6228 QUINHAGAK ST	Plate 1	
Motor/motor vehicle supplies stores	C28	C28-40	C	Low		6321 A ST	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-53	C	Medium		6017 AUSTIN ST	Plate 1	
Construction trade areas and materials	C09	C9-89	C	Low		600 E 57TH PL # B	Plate 1	
Body shops (automotive)	C05	C5-34	C	Low		151 A STREET LOOP # 3	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-129	C	Low		4001 LAKE OTIS PKWY # 200	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-14	C	Low		6200 PETERSBURG ST	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATV s, snow machines, boats (without service department)	C26	C26-3	C	Low		1301 E 64TH AVE	Plate 1	
Motor / motor vehicle repair shops	C31	C31-70	C	Low		151 A STREET LOOP # 7	Plate 1	
Construction trade areas and materials	C09	C9-70	C	Low		3820 LAKE OTIS PKWY	Plate 1	
Gasoline stations (without repair shop)	C15	C15-15	C	Low		4409 LAKE OTIS PKWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-38	C	Low		4409 LAKE OTIS PKWY	Plate 1	<i>ADEC LUST File # L25.19 and Site Name TUDOR TEXACO FOOD MART #18. A confirmation of a release of petroleum hydrocarbons was received by ADEC in August of 1996. LUST corrective action was initiated in March of 1998. ADEC requested the submittal of a Corrective Action Plan for contaminated soil and groundwater for this site in July of 2000. No additional information is available at this time.</i>
Construction trade areas and materials	C09	C9-90	C	Low		6211 OLD SEWARD HWY	Plate 1	
Hardware stores	C17	C17-58	C	Low		2020 E DOWLING RD # 6	Plate 1	
Welding shops	C43	C43-5	C	Low		5839 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-50	C	Medium		5839 OLD SEWARD HWY	Plate 1	
Construction trade areas and materials	C09	C9-61	C	Low		160 W 68TH	Plate 1	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-37	C	Low		160 W 68TH	Plate 1	<i>ADEC LUST File # L55.83 and Site Name United Lumber Company Incorporated.</i> Soil and groundwater contamination was discovered during the removal of a 1,300-gallon diesel fuel UST in August of 1990. Approximately 518 tons of contaminated soil was removed from the excavation in October of 1990 and transported to the Anchorage Regional Landfill (below 1000 ppm TPH). Several other stockpiles that exceeded 1000 ppm TPH were transported offsite for treatment. In 1992, soils and groundwater were sampled again. Test results showed a small amount of contamination remains beneath the foundation of a structure on site. This same sampling period yielded total petroleum hydrocarbon (TPH) concentrations below MCLs. Site closure was granted in August of 1992.
Motor/motor vehicle supplies stores	C28	C28-41	C	Low		106 E DOWLING RD	Plate 1	
Construction trade areas and materials	C09	C9-91	C	Low		125 A STREET LOOP	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-28	C	Low		2523 Providence Drive	Plate 1	<i>ADEC Contaminated Sites File # No File Number and Site Name University of Alaska (formerly Anchorage Community College).</i> As much as 100 to 300 gallons of waste oil, allegedly from transformers were spilled to the surface. No PCBs detected in soil samples. On-site inspection conducted in August 1986. Site is Inactive.
Printers, publishers, copiers	C37	C37-47	C	Low		907 E DOWLING RD # 13	Plate 1	
Heavy equipment rental/storage	C18	C18-46	C	Low		160 W 68TH AVE	Plate 1	
Electrical, electronic, computer, and communications equipment/component manufacturing	I13	I13-15	C	Low		160 W 68TH AVE	Plate 1	
Boat engine/body repair shops	C04	C4-1	C	Low		1220 E 68TH AVE # 101	Plate 1	
Laboratories (chemical, soils, and research)	C20	C20-13	C	Low		6100 A ST	Plate 1	
Construction trade areas and materials	C09	C9-92	C	Low		6120 A ST	Plate 1	
Hardware stores	C17	C17-59	C	Low		1658 E 59TH AVE	Plate 1	
Furniture manufacturing, repair, and finishing shops	C14	C14-19	C	Low		230 E POTTER DR # 4	Plate 1	
Motor / motor vehicle repair shops	C31	C31-71	C	Low		5610 OLD SEWARD HWY # K	Plate 1	
Motor vehicle/general storage yards/facilities	X27	X27-22	C	Low		6028 MACKAY ST	Plate 1	
Motor vehicle dealerships - cars, trucks, motor cycles, ATVs, snow machines, boats (with service department)	C27	C27-18	C	Low		6041 MACKAY ST	Plate 1	

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**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-51	C	Medium		5901 ARCTIC BLVD	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-88	C	Low		1600 E TUDOR RD # C	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-95	C	Low		4045 LAKE OTIS PKWY # 201	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-97	C	Low		2501 E 42ND AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-98	C	Low		3820 LAKE OTIS PKWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-99	C	Low		2400 E 42ND AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-100	C	Low		4231 LAKE OTIS PKWY	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-101	C	Low		3650 LAKE OTIS PKWY # 205	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-102	C	Low		2501 E 42ND AVE	Plate 1	
Medical/veterinary facilities (doctor or dentist offices, hospitals, nursing homes)	X40	X40-103	C	Low		3650 LAKE OTIS PKWY # 202	Plate 1	
Residential area	R01	R1-3	C	Low		Zone C Protection Area	3	533 acres
Municipal or city parks (with green areas)	X04	X4-8	C	Low		Wickersham Park	3	
Municipal or city parks (with green areas)	X04	X4-9	C	Low		Carlson, Jacobson, and David Green Memorial Parks	3	
Municipal or city parks (with green areas)	X04	X4-10	C	Low		University Park	3	
Municipal or city parks (with green areas)	X04	X4-11	C	Low		Bancroft Park	3	
Municipal or city parks (with green areas)	X04	X4-12	C	Low		Wickersham Park	3	
Municipal or city parks (with green areas)	X04	X4-13	C	Low		Campbell Park	3	
Municipal or city parks (with green areas)	X04	X4-14	C	Low		Lynwood Park	3	
Municipal or city parks (with green areas)	X04	X4-15	C	Low		Meadow Street Park	3	
Highways and roads, paved (cement or asphalt)	X20	X20-162 - X20-297	C	Low		All roads in Zone C Protection Area	4	
Residential septic systems (serves one single-family home)	R02	R2-25 - R2-41	B	Low		All septic systems in Zone C Protection Area	5	
Domestic wastewater collection systems (sewer lines or lift stations)	D01	D1-238 - D1-401	B	Low		All sewerlines in Zone C Protection Area	5	

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-50	D	Low		6740 LAKE OTIS PKWY	Plate 1	<i>ADEC LUST File # L20.09 and Site Name TESORO NORTHSTORE #3.</i> Soil and groundwater contamination was encountered during a environmental site assessment conducted in September of 1994. Two monitor wells (M-1, M-2) were installed in 1994. An existing well (P-1) was discovered already on-site (no indication of when it was installed). All three wells were sampled during the 1994 release investigation. Diesel range organics was detected in all three wells (0.1ppm, 0.1ppm and 0.6ppm). Lab analyses showed no detectable BTEX or VPH. Groundwater was once again sampled in October 2001. Samples were obtained from M-1, M-2, and P-1. A third well OW-1 (no indication of when it was installed) was found to be dry. M-1 had benzene at 0.00133ppm all other constituents undetected. M-2 was undetected for all constituents. P-1 had xylenes at 0.006ppm, DRO at 2.39ppm and undetect for all other constituents. The conclusions and recommendations section of the monitoring report states: "This report presents the findings of the October 2001 ground water monitoring event. It is apparent that DRO contamination is still
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-60	D	Medium		1200 E 76TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-61	D	Medium		7427 OLD SEWARD HWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-49	D	Low		7800 LAKE OTIS PARKWAY	Plate 1	<i>ADEC LUST File # L55.165 and Site Name Quality Asphalt Paving.</i> Petroleum hydrocarbon contamination was discovered in soils during the removal of a unleaded gasoline UST in 1989. The contamination was reported to ADEC in 1992. Ten cubic yards of contamination, (TPH testing) was found. Closeout met standards for the period. Site will be closed out with NFA letter after confirmation of proper soil disposal.
Metal finishing	I26	I26-2	D	Low		1153 E 74TH AVE # 1	Plate 1	
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-48	D	Low		2900 PROVIDENCE DR	Plate 1	<i>ADEC LUST File # L73.08 and Site Name ALASKA PSYCHIATRIC INSTITUTE.</i> Soil borings near USTs showed petroleum hydrocarbon contamination in February of 1992. Four regulated and two unregulated USTs were removed from the site. No further action was requested by ADEC and the site was closed in May of 1993.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-65	D	Medium		2000 E 68TH AVE	Plate 1	

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**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-31	D	Low		7560 BRIARWOOD ST	Plate 1	ADEC Contaminated Sites File # CS100.153 and Site Name ANCHORAGE AUTO ELECTRIC. Contamination from floor drains and surface spills at auto repair and auto body shops at 7550, 7560, and 7580 Briarwood. Site is Closed.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-44	D	Low		1206 E. 73RD	Plate 1	ADEC LUST File # L100.45 and Site Name ANCHORAGE CLEAN SWEEP. Soil and groundwater contamination was discovered in July of 1990 associated with six (6) 10,000-gallon used oil, three (3) 8,000-gallon used oil, one (1) 1,000-gallon gasoline, and one (1) 1,000-gallon diesel UST. Three groundwater monitoring wells were installed to determine the extent of contamination. A portion of the contaminated soils were removed from the various tank excavation sites. A bioremediation cell was installed onsite to attempt to remediate contaminated soils that were still in place. Nitrates were injected to within the soil to promote the natural mineralization of the petroleum hydrocarbons through microbial activity. Sampling/results of groundwater and soils in 1998 indicated low levels of diesel range organics, but concentrations were below ADEC Cleanup Levels for both soil and groundwater. The biocell and monitoring wells were decommissioned by May of 1998 and No Further Action was required in June of 1998.
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-58	D	Low		3580 E Tudor	Plate 1	ADEC LUST File # L68.27 and Site Name ASD Student Transportation . A LUST corrective action plan was approved by ADEC in August of 1998. In October of 1999, ADEC requested an update to the workplan. No additional information is available at this time.
Scrap, salvage, or junk yards	D59	D59-7	D	Low		2530 E 79TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-62	D	Medium		7015 OLD SEWARD HWY	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-58	D	Medium		2715 E TUDOR RD	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-30	D	Low		2715 E TUDOR RD	Plate 1	ADEC Contaminated Sites File # 100.15 and Site Name COURTNEY'S TUDOR SERVICE. Metals and residual range petroleum hydrocarbons. Site status is "No Further Remedial Action Planned".

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**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-43	D	Low		2715 E TUDOR RD	Plate 1	ADEC LUST File # L55.01 and Site Name COURTNEY'S TUDOR SVC. Soil and groundwater contamination was found that resulted from a 10,000-gallon leaking unleaded gasoline UST in November of 1987. The UST, four additional tanks, and approximately 1,000 tons of contaminated soils were removed from the site. Groundwater monitoring wells were installed and monitoring of contamination continued until a No Further Action letter was issued by ADEC in March of 1998.
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-42	D	Low		6401 LAKE OTIS PKWY	Plate 1	ADEC LUST File # L20.03 and Site Name Tesoro - Petro Products. In July 1987, soil and groundwater contamination was encountered during the removal of three USTs. This LUST site contains two identified contaminant releases. The facility was operated as a retail fueling facility containing both a gas station as well as a home heating oil delivery business. Contamination of the unconfined aquifer at this site, which is encountered at six to ten feet below land surface, resulted in the contamination of Little Campbell Creek adjacent to the property. Contaminated soils were removed from the site and an in-situ vapor extraction system was installed to vent fuel fumes in the subsurface. Groundwater contamination exists at this site and extends off the property, however, the areal extent of the contaminant plume has not yet been fully characterized.
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-45	D	Low		8123 HARTZELL RD	Plate 1	ADEC LUST File # L55.134 and Site Name DENALI FUEL COMPANY - FUZZYS. Contaminated soil and groundwater was discovered during the removal of a 10,000-gallon diesel UST in October of 1991. As of September of 2001, a release investigation has been conditionally approved for the installation of groundwater monitoring wells to determine the extent of petroleum contamination.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-70	D	Medium		7079 STELLA PL	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-73	D	Medium		2361 CINNABAR LOOP	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-68	D	Medium		1300 E 74TH AVE	Plate 1	

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**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-71	D	Medium		7100 HOMER AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-72	D	Medium		6614 LAKE OTIS PKWY	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-34	D	Low		7140 Lake Otis Parkway	Plate 1	<i>ADEC Contaminated Sites File # CS74.17 and Site Name Former Spruce Park Auto Body.</i> Petroleum contaminated soils and RCRA hazardous soils found on the site during MOA road construction project start. Site is Closed.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-67	D	Medium		1200 E 71ST AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-74	D	Medium		3429 E TUDOR RD	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-44	D	Low		3429 E TUDOR RD	Plate 1	<i>ADEC LUST File # L55.121 and Site Name Tudor Minit Lube Store #1071.</i> Petroleum contaminated soils were encountered in association with a regulated UST in August of 1991. A 4,000-gallon tank with 5W-30 new motor oil failed. A corrective action plan (CAP) was submitted to ADEC in 1995. There is no indication whether or not the CAP has been implemented.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-69	D	Medium		6051 BURLWOOD ST	Plate 1	CS19.NF
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-35	D	Low		6051 BURLWOOD ST	Plate 1	<i>ADEC Contaminated Sites File # CS19.NF and Site Name K &amp; D AUTO SERVICE.</i> Drum explosion spread waste oil over site. No further action required at this time. Site is CLOSED.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-53	D	Low		2341 CINNABAR LOOP	Plate 1	<i>ADEC LUST File # L55.250 and Site Name LASERTECH ALASKA.</i> Soil contamination was found in August of 1996 in association with a leaking 290-gallon used oil UST. Petroleum hydrocarbon concentrations werer below ADEC Level A for cleanup. A No Further Action letter was issued in February of 1997.

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Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-51	D	Low		7260 HOMER DR	Plate 1	ADEC LUST File # L55.175 and Site Name MCDONALD INDUSTRIES ALASKA, INC.. During the removal of a 3,000-gallon diesel and a 3,000-gallon gasoline UST, a sheen was found on the water in the excavation in May of 1993. An environmental assessment report dated July 1993 indicated the presence of floor drains and dry wells in several of the structures on this property. It is unknown if these potential sources of contamination were ever addressed. Soil samples taken from the excavation pit indicated petroleum hydrocarbon contamination below ADEC Cleanup Level A. No further action was required for the site in December of 1994.
Tanks, lubricants or other petroleum products (underground)	T20	T20-5	D	Low		3650-D E. TUDOR RD	Plate 1	6,000-gallons, single-walled with ATG
Wastewater Holding Tank	T22	T22-4	D	Low		3650-D E. TUDOR RD	Plate 1	6,000-gallons
Closed Wastewater Holding Tank	T23	T23-2	D	Low		3650-D E. TUDOR RD	Plate 1	600-gallons
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-47	D	Low		3650-D E. TUDOR RD	Plate 1	ADEC LUST File # L69.14 and Site Name MOA - NEW TRANSIT MAINTENANCE FACILITY. During UST removals in June of 1992, diesel contamination from the USTs was found in the soil and groundwater. ADEC sent a letter to the Municipality of Anchorage requesting more action on the site in February of 2001. No additional information is available at this time.
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-55	D	Low		3650-C E. TUDOR	Plate 1	ADEC LUST File # L69.50 and Site Name MOA - OLD TRANSIT MAINTENANCE. Contaminated soil was discovered during the closure of a 500-gallon UST in August of 1997. LUST corrective action was initiated in March of 1998. No additional information is available at this time.
Closed Wastewater Holding Tank	T23	T23-1	D	Low		3650-D TUDOR RD	Plate 1	2,000-gallons
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-37	D	Low		3650 E Tudor Road	Plate 1	ADEC Contaminated Sites File # CS69.14 and Site Name MOA Public Works Transit Facility. Hydraulic fluid leaked from a lift in a bus service barn. Estimated that 1400 gallons leaked over 4 years. Site is Inactive.



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Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-33	D	Low		1118 E. 70th Avenue	Plate 1	<i>ADEC Contaminated Sites File # CS100.159 and Site Name MOA Road Construction &amp; Improvement.</i> During construction of road improvements, soils containing petroleum hydrocarbons above cleanup levels were encountered in the E. 70th Avenue right-of-way. The release is of unknown origin. A potential source is heavy oil (possibly waste oil) was used at some time in the past to suppress dust in the surface soils in traffic areas. Seven stockpiles showed DRO levels between 4.2 and 590 ppm. Those with DRO levels were disposed of at the MOA Hiland Rd. Landfill because they were under 1,000 ppm DRO. The remaining clean soil was used as fill. Site is Closed.
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-46	D	Low		8001 PETERSBURG ST	Plate 1	<i>ADEC LUST File # L55.135 and Site Name PACIFIC DETROIT DIESEL-ALLISON, Frontier Construction (formerly).</i> Soil and shallow groundwater contamination was encountered during the excavation of a 10,000 gallon waste oil tank in November of 1991. Contaminated soils were excavated and placed in a bioremediation cell onsite. Monitoring wells were installed and showed low levels of benzene in samples taken in October of 1993. In December of 1999, ADEC requested no further action on contaminated soils, but requested further groundwater monitoring at this site.
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-48	D	Low		1153 E 72ND AVE	Plate 1	<i>ADEC LUST File # L55.46 and Site Name PRIVATE CABLE/PACIFIC RIM TELECO.</i> The September 1992 removal of a 1,500-gallon diesel and a 1,500-gallon unleaded gasoline UST revealed soil contaminated with petroleum hydrocarbons. As of February of 2002, the responsible party has not yet retained a 3rd party consultant to conduct a release investigation for this site.
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-52	D	Low		3200 PROVIDENCE DR	Plate 1	<i>ADEC LUST File # L55.203 and Site Name PROVIDENCE HOSPITAL.</i> A diesel spill was discovered during the upgrade of a 500 gallon emergency generator in December of 1994. LUST corrective action is underway.

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**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-49	D	Low		3200 PROVIDENCE DR	Plate 1	<i>ADEC LUST File # L55.155 and Site Name PROVIDENCE HOSPITAL.</i> Soil and groundwater contamination was discovered during the removal of a 20,000-gallon diesel and a 7,000-gallon diesel UST in March of 1992. No soil and groundwater samples were found to contain petroleum hydrocarbons above ADEC cleanup levels. Site closure was complete in May of 1993.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-64	D	Medium		1207 E 76TH AVE	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-63	D	Medium		1153 E 74TH AVE # 4	Plate 1	
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-66	D	Medium		1326 E 74TH AVE	Plate 1	
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-32	D	Low		7100 Lake Otis Pkwy.	Plate 1	<i>ADEC Contaminated Sites File # CS100.163 and Site Name Spruce Park Trailer Park.</i> Contamination from removal of 2 unregulated USTs 7/22-23/94. One was a 6,000 gallon heating oil tank and the second was a 500 gallon waste oil tank. DRO was found in soils up to 16,000 ppm and floating product was found on the groundwater. The two tanks were removed in October 1996. In July 2001, free products was reported floating on the water table measuring between 0.3 and 2.45 feet. Site is Open.
Contaminated sites, DEC recognized, non-Superfund, non-RCRA	U04	U4-36	D	Low		7780 Old Seward Highway	Plate 1	<i>ADEC Contaminated Sites File # CS01.NF and Site Name Stephen Residence.</i> Oil contamination present in soil from pipe behind old boathouse. Site is Closed.
Injection wells (Class V) Motor Vehicle Waste Disposal Well	D42	D42-59	D	Medium		6714 LAKE OTIS PKWY	Plate 1	
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-57	D	Low		2844 E TUDOR RD	Plate 1	<i>ADEC LUST File # L20.56 and Site Name TESERO Northstore # 56.</i> Observed groundwater impacts at time of UST removal in August of 1999. Approximately 45 cubic yards of a total of 90 cubic yards of contaminated soils were removed. Groundwater monitoring continues.

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PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-47	D	Low		2321 CINNIBAR LOOP	Plate 1	ADEC LUST File # L55.105 and Site Name THE EXCAVATION COMPANY. A March 1991 removal of three (3) underground storage tanks (5,000-gallon diesel, 300-gallon used oil, 4,000-gallon gasoline) revealed soil and groundwater contamination. Approximately 230 cubic yards of soil was excavated from the site and transported offsite for thermal treatment. All groundwater samples were below MCLs for total petroleum hydrocarbons. Site closure was complete in June of 1993.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-46	D	Low		7725 OLD SEWARD HWY	Plate 1	ADEC LUST File # L55.97 and Site Name Grand Auto #222. Soil and groundwater contamination was discovered during the removal of a 500-gallon used oil UST in October of 1990. Approximately 38 tons of contaminated soils were removed during the excavation and transported to the Anchorage Regional Landfill for disposal. An additional 20 cubic yards of contaminated soil that was above the landfill disposal limit (TPH > 1000 ppm) was transported for thermal treatment prior to disposal at the landfill. Three (3) groundwater monitoring wells were installed to determine the direction of groundwater flow and the extent and magnitude of contamination at this site. Total petroleum hydrocarbons (TPH) concentrations in groundwater samples were found to be well below ADEC groundwater cleanup standards. No further action was issued for this site in January of 1996.
Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-56	D	Low		8220 PETERSBURG STREET	Plate 1	ADEC LUST File # L55.198 and Site Name TOVSEN PROPERTY. A waste oil spill was discovered during the closure of a 550-gallon UST in September of 1994. The tank and contaminated soils were excavated and transported offsite for disposal. No further action was requested by ADEC in November of 1994.
Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-57	D	Low		3211 PROVIDENCE DR	Plate 1	LUST#L73.09
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-55	D	Low		3211 PROVIDENCE DR	Plate 1	ADEC LUST File # L73.21 and Site Name UAA Energy Module I Bldg. Diesel contamination was found during the removal of a 500-gallon UST used for an emergency generator in October of 1994. Site cleanup has been completed and a No Further Action letter was issued in March of 1999.

Table 7

**Potential and Existing Sources of Contamination for MOA Well #12**  
**Sources of Other Synthetic Organic Chemicals (OOCs)**

PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-43	D	Low		3211 PROVIDENCE DR	Plate 1	<i>ADEC LUST File # L73.15 and Site Name UAA - Arts Building.</i> Soil and groundwater contamination was discovered during the removal of a 500-gallon diesel UST in July of 1997. Groundwater monitoring results in 2000 continue to show elevated diesel range organics. Groundwater monitoring continues.
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-53	D	Low		3211 PROVIDENCE DR	Plate 1	<i>ADEC LUST File # L73.05 and Site Name UAA - Providence.</i> Soil contamination was discovered during the removal of a used oil UST in June of 1991. Corrective action is underway and groundwater monitoring continues.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-50	D	Low		3211 PROVIDENCE DR	Plate 1	<i>ADEC LUST File # L73.13 and Site Name UAA Energy Module II Bldg.</i> Gasoline and diesel contamination was found during the removal of a 500-gallon UST used for an emergency generator in May of 1995. Several tons of fuel contaminated soil was removed from the excavation and transported offsite for thermal treatment. Site cleanup has been completed and a No Further Action letter was issued in March of 2001.
Tanks, lubricants or other petroleum products (underground)	T20	T20-4	D	Low		8221 PETERSBURG ST	Plate 1	5,000-gallons, single-walled with Tank Tightness Testing and ATG. Tank is temporarily out of use.
Leaking Underground Fuel Storage Tank (LUST) Site	U07	U7-56	D	Low		8221 PETERSBURG ST	Plate 1	<i>ADEC LUST File # L55.269 and Site Name USPS - VMF (west tanks)</i> ADEC requested a release investigation for groundwater in March of 1998. No additional information is available at this time.
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-54	D	Low		8221 PETERSBURG ST	Plate 1	<i>ADEC LUST File # L55.247 and Site Name US POSTAL SERVICE VEHICLE MAINT.</i> Low levels of petroleum hydrocarbon contamination was found in association with the removal of two motor oil and one used oil tanks. The tanks were removed and soils below cleanup ADEC cleanup Level A were put back into the excavation. Site cleanup was completed in December of 1996.

Table 7

Potential and Existing Sources of Contamination for MOA Well #12  
Sources of Other Synthetic Organic Chemicals (OOCs)

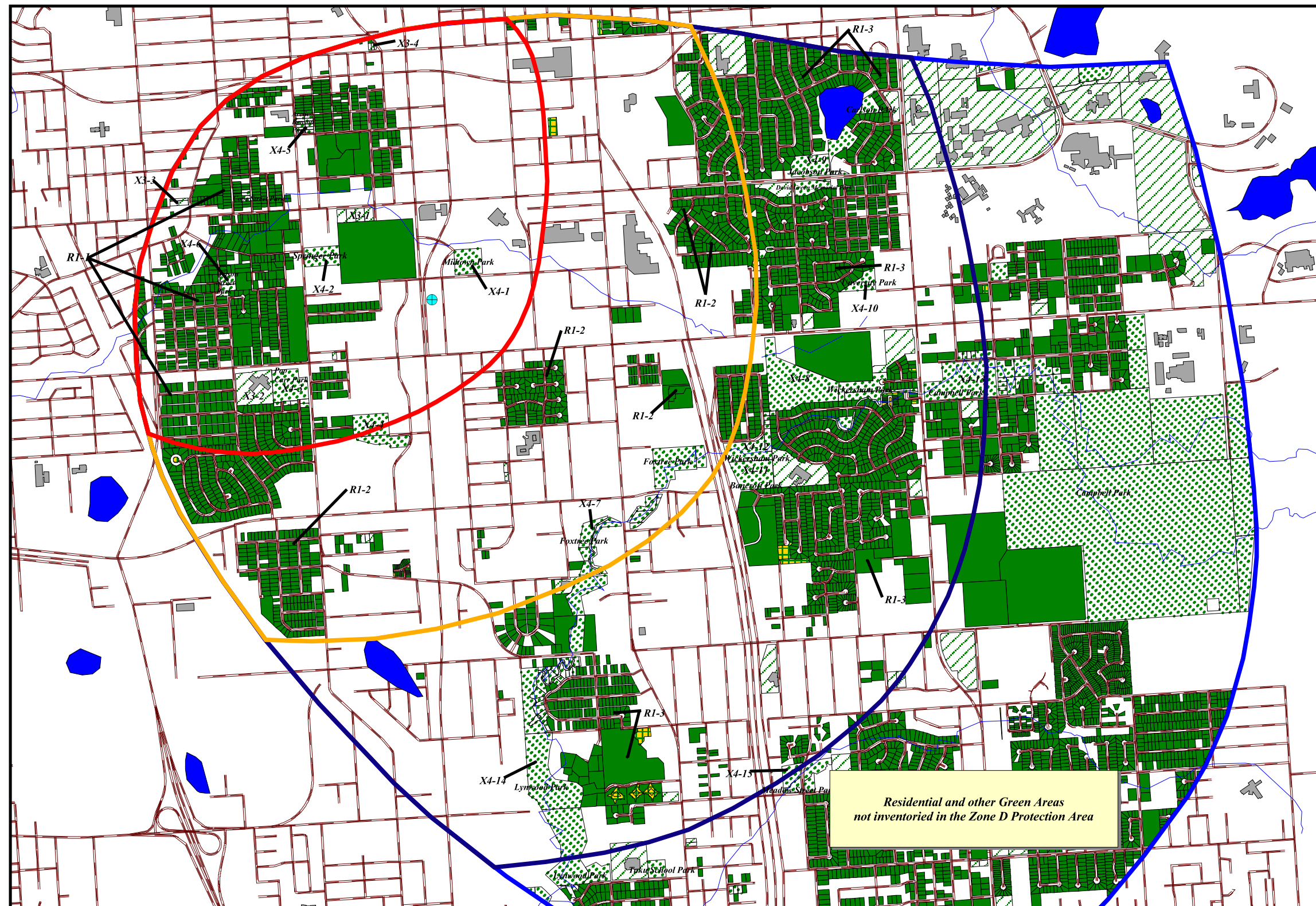
PWSID 210906.003

Contaminant Source Category	Contaminant Source ID	CS ID tag	Zone	Risk Ranking for Analysis	Overall Rank after Analysis	Location	Map	Comments
Closed Leaking Underground Fuel Storage Tank (LUST) Site	U08	U8-45	D	Low		2900 E TUDOR RD	Plate 1	<i>ADEC LUST File # L55.95 and Site Name WILLIAMS EXPRESS #5020. Soil and groundwater contamination was detected beneath a former diesel fueling facility in August of 1990. Contaminated soils were excavated and transported off-site for disposal. Some of the less contaminated soils were spread onsite. Goundwater monitoring wells were installed to determine to the extent of contamination on the unconfined aquifer and monitor concentrations. Site cleanup has been completed and No Further Action was granted in April of 2000.</i>

## **APPENDIX C**

### **MOA Well #12 Drinking Water Protection Area and Potential & Existing Contaminant Sources**

# Drinking Water Protection Area for MOA Well #12 and Potential & Existing Sources of Contamination (Residential Areas, Parks, and Other Green Areas)

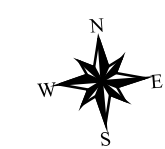


### Legend

- MOA Well #12
- Zone A Protection Area
- Several Months Travel Time
- Zone B Protection Area
- Less Than 2-Years Travel Time
- Zone C Protection Area
- Less Than 5-Years Travel Time
- Zone D Protection Area
- Less Than 10-Years Travel Time
- Buildings
- Streams
- Lakes
- Residential Areas, Parks, and Other Green Areas
- Landscaping around buildings (X3)
- Mixed Industria/Residential (R1)
- Municipal or city parks (X4)
- Other green areas (X4)
- Residential areas (R1)
- Roads



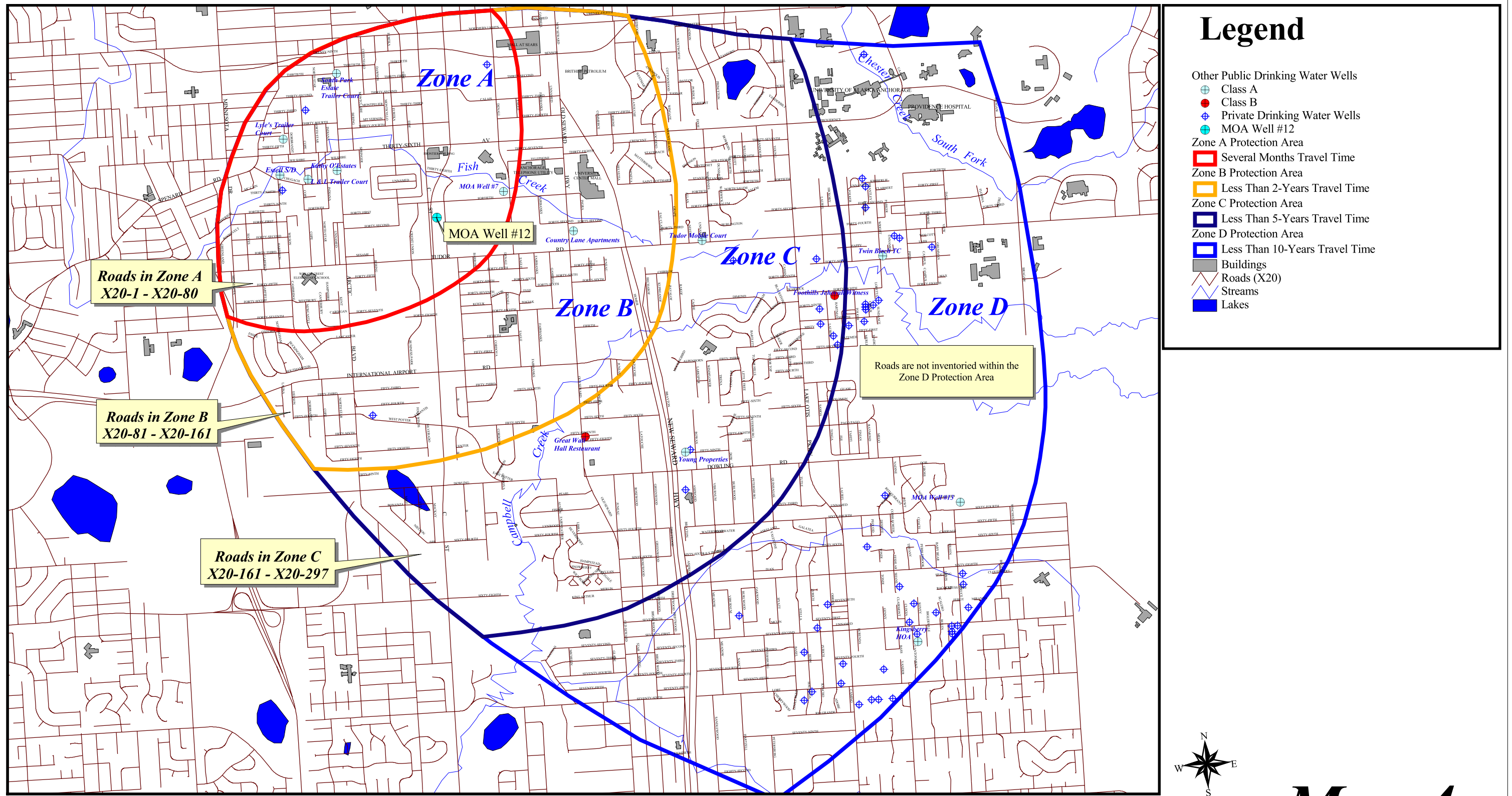
PWSID 210906.003



# Map 3



# Drinking Water Protection Area for MOA Well #12 and Potential & Existing Sources of Contamination (Roads and Right-of-Ways)



### Legend

- Other Public Drinking Water Wells
  - ⊕ Class A
  - Class B
  - ⊕ Private Drinking Water Wells
  - ⊕ MOA Well #12
- Zone A Protection Area
  - Red line: Several Months Travel Time
- Zone B Protection Area
  - Yellow line: Less Than 2-Years Travel Time
- Zone C Protection Area
  - Dark Blue line: Less Than 5-Years Travel Time
- Zone D Protection Area
  - Light Blue line: Less Than 10-Years Travel Time
- Buildings
- Roads (X20)
- Streams
- Lakes

1 0 1 Miles

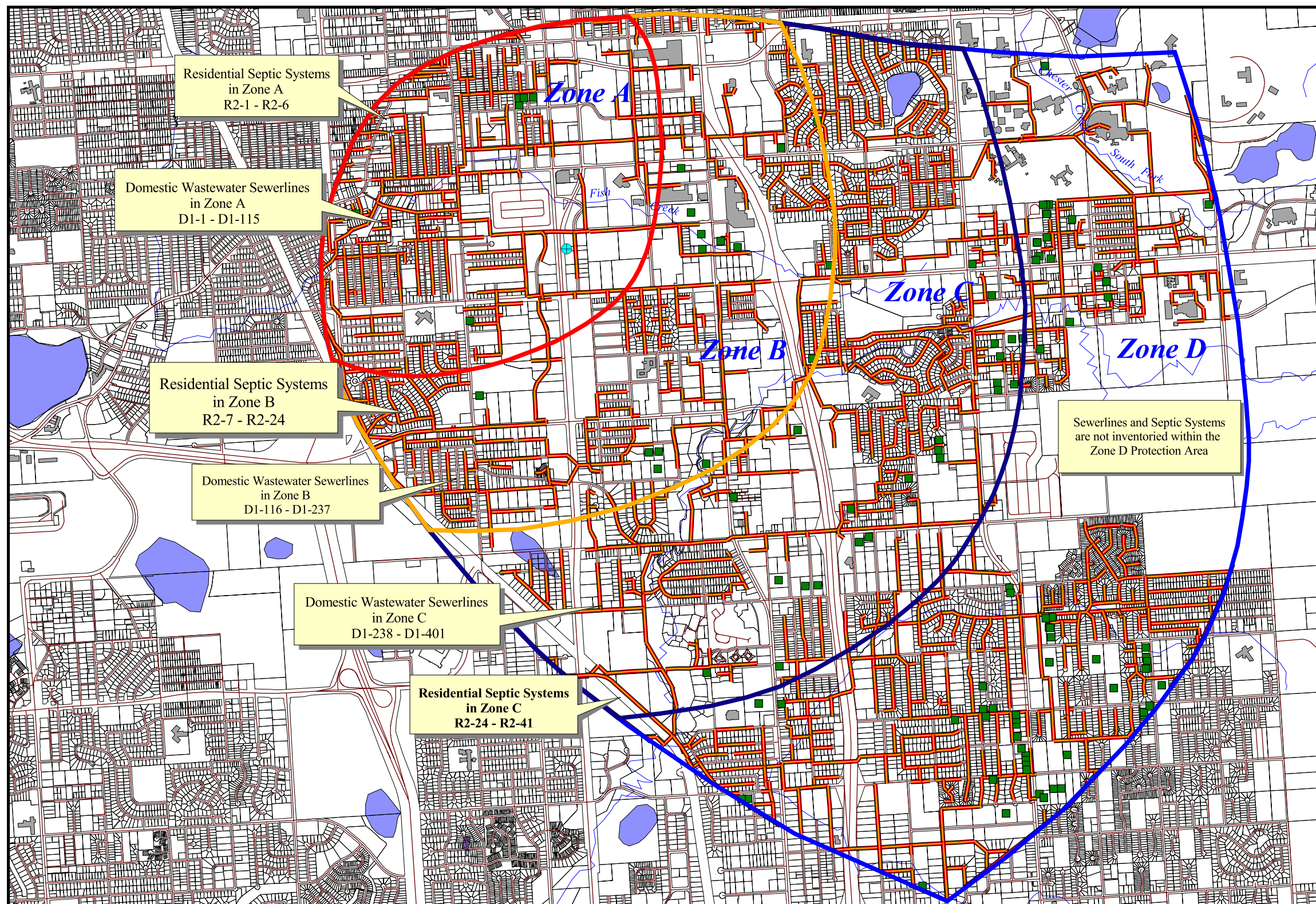
PWSID 210906.003



# Map 4



# Drinking Water Protection Area for MOA Well #12 and Potential & Existing Sources of Contamination (Domestic Wastewater Sewerlines and Residential Septic Systems)



### Legend

- MOA Well #12
- Zone A Protection Area
- Zone B Protection Area
- Zone C Protection Area
- Zone D Protection Area
- Residential Septic Systems (R2)
- Domestic Wastewater Sewerlines (D1)
- Buildings
- Roads (X20)
- MOA Land Parcels
- Streams



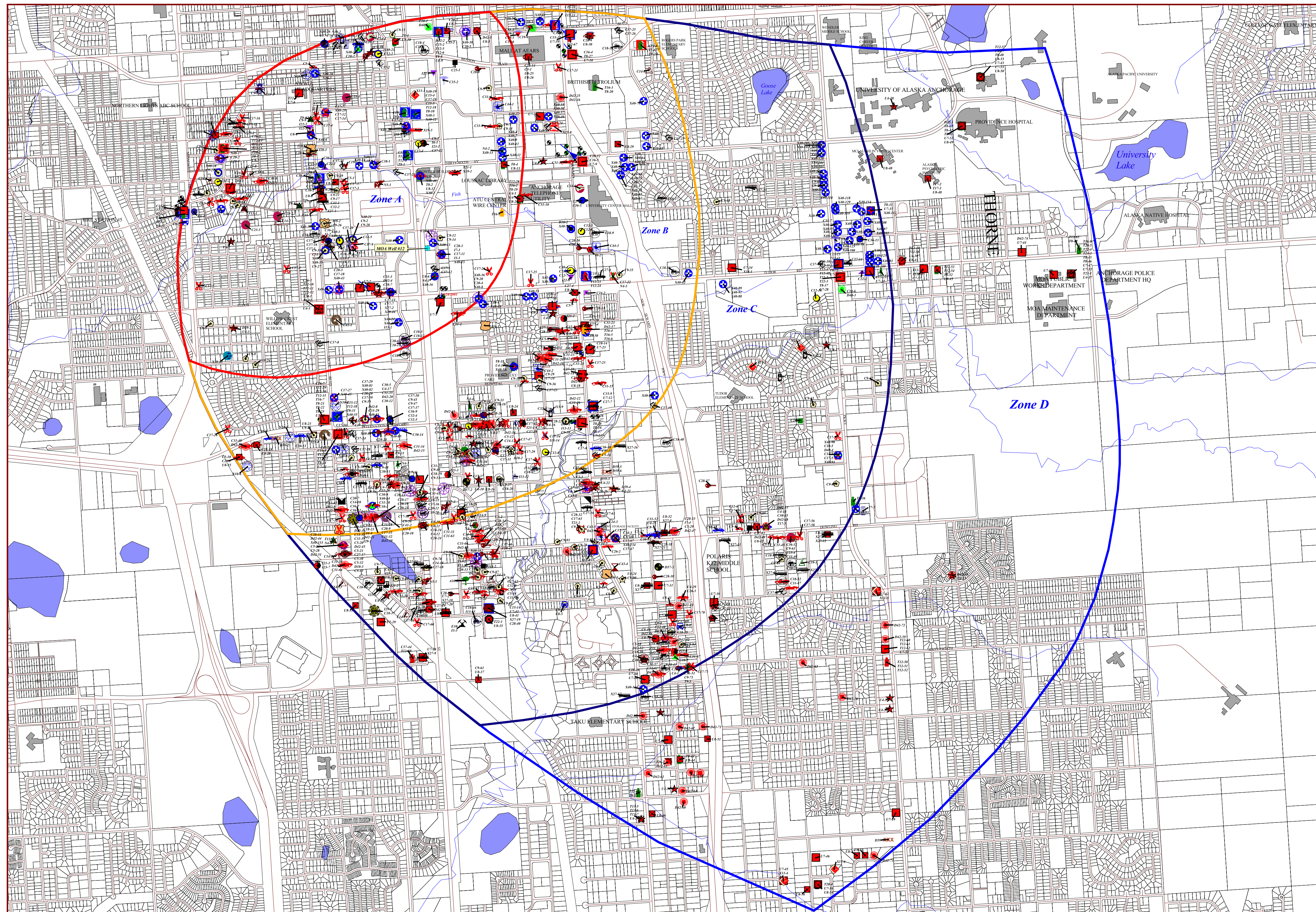
PWSID 210906.003



*Map 5*

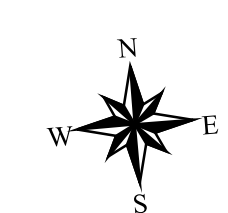


# Drinking Water Protection Area for MOA Well #12 and Potential & Existing Sources of Contamination



## Legend

<ul style="list-style-type: none"> <li><span style="color: green;">■</span> Agricultural chemical sales/storage</li> <li><span style="color: red;">✂</span> Aircraft maintenance shops</li> <li><span style="color: red;">✂</span> Appliance repair shops</li> <li><span style="color: red;">✂</span> Asphalt and tar processing/storage</li> <li><span style="color: red;">✂</span> Battery manufacturing/recycling</li> <li><span style="color: red;">✂</span> Beverage industry</li> <li><span style="color: blue;">✂</span> Boat engine/body repair shops</li> <li><span style="color: blue;">✂</span> Boat yards and marinas</li> <li><span style="color: blue;">✂</span> Body shops (automotive)</li> <li><span style="color: blue;">✂</span> Bowling centers</li> <li><span style="color: blue;">✂</span> Bus maintenance facilities</li> <li><span style="color: blue;">✂</span> Car washes with engine or undercarriage cleaning</li> <li><span style="color: blue;">✂</span> Closed Leaking Underground Fuel Storage Tank (LUST) Site</li> <li><span style="color: blue;">✂</span> Closed Wastewater Holding Tank</li> <li><span style="color: blue;">✂</span> Closed tanks, diesel (underground)</li> <li><span style="color: blue;">✂</span> Closed tanks, gasoline (underground)</li> <li><span style="color: blue;">✂</span> Closed tanks, heating oil, nonresidential (underground)</li> <li><span style="color: blue;">✂</span> Closed tanks, lubricants or other petroleum products (underground)</li> <li><span style="color: blue;">✂</span> Construction trade areas and materials</li> <li><span style="color: blue;">✂</span> Contaminated sites, DEC recognized, non-Superfund, non-RCRA</li> <li><span style="color: blue;">✂</span> Dry cleaners</li> <li><span style="color: blue;">✂</span> Electrical manufacturing</li> <li><span style="color: blue;">✂</span> Firehouses</li> <li><span style="color: blue;">✂</span> Fish hatcheries</li> <li><span style="color: blue;">✂</span> Florists</li> <li><span style="color: blue;">✂</span> Furniture manufacturing, repair, and finishing shops</li> <li><span style="color: blue;">✂</span> Gasoline stations (with repair shop)</li> <li><span style="color: blue;">✂</span> Gasoline stations (without repair shop)</li> <li><span style="color: blue;">✂</span> Government vehicle maintenance facilities</li> <li><span style="color: blue;">✂</span> Hardware stores</li> <li><span style="color: blue;">✂</span> Heavy equipment rental/storage</li> <li><span style="color: blue;">✂</span> Injection wells (Class V) Cooling Water Return Flow Wells</li> <li><span style="color: blue;">✂</span> Injection wells (Class V) Industrial Process Water &amp; Water Disposal Wells</li> <li><span style="color: blue;">✂</span> Injection wells (Class V) Large-Capacity Septic System</li> <li><span style="color: blue;">✂</span> Injection wells (Class V) Motor Vehicle Waste Disposal Well</li> <li><span style="color: blue;">✂</span> Iron and steel manufacturing</li> <li><span style="color: blue;">✂</span> Jewelers</li> <li><span style="color: blue;">✂</span> Jewelry manufacturing</li> <li><span style="color: blue;">✂</span> Laboratories (chemical, soils, and research)</li> <li><span style="color: blue;">✂</span> Laundromats without dry cleaning</li> <li><span style="color: blue;">✂</span> Lawn and garden supplies/services</li> <li><span style="color: blue;">✂</span> Leaking Underground Fuel Storage Tank (LUST) Site</li> <li><span style="color: blue;">✂</span> Leather processing</li> <li><span style="color: blue;">✂</span> Lubrication shops</li> <li><span style="color: blue;">✂</span> Lumber processing and preservation</li> <li><span style="color: blue;">✂</span> Machine and metal work shops</li> <li><span style="color: blue;">✂</span> Meat processing</li> <li><span style="color: blue;">✂</span> Medical/veterinary facilities</li> <li><span style="color: blue;">✂</span> Metal fabrication</li> <li><span style="color: blue;">✂</span> Metal finishing</li> <li><span style="color: blue;">✂</span> Metal refining</li> <li><span style="color: blue;">✂</span> Motor / motor vehicle repair shops</li> <li><span style="color: blue;">✂</span> Motor vehicle dealerships (with service department)</li> <li><span style="color: blue;">✂</span> Motor vehicle dealerships (without service department)</li> <li><span style="color: blue;">✂</span> Motor vehicle rental facilities (with service department)</li> <li><span style="color: blue;">✂</span> Motor vehicle rental facilities (without service department)</li> <li><span style="color: blue;">✂</span> Motor vehicle general storage yards/facilities</li> <li><span style="color: blue;">✂</span> Motor/motor vehicle supplies stores</li> <li><span style="color: blue;">✂</span> Orchards or nurseries</li> <li><span style="color: blue;">✂</span> Organic chemicals manufacturing</li> <li><span style="color: blue;">✂</span> Paint sales /service</li> <li><span style="color: blue;">✂</span> Pest extermination services/pesticide sales</li> <li><span style="color: blue;">✂</span> Pet groomers</li> <li><span style="color: blue;">✂</span> Petroleum product bulk station/terminals</li> <li><span style="color: blue;">✂</span> Pharmacies (with on-site wastewater disposal)</li> <li><span style="color: blue;">✂</span> Photography supplies/photo processing laboratories</li> <li><span style="color: blue;">✂</span> Printers, publishers, copiers</li> <li><span style="color: blue;">✂</span> Quarries (sand, gravel, rock, other?)</li> <li><span style="color: blue;">✂</span> Race tracks (automotive)</li> <li><span style="color: blue;">✂</span> Recycling and waste reduction facilities</li> <li><span style="color: blue;">✂</span> Rubber fabrication or manufacturing</li> <li><span style="color: blue;">✂</span> Scrap, salvage, or junk yards</li> <li><span style="color: blue;">✂</span> Seafood processing</li> <li><span style="color: blue;">✂</span> Septic tank cleaning and servicing</li> <li><span style="color: blue;">✂</span> Sign manufacturing</li> <li><span style="color: blue;">✂</span> Soil borings</li> <li><span style="color: blue;">✂</span> Stone and clay processing/manufacturing</li> <li><span style="color: blue;">✂</span> Tanks, diesel (underground)</li> <li><span style="color: blue;">✂</span> Tanks, gasoline (underground)</li> <li><span style="color: blue;">✂</span> Tanks, heating oil, nonresidential (underground)</li> <li><span style="color: blue;">✂</span> Tanks, lubricants or other petroleum products (underground)</li> <li><span style="color: blue;">✂</span> Taxidermists</li> <li><span style="color: blue;">✂</span> Textile manufacturing</li> <li><span style="color: blue;">✂</span> Vocational training facilities</li> <li><span style="color: blue;">✂</span> Wastewater Holding Tank</li> <li><span style="color: blue;">✂</span> Welding shops</li> <li><span style="color: blue;">✂</span> Windshield/glass repair shops</li> </ul>	<ul style="list-style-type: none"> <li><span style="color: blue;">●</span> MOA Well #12</li> <li><span style="color: red;">■</span> Several Months Travel Time</li> <li><span style="color: orange;">■</span> Zone B Protection Area</li> <li><span style="color: yellow;">■</span> Low Than 2-Years Travel Time</li> <li><span style="color: blue;">■</span> Zone C Protection Area</li> <li><span style="color: blue;">■</span> Low Than 5-Years Travel Time</li> <li><span style="color: blue;">■</span> Zone D Protection Area</li> <li><span style="color: blue;">■</span> Low Than 10-Years Travel Time</li> <li><span style="color: blue;">■</span> Unidentified aquifer</li> <li><span style="color: blue;">■</span> Groundwater Flow Direction</li> <li><span style="color: blue;">■</span> No Direct</li> <li><span style="color: blue;">■</span> 0.001 - 1 ppm benzene</li> <li><span style="color: blue;">■</span> 1.001 - 5 ppm benzene</li> <li><span style="color: blue;">■</span> 5.001 - 10 ppm benzene</li> <li><span style="color: blue;">■</span> 10.001 - 50 ppm benzene</li> <li><span style="color: blue;">■</span> Buildings</li> <li><span style="color: blue;">■</span> MOA Land Parcels</li> </ul>
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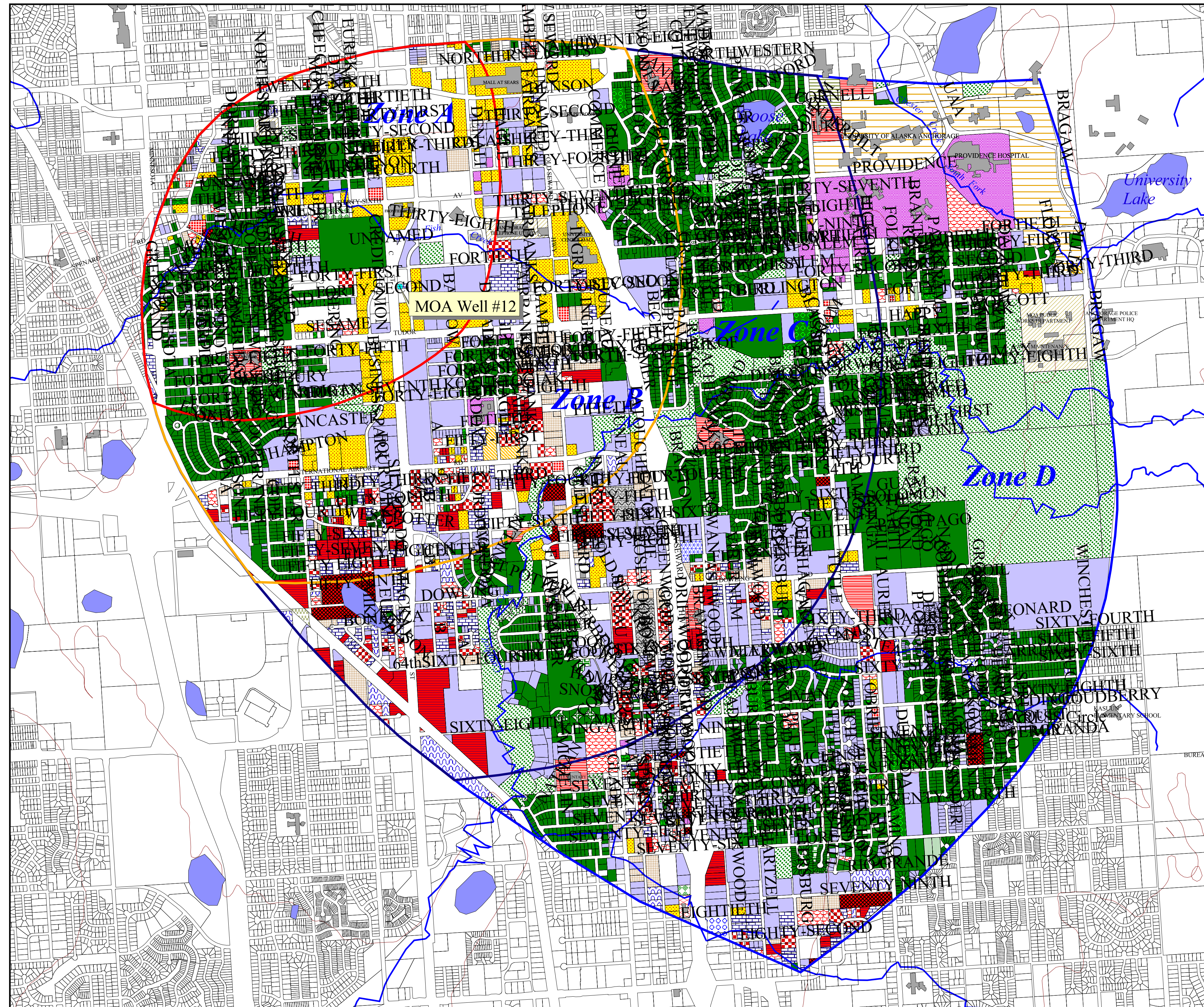


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Plate 1



# Drinking Water Protection Area for MOA Well #12 and Land Use

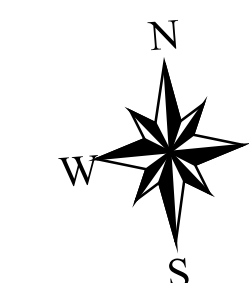


## Legend

- MOA Well #12
- Buildings
- Zone A Protection Area
- ▭ Several Months Travel Time
- Zone B Protection Area
- ▭ Less Than 2-Years Travel Time
- Zone C Protection Area
- ▭ Less Than 5-Years Travel Time
- Zone D Protection Area
- ▭ Less Than 10-Years Travel Time
- ▭ MOA Land Parcels
- ▬ Streams
- ▭ Elevation Contours
- Land Use
- ▭ Bulk Products and Outdoor Storage
- ▭ Construction trade areas and materials
- ▭ Gasoline stations
- ▭ General Manufacturing and Processing
- ▭ Lawn and garden supplies/services
- ▭ Medical/veterinary facilities
- ▭ Mixed Industria/Residential
- ▭ Motor /motor vehicle repair shops
- ▭ Motor vehicle/general storage facilities
- ▭ Municipal Fire Protection
- ▭ Municipal Government
- ▭ Municipal Police
- ▭ Municipal or city parks (with green areas)
- ▭ Natural Gas Utility Related
- ▭ Other Public Schools
- ▭ Other commercial areas
- ▭ Other green areas
- ▭ Other industrial activities
- ▭ Outdoor Commercial Recreation
- ▭ Private College or University
- ▭ Public College or University
- ▭ Public Elementary School
- ▭ Public Jr. High School
- ▭ Rail corridors
- ▭ Residential areas
- ▭ Scrap, salvage, or junk yards
- ▭ Snow disposal areas
- ▭ Solid Waste Utility related
- ▭ Storm water basins and overflows
- ▭ Vacant Land
- ▭ Warehousing, Wholesale Distribution



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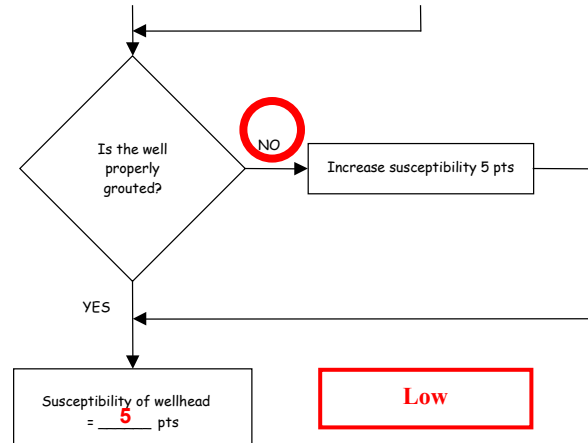
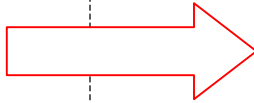
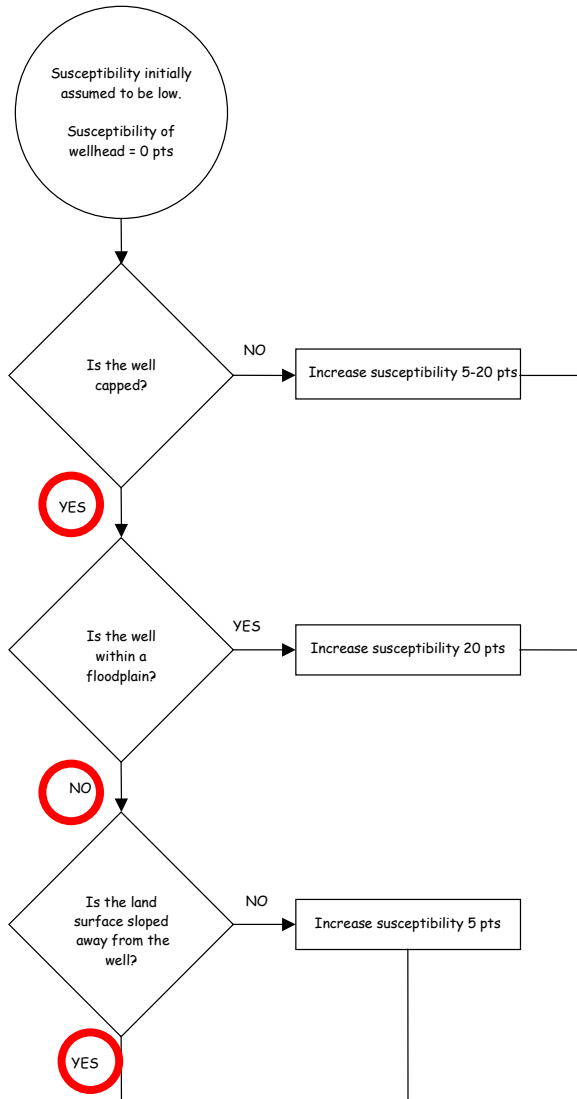
*Plate 2*



## **APPENDIX D**

### **Vulnerability Analysis for MOA Well #12 Public Drinking Water Source**

**Chart 1. Susceptibility of the wellhead – MOA Well #12**



<u>Wellhead Susceptibility Ratings</u>	
20 to 25 pts	very high
15 to < 20 pts	high
10 to < 15 pts	medium
< 10	low

Chart 2. Susceptibility of the aquifer – MOA Well #12

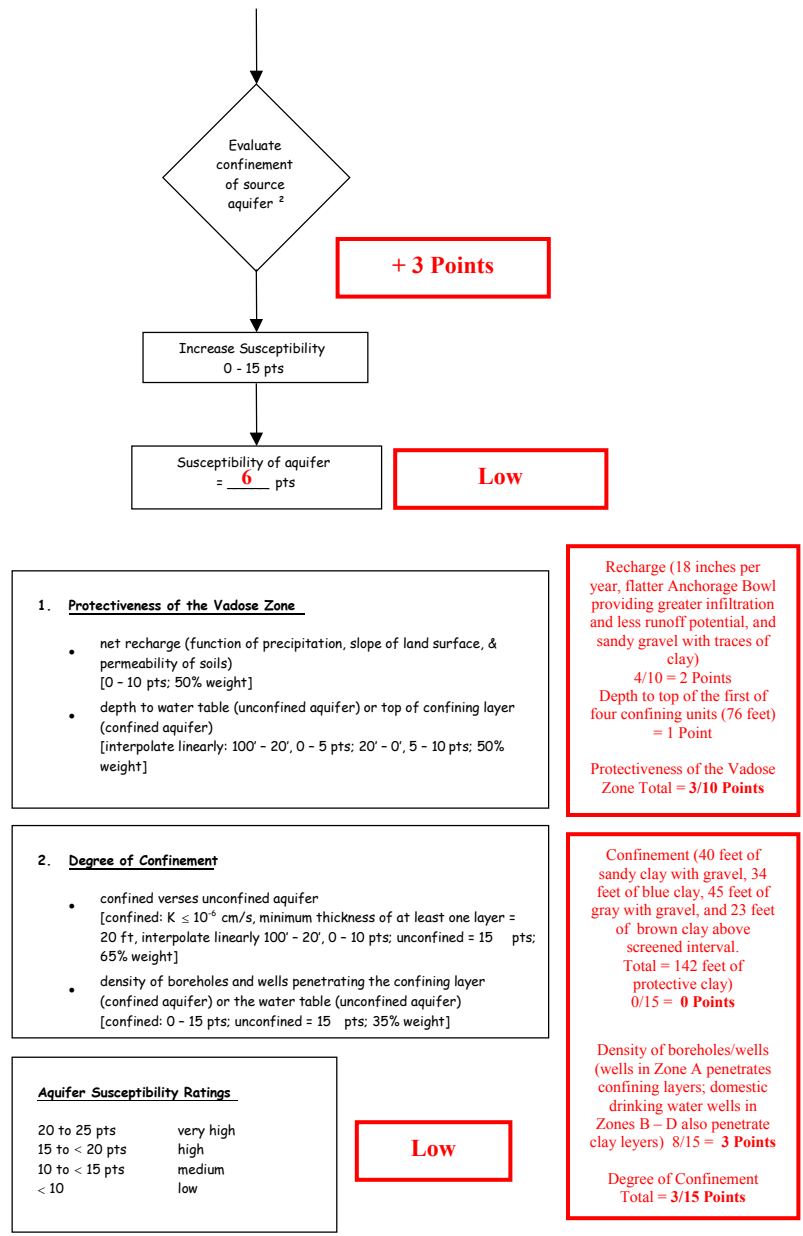
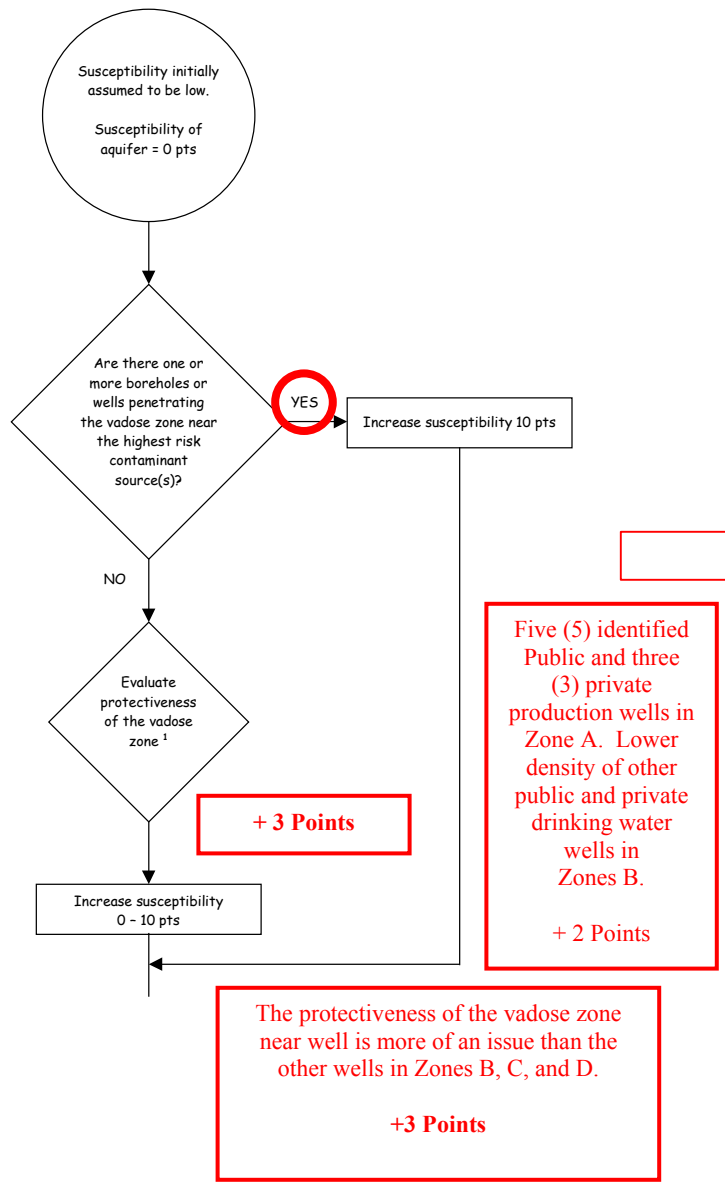


Chart 3. Contaminant risks for MOA Well #12 – Bacteria & Viruses

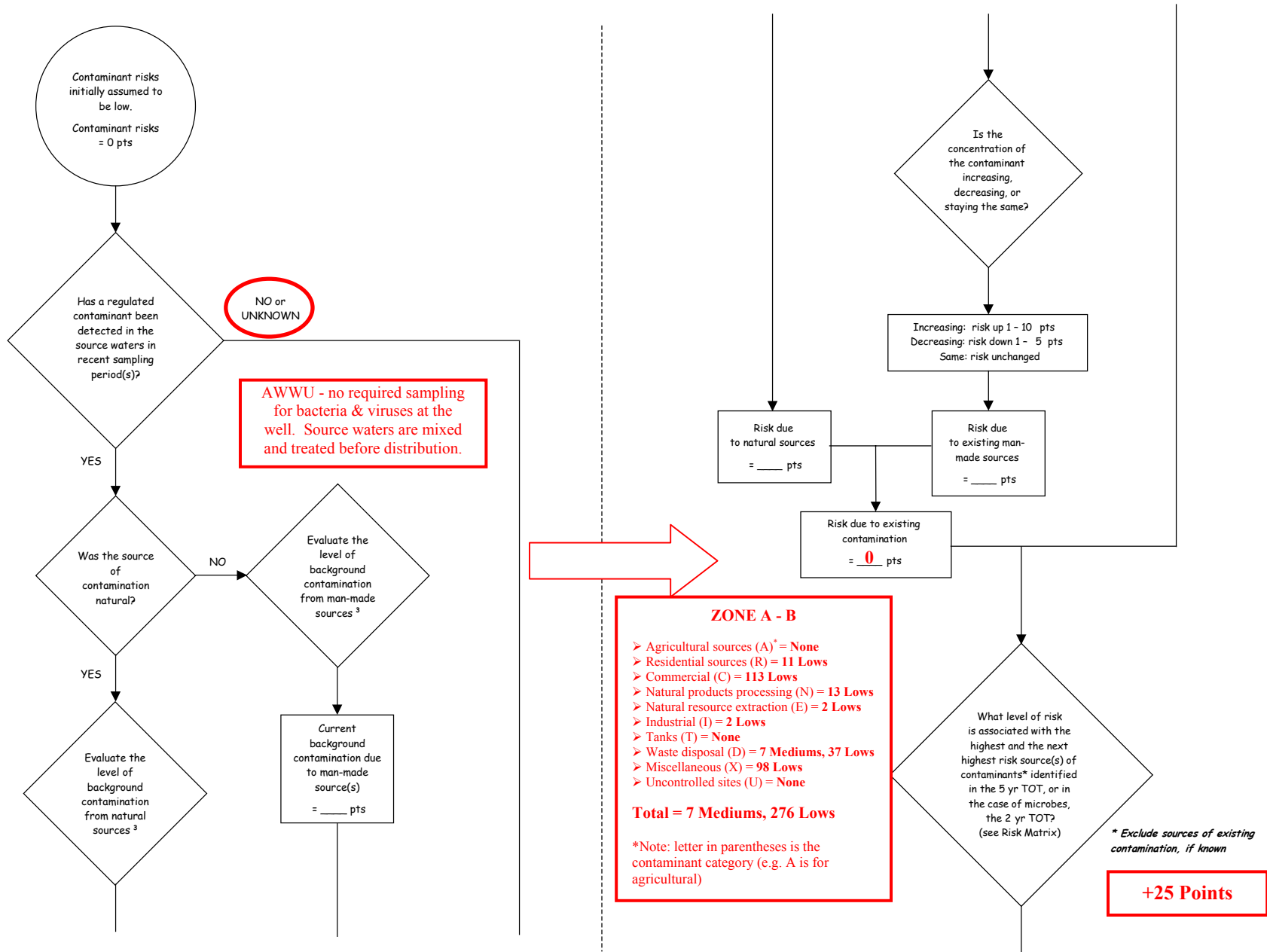


Chart 3. Contaminant risks for MOA Well #12– Bacteria & Viruses (Continued)

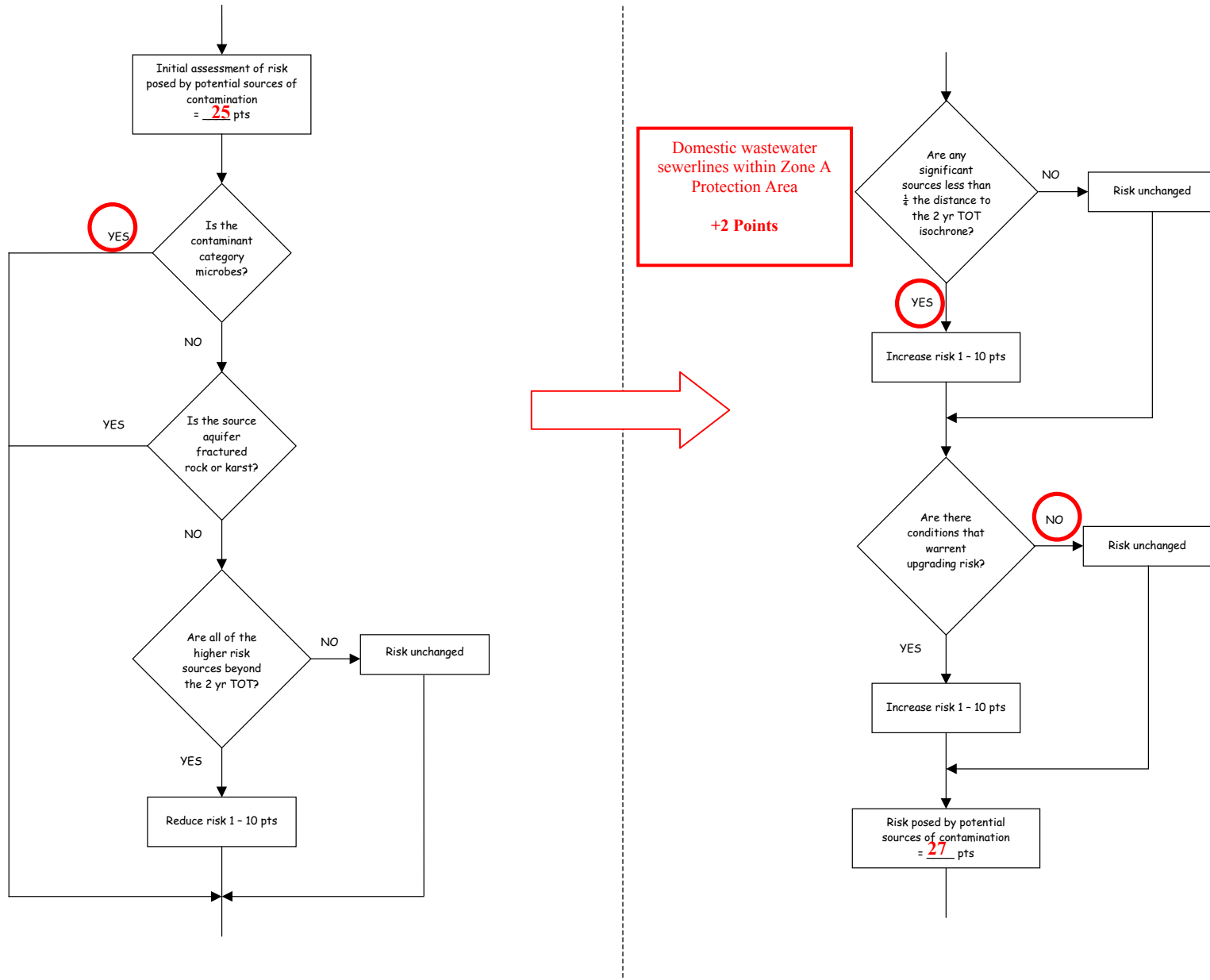
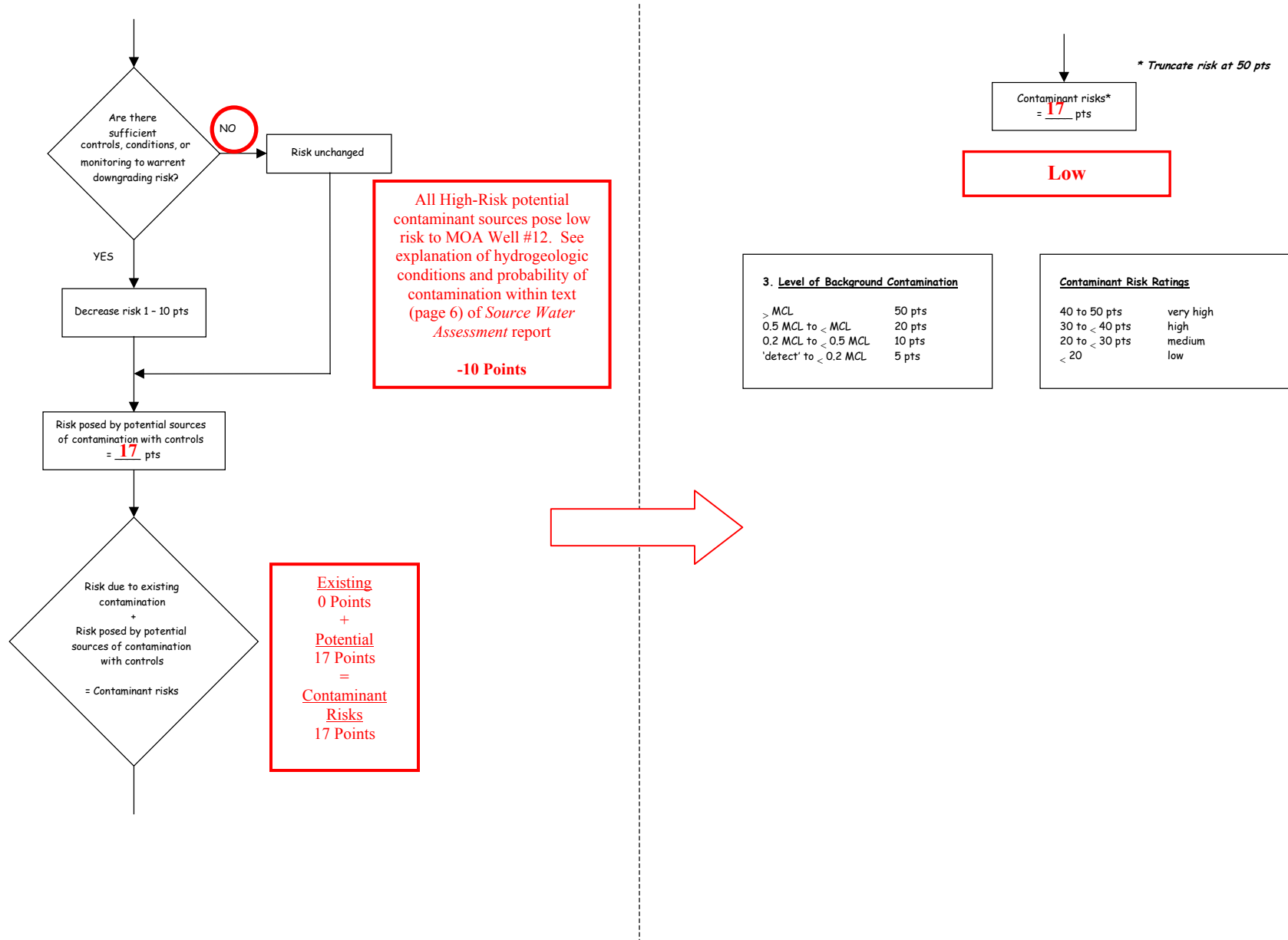




Chart 3. Contaminant risks for MOA Well #12– Bacteria & Viruses (Continued)



**Table 1. Risk Matrix for Contaminant Sources for MOA Well #12– Bacteria & Viruses**

**Level of Risk Associated with the Highest Risk Sources**

<b>Next Highest Risk Sources(s)</b>	<b>7 Mediums, 276 Lows</b>	<b>LOW 10 pts</b>	<b>MEDIUM 20 pts</b>	<b>HIGH 30 pts</b>	<b>VERY HIGH 40 pts</b>
	<b>Low</b>	≥ 10 sources + 10 pts	≥ 10 sources + 5 pts	≥ 20 sources + 5 pts	—
	<b>Medium</b>	—	≥ 2 sources + 5 pts	≥ 5 sources + 5 pts	≥ 10 sources + 5 pts
	<b>High</b>	—	—	1 source + 10 pts	≥ 2 sources + 10 pts
	<b>Very High</b>	—	—	—	1 source + 10 pts

**Chart 4. Vulnerability analysis for MOA Well #12 – Bacteria & Viruses**

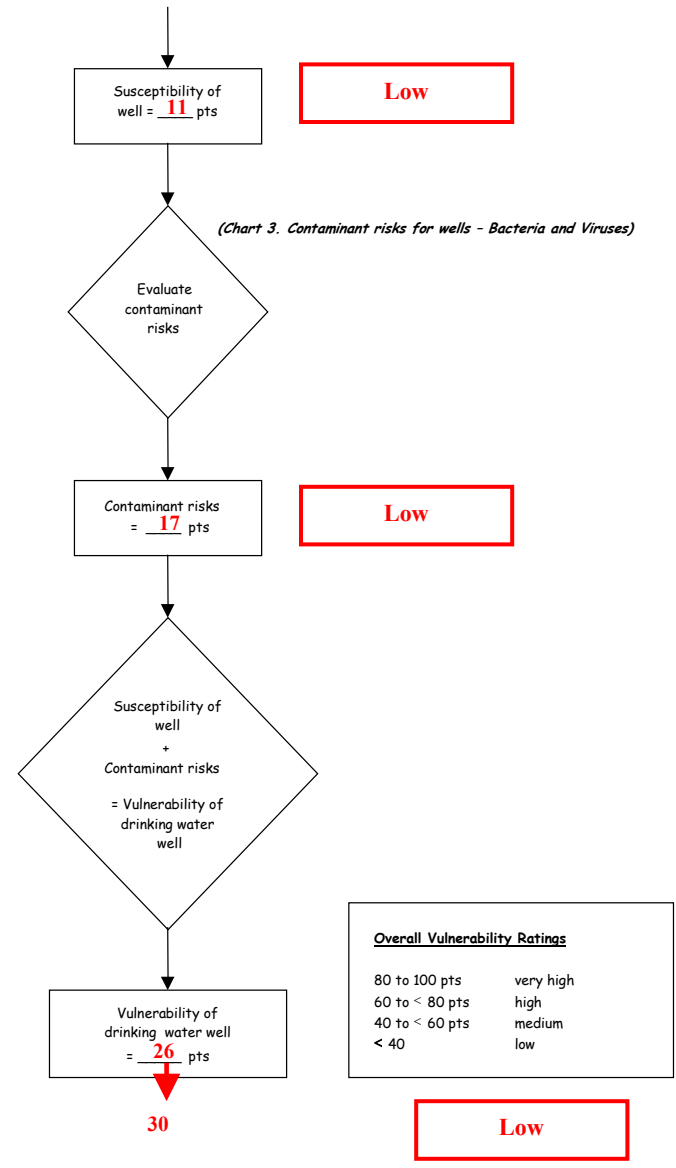
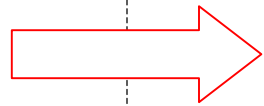
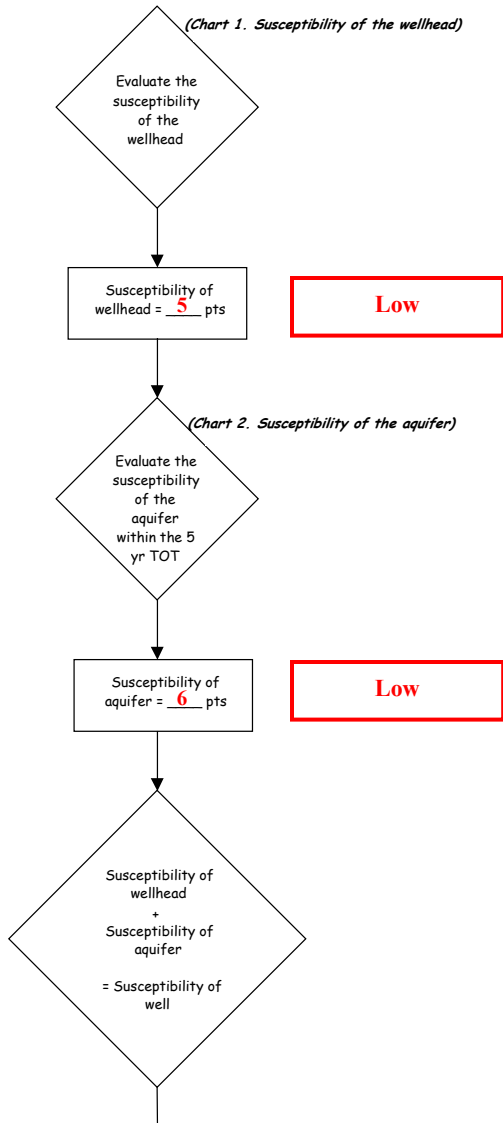


Chart 5. Contaminant risks for MOA Well #12 – Nitrates & Nitrites

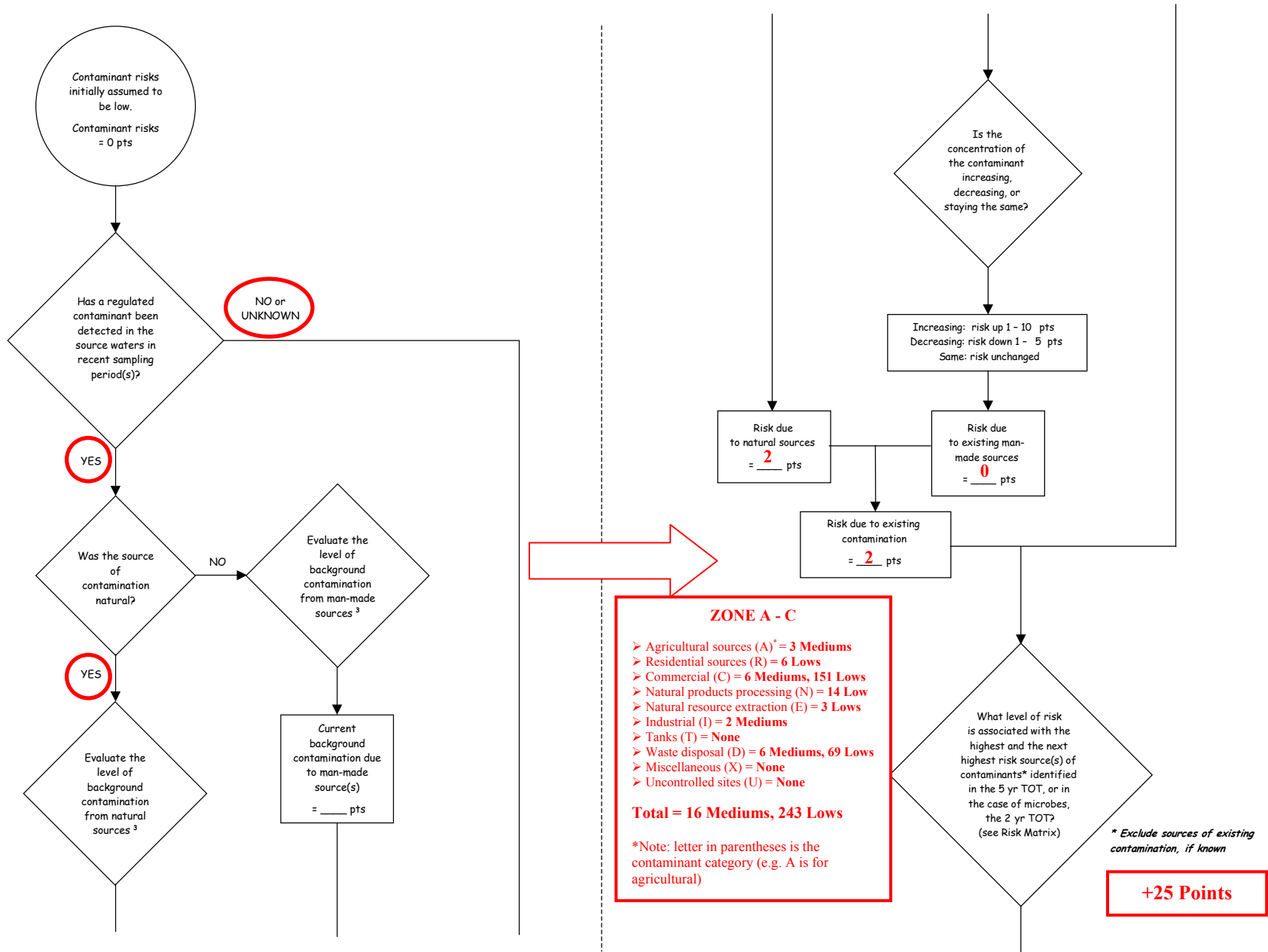


Chart 5. Contaminant risks for MOA Well #12– Nitrates & Nitrites (Continued)

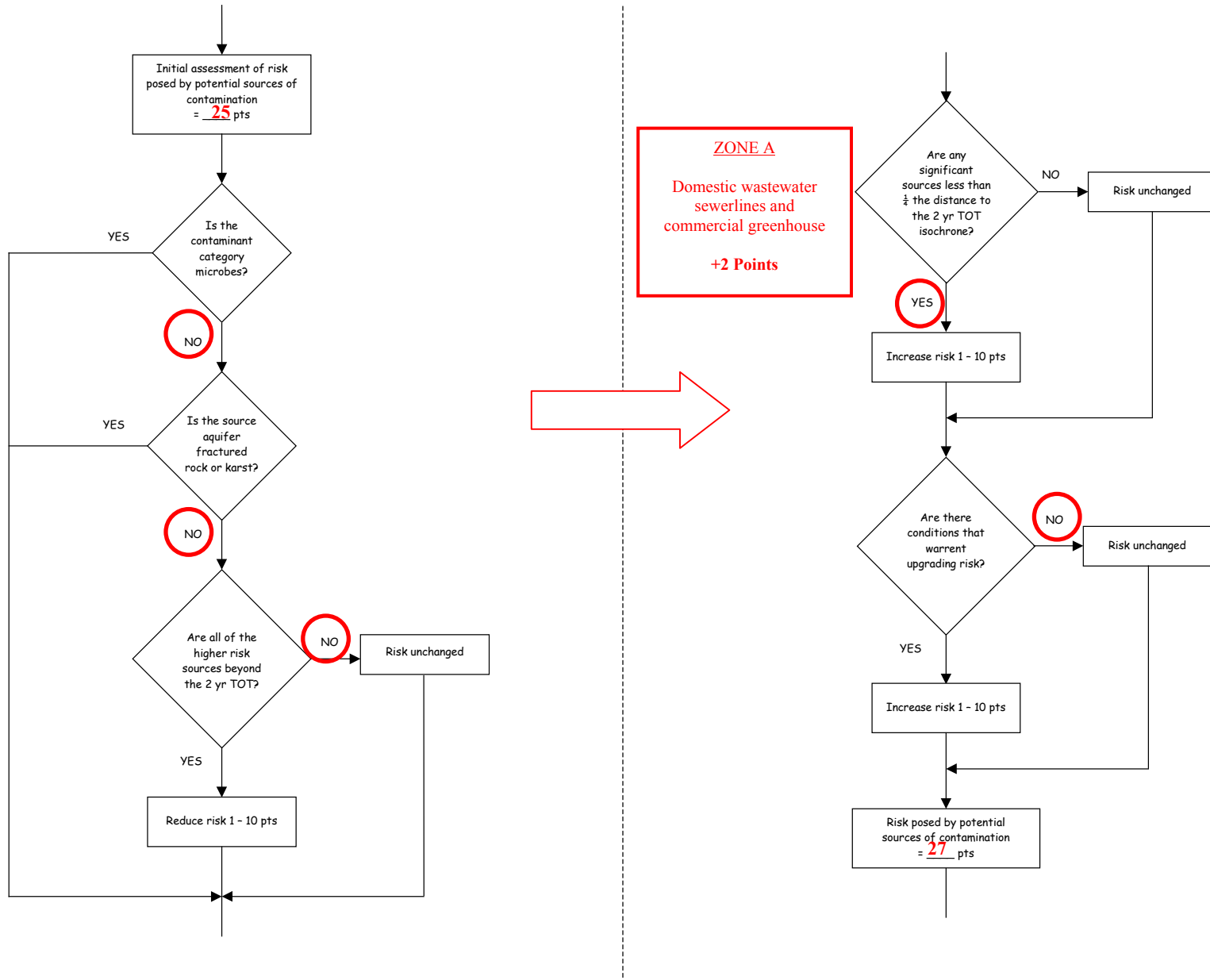
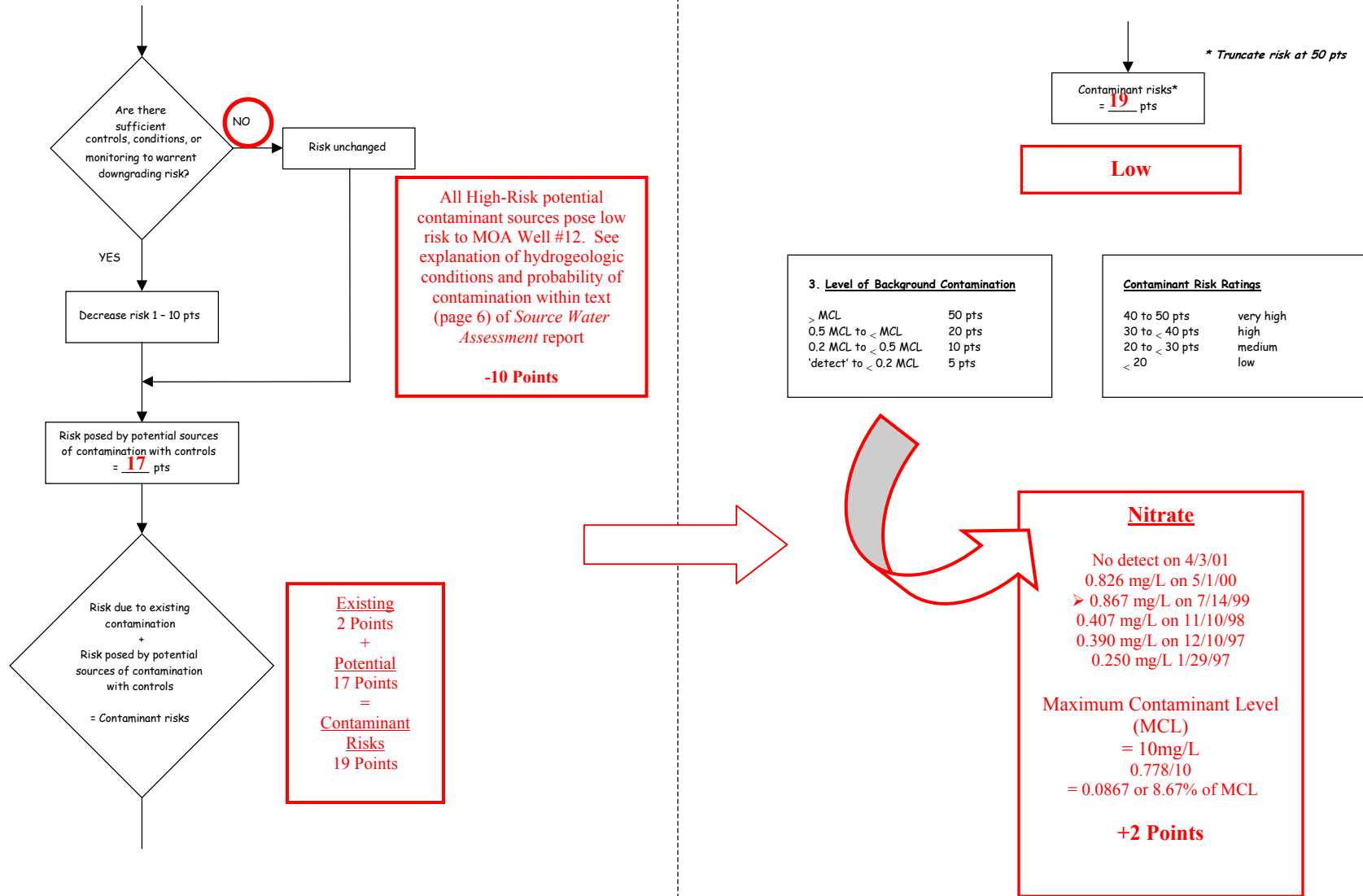


Chart 5. Contaminant risks for MOA Well #12 – Nitrates & Nitrites (Continued)

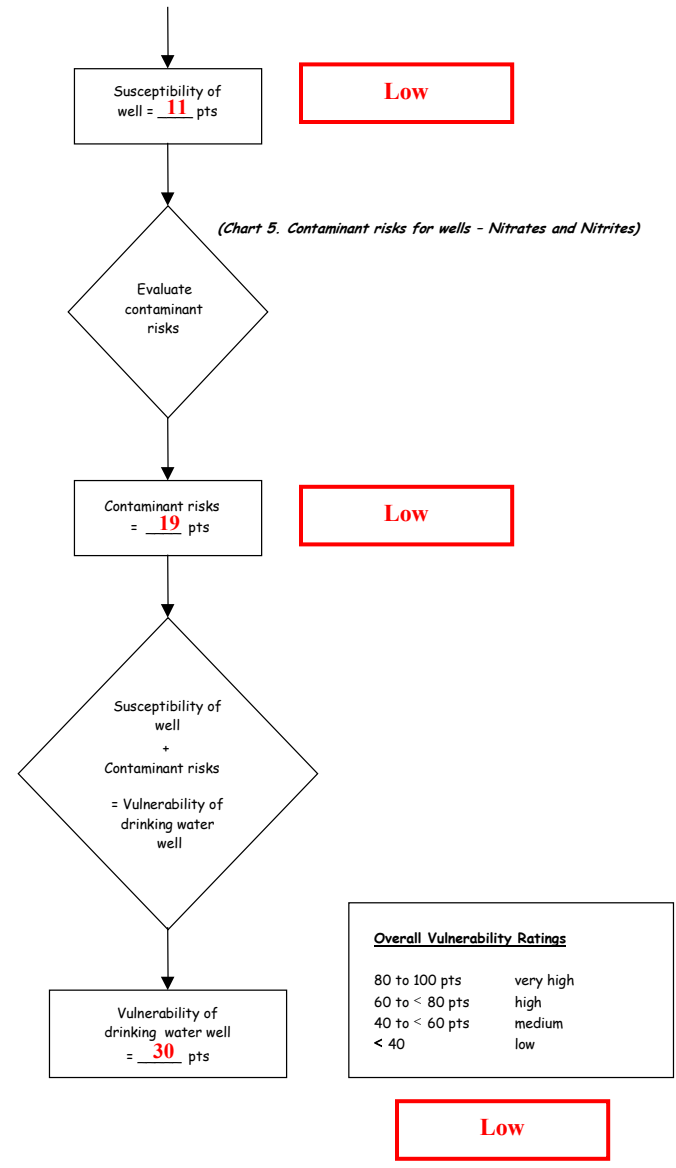
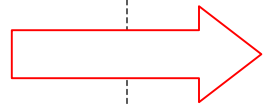
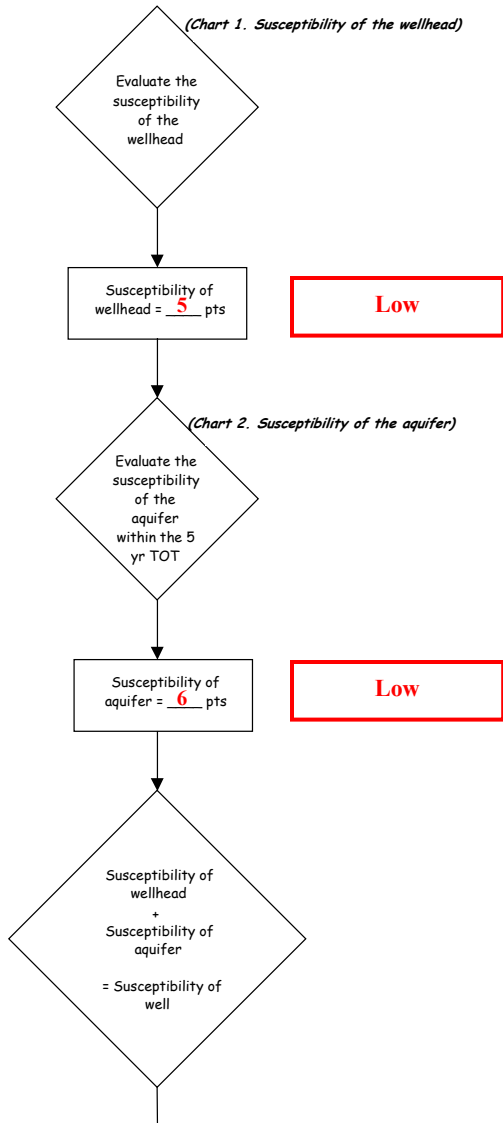


**Table 2. Risk Matrix for Contaminant Sources for MOA Well #12– Nitrates & Nitrites**

**Level of Risk Associated with the Highest Risk Sources**

<b>Next Highest Risk Sources(s)</b>	<b>16 Mediums, 243 Lows</b>	<b>LOW 10 pts</b>	<b>MEDIUM 20 pts</b>	<b>HIGH 30 pts</b>	<b>VERY HIGH 40 pts</b>
	<b>Low</b>	≥ 10 sources + 10 pts	≥ 10 sources + 5 pts	≥ 20 sources + 5 pts	—
	<b>Medium</b>	—	≥ 2 sources + 5 pts	≥ 5 sources + 5 pts	≥ 10 sources + 5 pts
	<b>High</b>	—	—	1 source + 10 pts	≥ 2 sources + 10 pts
	<b>Very High</b>	—	—	—	1 source + 10 pts

**Chart 6. Vulnerability analysis for MOA Well #12– Nitrates and Nitrites**





**Chart 7. Contaminant risks for MOA Well #12 – Volatile Organic Chemicals**

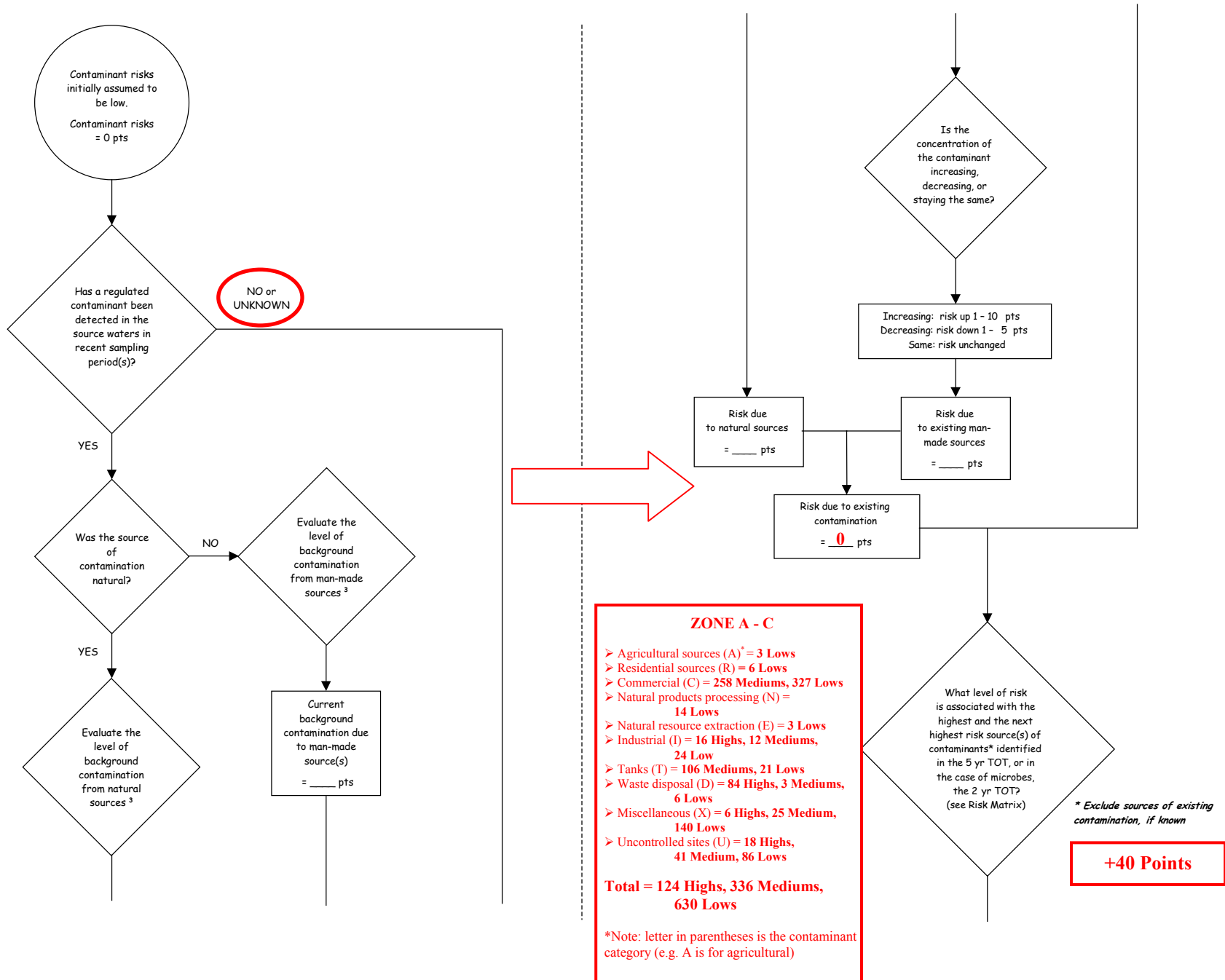


Chart 7. Contaminant risks for MOA Well #12– Volatile Organic Chemicals (Continued)

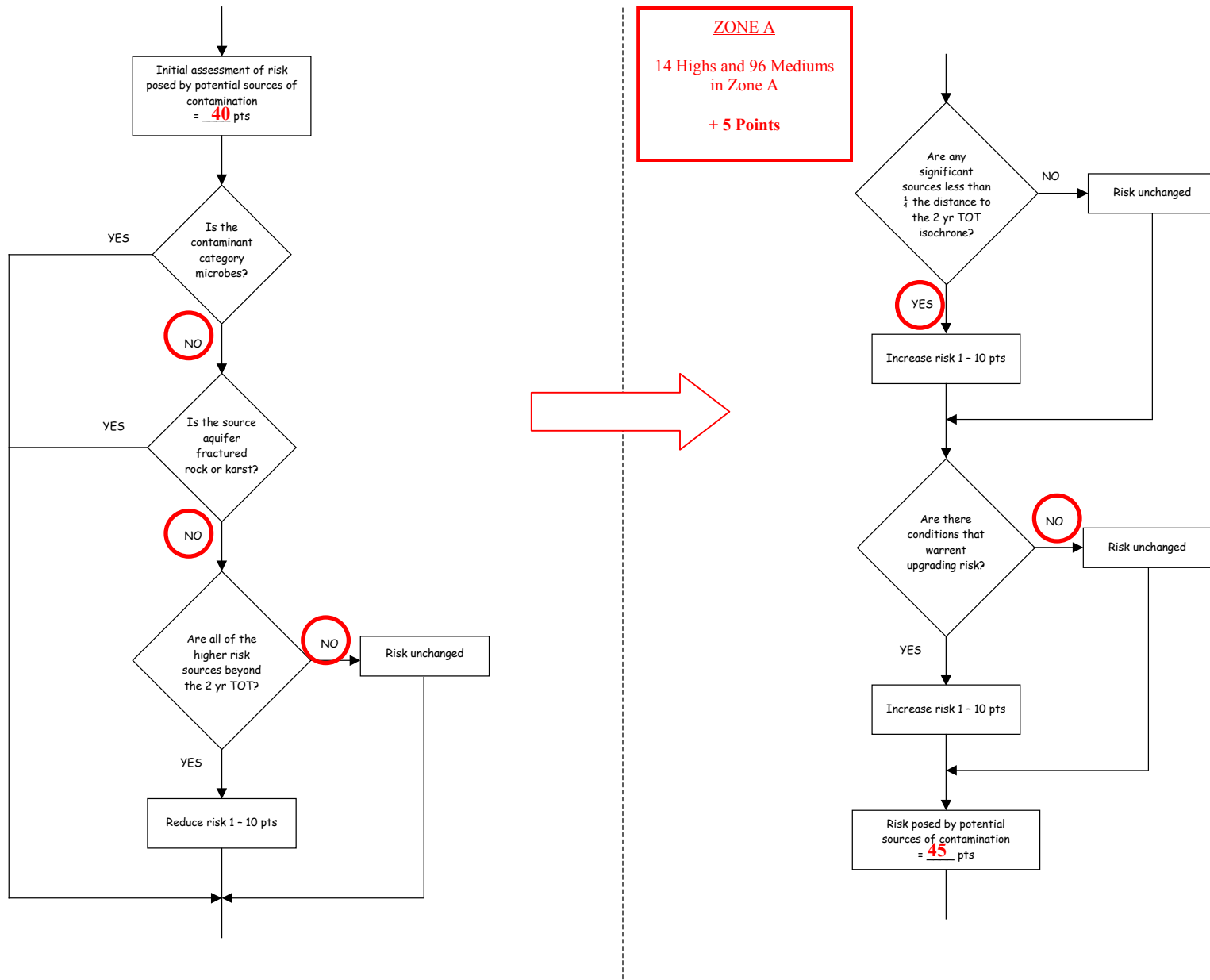
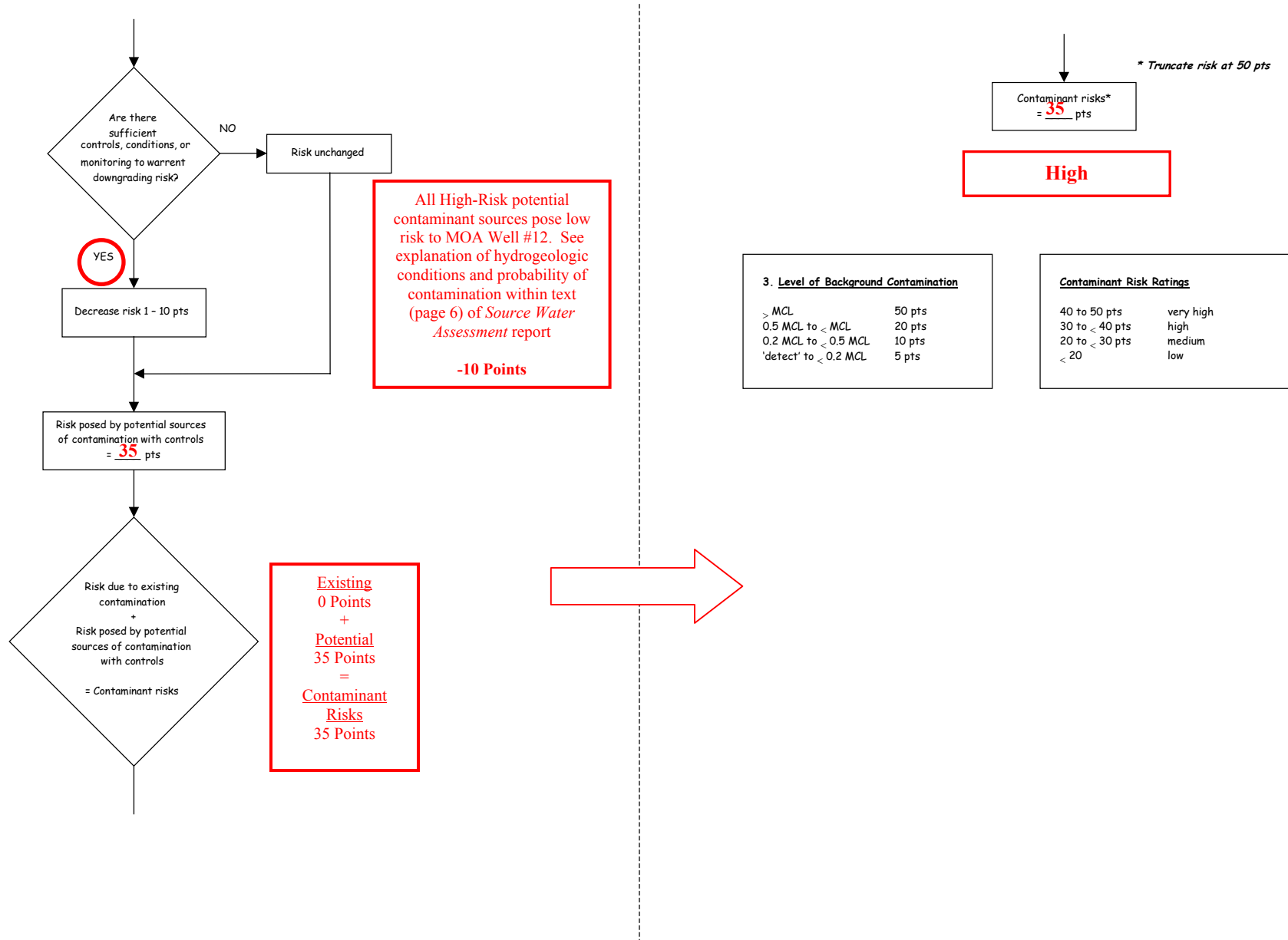


Chart 7. Contaminant risks for MOA Well #12– Volatile Organic Chemicals (Continued)

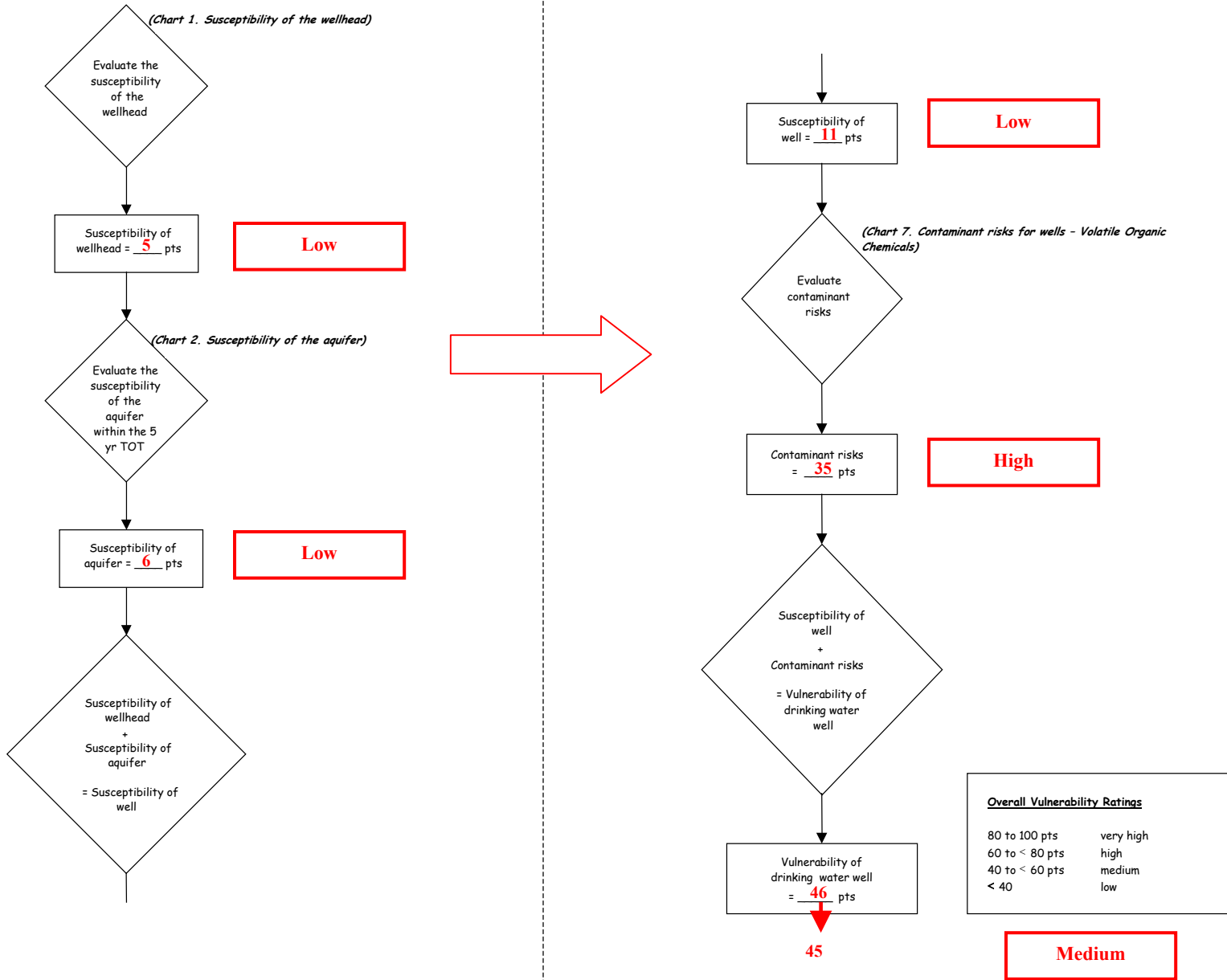


**Table 3. Risk Matrix for Contaminant Sources for MOA Well #12– Volatile Organic Chemicals**

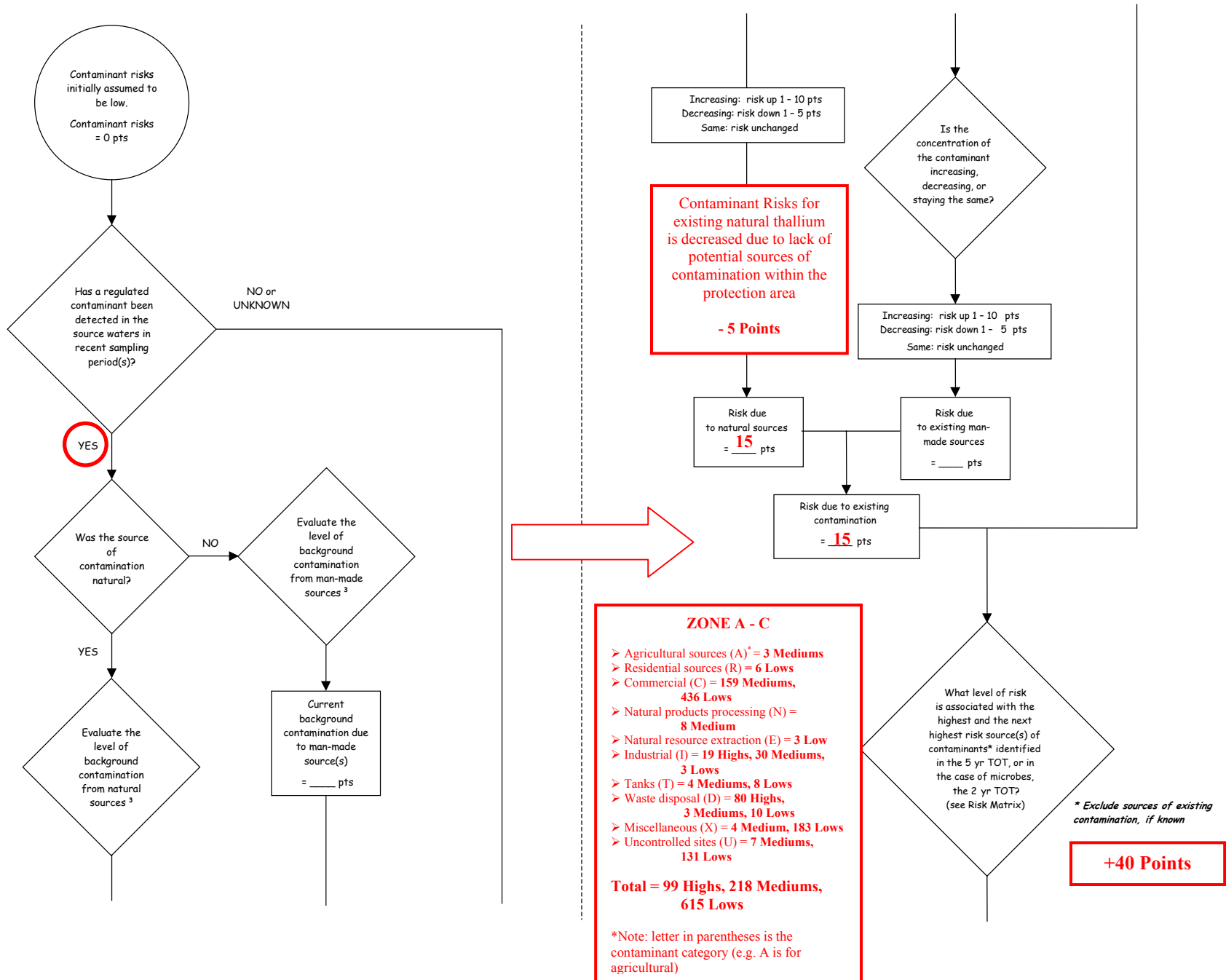
**Level of Risk Associated with the Highest Risk Sources**

<b>Next Highest Risk Sources(s)</b>	Total for Zones A – C = 124 Highs, 336 Mediums, 630 Lows	<b>LOW 10 pts</b>	<b>MEDIUM 20 pts</b>	<b>HIGH 30 pts</b>	<b>VERY HIGH 40 pts</b>
	<b>Low</b>	≥ 10 sources + 10 pts	≥ 10 sources + 5 pts	≥ 20 sources + 5 pts	—
	<b>Medium</b>	—	≥ 2 sources + 5 pts	≥ 5 sources + 5 pts	≥ 10 sources + 5 pts
	<b>High</b>	—	—	>1 source + 10 pts	≥ 2 sources + 10 pts
	<b>Very High</b>	—	—	—	>1 source + 10 pts

**Chart 8. Vulnerability analysis for MOA Well #12 – Volatile Organic Chemicals**



**Chart 9. Contaminant risks for MOA Well #12– Heavy Metals, Cyanide, and other Inorganic Chemicals**



**Chart 10. Vulnerability analysis for MOA Well #12 – Heavy Metals, Cyanide, and other Inorganic Chemicals**

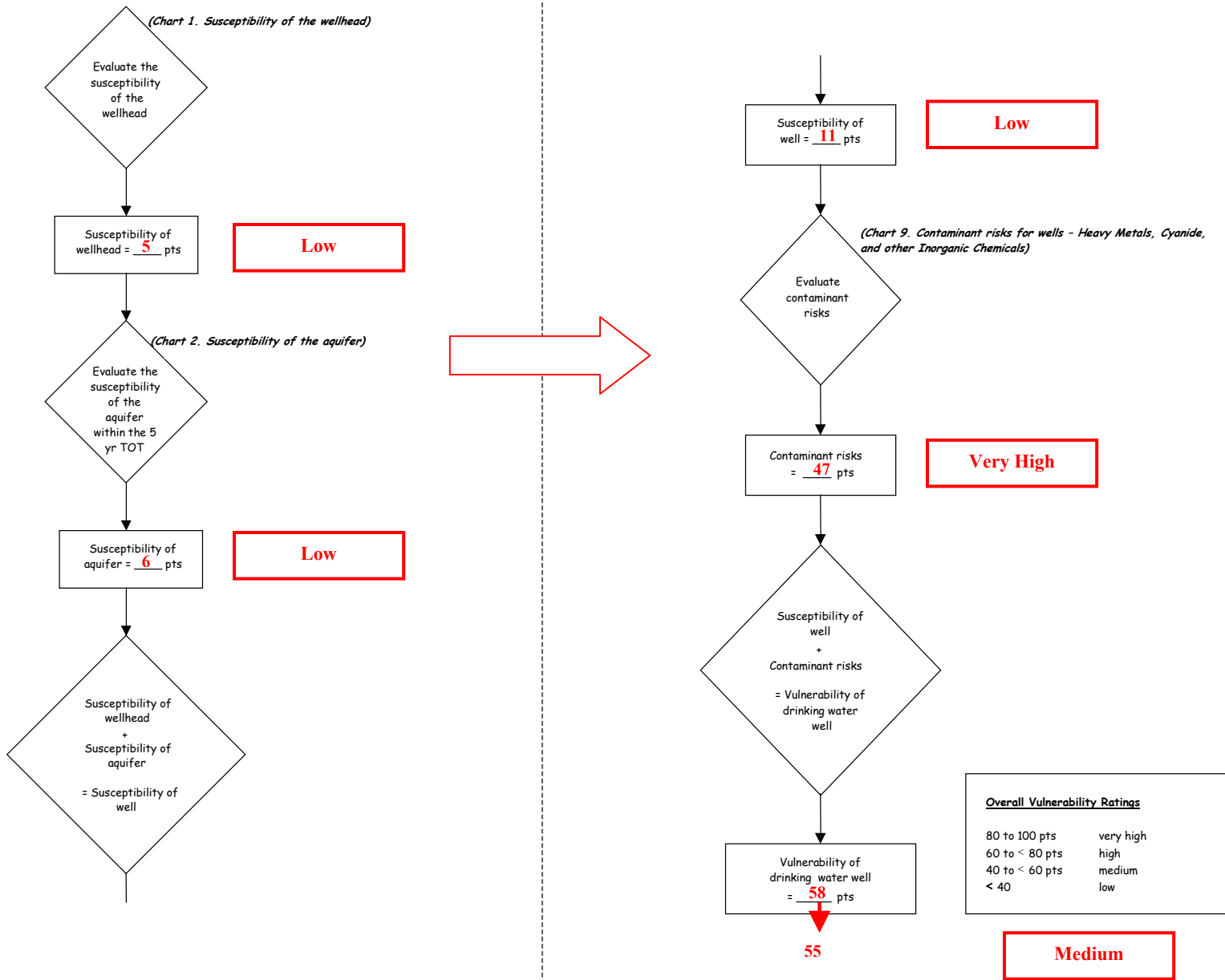


Chart 9. Contaminant risks for MOA Well #12– Heavy Metals, Cyanide, and other Inorganic Chemicals (Continued)

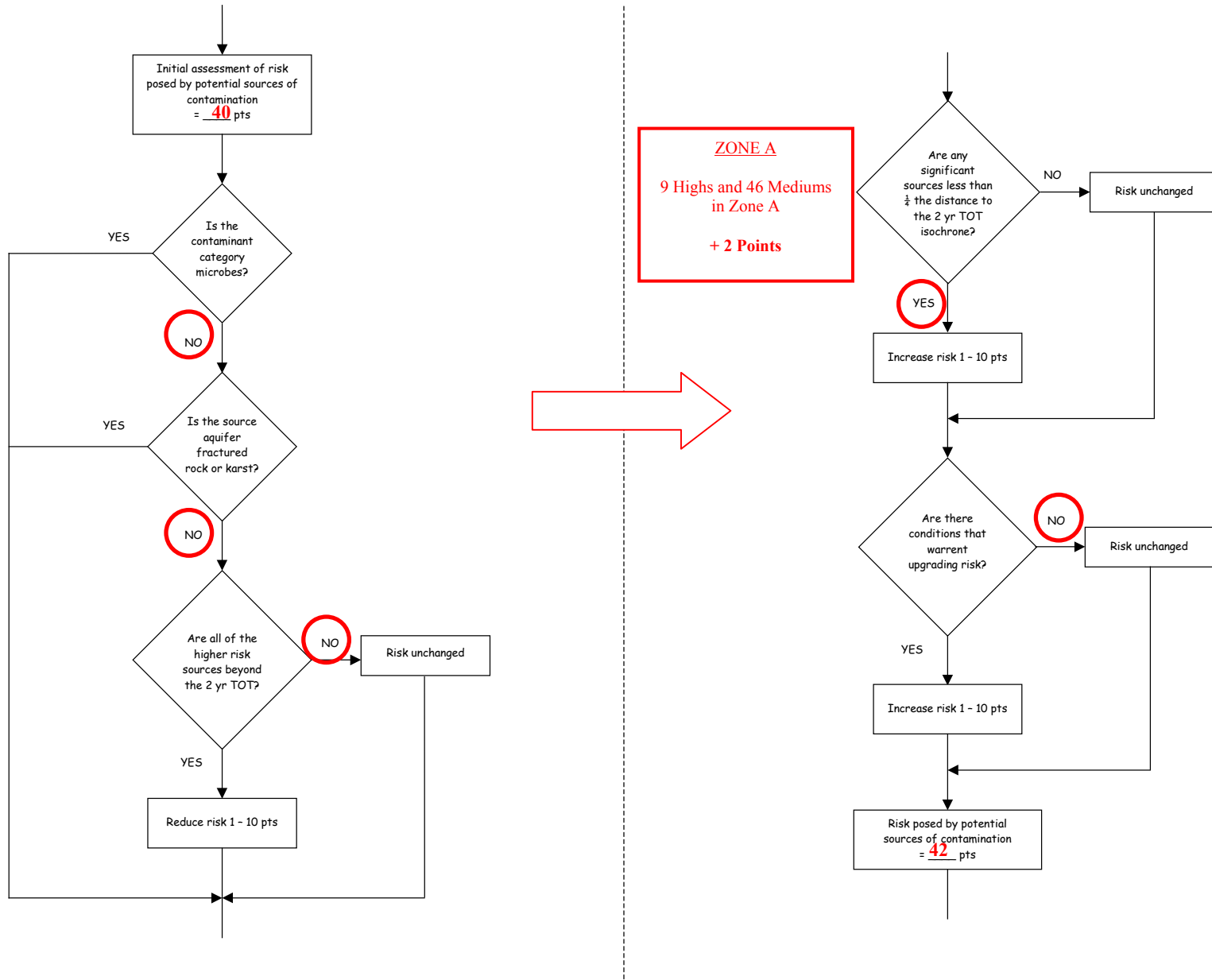
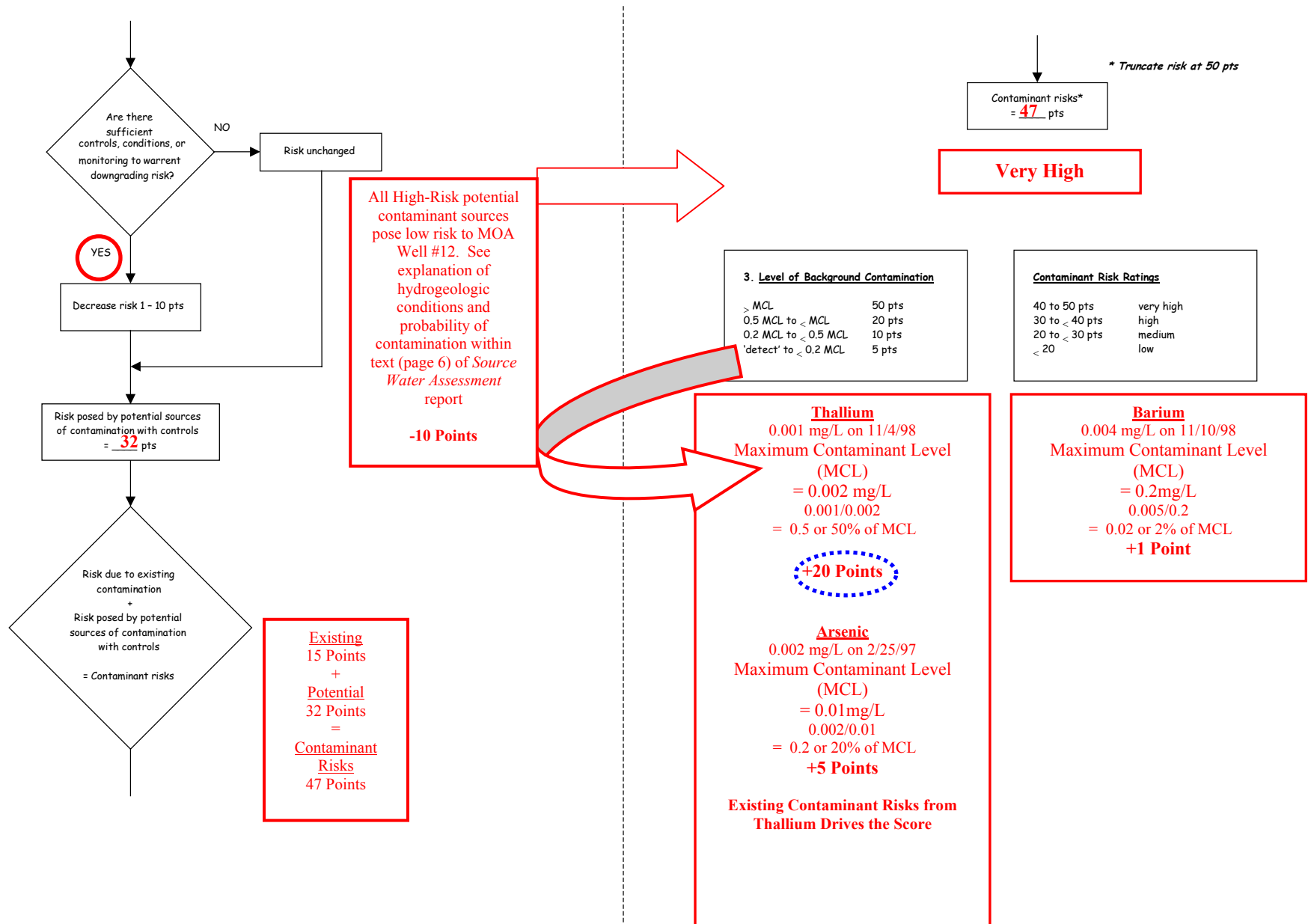




Chart 9. Contaminant risks for MOA Well #12– Heavy Metals, Cyanide, and other Inorganic Chemicals (Continued)



**Table 4. Risk Matrix for Contaminant Sources for MOA Well #12– Heavy Metals, Cyanide, and other Inorganic Chemicals**

**Level of Risk Associated with the Highest Risk Sources**

<b>Next Highest Risk Sources(s)</b>	<b>99 Highs, 218 Mediums, 615 Lows</b>	<b>LOW 10 pts</b>	<b>MEDIUM 20 pts</b>	<b>HIGH 30 pts</b>	<b>VERY HIGH 40 pts</b>
	<b>Low</b>	≥ 10 sources + 10 pts	≥ 10 sources + 5 pts	≥ 20 sources + 5 pts	—
	<b>Medium</b>	—	≥ 2 sources + 5 pts	≥ 5 sources + 5 pts	≥ 10 sources + 5 pts
	<b>High</b>	—	—	>1 source + 10 pts	≥ 2 sources + 10 pts
	<b>Very High</b>	—	—	—	>1 source + 10 pts

Chart 11. Contaminant risks for MOA Well #12– Synthetic Organic Chemicals

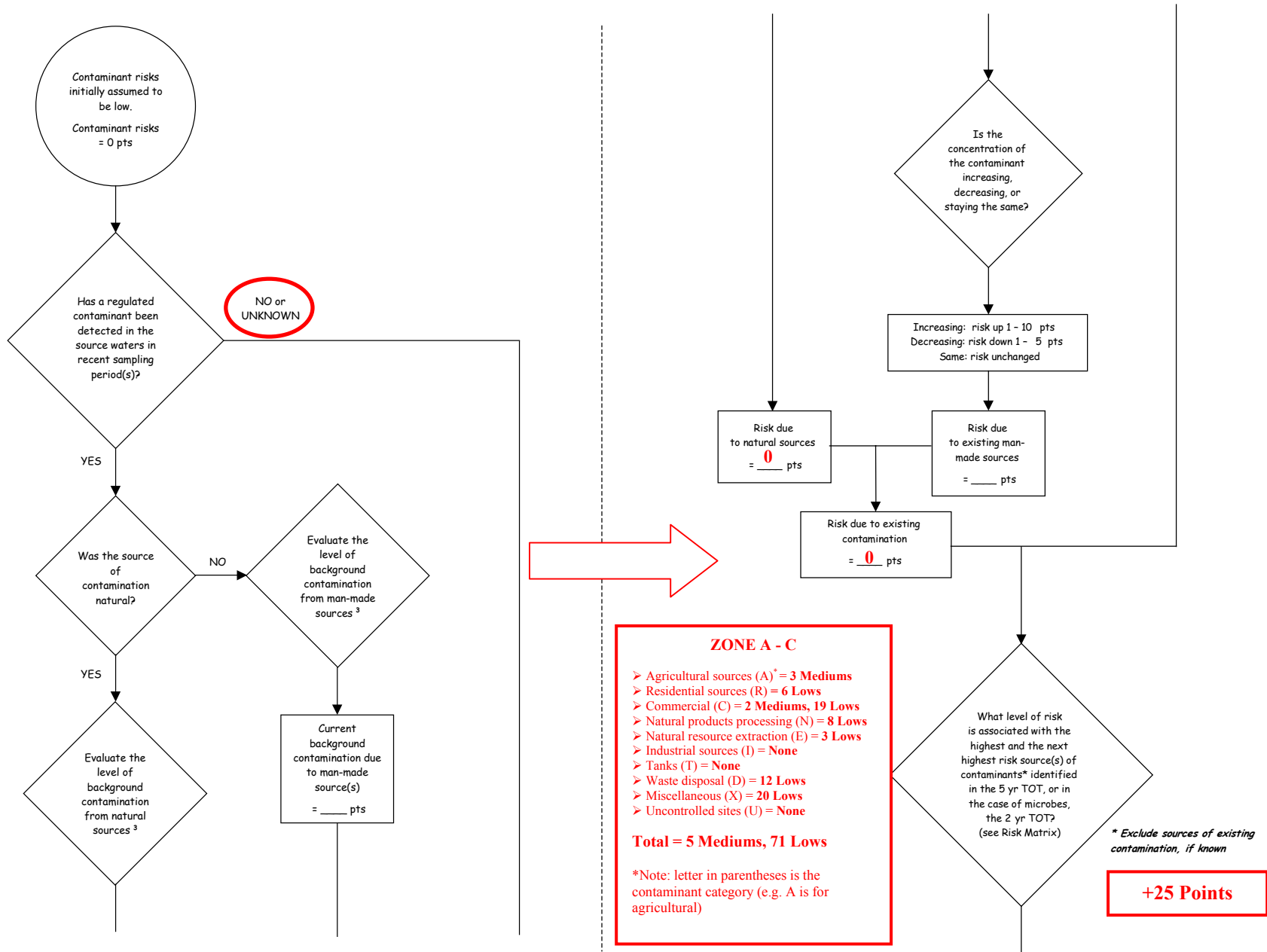
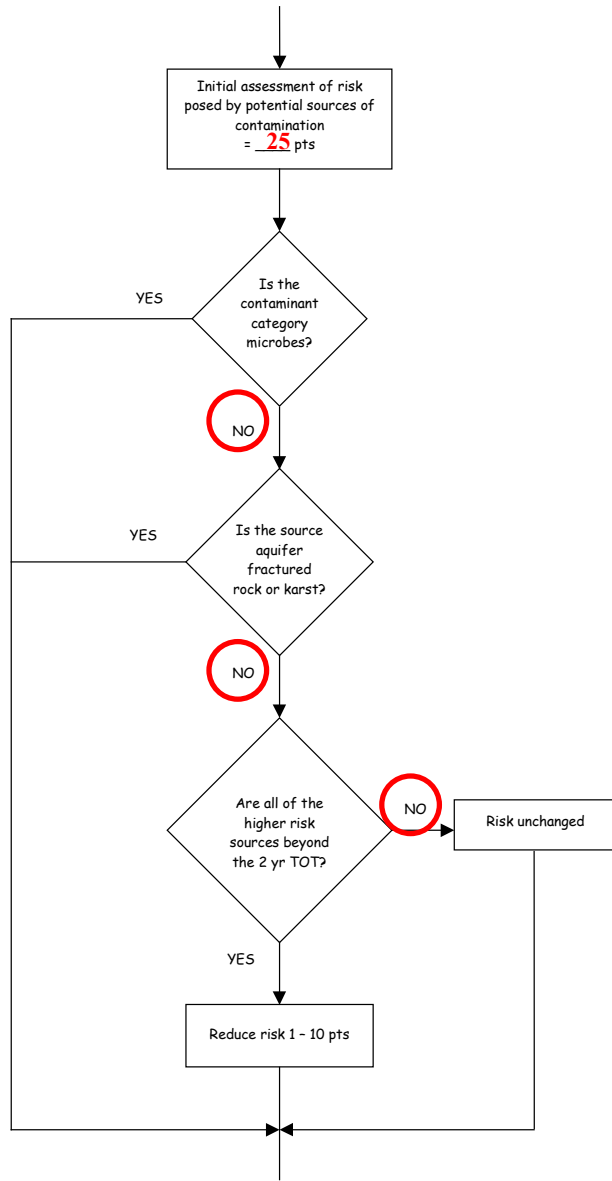
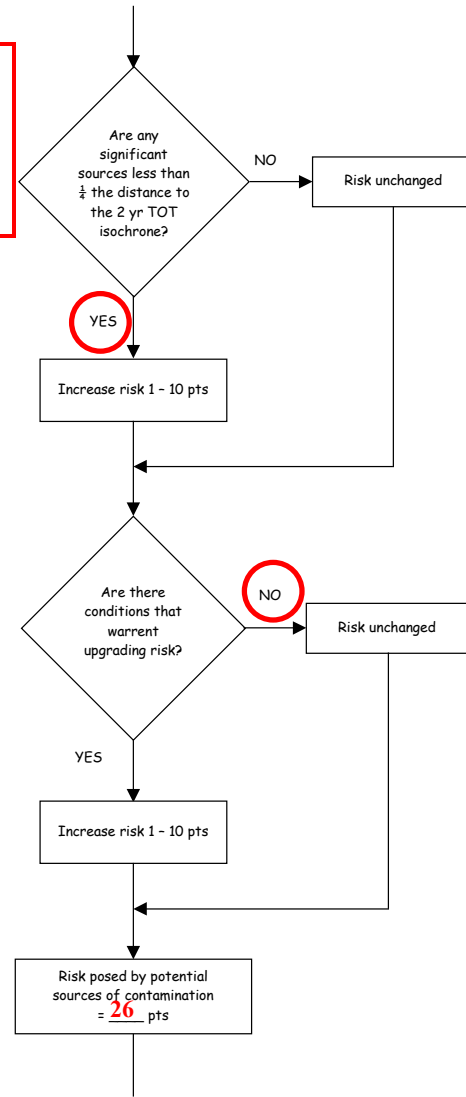
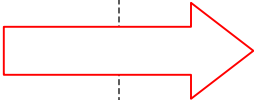


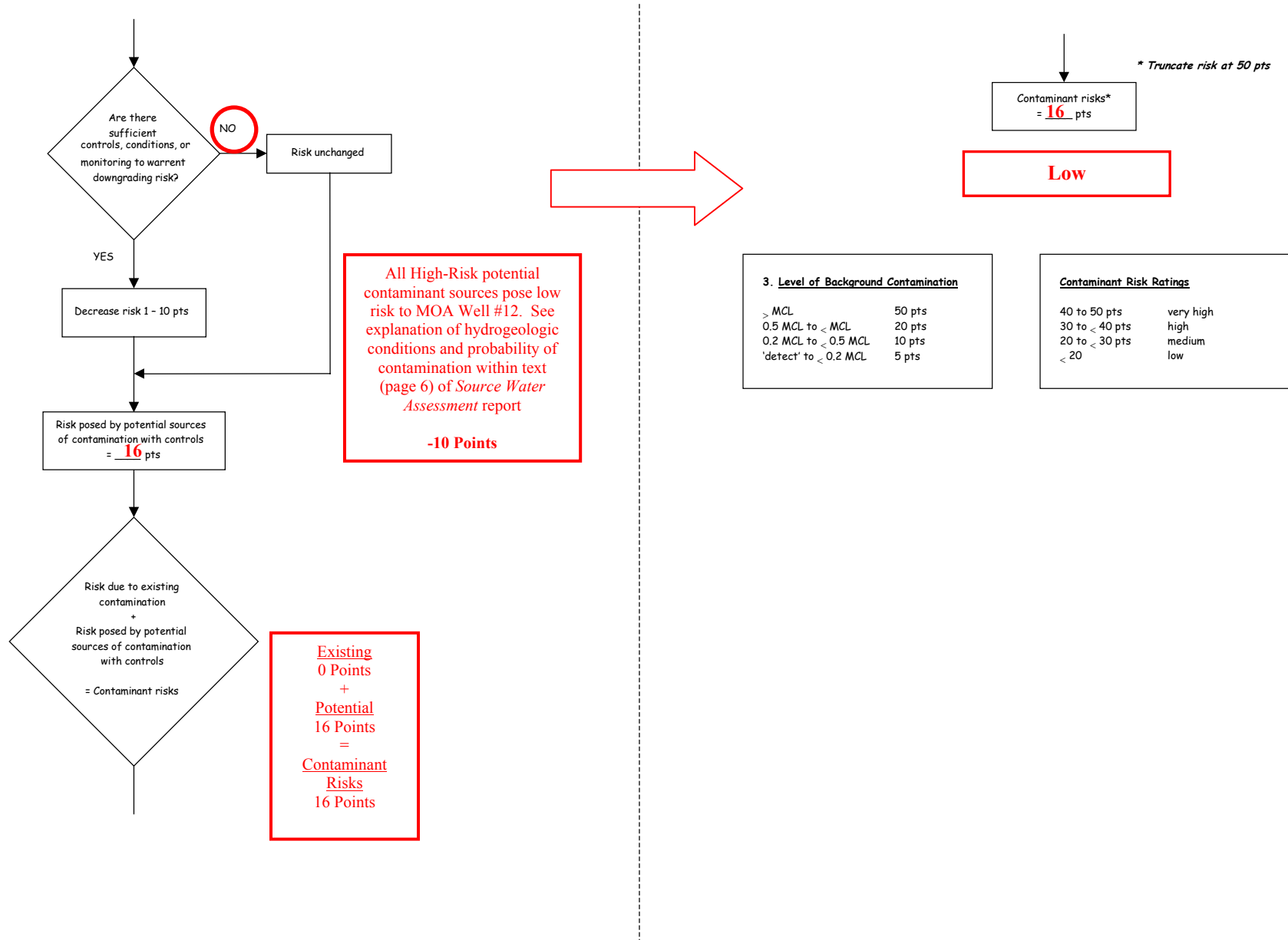
Chart 11. Contaminant risks for MOA Well #12– Synthetic Organic Chemicals (Continued)



Agricultural chemical storage area and commercial greenhouse within Zone A Protection Area  
 +1 Point



**Chart 11. Contaminant risks for MOA Well #12– Synthetic Organic Chemicals (Continued)**



**Table 5. Risk Matrix for Contaminant Sources for MOA Well #12– Synthetic Organic Chemicals**

**Level of Risk Associated with the Highest Risk Sources**

**Next Highest Risk Sources(s)**

TOTAL FOR ZONES A – C = 5 MEDIUMS, 71 LOWS	<b>LOW 10 pts</b>	<b>MEDIUM 20 pts</b>	<b>HIGH 30 pts</b>	<b>VERY HIGH 40 pts</b>
<b>Low</b>	≥ 10 sources + 10 pts	≥ 10 sources + 5 pts	≥ 20 sources + 5 pts	—
<b>Medium</b>	—	≥ 2 sources + 5 pts	≥ 5 sources + 5 pts	≥ 10 sources + 5 pts
<b>High</b>	—	—	1 source + 10 pts	≥ 2 sources + 10 pts
<b>Very High</b>	—	—	—	1 source + 10 pts

Chart 12. Vulnerability analysis for MOA Well #12– Synthetic Organic Chemicals

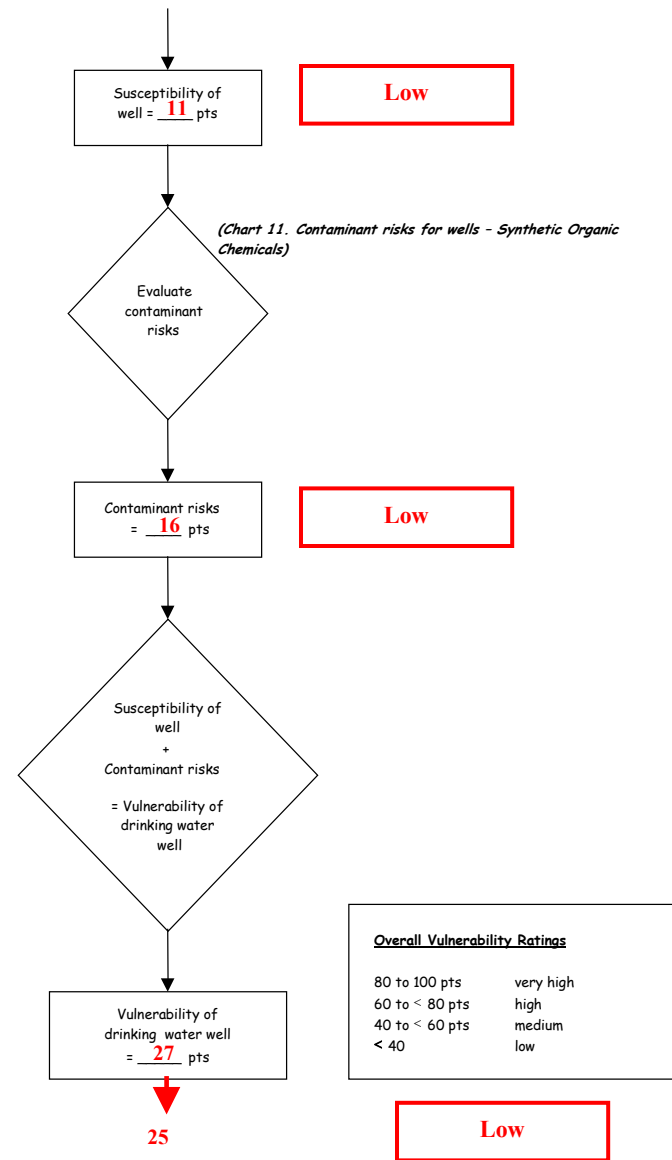
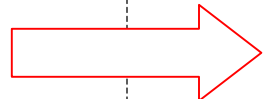
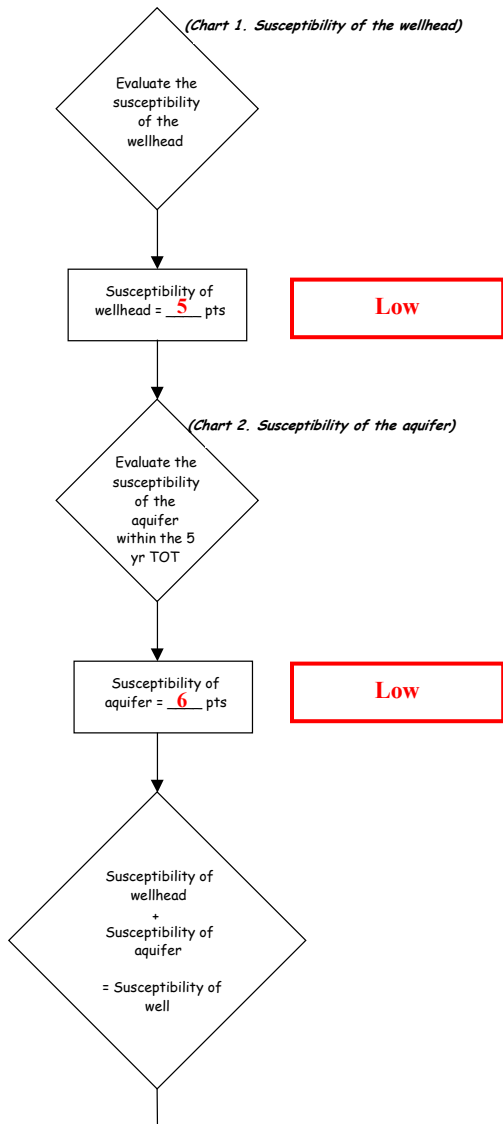


Chart 13. Contaminant risks for MOA Well #12– Other Synthetic Organic Chemicals

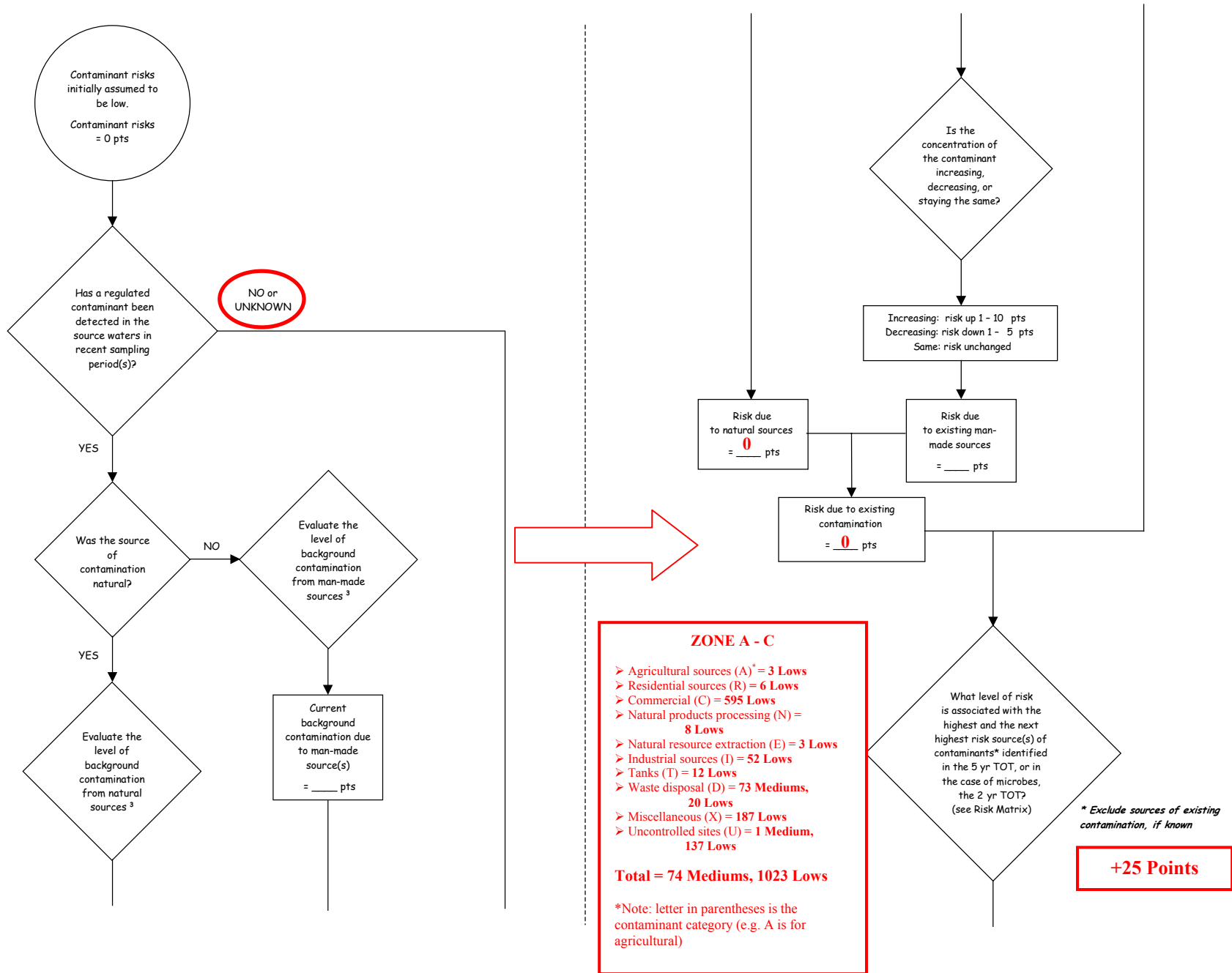




Chart 13. Contaminant risks for MOA Well #12– Other Synthetic Organic Chemicals (Continued)

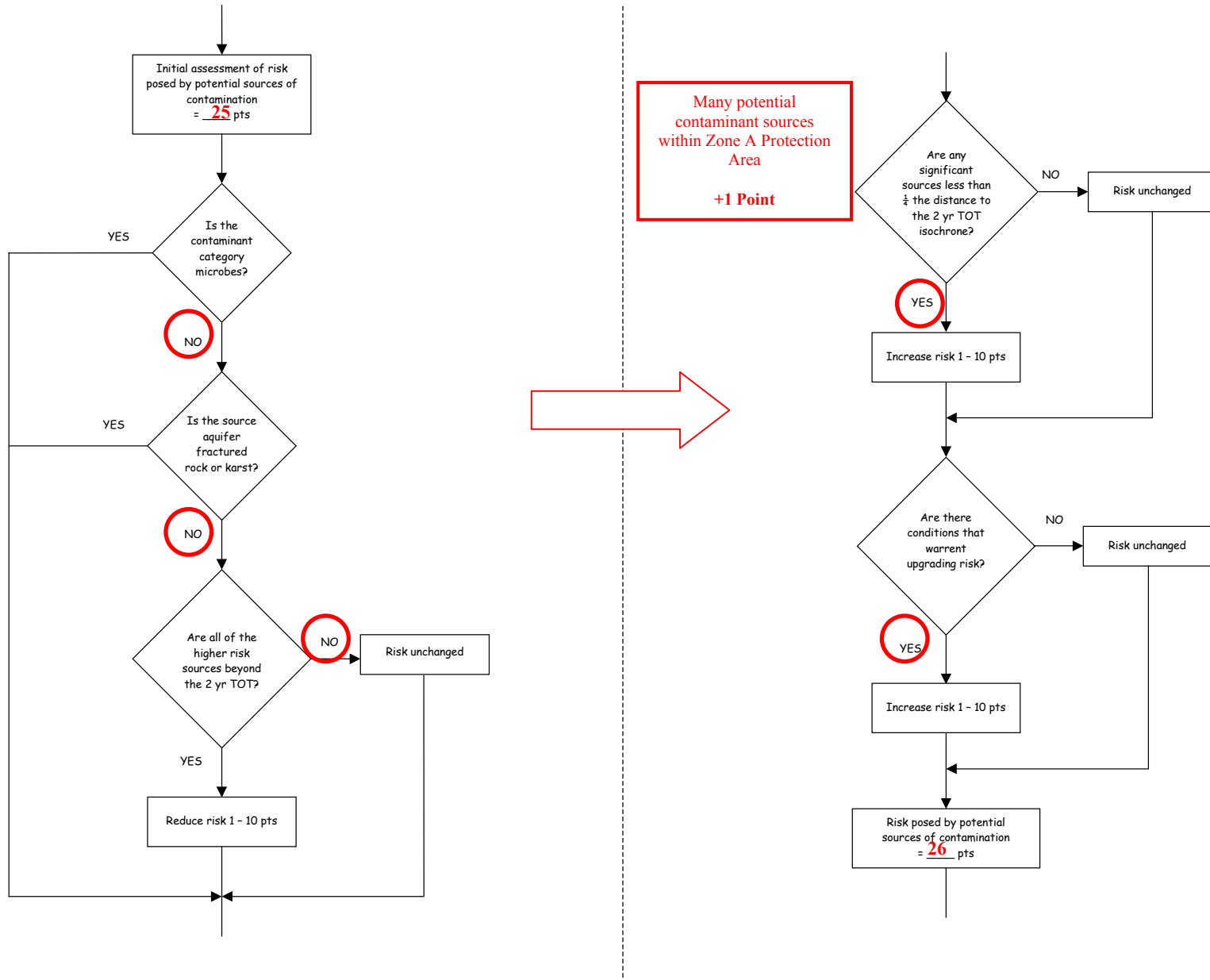
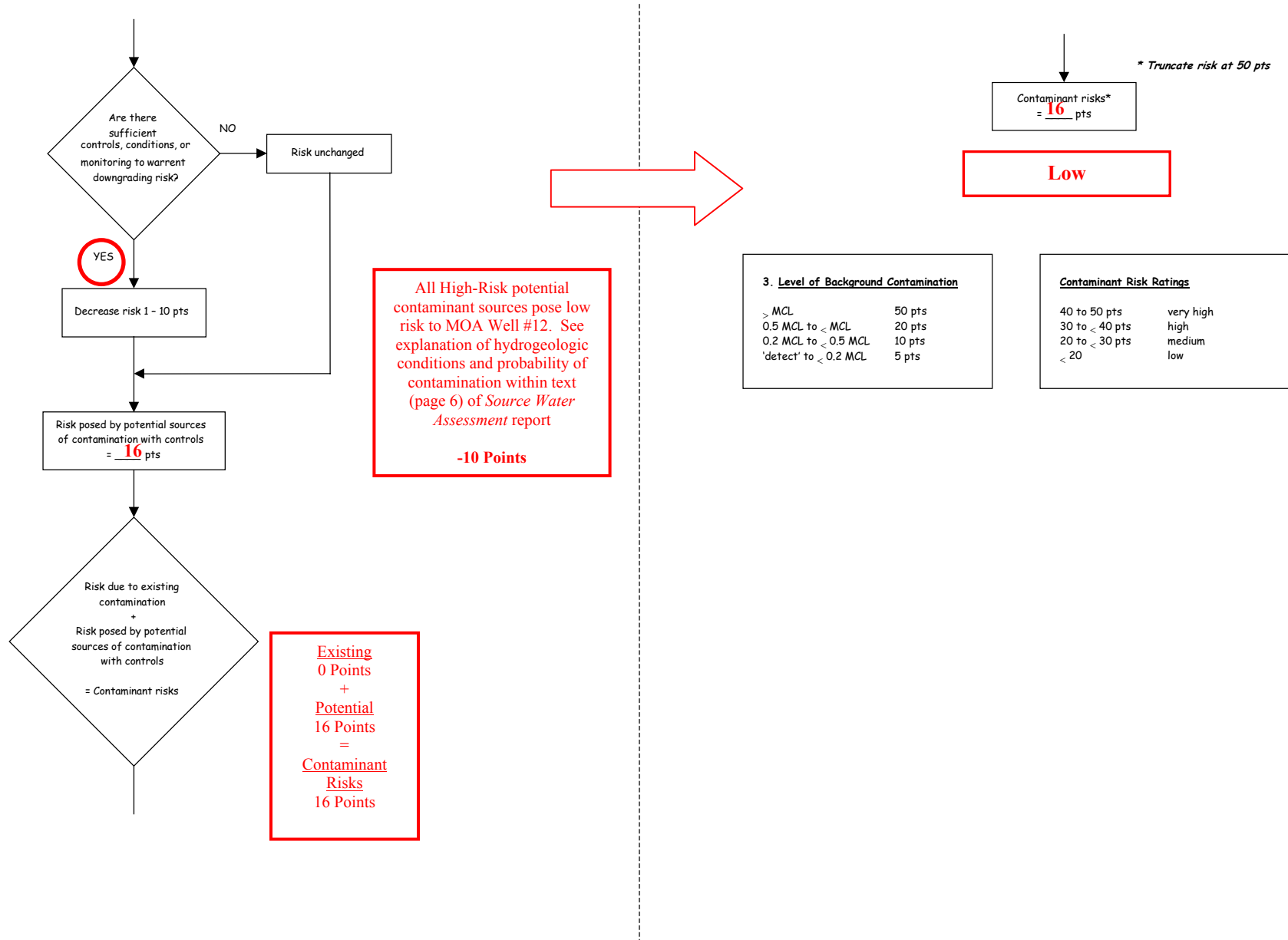


Chart 13. Contaminant risks for MOA Well #12– Other Synthetic Organic Chemicals (Continued)



**Table 6. Risk Matrix for Contaminant Sources for MOA Well #12– Other Synthetic Organic Chemicals**

**Level of Risk Associated with the Highest Risk Sources**

<b>Next Highest Risk Sources(s)</b>	<b>74 Mediums, 1023 Lows</b>	<b>LOW 10 pts</b>	<b>MEDIUM 20 pts</b>	<b>HIGH 30 pts</b>	<b>VERY HIGH 40 pts</b>
	<b>Low</b>	≥ 10 sources + 10 pts	≥ 10 sources + 5 pts	≥ 20 sources + 5 pts	—
	<b>Medium</b>	—	≥ 2 sources + 5 pts	≥ 5 sources + 5 pts	≥ 10 sources + 5 pts
	<b>High</b>	—	—	1 source + 10 pts	≥ 2 sources + 10 pts
	<b>Very High</b>	—	—	—	1 source + 10 pts

Chart 14. Vulnerability analysis for MOA Well #12 – Other Synthetic Organic Chemicals

