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March 6, 2000  
1013-05

North Slope Borough  
Department of CIPM  
P.O. Box 350  
Barrow, Alaska 99723

**Attention: Marvin Olson**  
**Program Manager**

Re: CIP No. 63-204  
Phase I ESA for South Pad Final Report

Dear Marvin:

As you requested, I am providing you with one unbound copy and one bound copy of our Phase I Environmental Site Assessment for South Pad.

Your question pertaining to the city using the asphalt for the hockey rink was a good one. We suggest you put this in your RFP so the contractor will pursue your idea.

Thank you.

Sincerely,

Laurence A. Peterson  
Operations Manager

**PHASE I ENVIRONMENTAL SITE ASSESSMENT  
SOUTH PAD**

Prepared for

**NORTH SLOPE BOROUGH  
DEPARTMENT OF CAPITAL IMPROVEMENT PROGRAM MANAGEMENT  
P.O. Box 350  
Barrow, Alaska 99723**

Prepared by

**TRAVIS/PETERSON ENVIRONMENTAL CONSULTING, INC.  
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Project Number

1013-05

March 2000

**COPY**

## EXECUTIVE SUMMARY

This report summarizes the findings of a Phase I Environmental Site Assessment (ESA) conducted by Travis/Peterson Environmental Consulting, Inc. (TPECI) at South Pad, Barrow, Alaska. Key Points of the Phase I ESA are summarized below and discussed in detail within the report. The Executive Summary is intended for introductory and reference use. A complete reading of this report is recommended.

**Site History:** The NSB constructed South Pad in 1980 to serve as staging area for contractor activities. According to Woodward-Clyde (1997), the gravel pad varies between 6 and 8 feet thick and rests directly on the tundra. Contractors managed the facility until 1986 when the NSB assumed control. Currently, various departments of the North Slope Borough (NSB) use South Pad for outdoor storage.

**Site Reconnaissance:** TPECI personnel conducted a site reconnaissance on January 26, 2000. The presence of above ground storage tanks (ASTs), drums, chemical materials, and construction materials were documented. Evidence of past contamination was also documented.

**Soils, Geology, and Hydrogeology:** Information on the subsurface soils at the site is based on direct observation made at the site and adjacent properties. In general, the site consists of a gravel pad that varies between six and eight feet thick.

**Vicinity Environmental Documentation:** A search of environmental documentation for surrounding sites revealed no risk of contamination from adjoining properties. No sites listed by the Environmental Protection Agency or the State of Alaska were found to be within the area of review for the subject site.

**Conclusions and Recommendations:** Evidence of environmental impairment by petroleum and chemical materials has been noted at South Pad and includes soil contaminated with diesel fuel, glycol, asphalt, and unidentified chemical materials. TPECI recommends that the NSB proceed with Phase II Environmental Sampling. The NSB can reduce the potential for future releases by adopting simple property management techniques, which would include housekeeping, inventory of materials, and/or removal, recycle, and disposal of non-hazardous materials.

## TABLE OF CONTENTS

|   | <b>Page</b> |
|---|-------------|
| 1.0 INTRODUCTION .....                          | 1           |
| 2.0 SITE DESCRIPTION .....                      | 2           |
| 3.0 SITE HISTORY .....                          | 2           |
| 3.1 Tax Assessment and Title Records .....      | 2           |
| 3.2 Aerial Photograph Review .....              | 2           |
| 3.2.1 1971 Aerial Photograph .....              | 5           |
| 3.2.2 1981 Aerial Photograph .....              | 5           |
| 3.2.3 1991 Aerial Photograph .....              | 5           |
| 3.2.4 1999 Aerial Photograph .....              | 5           |
| 3.3 Personal Interviews .....                   | 6           |
| 4.0 SITE RECONNAISSANCE .....                   | 6           |
| 4.1 Buildings .....                             | 6           |
| 4.1.1 Service Shop .....                        | 6           |
| 4.1.2 Storage Shed .....                        | 7           |
| 4.1.3 Individual Connexes .....                 | 10          |
| 4.2 Fuel Storage Tanks .....                    | 10          |
| 4.3 Chemical Materials .....                    | 11          |
| 4.4 Refuse and Debris .....                     | 11          |
| 4.5 Site Drainage .....                         | 12          |
| 4.6 Fill Areas .....                            | 12          |
| 4.7 Water Wells and Water Service .....         | 13          |
| 4.8 Sewer and Septic Systems .....              | 13          |
| 4.9 Electrical Utilities and Transformers ..... | 13          |
| 4.10 Surface Vegetation .....                   | 13          |
| 4.11 Adjoining Properties .....                 | 14          |
| 5.0 GEOLOGY, HYDROLOGY, AND SOILS .....         | 14          |
| 5.1 Geology and Soils .....                     | 14          |
| 5.2 Hydrology .....                             | 15          |
| 6.0 VICINITY ENVIRONMENTAL RECORDS .....        | 16          |
| 6.1 Registered UST's and AST's .....            | 16          |
| 6.2 Leaking UST's .....                         | 16          |
| 6.3 ADEC Contaminated Sites List .....          | 16          |
| 6.4 RCRA List .....                             | 17          |
| 6.4.1 RCRA Corrective Action Facilities .....   | 17          |

|       |  |    |
|-------|--|----|
| 6.4.2 | RCRA TSD Facilities .....                    | 17 |
| 6.4.3 | RCRA Generators .....                        | 17 |
| 6.5   | CERCLIS LIST .....                           | 17 |
| 6.6   | Emergency Response Notification System ..... | 18 |
| 7.0   | ASBESTOS .....                               | 19 |
| 8.0   | LEAD-BASED PAINT .....                       | 19 |
| 9.0   | CONCLUSIONS AND RECOMMENDATIONS .....        | 19 |
| 9.1   | Property Management .....                    | 20 |
| 9.2   | Phase II Environmental Sampling .....        | 21 |
| 10.0  | REFERENCES .....                             | 22 |

#### LIST OF TABLES

|         |  |    |
|---------|--|----|
| Table 1 | Materials Located in Storage Shed .....                              | 8  |
| Table 2 | Sampling Locations, Protocols, And Estimated Number of Samples ..... | 23 |

#### LIST OF FIGURES

|          |                               |   |
|----------|-------------------------------|---|
| Figure 1 | Location & Vicinity Map ..... | 3 |
| Figure 2 | Site Plan View .....          | 4 |

#### LIST OF APPENDICES

|            |                    |
|------------|--------------------|
| Appendix A | Aerial Photographs |
| Appendix B | Photographic Log   |
| Appendix C | EDR Report         |

## 1.0 INTRODUCTION

Travis/Peterson Environmental Consulting, Inc. (TPECI) performed a Phase I Environmental Site Assessment (ESA) of South Pad, Barrow, Alaska. The purpose of the Phase I ESA is to document current and historical land uses on South Pad and adjacent property and evaluate the risk of adverse environmental impacts to the site based upon those uses, and to identify “recognized environmental conditions” as defined by the American Society for Testing and Materials (ASTM). The project conforms to general standards established by the ASTM (ASTM-E-1527-97). The scope of work for this Phase I ESA included:

- A physical reconnaissance of the site and observation of surrounding properties for unusual land colorations, physical irregularities, and noticeable refuse piles as well as an exploration of current land use in the immediate vicinity;
- A review of available information on the soils, geology, and hydrology in the vicinity of the site;
- A review of available environmental documentation for the site and vicinity properties from local, state, and federal environmental agencies;
- A review of available historical data and aerial photographs pertaining to the site and adjacent property use;
- A review of the information obtained and an assessment of the potential for impact by toxic, hazardous, or otherwise regulated materials; and
- Preparation of this report.

Environmental impairment of a property may result from activities such as illegal or unreported dumping or spilling of hazardous waste materials. The presence of contaminants at a property may not always be apparent, and the completion of a Phase I ESA cannot guarantee that contamination does not exist. The scope of services executed for this project does not comprise an audit for regulatory compliance, nor does it comprise a detailed condition survey for asbestos, lead paint, radon, naturally-occurring materials, wetlands, or other conditions or potential hazards not outlined in TPECI’s scope of work.

This report has been prepared for the exclusive use of the North Slope Borough (NSB) in accordance with generally accepted professional consulting practices. No warranty, expressed or implied, is made. The findings contained herein are relevant to the date of TPECI’s site visit and should not be relied upon to represent conditions at a later date.

In the event that changes in the nature, usage, or layout of the site or nearby properties are made, the conclusions and recommendations contained in this report may not be valid. If additional information becomes available, it should be provided to TPECI so that the original conclusions and recommendations can be modified as necessary.

## **2.0 SITE DESCRIPTION**

The South Pad, Barrow, Alaska (Figure 1) site encompasses 8.35 acres and is located along Nunavaaq Street (Figure 2). The legal description of the subject site is Lot 2, Block B, U.S. Survey #4516. South Pad is located within Section 7, T22N, R18W, and Sections 12 and 13, T22N, R19W, Umiat Meridian. TPECI visually inspected South Pad, visually surveyed adjoining land, and reviewed public records and readily accessible documentation.

## **3.0 SITE HISTORY**

TPECI documented the site history by reviewing historical aerial photographs, recorded information, readily accessible databases, and interviews. The NSB constructed South Pad in 1980 to serve as staging area for contractor activities. According to Woodward-Clyde, (1997), the gravel pad varies between 6 and 8 feet thick and rests directly on the tundra. Contractors managed the facility until 1986 when the NSB assumed control. Currently, various departments of the NSB use South Pad for outdoor storage.

SKW/Eskimo, Inc. constructed the shop building in 1981. Due to excessive slab settlement the shop was ordered vacated by inspectors from the Occupational Safety and Health Administration (OSHA) in 1993 (CH2M Hill, 1993).

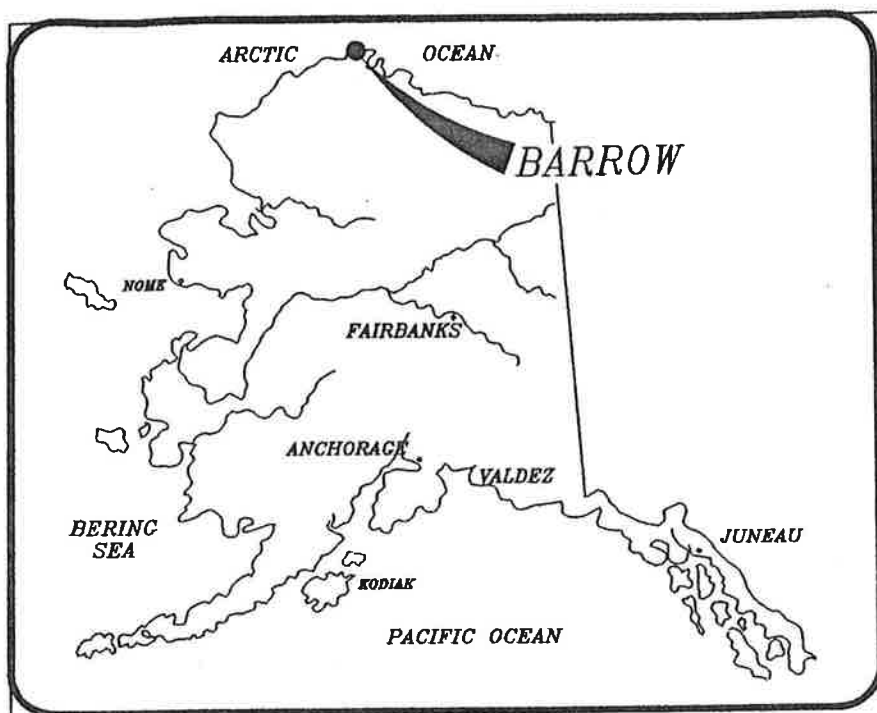
A check with the U.S. Army Corps of Engineers indicated that a Section 404 (dredge and fill activity in wetlands) permit was not required for South Pad. Any future enlargement of the pad must be permitted by the US Army Corps of Engineers (Hietz, 2000)

### **3.1 TAX ASSESSMENT AND TITLE RECORDS**

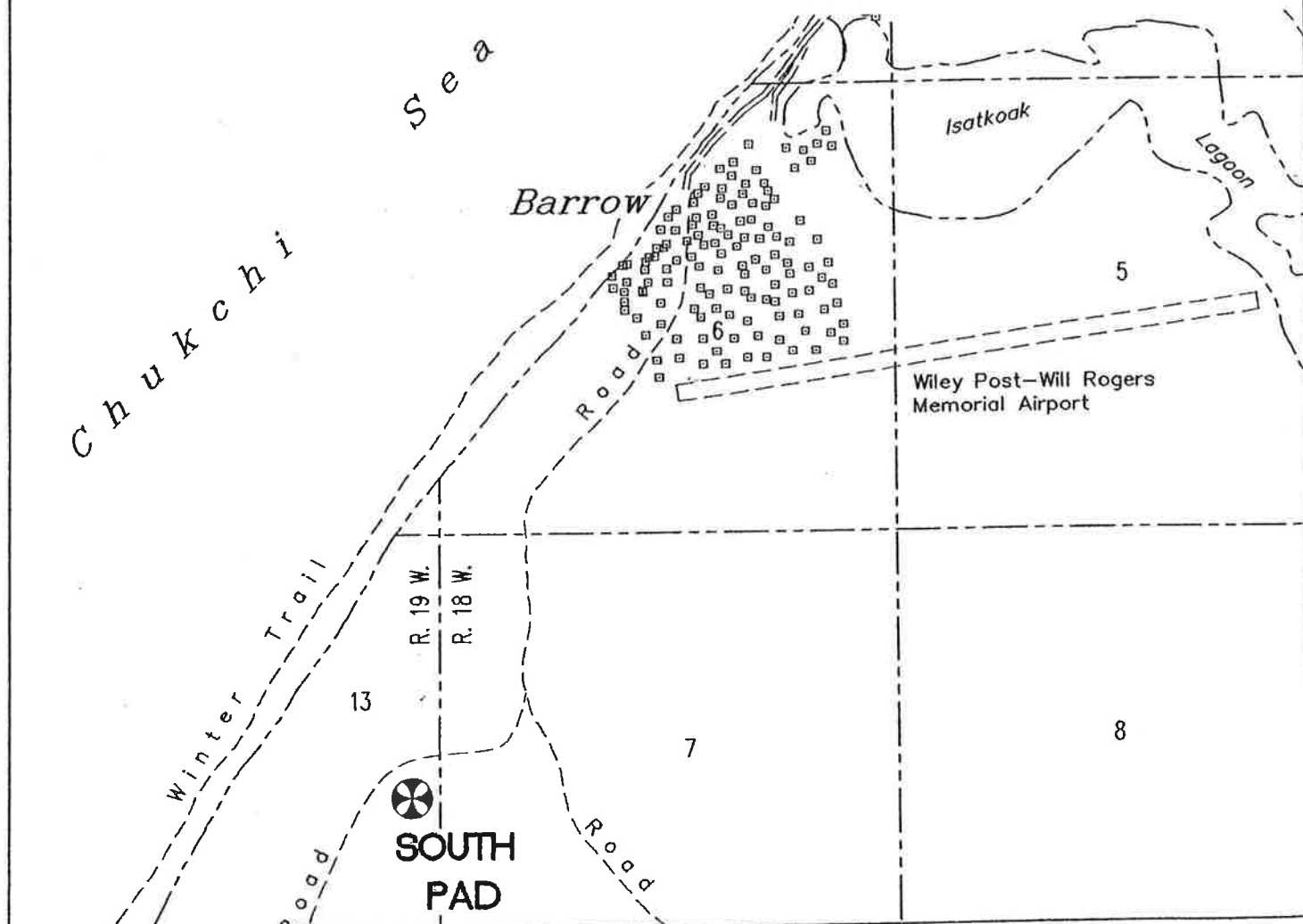
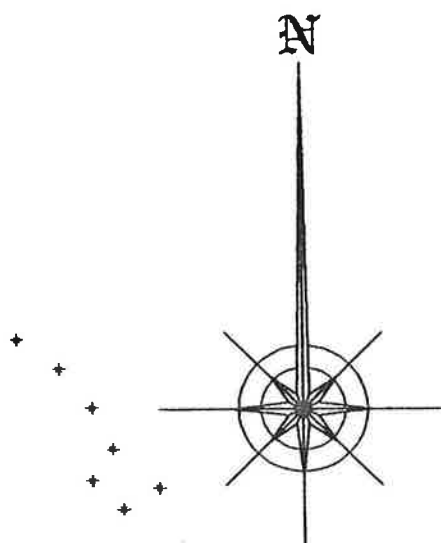
Review of tax assessment records and title records was not included in the scope of work for this project. A full records assessment was not performed because existing documentation and information indicates that the NSB has been the sole property owner.

### **3.2 AERIAL PHOTOGRAPH REVIEW**

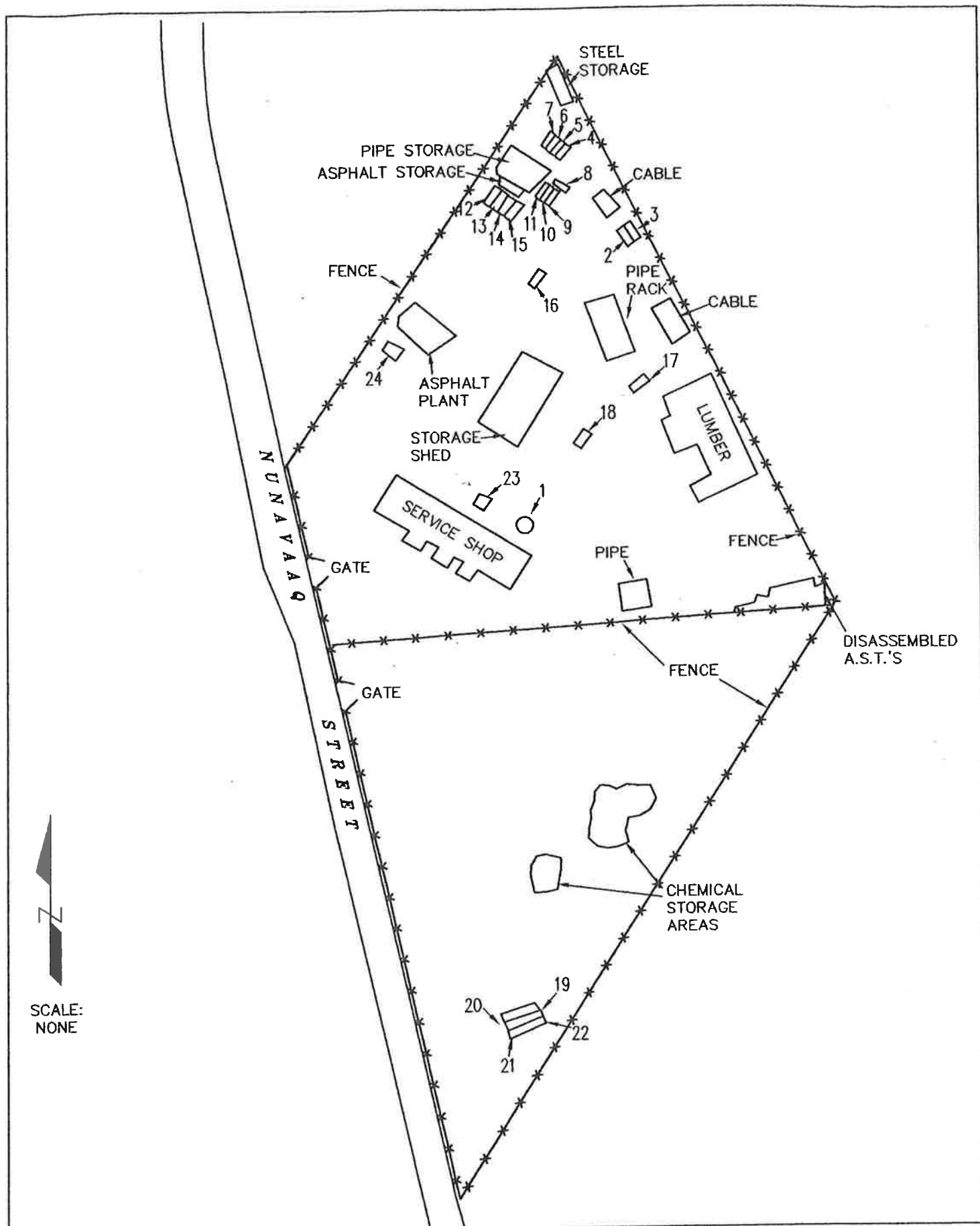
Aerial photographs of South Pad and adjacent property obtained by TPECI span the period between 1971 and 1999 (Appendix A). The aerial photograph review indicates the adjacent property has not been developed. There has not been any appreciable change to the subject property since 1991. However, the aerial photographs show a progressive decline in the amount of material on the site.



LOCATION MAP







### **3.2.1 1971 Aerial Photograph**

The 1971 aerial photograph shows no development of the subject property (Appendix A). The site location is dominated by permafrost and wetland areas. Characteristics of the permafrost shown are indicative of wetlands and include patterned ground, permafrost islands, and thaw lakes. The photograph revealed no areas of stressed vegetation.

### **3.2.2 1981 Aerial Photograph**

The 1981 aerial photograph shows most of South Pad has been built. The northeastern section of South Pad is a staging area for NSB contractors. The southeastern area is under construction with approximately 28,000 cubic yards of material (assuming a pad thickness of 6 feet) in place.

Large stacks of treated lumber line the eastern site fence. This lumber was apparently purchased for a construction project. The lumber was stored at South Pad pending use at the construction site (Woodward-Clyde, 1997). The photograph shows many empty shipping crates located along the northern site boundary. The items on site appear to be organized and stored neatly. The service shop appears to be in use.

### **3.2.3 1991 Aerial Photograph**

The 1991 aerial photograph shows South Pad as it existed prior to the abandonment of the service shop. An addition has been made to the storage building and numerous connexes and materials have been added to the site. The NSB/OSEA office is located in the connex east of the service shop. There are three above ground storage tanks located north of the service shop gate near the fence line. Two above ground storage tanks are located at the southern corner of the property. A large bulk fuel storage tank is located adjacent to the shop. Pallets of drums are stacked adjacent to the service shop and access gate. There is debris scattered outside the eastern fence line. The photograph shows the worst debris field is northeast of the site and covers an area approximately 200 feet by 400 feet. In addition to the debris, numerous vehicles are present on the site. Although some appear to be parked, a good percentage of them appear to be abandoned in place. The materials on the southern part of the site appear to be ordered and placed in rows that are separated by roadways.

### **3.2.4 1999 Aerial Photograph**

The 1999 aerial photograph shows the site conditions as they exist currently. The large debris fields along the eastern margin of the site have been cleaned-up. The outbuilding on the east side of the service shop has been removed and the site appears to be used for material storage. Overall, the materials stored on site appear to have decreased between 1991 and 1999. The numerous vehicles present in 1991 have been removed from the site. Much of the material

evident in the 1991 photograph has been removed. The remnants of lumber reported present on site in 1981 is stacked along the eastern margin of the site.

### **3.3 PERSONAL INTERVIEWS**

Woodward-Clyde (1997) performed personal interviews with Mr. Jack Azizeh and Mr. Chris Cleveland. Information from these interviews is used in this report.

While on-site, two unidentified NSB/CIPM employees stopped to see who was on-site and what was going on. They expressed that the dispensing station had not be in use for at least 3 years. The numerous connexes on site belong to various departments of the NSB. They were not sure but thought some were CIPM, OSEA, Public Safety, and Transit. They also indicated that they would like to see the treated lumber stockpile removed from the site.

### **4.0 SITE RECONNAISSANCE**

TPECI personnel conducted a site reconnaissance on January 26, 2000. Photographs (Appendix B) were taken at a variety of locations during the site reconnaissance.

#### **4.1 BUILDINGS**

There are two permanent structures located at South Pad. One is a service shop and the other is a storage building (Figure 2). Each of these structures is described in the following sections.

##### **4.1.1 Service Shop**

The service shop is a 40 foot wide by 200 foot long structure located approximately 100 feet from the western margin of the subject property. This shop was built in the early 1981 by SKW/Eskimos Inc. and was in service until it was condemned in 1993. The shop extends north to south and is subdivided into offices, storage areas, and working space. The shop has a concrete slab on grade with a ventilation system that circulated winter air under the building. TPECI inspected the service shop for potential contaminants and refuse.

##### *Shop Offices and Storage Areas*

There is a box of battery electrolyte fluid located in the storage room underneath the offices (Appendix B, Photograph #1). The box appeared to be intact and no leakage was observed. Three drums labeled used oil are located in the office portion of the shop located near the south vehicle door (Appendix B, Photograph #2). No contaminants or potentially hazardous materials were observed in any of the other offices or storage areas at the shop.

The working space of the shop is approximately 120 feet long and 40 feet wide. The concrete floor of the working space is equipped with a floor drain which, at the time of inspection, was frozen solid. The floor itself has collapsed into a thaw bulb and slopes towards the middle of the structure.

There are two large transformers collocated with electrical panels in the shop. The first is adjacent to the panel on the southeast shop wall (Appendix B, Photograph #3). This transformer is rated at 75 KVA - 60Hz, and was manufactured by the Square D Company (Serial #791S22C). The second transformer is located adjacent to the electrical panels along the southwest wall, near the two 1,000 gallon water storage tanks (Figure 3). This transformer is rated at 45 KVA - 60 Hz - 3 phase and was manufactured by Acme Electric Corporation (Model #T-1-53313-3). An oil rack is located near the storage area in the northwest corner of the working space. There is a 55-gallon drum filled with an unknown grease (Appendix B, Photograph #4). The grease has overflowed and spread to the floor. Absorbent pads are littered underneath the rack. Nine 55-gallon drums are on pallets along the eastern side of the shop across from shop offices. Four of these drums are empty, the remaining five are partially full (Appendix B, Photograph #5). The labels on the drums indicated that the contents include:

- Arctic Gear Lube (1 drum);
- OW-30 motor oil (1 drum);
- 5W-30 motor oil (1 drum); and
- Antifreeze (2 drums).

Four drums labeled "contaminated soil" dated "5/19/90" are located adjacent to the electrical panel in the southeast corner of the shop (Appendix B, Photograph #6). This is the extent of potentially hazardous materials observed in the service shop.

#### **4.1.2 Storage Shed**

The storage shed, consisting of a series of 8-foot by 20-foot connexes enclosed with a wood-truss roof and walls, is located to the north of the service shop near the center of South Pad. There are approximately 44 steel connexes enclosed by the storage unit. This building provides dry storage for chemicals, paint, automotive fluids, office furniture, and miscellaneous items. During the site reconnaissance, TPECI personnel recorded the contents of each of the connexes. A detailed inventory of hazardous materials and quantities is presented in Table 1. Approximately 28 diesel fired space heaters are stored on the east side of the storage shed.

**TABLE 1**  
**MATERIALS LOCATED IN STORAGE SHED**

| Amount | Quantity  | Material                                |
|--------|-----------|---|
| 2      | 5 Gallon  | Daniel Boone Marine Gloss Enamel        |
| 1      | ½ Gallon  | Hydraulic Fluid                         |
| 1      | 1 Gallon  | Jason Chemical Set Adhesive             |
| 11     | 5 Gallon  | Carburetor & Cold Parts Cleaner         |
| 1      | 5 Gallon  | Murphy's Tire & Tube Compound           |
| 1      | 4 Gallon  | Carboline 191 Paint                     |
| 1      | 5 Quart   | Jason Curing Agent B, Chemical Adhesive |
| 1      | ½ Gallon  | Daniel Boone Paint                      |
| 1      | 1 Pint    | Sherwin Williams Acrylyd Acrylic Enamel |
| 1      | 2 Quart   | Carboline Part B 191 Finish             |
| 156    | 5 Gallon  | Polyseamseal Adhesive Caulking          |
| 80     | 5 Gallon  | Chevron Asphalt Coating                 |
| 4      | 1 Gallon  | Scotch Grip Plastic Adhesive 4693       |
| 2      | 5 Gallon  | Foster Sealfas Coating 30-36            |
| 5      | 5 Gallon  | Nalclean 8900 Alkaline Cleaner          |
| 39     | 39 Gallon | PRC Part A & B Paint                    |
| 2      | 5 Gallon  | Tnemec 2008 Safety Red                  |
| 2      | 5 Gallon  | Tnemec C Part B, Epoxy Converter        |
| 11     | 1 Gallon  | Sikastix 370 A Sikadur                  |
| 10     | 1 Gallon  | Sikastix 370 Part B                     |
| 1      | 5 Gallon  | Graycoflex Part A                       |
| 1      | 5 Gallon  | Graycoflex Part B                       |
| 4      | 5 Gallon  | Preservative Prime Red Oxide Primer     |
| 2      | 5 Gallon  | Industrial Finishes, Zinc Dust Primer   |
| 32     | 5 Gallon  | Non-slip Coating 1420                   |
| 5      | 5 Gallon  | Carboline 190 HB Part A                 |

**TABLE 1, Continued**

|    |          |  |
|----|----------|--|
| 1  | 5 Gallon | Sonnebom Kure-seal 0800                        |
| 1  | 5 Gallon | BEHR Raw-hide Clean Gloss                      |
| 1  | 5 Gallon | Carboline Thinner #15                          |
| 1  | 5 Gallon | Carboline Thinner #11                          |
| 1  | 5 Gallon | Carboline Thinner #21                          |
| 9  | 1 Gallon | Carboline 190 Part B                           |
| 1  | 5 Gallon | Methyleum Naphtha                              |
| 1  | 5 Gallon | Latex Paint 631-W-105                          |
| 3  | 5 Gallon | Anchor Paint White                             |
| 1  | 1 Gallon | Porter MCR 43 Gloss Exopy, Part B              |
| 1  | 1 Gallon | Porter MCR 43 Gloss Exopy, Part A              |
| 10 | 5 Gallon | Thoropatch Concrete and Masonry Patch          |
| 1  | 5 Gallon | A and B Porter Tarsel Coal Tar Epoxy           |
| 2  | 2 Gallon | Bostic Chem Calk 550                           |
| 1  | 5 Gallon | Carboline Carbo Zinc Base                      |
| 26 | 1 Gallon | 3-M Scotch Clad Non-slip Coating               |
| 1  | 1 Gallon | Aqua Gel Wire & Cable Pulling Lube             |
| 1  | 5 Gallon | Burke Res-X                                    |
| 1  | 5 Gallon | Daniel Boone Marine Enamel 3015                |
| 4  | 1 Gallon | 1 Gallon A & 1 Gallon B per kit, Carboline 191 |
| 5  | 5 Gallon | Daniel Boone Flat Red Paint                    |
| 1  | 5 Gallon | Carboline Zinc Filler # 73                     |
| 7  | 5 Gallon | Dow Corning 732-45 Silicone Rubber Sealent     |
| 2  | 5 Gallon | Elasto-bond 875 Blue Primer,                   |
| 3  | 5 Gallon | Daniel Boone Zinc Chromate Primer              |
| 3  | 5 Gallon | Tylox Lube #7                                  |
| 4  | 5 Gallon | Daniel Boone Exterior Log Finish               |
| 2  | 5 Gallon | Daniel Boone Super Sealer Vinyl Acrylic        |

### 4.1.3 Individual Connexes

Numerous steel connexes are located at South Pad. Attempts were made to access and inventory all connexes on site. The connexes located behind the shop building apparently belong to several departments of the NSB. Neither the CIPM individuals nor Oma Gilbreth knew which departments. No attempt was made to access connexes with locks on them. Most of the connexes inspected were empty or contained non-hazardous materials (pipe, parts, automotive and heavy equipment parts, etc.). A number of these connexes contained small amounts of chemicals including glycol, used oils, and 5-gallon pails of oil. These appeared to have been placed in the connexes to protect them from the weather and accidental spillage. The presence of drifted snow in the connexes hindered visual inspection during the site assessment.

## 4.2 FUEL STORAGE TANKS

Numerous aboveground storage tanks (ASTs) are located at the site. All appeared to be temporarily stored at the site or, in the case of Tank 1, abandoned in place. It was not possible to ascertain whether they had been drained. The ASTs stored on site, and described below, include:

- Tank 1 45,000 gallon bulk fuel storage tank;
- Tanks 2 through 22 10,000 gallon AST with containment; and
- Tank 23 10,000 gallon AST without containment.

Tank 1 is the bulk fuel storage tank for the old dispensing station located adjacent to the service shop. The nominal volume is estimated to be 45,000 gallons. According to Woodward-Clyde (1997),

“The 45,000 gallon AST is connected to the pump station by an above ground pipe. The AST sits in a lined dike that is full of water. The dispensing station also rests in water. According to Jack Azizeh, it was taken out of service/abandoned along with the Service Shop in 1992, but it is doubtful that this tank has been properly decommissioned.”

Tanks 2 through 22 are skid mounted fuel storage tanks with integrated secondary containment. The nominal volume is estimated to be 10,000 gallons each, with a total potential storage volume of 200,000 gallons. No evidence of leaks or spills were noted during the site inspection. However, Woodward-Clyde (1997) reported, “At least one 10,000 gallon tank has seeped around the valve stem and stained the soil beneath it.” The presence of stained soil could not be assessed during TPECI’s site visit due to snow cover.

Tank 23 is a steel fuel storage tank that does not have integrated secondary containment. The nominal volume is estimated to be 10,000 gallons. Tank 23 is located adjacent to the service

shop and north of Tank 1. According to Woodward-Clyde (1997), this AST is outside of secondary containment and rests on a high spot between the lined secondary containment for Tank 1 and a depression that was created by an extension of the shop (since demolished).

#### **4.3 CHEMICAL MATERIALS**

Chemical products are stored at South Pad. These chemicals include glycol, gasoline, motor oils, kerosene, greases, asphalt, and paint materials. The chemical materials appear to be concentrated in discreet locations throughout the site. These storage concentration areas include:

- The wooden skid adjacent to the asphalt storage area;
- Storage shed;
- Various connexes; and
- Two locations in the CIPM controlled area of South Pad.

In addition to the concentration areas, chemical materials are scattered throughout the site in individual 55-gallon drums and original shipping containers.

#### **4.4 REFUSE AND DEBRIS**

The 8.35 acre gravel pad is currently used to store various materials and items, including construction equipment (e.g., asphalt plant), construction materials (pipe, lumber, cabling, steel, etc.), vehicles (both in working condition and in various stages of 'parting-out'), fuel storage tanks, surplus materials, drums, and waste materials. It was difficult to determine what portion of these materials are new, usable, recyclable, and merely scrap. Thus, all have been included under this section.

##### *Construction Equipment*

The components of a disassembled asphalt plant are north of the service shop in an area that is approximately 50 feet by 50 feet square. Conveyors, feed hoppers, tanks, an operations 'van', and spare parts are also stored in this area.

##### *Construction Materials*

Construction materials are stored at various locations throughout South Pad.

- Various sizes of PVC pipe is stored in three locations around South Pad;
- Various sizes of steel pipe and material is stored in the northeast corner;
- Cable and miscellaneous construction supplies;
- 150 drums of asphalt; and



- Treated lumber pile (estimated to contain 192,000 cubic feet by Woodward-Clyde, 1997).

### *Vehicle Storage*

It appears that efforts have been made to confine vehicles to a single location. Based on aerial photographs of the site, this consolidation has occurred since the aerial photograph was taken on May, 1999. The following vehicles are parked adjacent to the lumber pile:

- Four 25T 6x6 Caterpillar articulated trucks;
- Two Tracked vehicles (Nodwell Type) with trailers;
- One School bus; and
- One City bus.

### *Drums*

Besides the ASTs, there are numerous drums of materials located on site. Most of the drums could not be characterized through visual inspection because the labels are either illegible or absent. The vast majority of these drums are located on a wooden skid adjacent to the asphalt storage area. According to Woodward-Clyde (1997), there are approximately 150 drums of asphalt, of which four appeared to be leaking. Approximately 50 drums of various materials, including glycol, kerosene, and oils, have been placed on a wooden skid. A survey of these drums indicated that some are leaking.

## **4.5 SITE DRAINAGE**

The site is a flat gravel pad and a dominant drainage pattern was not apparent. It is likely that surface water infiltrates into the gravels. It is likely that the gravels in the South Pad may be frozen at depth. The gravel pad is discussed in the following section.

## **4.6 FILL AREAS**

South Pad consists of imported gravel fill which is approximately 8 feet (Woodward-Clyde, 1997) thick and encompasses approximately 8.35 acres. Thus, total fill materials at South Pad are estimated to be 110,000 cubic yards.

#### **4.7     WATER WELLS AND WATER SERVICE**

There are no water wells at South Pad. The presence of shower facilities and bathrooms indicates that water service existed at one time. Water and waste water apparently was trucked to and from the site and is believed to have been stored in one of the large water tanks in the shop working space. Waste water was returned to the water tank marked 'non-potable' water. However, no above ground piping or evidence of below ground piping was observed during the site visit.

#### **4.8     SEWER AND SEPTIC SYSTEMS**

There is no evidence of sanitary sewers on site. A shop drain system appears to have been installed under the concrete floor of the shop. This was completely frozen at the time of the site inspection. There are four sumps below the slab (CH2M Hill, 1993). The sumps consist of circular steel tanks, 2 feet in diameter and 2 feet deep. This is the only system open to surface water inflows.

#### **4.9     ELECTRICAL UTILITIES AND TRANSFORMERS**

Electrical service is supplied to the South Pad shop. Two transformers were apparent during TPECI's site visit and both were located in the shop (Section 4.1.1). These appeared to be in working condition and no fluids were observed leaking from them. Woodward-Clyde (1997) noted that "there is a platform located on the west side of the Storage Building that is used to store transformers. These transformers were newer models, but were unlabeled as to whether they contain PCBs. No leaking of dielectric fluids from the transformers was evident." This rack was either covered by snow or has been removed from the site.

The ballasts of fluorescent lights were inspected by TPECI. The ballasts in the Storage Building were labeled as "Contains No PCBs".

#### **4.10    SURFACE VEGETATION**

The ability of TPECI personnel to inspect vegetation at the subject site and adjoining properties was limited due to the presence of snow cover on the pad and drifts surrounding the pad. However, inspection of the 1999 aerial photographs does not show any large denuded areas or vegetation in an obvious state of contaminant-caused stress. The photograph also shows that the gravel pad is not vegetated.

#### **4.11 ADJOINING PROPERTIES**

The land surrounding South Pad is not developed. Although South Pad has impacted the surrounding properties by creating or blocking natural drainage patterns, there is no evidence of gross disturbance.

### **5.0 GEOLOGY, HYDROLOGY, AND SOILS**

Our understanding of subsurface conditions is based on visual observations made while on the site and review of documentation concerning regional and local conditions.

#### **5.1 GEOLOGY AND SOILS**

The subject site is located in the Arctic Coastal Plain approximately 1 mile south of Barrow, Alaska. The geology of the site is typical of the North Slope of Alaska. The original surficial geology of the site was composed of Histic Pergelic Cryaquept soils in association with Pergelic Cryofibrists soils. The principal soil subgroups of this association include:

- Histic Pergelic Cryaquepts (50 percent);
- Pergelic Cryofibrists (20 percent);
- Pergelic Cryaquepts (15 percent); and
- Pergelic Cryaquolls (5 percent).

Minor soil subgroups, comprising 10 percent of the association, include:

- Pergelic Cryothents;
- Pergelic Ruptic-Histic Cryaquepts;
- Pergelic Cryosamments;
- Pergelic Cryaquepts; and
- Pergelic Cryumbrepts.

The four major soil subgroups are described below.

##### *Histic Pergelic Cryaquepts*

Histic Pergelic Cryaquepts “are poorly drained soils on nearly level to rolling plains. Polygons, frost scars, low mounds, and pingos are common surface features. The vegetative cover includes sedge tussocks, grasses, low shrubs, forbs, mosses, and lichens. Typically, under a thick mat of partially decomposed organic matter, the soils have a mottled dark gray layer of nonacid silt loam or loam over gray loamy material. The permafrost table is shallow” (Anon., 1979).

### *Pergelic Cryofibrists*

Pergelic Cryofibrists “are very poorly drained organic soils in broad depressions and shallow drainage ways and on the border of lakes. They consist of fibrous sedge and moss peat. In places, especially near the coast, the sedge peat contains lenses of sandy material. The peat is normally very strongly acid. Permafrost is shallow, and in summer the soil is always wet” (Anon., 1979).

### *Pergelic Cryaquepts*

Pergelic Cryaquepts “are poorly drained soils on higher parts of the plain, especially in the northernmost sections, and in the beds of naturally drained thaw lakes. They support low shrubs, forbs, mosses, lichens, and some sedge tussocks. Typically, under a thin mat of organic matter, they have a thin layer of mottled gray loamy material. Permafrost is shallow.” (Anon., 1979).

### *Pergelic Cryaquolls*

Pergelic Cryaquolls “are somewhat poorly drained soils on gentle slopes under a cover of low shrubs, sedges, grasses, and lichens. They formed normally in calcareous material. Typically, under a surface mat of organic material, the soils have an upper layer of black mucky silt loam over mottled very dark grayish brown silt loam and, below that, mottled very dark gray loamy material. The underlying material is gravelly in places. The permafrost table is shallow” (Anon., 1979)

The surface soils at the site are underlain by the permanently frozen marine and alluvial clays, silts, and gravels of the Gubik Formation. Across the North Slope of Alaska, the Gubik Formation extends to a depth between 45 and 147 feet below surface. The frozen, lacustrine deposits of the Gubik Formation overlay the bedded sandstones of the Sagavanirktok Formation (Kirschner et al., 1992). Permafrost extends to a depth in excess of 1,000 feet.

## **5.2 HYDROLOGY**

There is no groundwater in the area. The groundwater hydrology regime of the Arctic Coastal Plain is separated from surface water by permafrost. A seasonal groundwater table often is present in the active layer of the permafrost. However, this does not represent a usable aquifer or water source.

## **6.0 VICINITY ENVIRONMENTAL RECORDS**

A review was made of pertinent environmental records within a 1 mile radius for facilities located in the site vicinity. The reviewed records include databases and files available from the Alaska Department of Environmental Conservation (ADEC) and the Environmental Protection Agency (EPA). The records search was performed in accordance with standards established in 1997 by the ASTM (ASTM E-1527-97). The review records include:

- ADEC list of registered UST's;
- ADEC leaking UST list;
- ADEC contaminated sites list;
- EPA Resource Conservation and Recovery Act (RCRA). Current RCRA large quantity and small quantity generators. Current RCRA treatment, storage, and disposal (TSD) facilities, including corrective action sites (CORRACTS) and non-CORRACTS facilities;
- Comprehensive Environmental Response, Compensation, and Liability Act Information Systems (CERCLIS-State and Federal Superfund);
- EPA National Priority List (NPL); and
- Emergency Response Notification System (ERNS).

TPECI environmental records review is based on computerized data compiled by Environmental Data Resources Inc., (EDR). A copy of the EDR report appears in Appendix D.

### **6.1 REGISTERED UST'S AND AST'S**

Based on a search of reasonably ascertainable information (EDR, 2000) there are no registered ASTs or USTs located within the ASTM specified search radius. For AST's, the ASTM search radius is confined to the subject site and for UST's the ASTM specified search radius is within 1/4 mile of the subject site.

### **6.2 LEAKING UST'S**

Based on a search of reasonably ascertainable information (EDR, 2000), there are no leaking UST's located within the ASTM specified search radius (within 1/2 mile of the subject site).

### **6.3 ADEC CONTAMINATED SITES LIST**

This database is regarded as the state equivalent of the federal CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information) listing and includes the following: (1) sites where there has been a confirmed release of a hazardous substance, (2) sites where there has been a confirmed release and investigation or where cleanup has been initiated or

completed, and (3) sites where there has been no confirmed release but for which the ADEC has received information indicating there may have been release of hazardous substances. The ADEC uses the federal CERCLIS database. The CERCLIS database contains information about abandoned, inactive, or uncontrolled hazardous waste sites that may require cleanup. A search of this database, performed by EDR, indicates that there are no state hazardous waste sites located within 1 mile of the subject site.

## **6.4 RCRA LIST**

The RCRA Administration Action Tracking System (RAATS) was searched for RCRA sites located within 1 mile of the site. There are no RAATS sites located within the area of review for the subject property.

### **6.4.1 RCRA Corrective Action Facilities**

RCRA corrective action facilities are sites which are currently performing site clean-up in accordance with the Resource Conservation and Recovery Act. There is no sites located within the area of review for the subject site.

### **6.4.2 RCRA TSD Facilities**

The RCRA TSD listing includes all facilities which report the treatment, storage, and/or disposal of hazardous waste. There are no RCRA TSD sites located within the area of review for the site.

### **6.4.3 RCRA Generators**

The RCRA generators database includes all facilities which report the generation, storage, transportation, treatment, or disposal (TSD) of hazardous wastes. Separate listings are maintained for large and small generators, respectively defined as facilities that generate more than or less than 1,000 kg of non-acutely hazardous waste per month. There are no RCRA Generators located within the area of review for the site.

## **6.5 CERCLIS LIST**

TPECI reviewed state and federal databases to identify properties within the site vicinity that are known to contain environmental contamination or that house facilities that generate, store, treat, transport, or dispose of potentially hazardous materials. The information contained in each reviewed database is summarized below.

### EPA National Priorities List

The National Priorities List (NPL) includes properties or facilities which the EPA has designated as requiring priority remedial action and which Superfund financing has been allotted. No NPL sites were found on the subject property or within the ASTM E 1527-97 search radius around the subject site.

### EPA CERCLIS Database

The CERCLIS database contains a list of properties which have been or are being investigated by the EPA for existing or potential releases of hazardous substances under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (Superfund). No such sites are located within the area of review for the subject property.

### EPA RCRA Generators List

The EPA Resource Conservation and Recovery Act (RCRA) generators list is a compilation of registered facilities that generate hazardous waste. No facilities included on the listing are located in the area of review for the subject site.

### EPA RCRA TSD List

The EPA RCRA TSD list is a compilation of registered facilities that transport, store, or dispose of hazardous wastes. No such facilities are located within the area of review for the subject property.

### ADEC Contaminated Sites Database

The ADEC Contaminated Sites listing is a record of known or suspected contaminated sites including leaking underground storage tanks, petroleum spill sites, and sites contaminated with hazardous substances other than petroleum. There are no such sites located within the area of review for the subject property.

## **6.6 EMERGENCY RESPONSE NOTIFICATION SYSTEM**

The Federal Emergency Response Notification System (ERNS) is a national database of reported releases of oil and hazardous substances. There are no ERNS sites located within the area of review for the subject property.

## **7.0 ASBESTOS**

An inspection for asbestos and asbestos-containing materials was not included in the scope of work for this project. The unfaced insulation in the shop was installed when the shop was constructed (early 1980's) and Gilbreth (2000) expressed that it had never been tested for asbestos materials to his knowledge.

## **8.0 LEAD-BASED PAINT**

A lead-based paint survey was not included within the scope of this investigation.

## **9.0 CONCLUSIONS AND RECOMMENDATIONS**

South Pad is a potential environmental liability for the NSB. This is primarily based on the diversity of chemical materials stored on the site. The chemicals range from usable materials (5-gallon pails of motor oil) to potentially toxic materials (methyl ethyl ketone) to chemicals that will now be classified as hazardous wastes (out of date paints and solvents).

Woodward-Clyde (1997) provided a summary of the impairment that currently exists at the property. Woodward-Clyde concluded there was evidence of:

- Contamination of the gravel pad resulting from the uncontrolled spills of chemical materials, including:
  - an engine fluid spill from a parked piece of machinery;
  - seepage from one of the stored ASTs;
  - spillage under the drum platform (skid) from approximately 25% of the containers stored there;
  - spillage from hazardous waste drums at this skid;
  - leakage of asphalt materials; and
  - small spills from various containers scattered throughout the site.
- Soil contamination may be associated with leaching of chemicals from the lumber stockpile; and
- Potential petroleum contamination associated with the old dispensing station and stored ASTs.

Recommendations based on the TPECI Phase I Environmental Site Assessment fall into two categories: Property Management and Phase II environmental sampling.



TABLE 2

## SAMPLING LOCATIONS, PROTOCOLS, AND ESTIMATED NUMBER OF SAMPLES

| Sampling Location  | Depth                                    | Constituents  | Sample Protocol  | Number of Samples  |
|--|--|---|--|--|
| <b>Service Shop</b><br>The highest concentration of contaminants would be associated with the shop drain system. Sampling under the slab should be performed on the soils adjacent to the drain. We recommend an angled drill from the perimeter of the Service shop building. | 2-3 feet below shop floor                | diesel fuel; grease, oil, and hydraulic fluid;<br>paints/solvents/wood preservatives; asphalt; glycol; adhesives; and small quantities of hazardous materials (battery acid etc.) | BTEX<br>GRO<br>DRO<br>RRO<br>8 RCRA METALS                   | 4 Soil Samples (minimum)<br>one at each end of the drain;<br>one in the middle; and<br>one laboratory duplicate.   |
| <b>Storage Building</b><br>The highest concentration would be anticipated in areas where staining is present. If no staining present, take samples in walkways and sheltered area between connexes.  | Soil Surface                             | Paints; oils; glycol;<br>adhesives; solvents; and greases   | BTEX<br>RRO<br>8 RCRA METALS                                 | 5 Soil Samples (minimum)<br>four from under the storage shed as described in column 1; and<br>one laboratory duplicate.  |
| <b>Lumber Pile</b><br>Assumed preservatives include pentachlorophenol and Chromated Copper Arsenate.   | Soil Surface and gravel tundra interface | Preservatives   | EPA method 8270<br>(Pentachlorophenol)<br>Chromium<br>Copper | 7 Soil Samples<br>four from lumber pile perimeter;<br>two samples at the gravel/tundra interface; and one laboratory duplicate<br>1 Wood Sample<br>from a board from inside bundle |
| <b>Asphalt Storage Area</b><br>Leaking drums of asphalt may have contaminated soil below them. Remove solid asphalt from soil surface before collecting sample   | Soil Surface                             | Asphalt   | RRO  | 6 Soil Samples<br>five from under the asphalt drums;<br>and one laboratory duplicate   |

TABLE 2 (CONTINUED)

## SAMPLING LOCATIONS, PROTOCOLS, AND ESTIMATED NUMBER OF SAMPLES

|   |  |  |  |   |
|---|--|--|--|---|
| <b>Drum Storage Areas</b><br>Drum storage areas contain leaking drums of unknown fluids.  | Soil<br>Surface<br>and gravel<br>tundra<br>interface | diesel fuel; grease, oil, and<br>hydraulic fluid;<br>paints/solvents/wood preservatives;<br>asphalt;<br>glycol; adhesives; and small<br>quantities of hazardous materials<br>(battery acid etc.) | BTEX<br>DRO<br>RRO<br>8 RCRA Metals<br>Glycol  | <b>32 Soil Samples</b><br>4 samples from each of 8 drum<br>storage areas<br>Two soil samples<br>One soil sample at gravel/tundra<br>interface<br>One laboratory duplicate per 10<br>samples |
| <b>Miscellaneous Drums</b><br>There are numerous drums scattered about the site. These drums have no labels and contain unknown materials. Where ground staining is present under the drum, sampling should be performed. | Soil<br>Surface<br>and gravel<br>tundra<br>interface | diesel fuel; grease, oil, and<br>hydraulic fluid;<br>paints/solvents/wood preservatives;<br>asphalt;<br>glycol; adhesives; and small<br>quantities of hazardous materials<br>(battery acid etc.) | BTEX<br>DRO<br>RRO<br>8 RCRA Metals<br>Glycol  | <b>50 Soil Samples</b><br>One soil samples from the soil under<br>each drum or group of drums<br>One sample from gravel/tundra<br>interface<br>One laboratory duplicate per 10<br>samples   |
| <b>Drums of Known Contents</b><br>If the contents of a drum is known, then the appropriate test should be performed for that material only.   | Soil<br>Surface<br>and gravel<br>tundra<br>interface | <b>Diesel fuel</b><br><i>Oil</i><br><b>Solvents</b><br><i>Glycol</i><br><b>Hazardous materials</b>   | <b>DRO and BTEX</b><br><i>RRO</i><br><b>BTEX</b><br><i>Glycol</i><br><b>Chemical specific test</b> | <b>20 Soil Samples</b><br>One soil samples from under each<br>drum or group of drums<br>One sample from gravel/tundra<br>interface<br>One laboratory duplicate per 10<br>samples            |
| <b>ASTs Stored on Site</b><br>There are numerous large ASTs stored on-site. These are presumed to have contained diesel. The soil underneath each of the outlet should be sampled for contamination.                      | Soil<br>Surface                                      | Diesel (Arctic Grade)  | BTEX<br>DRO  | <b>25 Samples</b><br>One sample next to each tank<br>One duplicate per 10 samples   |
| <b>Dispensing Facility</b><br>The soil under the liner and along all distribution lines should be sampled   | Soil<br>Surface                                      | Diesel (Arctic Grade)  | BTEX<br>DRO  | <b>5 Samples</b><br>Four under liner & distribution lines<br>One laboratory duplicate for location  |





**1971 AERIAL PHOTOGRAPH OF SOUTH PAD, BARROW ALASKA**



**1981 AERIAL PHOTOGRAPH OF SOUTH PAD, BARROW ALASKA**



**1991 AERIAL PHOTOGRAPH OF SOUTH PAD, BARROW ALASKA**





**1999 AERIAL PHOTOGRAPH OF SOUTH PAD, BARROW ALASKA**







## **The EDR-Radius Map with GeoCheck<sup>®</sup>**

**South Pad  
South Pad  
Barrow, AK 99723**

**Inquiry Number: 457599.1s**

**January 28, 2000**

## ***The Source For Environmental Risk Management Data***

3530 Post Road  
Southport, Connecticut 06490

### **Nationwide Customer Service**

Telephone: 1-800-352-0050  
Fax: 1-800-231-6802  
Internet: [www.edrnet.com](http://www.edrnet.com)

## TABLE OF CONTENTS

| <u>SECTION</u>  | <u>PAGE</u> |
|---|-------------|
| Executive Summary .....   | ES1         |
| Topographic Map .....   | 2           |
| GeoCheck Summary .....  | 3           |
| Overview Map .....  | 5           |
| Detail Map .....  | 6           |
| Map Summary .....   | 7           |
| Map Findings .....  | 8           |
| Orphan Summary .....  | 9           |
| Zip Scan Report .....   | 10          |
| <br><u>APPENDICES</u>   |             |
| GeoCheck Version 2.1 .....  | A1          |
| Government Records Searched / Data Currency Tracking Addendum ..... | A3          |

***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-97. Search distances are per ASTM standard or custom distances requested by the user.

The address of the subject property for which the search was intended is:

SOUTH PAD  
BARROW, AK 99723

No mapped sites were found in EDR's search of available ( "reasonably ascertainable ") government records either on the subject property or within the ASTM E 1527-97 search radius around the subject property for the following Databases:

|               |  |
|---------------|--|
| NPL:          | National Priority List   |
| Delisted NPL: | NPL Deletions  |
| RCRIS-TSD:    | Resource Conservation and Recovery Information System                                |
| SHWS:         | State Haz. Waste   |
| CERCLIS:      | Comprehensive Environmental Response, Compensation, and Liability Information System |
| CERC-NFRAP:   | Comprehensive Environmental Response, Compensation, and Liability Information System |
| CORRACTS:     | Corrective Action Report   |
| SWF/LF:       | Solid Waste Facilities   |
| LUST:         | Leaking Underground Storage Tank Database  |
| UST:          | Underground Storage Tank Database  |
| AST:          | Oil Terminal Facilities  |
| RAATS:        | RCRA Administrative Action Tracking System   |
| RCRIS-SQG:    | Resource Conservation and Recovery Information System                                |
| RCRIS-LQG:    | Resource Conservation and Recovery Information System                                |
| HMIRS:        | Hazardous Materials Information Reporting System                                     |
| PADS:         | PCB Activity Database System   |
| ERNS:         | Emergency Response Notification System   |
| FINDS:        | Facility Index System/Facility Identification Initiative Program Summary Report      |
| TRIS:         | Toxic Chemical Release Inventory System  |
| NPL Lien:     | NPL Liens  |
| TSCA:         | Toxic Substances Control Act   |
| MLTS:         | Material Licensing Tracking System   |
| AK Spills:    | AK Spills  |
| ROD:          | ROD  |
| CONSENT:      | Superfund (CERCLA) Consent Decrees   |
| MINES:        | Mines Master Index File  |

Unmapped (orphan) sites are not considered in the foregoing analysis.

### Search Results:

Search results for the subject property and the search radius, are listed below:

### Subject Property:

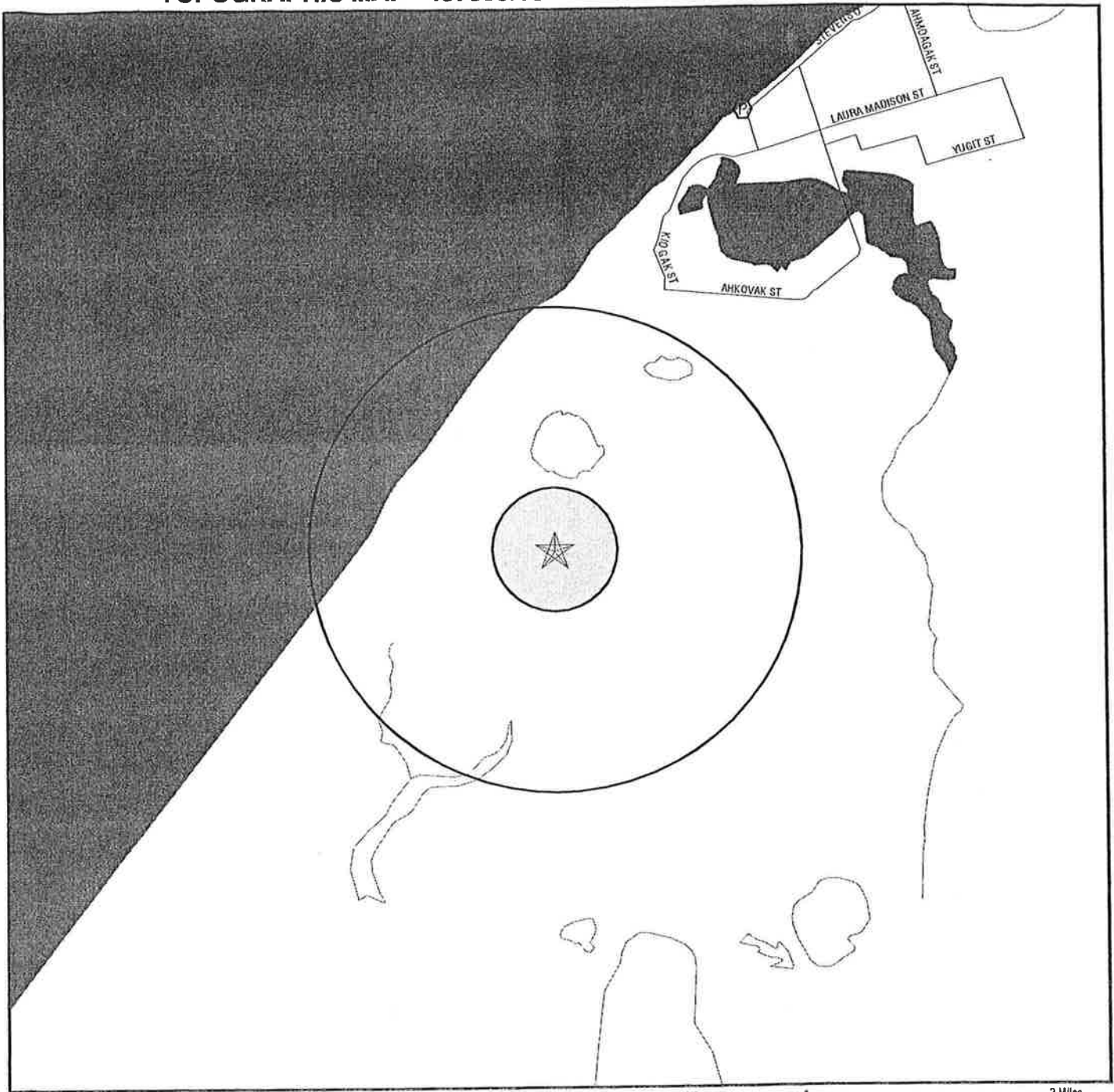
The subject property was not listed in any of the databases searched by EDR.

## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

| Site Name                                       | Database(s)               |
|---|---------------------------|
| AIRLINE FACILITY                                | SHWS                      |
| OLD FUEL STORAGE TANK FARM                      | SHWS                      |
| RESIDENCE                                       | SHWS                      |
| DEWLINE SITE                                    | SHWS                      |
| DEWLINE SITE                                    | SHWS                      |
| OLD WASTE DISPOSAL AREA                         | SHWS                      |
| LAGOON  | SHWS                      |
| RESEARCH LAB                                    | SHWS                      |
| DRY CLEANING FACILITY, FORMER                   | SHWS                      |
| POWERHOUSE                                      | SHWS                      |
| AIRSTRIIP FUEL SPILL                            | SHWS                      |
| BULK FUEL TANK FARM                             | SHWS                      |
| EAST SIMPSON NO. 2                              | SHWS                      |
| DEWLINE SITE - POW 3 POL TANKS                  | SHWS                      |
| DEWLINE SITE                                    | SHWS                      |
| DEWLINE SITE - POW 3 LANDFILL                   | SHWS                      |
| DEWLINE SITE - POW 3 TRANSFORMERS               | SHWS                      |
| FUEL DUMP                                       | SHWS                      |
| DEWLINE SITE                                    | SHWS                      |
| DEWLINE SITE, FUDS                              | SHWS                      |
| DEWLINE SITE                                    | SHWS                      |
| DEWLINE SITE FUDS                               | SHWS                      |
| CAPE LISBURNE LRRS LUST SITES                   | SHWS                      |
| SAGWON AIRSTRIIP DUMP                           | SHWS                      |
| (DERP) UMIAT STAGING AREA                       | CERCLIS, FINDS, RCRIS-LQG |
| USDOI BLM KOGRU RIV DEWLINE ST                  | CERCLIS                   |
| ELSON NIKE SITE                                 | SWF/LF                    |
| BARROW TOS INCINERATOR                          | SWF/LF                    |
| BARROW LANDFILL (NSB)                           | SWF/LF                    |
| BARROW DUMP                                     | SWF/LF                    |
| NUIQSUT LANDFILL (NSB)                          | SWF/LF                    |
| POINT LAY LANDFILL (NSB)                        | ERNS                      |
| ARCO FACILITY 2 MARY PAD                        | ERNS                      |
| BOC PAD PRUDHOE BAY OIL FIELD                   | ERNS                      |
| MILNEY PT OIL FIELD L PAD                       | ERNS                      |
| PAD R OF PRUDOE BAY OIL FIELD WESTERN OPERATING | ERNS                      |
| PRICE PAD PRUDHOE BAY                           | ERNS                      |
| PRUDHOE BAY UNIT WELL PAD L5                    | ERNS                      |
| PRUDHOE BAY OIL FIELD COLD STORAGE PAD          | ERNS                      |
| PRUDHOE BAY FIELD PRICE PAD                     | ERNS                      |
| SPINE RD AND COAL STORAGE PAD                   | ERNS                      |

# TOPOGRAPHIC MAP - 457599.1s - Travis Peterson Env. Cons. Inc



- Major Roads
- Contour Lines
- Waterways
- Earthquake epicenter, Richter 5 or greater
- Closest Federal Well in quadrant
- Closest State Well in quadrant
- Closest Public Water Supply Well

No contour lines were detected within this map area.

TARGET PROPERTY: South Pad  
 ADDRESS: South Pad  
 CITY/STATE/ZIP: Barrow AK 99723  
 LAT/LONG: 71.2649 / 156.8158

CUSTOMER: Travis Peterson Env. Cons. Inc  
 CONTACT: Mr. Eddie Packee  
 INQUIRY #: 457599.1s  
 DATE: January 28, 2000 6:33 pm

## GEOCHECK VERSION 2.1 SUMMARY

### TARGET PROPERTY COORDINATES

Latitude (North): 71.264900 - 71° 15' 53.6"  
Longitude (West): 156.815796 - 156° 48' 56.9"  
Universal Transverse Mercator: Zone 4  
UTM X (Meters): 578288.8  
UTM Y (Meters): 7908184.5

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH THIS SITE

Target Property: N/A

### GEOLOGIC AGE IDENTIFICATION†

Geologic Code: Data Not Available  
Era: -  
System: -  
Series: -

### ROCK STRATIGRAPHIC UNIT†

Category: -

### GROUNDWATER FLOW INFORMATION

*Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, including well data collected on nearby properties, regional groundwater flow information (from deep aquifers), or surface topography.‡*

AQUIFLOW™\*\* Search Radius: 2.000 Miles. The following table shows sites where groundwater flow and depth information was reported. Additional AQUIFLOW™ site information may be available in the GeoCheck® section at the end of this report.

| <u>MAP ID</u> | <u>DISTANCE<br/>FROM TP</u> | <u>DIRECTION<br/>FROM TP</u> | <u>GENERAL DIRECTION<br/>GROUNDWATER FLOW</u> |
|---------------|-----------------------------|------------------------------|---|
| Not Reported  |                             |                              |   |

General Topographic Gradient at Target Property: Undeterminable

General Hydrogeologic Gradient at Target Property: No hydrogeologic data available.

### FEDERAL DATABASE WELL INFORMATION

| <u>WELL<br/>QUADRANT</u> | <u>DISTANCE<br/>FROM TP</u> | <u>LITHOLOGY</u> | <u>DEPTH TO<br/>WATER TABLE</u> |
|--------------------------|-----------------------------|------------------|---------------------------------|
| NO WELLS FOUND           |                             |                  |                                 |

### PUBLIC WATER SUPPLY SYSTEM INFORMATION

Searched by Nearest PWS.

**NOTE:** PWS System location is not always the same as well location.

PWS Name: WATER SERVICES  
MR. GUY BOWEN  
P.O. BOX 770  
BARROW, AK 99723

Location Relative to TP: 1 - 2 Miles North

PWS currently has or has had major violation(s) or enforcement: Yes

† Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).  
‡ U.S. EPA Ground Water Handbook, Vol I: Ground Water and Contamination, Office of Research and Development EPA/625/6-90/016a, Chapter 4, page 78, September 1990.  
\*\* EDR AQUIFLOW™ information System of hydrogeologically determined groundwater flow directions at specific locations. See the data pages at the end of this report for a complete description.

## GEOCHECK VERSION 2.1 SUMMARY

### AREA RADON INFORMATION

EPA Radon Zone for NORTH SLOPE County: 3

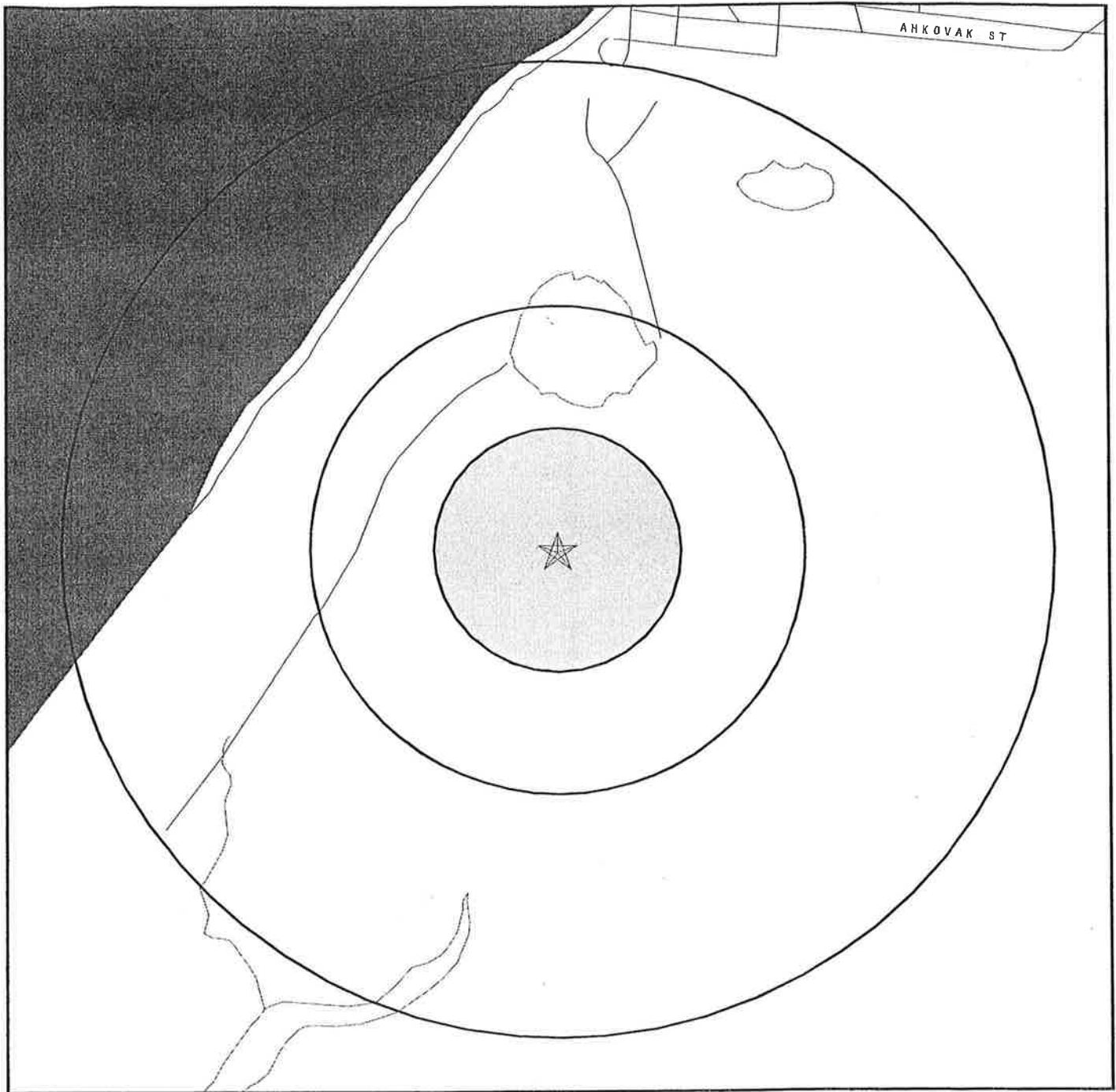
Note: Zone 1 indoor average level > 4 pCi/L.  
: Zone 2 indoor average level  $\geq 2$  pCi/L and  $\leq 4$  pCi/L.  
: Zone 3 indoor average level < 2 pCi/L.

NORTH SLOPE COUNTY, AK

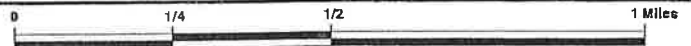
Number of sites tested: 1

| Area                    | Average Activity | % <4 pCi/L   | % 4-20 pCi/L | % >20 pCi/L  |
|-------------------------|------------------|--------------|--------------|--------------|
| Living Area - 1st Floor | 2.000 pCi/L      | 100%         | 0%           | 0%           |
| Living Area - 2nd Floor | Not Reported     | Not Reported | Not Reported | Not Reported |
| Basement                | Not Reported     | Not Reported | Not Reported | Not Reported |

# OVERVIEW MAP - 457599.1s - Travis Peterson Env. Cons. Inc



- ★ Target Property
- ▲ Toxic Sites
- ▲ Coal Gasification Sites (if requested)
- ▨ National Priority List Sites
- ▨ Landfill Sites

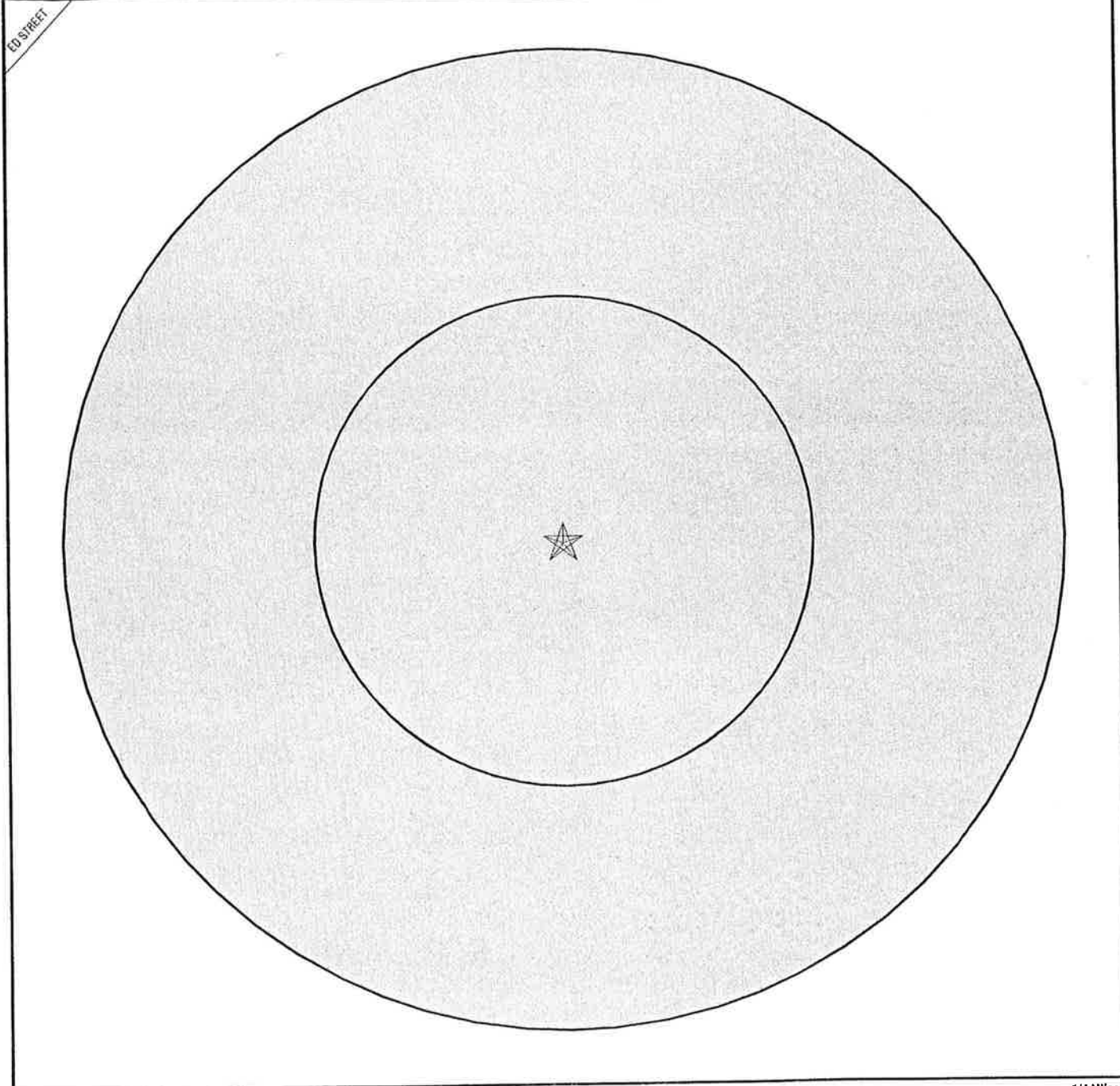


TARGET PROPERTY: South Pad  
 ADDRESS: South Pad  
 CITY/STATE/ZIP: Barrow AK 99723  
 LAT/LONG: 71.2649 / 156.8158

CUSTOMER: Travis Peterson Env. Cons. Inc  
 CONTACT: Mr. Eddie Packee  
 INQUIRY #: 457599.1s  
 DATE: January 28, 2000 6:32 pm



# DETAIL MAP - 457599.1s - Travis Peterson Env. Cons. Inc



- ★ Target Property
- ▲ Toxic Sites
- ▲ Coal Gasification Sites (if requested)
- ▲ Sensitive Receptors
- National Priority List Sites
- Landfill Sites

0 1/16 1/8 1/4 Miles



TARGET PROPERTY: South Pad  
 ADDRESS: South Pad  
 CITY/STATE/ZIP: Barrow AK 99723  
 LAT/LONG: 71.2649 / 156.8158

CUSTOMER: Travis Peterson Env. Cons. Inc  
 CONTACT: Mr. Eddie Packee  
 INQUIRY #: 457599.1s  
 DATE: January 28, 2000 6:33 pm

# MAP FINDINGS SUMMARY

| Database             | Target Property | Search Distance (Miles) | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|----------------------|-----------------|-------------------------|-------|-----------|-----------|---------|-----|---------------|
| NPL                  |                 | 1.000                   | 0     | 0         | 0         | 0       | NR  | 0             |
| Delisted NPL         |                 | 1.000                   | 0     | 0         | 0         | 0       | NR  | 0             |
| RCRIS-TSD            |                 | 0.500                   | 0     | 0         | 0         | NR      | NR  | 0             |
| State Haz. Waste     |                 | 1.000                   | 0     | 0         | 0         | 0       | NR  | 0             |
| CERCLIS              |                 | 0.500                   | 0     | 0         | 0         | NR      | NR  | 0             |
| CERC-NFRAP           |                 | 0.250                   | 0     | 0         | NR        | NR      | NR  | 0             |
| CORRACTS             |                 | 1.000                   | 0     | 0         | 0         | 0       | NR  | 0             |
| State Landfill       |                 | 0.500                   | 0     | 0         | 0         | NR      | NR  | 0             |
| LUST                 |                 | 0.500                   | 0     | 0         | 0         | NR      | NR  | 0             |
| UST                  |                 | 0.250                   | 0     | 0         | NR        | NR      | NR  | 0             |
| AST                  |                 | TP                      | NR    | NR        | NR        | NR      | NR  | 0             |
| RAATS                |                 | TP                      | NR    | NR        | NR        | NR      | NR  | 0             |
| RCRIS Sm. Quan. Gen. |                 | 0.250                   | 0     | 0         | NR        | NR      | NR  | 0             |
| RCRIS Lg. Quan. Gen. |                 | 0.250                   | 0     | 0         | NR        | NR      | NR  | 0             |
| HMIRS                |                 | TP                      | NR    | NR        | NR        | NR      | NR  | 0             |
| PADS                 |                 | TP                      | NR    | NR        | NR        | NR      | NR  | 0             |
| ERNS                 |                 | TP                      | NR    | NR        | NR        | NR      | NR  | 0             |
| FINDS                |                 | TP                      | NR    | NR        | NR        | NR      | NR  | 0             |
| TRIS                 |                 | TP                      | NR    | NR        | NR        | NR      | NR  | 0             |
| NPL Liens            |                 | TP                      | NR    | NR        | NR        | NR      | NR  | 0             |
| TSCA                 |                 | TP                      | NR    | NR        | NR        | NR      | NR  | 0             |
| MLTS                 |                 | TP                      | NR    | NR        | NR        | NR      | NR  | 0             |
| AK Spills            |                 | TP                      | NR    | NR        | NR        | NR      | NR  | 0             |
| ROD                  |                 | 1.000                   | 0     | 0         | 0         | 0       | NR  | 0             |
| CONSENT              |                 | 1.000                   | 0     | 0         | 0         | 0       | NR  | 0             |
| MINES                |                 | 0.250                   | 0     | 0         | NR        | NR      | NR  | 0             |

TP = Target Property

NR = Not Requested at this Search Distance

\* Sites may be listed in more than one database

MAP FINDINGS

Map ID  
Direction  
Distance  
Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

Coal Gas Site Search: EDR does not presently have coal gas site information available in this state.

NO SITES FOUND

| ZIP  | EDR-ID     | Facility/ID   | Name                                  | Address                          | Map/Dir/Dist | City            | State | Databases                             |
|--|------------|---------------|---------------------------------------|----------------------------------|--------------|-----------------|-------|---------------------------------------|
| ** - Indicates location may or may not be in requested radius. Site has not been assigned a latitude/longitude coordinate. Further review recommended. |            |               |                                       |                                  |              |                 |       |                                       |
| 99723  | 97400964   |               | LANDFILL                              |                                  |              |                 |       | ERNS                                  |
| 99723  | S103228877 |               | NAVAL ARCTIC RESEARCH LAB (BARROW)    |                                  |              | WAINWRIGHT      | AK    | SHWS                                  |
| 99723  | S103377208 | 1451          | VORTHAC FACILITY                      |                                  |              | BARROW          | AK    | LF                                    |
| 99723  | S104224127 |               | PHSHOSPITAL                           |                                  |              | BARROW          | AK    | SHWS                                  |
| 99723  | S104224129 |               | MIDDLE SALT LAGOON                    |                                  |              | BARROW (NEAR)   | AK    | SHWS                                  |
| 99723  | S104224139 |               | RADIATION LABORATORY                  |                                  |              | BARROW (NEAR)   | AK    | SHWS                                  |
| 99723  | S104224141 |               | USNAVY ARCTIC RESEARCH LABORATORY     | N71 19 30 W 156 41 00            |              | BARROW          | AK    | PADS, FINDS, RCRIS/LQG, CERCLIS-NFRAP |
| 99723  | 1000160369 | AK2170027245  | UKPEAGV INUPIAT CORP                  | N71 19 30 W 156 41 00 F2         |              | BARROW          | AK    | RCRIS/SQG, FINDS                      |
| 99723  | 1001085206 | AKR000000554  | BARROW UTILITIES & ELECTRIC           | 1295 AGVIST ST                   |              | BARROW          | AK    | RCRIS/SQG, FINDS                      |
| 99723  | 1000368280 | AKD050179761  | CAPE SMYTH AIR SVC                    | 1707 AKVOAK ST                   |              | UMIAT           | AK    | CERCLIS-NFRAP                         |
| 99723  | 1001022690 | AKR000000505  | USDOT FAA UMIAT AIRSTRIP STAGING AREA | N BANK COLVILLE RIVER            |              | UMIAT           | AK    | SHWS                                  |
| 99723  | 1000342740 | AK-690502459  | (USDOT) UMIAT STAGING AREA            | NORTH BANK COLVILLE RIVER        |              | BARROW          | AK    | FINDS, RCRIS/LQG, CERCLIS-NFRAP       |
| 99723  | 1004225864 | AK4143690101  | USDOI FWS DEMARCATION POINT DEW L     | BARROW 380 MI SE                 |              | BARROW          | AK    | CERCLIS-NFRAP                         |
| 99723  | 1000904432 | AK8141190100  | USDOI BLM PEARL BAY DEWLINE SITE      | BARROW 50 MI SW                  |              | BARROW          | AK    | SHWS                                  |
| 99723  | 1000332772 |               | AIRLINE FACILITY                      | BARROW AIRPORT                   |              | BARROW          | AK    | CERCLIS-NFRAP                         |
| 99723  | S103376878 | AK1690502439  | USDOT FAA BARROW AIR NAVIGATIONS      | BARROW AIRPORT AREA              |              | BARROW          | AK    | FINDS, RCRIS/LQG, CERCLIS-NFRAP       |
| 99723  | 1000586360 | AKD981761984  | CAPE SIMPSON DEW STATION              | BEACH ROAD                       |              | BARROW          | AK    | LF                                    |
| 99723  | 1000904361 | 6339          | BARROW TOS INCINERATOR                | BETWEEN N SALT LAGOON /          |              | BARROW (NEAR)   | AK    | SHWS                                  |
| 99723  | S103785782 |               | DEWLINE SITE                          | PO BOX 536                       |              | BARROW          | AK    | AST                                   |
| 99723  | S104224133 |               | BLOCK B TANK FARM                     | PO BOX 69                        |              | BARROW          | AK    | AST                                   |
| 99723  | S100024015 |               | BARROW FUEL STORAGE FACILITY Y-NSB    | BTWN SALT LAGOON & IMIKPUK LK    |              | BARROW          | AK    | FINDS, RCRIS/LQG, CERCLIS-NFRAP       |
| 99723  | 1000226578 | AK1570028695  | USAF POINT BARROW IRRS                | BULLEN POINT                     |              | BULLEN          | AK    | SHWS                                  |
| 99723  | S104224211 |               | DEWLINE SITE - POW 3 POL TANKS        | BULLEN POINT                     |              | BULLEN          | AK    | SHWS                                  |
| 99723  | S104224212 |               | DEWLINE SITE - POW 3 LANDFILL         | BULLEN POINT                     |              | BULLEN          | AK    | SHWS                                  |
| 99723  | S104224213 |               | DEWLINE SITE - POW 3 TRANSFORMERS     | BULLEN POINT                     |              | BULLEN          | AK    | SHWS                                  |
| 99723  | S104224214 |               | USAF DEWLINE SITE POW 3               | BULLEN PTE OF FLAXMAN IS         |              | BARROW          | AK    | CERCLIS, RCRIS/SQG, FINDS             |
| 99723  | 1000226891 | AK2570028652  |                                       |                                  |              |                 |       | SHWS                                  |
| 99723  | S104225472 |               | CAPE LISBURNE IRRS LUST SITES         | CAPE LISBURNE                    |              | POINT HOPE      | AK    | AST                                   |
| 99723  | A100024012 |               | PT. HOPE FUEL STORAGE FACILITY        | CHRIS MELLO, NORTH SLOPE BOROUGH |              | BARROW          | AK    | AST                                   |
| 99723  | A100024010 |               | WAINWRIGHT POWER PLANT FUEL STORAGE   | CHRIS MELLO, NORTH SLOPE BOROUGH |              | BARROW          | AK    | FINDS, RCRIS/LQG                      |
| 99723  | 1001085205 | AKR0000000547 | BARROW CY OF NORTH SLOPE BOROUGH      | 2 MI E OF BARROW                 |              | BARROW          | AK    | RCRIS/SQG, FINDS                      |
| 99723  | 1001115154 | AKR000001933  | CONSTRUCTORS PACIFIC ASPHALT PLT      | WEST END OF RUNWAY               |              | BARROW          | AK    | PADS, CERCLIS, RCRIS/SQG, FINDS       |
| 99723  | 1000226943 | AK9570028655  | USAF GALENA AIR FORCE STATION         | GALENA AIRPORT                   |              | GALENA          | AK    | FINDS                                 |
| 99723  | S104224128 |               | OLD FUEL STORAGE TANK FARM            | HOPSON STREET                    |              | BARROW          | AK    | SHWS                                  |
| 99723  | S103228878 |               | RESIDENCE                             | 4211 KARLUK STREET               |              | BARROW          | AK    | SHWS                                  |
| 99723  | 1000904430 | AK0141190082  | USDOI BLM KOGURU RIV DEWLINE ST       | WMARGIN HARRISON BAY             |              | BARROW (NEAR)   | AK    | CERCLIS, FINDS, RCRIS/LQG             |
| 99723  | S104224142 |               | OLD WASTE DISPOSAL AREA               | 1/2 MILES. OF NARL               |              | POINT HOPE      | AK    | SHWS                                  |
| 99723  | 96504655   |               | 1.5 MILES WEST OF POINT HOPE          | 3.5 MILES WEST OF POINT HOPE     |              | CERCLIS         | AK    | ERNS                                  |
| 99723  | 1001475726 | AKSFN1002131  | ELSONNIKE SITE                        | 3.5 MILES NE OF BARROW           |              | BARROW (NEAR)   | AK    | SHWS                                  |
| 99723  | S104224135 |               | RESEARCH LAB                          | 4 MILES NE OF BARROW             |              | FIN CREEK       | AK    | SHWS                                  |
| 99723  | S103376932 |               | FUEL DUMP                             | 40 MILES EAST OF SAGWON          |              | BARROW (NEAR)   | AK    | SHWS                                  |
| 99723  | S104224134 |               | DRY CLEANING FACILITY, FORMER         | 4 MILES NE OF BARROW             |              | BARROW (NEAR)   | AK    | SHWS                                  |
| 99723  | S104224140 |               | BARROW LANDFILL (NSB)                 | NARL FACILITY                    |              | BARROW          | AK    | LF                                    |
| 99723  | S103765501 | 1117          | POWERHOUSE                            | NARL ROAD                        |              | BARROW (NEAR)   | AK    | SHWS                                  |
| 99723  | S104224136 |               | AIRSTRIP FUEL SPILL                   | 4 MINE OF BARROW                 |              | BARROW (NEAR)   | AK    | SHWS                                  |
| 99723  | S104224137 |               | USDOI BLM SKULL CLIFF LORAN STA       | NEAR AIRSTRIP                    |              | BARROW (NEAR)   | AK    | CERCLIS-NFRAP                         |
| 99723  | 100043661  | AK2141100196  | NORTH SLOPE BOROUGH PUBLIC WORK       | 23 MI SW OF BARROW ON COAST      |              | BARROW          | AK    | RCRIS/SQG, FINDS                      |
| 99723  | 1000128852 | AKD983006051  | USAF DEWLINE SITE POW 1 LONELY        | 1685 OKPIK                       |              | BARROW          | AK    | FINDS, RCRIS/LQG, CERCLIS-NFRAP       |
| 99723  | 1000697858 | AK3570028677  | POINT LAY LANDFILL (NSB)              | PITTPTE OF SMITH BAY             |              | POINT LAY       | AK    | LF                                    |
| 99723  | S102977896 | 1439          | FRANK MOOLIN & ASSOC., INC.           | POUCH B                          |              | BARROW          | AK    | MLTS                                  |
| 99723  | 1001207722 |               | USDOI BLM CHANDALARDUMP               | T16SR11 E SECUM 155 MI SEC CY    |              | BARROW          | AK    | CERCLIS-NFRAP                         |
| 99723  | 1000709010 | AK7141167133  | BULK FUEL TANK FARM                   | SAGWON LANDING STRIP             |              | SAGWON          | AK    | SHWS                                  |
| 99723  | S103376967 |               | DEWLINE SITE                          | NORTH SALT LAGOON                |              | BARROW (NEAR)   | AK    | SHWS                                  |
| 99723  | S104224138 |               | EAST SIMPSON NO. 2                    | 50 MI. SE OF BARROW              |              | IKIAK           | AK    | SHWS                                  |
| 99723  | S104224132 |               | DEWLINE SITE                          | 52 MI. SE OF BARROW ON           |              | BARROW (NEAR)   | AK    | SHWS                                  |
| 99723  | S104225321 |               | NUIQSUT LANDFILL (NSB)                | 65 MI. SE OF PT. HOPE            |              | NAOKAK (NEAR)   | AK    | SHWS                                  |
| 99723  | S102670047 | 1408          | DEWLINE SITE, FUDS                    | SEC. 14, T. 10N., R. 4E., U      |              | NUIQSUT         | AK    | LF                                    |
| 99723  | S104225248 |               | DEWLINE SITE                          | WEST SIDE OF HARRISON BAY        |              | KOKRUAGAROK (NR | AK    | SHWS                                  |
| 99723  | S104224130 |               | DEWLINE SITE                          | 23 MI. SW OF BARROW              |              | BARROW          | AK    | SHWS                                  |
| 99723  | S104225431 |               | TANK FARM RD                          | 50 MI. SW OF BARROW              |              | NULAVIK (NEAR)  | AK    | SHWS                                  |
| 99723  | 96516247   |               | FAA VORTHAC FACILITY BARROW           | TANK FARM RD                     |              | BARROW          | AK    | ERNS                                  |
| 99723  | U003541132 | 3220          |                                       | WILEY POST AIRPORT               |              | BARROW          | AK    | UST                                   |

| ORPHANS SUMMARY   |            |  | Database(s)                            |               | Facility ID |
|-------------------|------------|--|--|---------------|-------------|
| City              | EDR ID     | Site Name                              | Site Address                           | Zip           |             |
| BARROW            | 92280999   | ARCO FACILITY 2 MARY PAD               | ARCO FACILITY 2 MARY PAD               |               |             |
| BARROW            | S103376878 | AIRLINE FACILITY                       | BARROW AIRPORT                         | 99723 SHWS    | 6339        |
| BARROW            | S103785782 | BARROW TOS INCINERATOR                 | BEACH ROAD                             | 99723 SWF/LF  |             |
| BARROW            | 94355238   | BOC PAD PRUDHOE BAY OIL FIELD          | BOC PAD PRUDHOE BAY OIL FIELD          | ERNS          |             |
| BARROW            | S104224128 | OLD FUEL STORAGE TANK FARM             | HOPSON STREET                          | 99723 SHWS    |             |
| BARROW            | S103228876 | RESIDENCE                              | 4211 KARLUK STREET                     | 99723 SHWS    |             |
| BARROW            | 100904430  | USDOIBLM KOGRU RIV DEWLINE ST          | W MARGIN HARRISON BAY                  | 99723 CERCLIS |             |
| BARROW            | 1001475726 | ELSONNIKE SITE                         | 3.5 MILES NE OF BARROW                 | 99723 CERCLIS | 1117        |
| BARROW            | 94381560   | MILNEY PT OIL FIELD L PAD              | MILNEY PT OIL FIELD L PAD              | ERNS          |             |
| BARROW            | S103785501 | BARROW LANDFILL (NSB)                  | NARL ROAD                              | 99723 SWF/LF  |             |
| BARROW            | 92287081   | PAD R OF PRUDHOE BAY OIL FIELD WESTERN | PAD R OF PRUDHOE BAY OIL FIELD WESTERN | ERNS          |             |
| BARROW            |            | OPERATING                              | OPERATING                              | ERNS          |             |
| BARROW            | 94356988   | PRICE PAD PRUDHOE BAY                  | PRICE PAD PRUDHOE BAY                  | ERNS          |             |
| BARROW            | 94364023   | PRUDHOE BAY UNIT WELL PAD L5           | PRUDHOE BAY UNIT WELL PAD L5           | ERNS          |             |
| BARROW            | 94359954   | PRUDHOE BAY OIL FIELD COLD STORAGE PAD | PRUDHOE BAY OIL FIELD COLD STORAGE PAD | ERNS          |             |
| BARROW            | 92273266   | PRUDHOE BAY FIELD PRICE PAD            | PRUDHOE BAY FIELD PRICE PAD            | SWF/LF        |             |
| BARROW            | S10000102  | BARROW DUMP                            | SOUTH SALT LAGOON                      | ERNS          |             |
| BARROW            | 94367319   | SPINE RD AND COAL STORAGE PAD          | SPINE RD AND COAL STORAGE PAD          | 99723 SHWS    |             |
| BARROW            | S104224130 | DEWLINE SITE                           | 23 MI. SW OF BARROW                    | 99723 SHWS    |             |
| BARROW (NEAR)     | S104224133 | DEWLINE SITE                           | BETWEEN N SALT LAGOON /                | 99723 SHWS    |             |
| BARROW (NEAR)     | S104224142 | OLD WASTE DISPOSAL AREA                | 1/2 MILE S. OF NARL                    | 99723 SHWS    |             |
| BARROW (NEAR)     | S104224134 | LAGOON                                 | -4 MILES NE OF BARROW                  | 99723 SHWS    |             |
| BARROW (NEAR)     | S104224135 | RESEARCH LAB                           | 4 MILES NE OF BARROW                   | 99723 SHWS    |             |
| BARROW (NEAR)     | S104224140 | DRY CLEANING FACILITY, FORMER          | NARL FACILITY                          | 99723 SHWS    |             |
| BARROW (NEAR)     | S104224136 | POWERHOUSE                             | 4 MI NE OF BARROW                      | 99723 SHWS    |             |
| BARROW (NEAR)     | S104224137 | AIRSTRIIP FUEL SPILL                   | NEAR AIRSTRIIP                         | 99723 SHWS    |             |
| BARROW (NEAR)     | S104224138 | BULK FUEL TANK FARM                    | NORTH SALT LAGOON                      | 99723 SHWS    |             |
| BARROW (NEAR)     | S104224132 | EAST SIMPSON NO. 2                     | 52 MI. SE OF BARROW ON                 | 99723 SHWS    |             |
| BARROW (NEAR)     | S104224211 | DEWLINE SITE - POW 3 POL TANKS         | BULLEN POINT                           | 99723 SHWS    |             |
| BULLEN            | S104224212 | DEWLINE SITE                           | BULLEN POINT                           | 99723 SHWS    |             |
| BULLEN            | S104224213 | DEWLINE SITE - POW 3 LANDFILL          | BULLEN POINT                           | 99723 SHWS    |             |
| BULLEN            | S104224214 | DEWLINE SITE - POW 3 TRANSFORMERS      | BULLEN POINT                           | 99723 SHWS    |             |
| BULLEN            | S103378922 | FUEL DUMP                              | BULLEN POINT                           | 99723 SHWS    |             |
| FIN CREEK         | S104224991 | DEWLINE SITE                           | 50 MI. SE OF BARROW                    | 99723 SHWS    | 1408        |
| IKIAK             | S104225248 | DEWLINE SITE, FUDS                     | WEST SIDE OF HARRISON BAY              | 99723 SHWS    |             |
| KOKRUJAGAROK (NR) | S104225321 | DEWLINE SITE                           | 65 MI. SE OF PT. HOPE                  | 99723 SWFLF   |             |
| NAOKAK (NEAR)     | S102610047 | NUIQSUT LANDFILL (NSB)                 | SEC. 14, T. 10 N., R. 4E., U           | 99723 SHWS    | 1439        |
| NUIQSUT           | S104225431 | DEWLINE SITE FUDS                      | 50 MI. SW OF BARROW                    | 99723 SHWS    |             |
| NULAVIK (NEAR)    | S104225472 | CAPE LISBURNE LRRS LUST SITES          | CAPE LISBURNE                          | 99723 SWFLF   |             |
| POINT HOPE        | S102977896 | POINT LAY LANDFILL (NSB)               | POINT LAY, IN SE 1/4 SEC. 4,           | 99723 SHWS    |             |
| POINT LAY         | S103376967 | SAGWON AIRSTRIP DUMP                   | SAGWON LANDING STRIP                   | 99723 SHWS    |             |
| SAGWON            | S104225864 | (DERP) UMIAT STAGING AREA              | NORTH BANK COLVILLE RIVER              | 99723 SHWS    |             |

## GEOCHECK VERSION 2.1 PUBLIC WATER SUPPLY SYSTEM INFORMATION

Searched by Nearest PWS.

### PWS SUMMARY:

|   |   |                     |                   |                     |             |
|---|---|---------------------|-------------------|---------------------|-------------|
| PWS ID:   | AK2320230   | PWS Status:         | Active            | Distance from TP:   | 1 - 2 Miles |
| Date Initiated:   | Not Reported  | Date Deactivated:   | Not Reported      | Dir relative to TP: | North       |
| PWS Name:   | WATER SERVICES<br>MR. GUY BOWEN<br>P.O. BOX 770<br>BARROW, AK 99723 |                     |                   |                     |             |
| Addressee / Facility:   | Not Reported  |                     |                   |                     |             |
| Facility Latitude:  | 71 17 30  | Facility Longitude: | 156 47 12         |                     |             |
| City Served:  | Not Reported  | Population Served:  | 101 - 500 Persons |                     |             |
| Treatment Class:  | Treated   |                     |                   |                     |             |
| PWS currently has or has had major violation(s) or enforcement: | Yes   |                     |                   |                     |             |

### VIOLATIONS INFORMATION:

|                          |                     |                            |              |              |          |
|--------------------------|---------------------|----------------------------|--------------|--------------|----------|
| Violation ID:            | 9331662             | Source ID:                 | 001          | PWS Phone:   | 8522500  |
| Vio. beginning Date:     | 10/01/92            | Vio. end Date:             | 12/31/92     | Vio. Period: | 3 Months |
| Num of required Samples: | Not Reported        | Number of Samples Taken:   | 0            |              |          |
| Analysis Result:         | Not Reported        | Maximum Contaminant Level: | Not Reported |              |          |
| Analysis Method:         | Not Reported        |                            |              |              |          |
| Violation Type:          | Monitoring, Regular |                            |              |              |          |
| Contaminant:             | COLIFORM (PRE-TCR)  |                            |              |              |          |
| Vio. Awareness Date:     | Not Reported        |                            |              |              |          |

### ENFORCEMENT INFORMATION:

|                    |                                 |  |                   |               |
|--------------------|---------------------------------|--|-------------------|---------------|
| System Name:       | WATER SERVICES                  |  | Analytical Value: | 0000000.00000 |
| Violation Type:    | Monitoring, Routine Major (TCR) |  | Enforcement ID:   | 1-30          |
| Contaminant:       | COLIFORM (TCR)                  |  | Enf. Action:      | Not Reported  |
| Compliance Period: | 0000 1998-1 - 1-01 1998-1       |  |                   |               |
| Violation ID:      | 99030694                        |  |                   |               |
| Enforcement Date:  | Not Reported                    |  |                   |               |
| System Name:       | WATER SERVICES                  |  | Analytical Value: | 0000000.00000 |
| Violation Type:    | Monitoring, Routine Major (TCR) |  | Enforcement ID:   | 2-31          |
| Contaminant:       | COLIFORM (TCR)                  |  | Enf. Action:      | Not Reported  |
| Compliance Period: | 0000 1998-1 - 2-01 1998-1       |  |                   |               |
| Violation ID:      | 99030906                        |  |                   |               |
| Enforcement Date:  | Not Reported                    |  |                   |               |
| System Name:       | WATER SERVICES                  |  | Analytical Value: | 0000000.00000 |
| Violation Type:    | Monitoring, Repeat Minor (TCR)  |  | Enforcement ID:   | 9-30          |
| Contaminant:       | COLIFORM (TCR)                  |  | Enf. Action:      | Not Reported  |
| Compliance Period: | 0000 1998-0 - 9-01 1998-0       |  |                   |               |
| Violation ID:      | 99030254                        |  |                   |               |
| Enforcement Date:  | Not Reported                    |  |                   |               |
| System Name:       | WATER SERVICES                  |  | Analytical Value: | 0000000.00000 |
| Violation Type:    | Monitoring, Routine Major (TCR) |  | Enforcement ID:   | Not Reported  |
| Contaminant:       | COLIFORM (TCR)                  |  | Enf. Action:      | Not Reported  |
| Compliance Period: | 1999-04-01 - 1999-04-30         |  |                   |               |
| Violation ID:      | 9935427                         |  |                   |               |
| Enforcement Date:  | Not Reported                    |  |                   |               |

## GEOCHECK VERSION 2.1 PUBLIC WATER SUPPLY SYSTEM INFORMATION

Searched by Nearest PWS.

### PWS SUMMARY:

### ENFORCEMENT INFORMATION:

|                    |                                 |                   |               |
|--------------------|---------------------------------|-------------------|---------------|
| System Name:       | WATER SERVICES                  |                   |               |
| Violation Type:    | Monitoring, Routine Major (TCR) |                   |               |
| Contaminant:       | COLIFORM (TCR)                  | Analytical Value: | 0000000.00000 |
| Compliance Period: | 1999-05-01 - 1999-05-31         | Enforcement ID:   | Not Reported  |
| Violation ID:      | 9935608                         | Enf. Action:      | Not Reported  |
| Enforcement Date:  | Not Reported                    |                   |               |
| System Name:       | WATER SERVICES                  |                   |               |
| Violation Type:    | Monitoring, Routine Major (TCR) |                   |               |
| Contaminant:       | COLIFORM (TCR)                  | Analytical Value: | 0000000.00000 |
| Compliance Period: | 1999-01-01 - 1999-01-31         | Enforcement ID:   | Not Reported  |
| Violation ID:      | 9934909                         | Enf. Action:      | Not Reported  |
| Enforcement Date:  | Not Reported                    |                   |               |
| System Name:       | WATER SERVICES                  |                   |               |
| Violation Type:    | Monitoring, Routine Major (TCR) |                   |               |
| Contaminant:       | COLIFORM (TCR)                  | Analytical Value: | 0000000.00000 |
| Compliance Period: | 1999-03-01 - 1999-03-31         | Enforcement ID:   | Not Reported  |
| Violation ID:      | 9935227                         | Enf. Action:      | Not Reported  |
| Enforcement Date:  | Not Reported                    |                   |               |

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Elapsed ASTM days:** Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

### FEDERAL ASTM RECORDS:

**CERCLIS:** Comprehensive Environmental Response, Compensation, and Liability Information System

Source: EPA

Telephone: 703-413-0223

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 08/26/99  
Date Made Active at EDR: 11/11/99  
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 08/30/99  
Elapsed ASTM days: 73  
Date of Last EDR Contact: 11/29/99

**ERNS:** Emergency Response Notification System

Source: EPA/NTIS

Telephone: 202-260-2342

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 10/28/99  
Date Made Active at EDR: 12/03/99  
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 11/01/99  
Elapsed ASTM days: 32  
Date of Last EDR Contact: 11/01/99

**NPL:** National Priority List

Source: EPA

Telephone: N/A

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC).

Date of Government Version: 07/22/99  
Date Made Active at EDR: 09/10/99  
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 08/05/99  
Elapsed ASTM days: 36  
Date of Last EDR Contact: 11/08/99

**RCRIS:** Resource Conservation and Recovery Information System

Source: EPA/NTIS

Telephone: 800-424-9346

Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Date of Government Version: 09/01/99  
Date Made Active at EDR: 11/17/99  
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 10/06/99  
Elapsed ASTM days: 42  
Date of Last EDR Contact: 01/03/00

**CORRACTS:** Corrective Action Report

Source: EPA

Telephone: 800-424-9346

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/07/99  
Date Made Active at EDR: 10/28/99  
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 09/13/99  
Elapsed ASTM days: 45  
Date of Last EDR Contact: 12/13/99



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### FEDERAL NON-ASTM RECORDS:

#### **BRS:** Biennial Reporting System

Source: EPA/NTIS

Telephone: 800-424-9346

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/97  
Database Release Frequency: Biennially

Date of Last EDR Contact: 12/20/99  
Date of Next Scheduled EDR Contact: 03/20/00

#### **CONSENT:** Superfund (CERCLA) Consent Decrees

Source: EPA Regional Offices

Telephone: Varies

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: Varies  
Database Release Frequency: Varies

Date of Last EDR Contact: Varies  
Date of Next Scheduled EDR Contact: N/A

#### **FINDS:** Facility Index System/Facility Identification Initiative Program Summary Report

Source: EPA

Telephone: N/A

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 10/13/99  
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/12/00  
Date of Next Scheduled EDR Contact: 04/10/00

#### **HMIRS:** Hazardous Materials Information Reporting System

Source: U.S. Department of Transportation

Telephone: 202-366-4526

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/30/99  
Database Release Frequency: Annually

Date of Last EDR Contact: 10/28/99  
Date of Next Scheduled EDR Contact: 01/24/00

#### **MLTS:** Material Licensing Tracking System

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/29/99  
Database Release Frequency: Quarterly

Date of Last EDR Contact: 01/10/00  
Date of Next Scheduled EDR Contact: 04/10/00

#### **NPL LIENS:** Federal Superfund Liens

Source: EPA

Telephone: 205-564-4267

Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/91  
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 11/24/99  
Date of Next Scheduled EDR Contact: 02/21/00

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### **PADS:** PCB Activity Database System

Source: EPA

Telephone: 202-260-3936

PCB Activity Database. PADS identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 09/22/97

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 11/09/99

Date of Next Scheduled EDR Contact: 02/14/00

### **RAATS:** RCRA Administrative Action Tracking System

Source: EPA

Telephone: 202-564-4104

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/95

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 12/13/99

Date of Next Scheduled EDR Contact: 03/13/00

### **ROD:** Records Of Decision

Source: NTIS

Telephone: 703-416-0223

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 01/31/99

Database Release Frequency: Annually

Date of Last EDR Contact: 01/10/00

Date of Next Scheduled EDR Contact: 04/10/00

### **TRIS:** Toxic Chemical Release Inventory System

Source: EPA

Telephone: 202-260-1531

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/97

Database Release Frequency: Annually

Date of Last EDR Contact: 12/27/99

Date of Next Scheduled EDR Contact: 03/27/00

### **TSCA:** Toxic Substances Control Act

Source: EPA

Telephone: 202-260-1444

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/94

Database Release Frequency: Every 4 Years

Date of Last EDR Contact: 01/03/00

Date of Next Scheduled EDR Contact: 04/24/00

### **MINES:** Mines Master Index File

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959

Date of Government Version: 08/01/98

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 01/03/00

Date of Next Scheduled EDR Contact: 04/03/00

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### STATE OF ALASKA ASTM RECORDS:

**LUST:** Leaking Underground Storage Tank Database  
Source: Department of Environmental Conservation  
Telephone: 907-465-5301

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 11/09/99  
Date Made Active at EDR: 01/07/00  
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 12/27/99  
Elapsed ASTM days: 11  
Date of Last EDR Contact: 12/27/99

**SHWS:** Contaminated Sites Database  
Source: Department of Environmental Conservation  
Telephone: 907-269-7547

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 12/01/99  
Date Made Active at EDR: 01/07/00  
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 12/21/99  
Elapsed ASTM days: 17  
Date of Last EDR Contact: 12/21/99

**LF:** Solid Waste Facilities

Source: Department of Environmental Conservation  
Telephone: 907-269-7632

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/29/99  
Date Made Active at EDR: 12/10/99  
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 11/30/99  
Elapsed ASTM days: 10  
Date of Last EDR Contact: 11/29/99

**UST:** Underground Storage Tank Database  
Source: Department of Environmental Conservation  
Telephone: 907-269-7504

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 11/11/99  
Date Made Active at EDR: 01/07/00  
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 12/27/99  
Elapsed ASTM days: 11  
Date of Last EDR Contact: 12/27/99

### STATE OF ALASKA NON-ASTM RECORDS:

**AST:** Oil Terminal Facilities

Source: Department of Environmental Conservation  
Telephone: 907-465-5231

Registered Aboveground Storage Tanks.

Date of Government Version: 05/01/95  
Database Release Frequency: Annually

Date of Last EDR Contact: 12/20/99  
Date of Next Scheduled EDR Contact: 03/20/00

**SPILLS:** Spills Database

Source: Department of Environmental Conservation  
Telephone: 907-269-5242

Date of Government Version: 09/30/99  
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 11/08/99  
Date of Next Scheduled EDR Contact: 02/07/00

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### Historical and Other Database(s)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

**Former Manufactured Gas (Coal Gas) Sites:** The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

### Disclaimer Provided by Real Property Scan, Inc.

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#### DELISTED NPL: NPL Deletions

Source: EPA

Telephone: N/A

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 06/24/99

Date Made Active at EDR: 09/10/99

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 08/10/99

Elapsed ASTM days: 31

Date of Last EDR Contact: 11/08/99

#### NFRAP: No Further Remedial Action Planned

Source: EPA

Telephone: 703-413-0223

As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

Date of Government Version: 08/26/99

Date Made Active at EDR: 11/11/99

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 08/30/99

Elapsed ASTM days: 73

Date of Last EDR Contact: 11/29/99

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-260-2805

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-260-2805

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SWDIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

**Area Radon Information:** The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

**EPA Radon Zones:** Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

**Oil/Gas Pipelines/Electrical Transmission Lines:** This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines and electrical transmission lines.

**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

**USGS Water Wells:** In November 1971 the United States Geological Survey (USGS) implemented a national water resource information tracking system. This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on more than 900,000 wells, springs, and other sources of groundwater.

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in March 1997 from the U.S. Fish and Wildlife Service.

**Epicenters:** World earthquake epicenters, Richter 5 or greater  
Source: Department of Commerce, National Oceanic and Atmospheric Administration

**Water Dams:** National Inventory of Dams  
Source: Federal Emergency Management Agency  
Telephone: 202-646-2801  
National computer database of more than 74,000 dams maintained by the Federal Emergency Management Agency.