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PHASE I ENVIRONMENTAL SITE ASSESSMENT
OF

KENNEWICK PLAZA
WEST KENNEWICK AVENUE AND SOUTH ELY STREET
KENNEWICK, WASHINGTON 99336

ATC PROJECT NO. 76.18452.0201

DECEMBER 13, 1999

Prepared by:

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1.0 CERTIFICATION AND RELIANCE

ATC Associates Inc. (ATC) has performed a Phase I Environmental Site Assessment (ESA) of the Kennewick Plaza shopping center (the Site), located at the southwestern corner of West Kennewick Avenue and South Ely Street in Kennewick, Washington. The site reconnaissance was conducted on November 16 and 17, 1999, by Neil R. Gilham, CHMM, Senior Project Manager of ATC. The ESA included public environmental agency and historical record reviews, interviews, site observations, environmental sampling and analyses, and report preparation. The scope of the ESA was in general accordance with the ASTM Standard Practice E 1527-97. This report includes ATC's findings, conclusions, recommendations and supporting documentation.

This report is for the use and benefit of, and may be relied upon by JSH Properties, Inc., or any of its affiliates, and third parties authorized by JSH Properties, Inc., including the lender(s) in connection with a secured financing of the property, and their respective successors and assigns. Any third party agrees by accepting this report that any use or reliance on this report shall be limited by the exceptions and limitations in the report, the terms and conditions of the project contract with JSH Properties, Inc. with the exception of the limit of liability, and with the acknowledgment that actual site conditions may change with time, and that hidden conditions may exist at the Site that were not discoverable within the authorized scope of the assessment.

Regardless of the findings stated in this report, ATC is not responsible for consequences or conditions arising from facts that were concealed, withheld, or not fully disclosed at the time the assessment was conducted. ATC makes no other representation to any third party except that it has used the degree of care and skill ordinarily exercised by environmental consultants in the preparation of the report and in the assembling of data and information related thereto. No other warranties are made to any third party, either express or implied.

ATC's liability to any third party authorized to use or rely on this report with respect to any acts or omissions shall be limited to a maximum of $50,000 per site. In the event that an authorized third party does not wish to limit ATC's liability to this sum, ATC will waive this limitation up to $1,000,000 provided that the authorized third party agrees in writing prior to receiving a copy of this report to pay for this waiver an additional consideration of 10 percent of ATC's total fee for the report or $500, whichever is greater. It is the express intention of the parties that the payment of this sum be a Waiver of Limitation of Liability Charge and shall not be construed as being a charge for insurance of any type, but will be increased consideration for the greater risk involved.

ATC ASSOCIATES INC.

Neil R. Gilham, CHMM
Senior Project Manager

Daniel F. Krause
Operations Manager

2.0 EXECUTIVE SUMMARY

At the request of JSH Properties, Inc., ATC performed an ESA of the Kennewick Plaza shopping center property (herein referred to as the Site). The Site was located at the southwestern corner of West Kennewick Avenue and South Ely Street in the City of Kennewick, County of Benton, State of Washington. The Site and surrounding areas were characterized by retail, commercial, and residential uses. The Site consists of approximately 15.51 acres of land developed with one large retail strip building complex, three stand-alone retail buildings, and an undeveloped vacant parcel. The Site was developed in 1979 with the retail strip building complex. The three stand-alone buildings were constructed in 1980, 1991 and 1998, respectively. The Site was primarily used as a retail shopping center. Before 1979, the Site use was primarily agricultural. Other former uses included an auto service garage (approximately 1950 to 1976) and an office of the Washington State Patrol (approximately 1961 to 1978).

The main objective of the ESA was to identify the presence or likely presence, use, or release on the Site of hazardous substances or petroleum products such as is defined in ASTM E 1527-97 as a *recognized environmental condition.* The ESA also included a preliminary evaluation, including screening tests, of specific potential environmental conditions that are outside the scope of ASTM E 1527-97. The ESA included a review of environmental agency databases, previous reports and historical documents; visual observation of the Site and neighboring properties; interviews with selected Site representatives; and, supplemental environmental sampling and laboratory analyses. A summary of the findings and conclusions are listed below:

Adjacent Properties

- Adjacent properties included retail, commercial and residential uses. A shopping center was located north of the Site. Adjoining properties to the south and west included apartments and houses. Commercial properties to the northeast and east included fast-food restaurants.

Historical Use Research

- The Site and surrounding areas were originally developed as agricultural during the late 1800s and early 1900s. The Site had been used agriculturally until the 1970s. The Site also included an auto service garage from the early 1950s to 1976. The existing Site development was constructed in 1979.

Regulatory Review

- The Site was not identified on any regulatory databases.

- There was a gas station located directly northeast of the Site at the northeastern corner of West Kennewick Avenue and South Ely Street from approximately 1960 to 1991. A Taco Bell restaurant developed during the 1990s was located at the former gas station property. This property appeared on the Washington State Department of Ecology (Ecology) Leaking underground storage tank (LUST). Only soil was impacted from the release at this facility according to the database information. In addition, this facility is located downgradient from the Site. Based on this information, there is no evidence to suggest that the Hiland Texaco has adversely impacted the Site.

- Other regulatory database listed sites are present in the surrounding area. These sites have been determined not to pose an environmental threat to the Site based several factors including distance, presumed groundwater gradient, and field observations.

Hazardous Substance Storage/Handling

- Small quantities of janitorial and maintenance chemicals were observed at the Site. There was no evidence of improper storage or mishandling of these chemicals.

Waste Generation, Storage and Disposal

- Only nonhazardous rubbish and recyclable materials were generated at the Site.

Storage Tanks

- There was no evidence for the presence of USTs or above-ground storage tanks (ASTs) observed at the Site during the site reconnaissance. However, historical research indicated the presence of an auto service garage at the Site from the early 1950s to 1976. USTs or ASTs are typically associated with auto service garages. Therefore, there is the possibility for the past presence of USTs or ASTs at the Site associated with the former auto service garage.

Polychlorinated Biphenyls (PCBs)

- There were seven pad-mounted electrical transformers observed within the Site during the site reconnaissance. These transformers are all owned by Public Utility District No. 1 of Benton County (BPUD) based on markings on the transformer cabinets. According to BPUD, all seven of these transformers contained less than 1 part per million PCBs. Therefore, all seven transformers are classified as non-PCB transformers in accordance with federal regulations.
- No other equipment suspected of containing PCBs was observed at the Site.

Asbestos-Containing Material (ACM)

- ATC collected 48 bulk samples of suspect asbestos-containing materials (ACMs) including sheet flooring, floor tile, floor tile mastic, carpet mastic, leveling compound, wallboard/joint compound composite, baseboard mastic, acoustic ceiling panel, asbestos cement sheet material, and roofing mastic. Certain sheet flooring, floor tile mastic, asbestos cement sheet material, and roofing mastic was found to contain regulated concentrations of asbestos (>1%). These materials were observed in good condition.

3.0 RECOMMENDATIONS

Based on information collected from the site reconnaissance, record reviews, interviews, environmental sampling and laboratory analysis, ATC offers the following recommendations:

- Perform a geophysical survey in the area of the former auto service garage that was located on the Site in order to determine if any USTs, hydraulic lift mechanisms, or other subsurface anomalies remain in place. Follow the geophysical survey with a subsurface investigation to collect and analyze soil samples (and groundwater samples if encountered) to determine if former auto service activities have adversely impacted the Site.

- Develop an asbestos Operations and Maintenance (O&M) Program for the Site in order to effectively manage asbestos in the Site buildings. Any remodeling, renovation, and demolition should be preceded by a thorough asbestos survey to identify asbestos containing materials (ACM) that may be disturbed by these activities. Provide proper notification to tenants and other personnel who may contact or disturb ACM.

4.0 INTRODUCTION

This report summarizes the findings of a Phase I Environmental Site Assessment (ESA) of Kennewick Plaza shopping center located at the southwestern corner of West Kennewick Avenue and South Ely Street in Kennewick, Washington. The site reconnaissance was performed on November 16 and 17, 1999. Neil R. Gilham, Senior Project Manager with ATC performed the site reconnaissance. Mr. Gilham was generally unescorted during the site reconnaissance. Weather conditions during the site reconnaissance were clear and cool (45 to 55°F).

4.1 Purpose and Scope

The purpose of this report was to identify *recognized environmental conditions* and certain other potential environmental conditions as they existed at the Site at the time of the site reconnaissance. This assessment was conducted using generally accepted Phase I ESA industry standards in accordance with the ASTM Standard Practice E 1527-97. The scope of work completed for this assessment included the following:

- Review of physical characteristics of the Site from site reconnaissance observations and available sources including topographic maps, geologic reports, and groundwater data.
- Review of Site history from reasonably ascertainable standard sources (e.g. land deeds, fire insurance maps, city directories, aerial photographs, prior reports and interviews).
- An evaluation of existing and former Site conditions from observations and interviews.
- An evaluation of existing and former uses of adjoining and nearby properties to identify the potential for environmental conditions (if present or suspected) to migrate onto the Site.
- An evaluation of information contained within federal and state environmental databases and other local environmental records, within specific search distances.
- A screening survey for the following potential environmental conditions that are outside the scope of ASTM Standard Practice E 1527-97:
    - Asbestos-containing material (ACM), including the identification of suspect materials in accessible areas and the collection and analysis of bulk samples. The survey was performed to identify the presence of readily accessible suspect ACM and to develop recommendations as to the need for a more thorough survey or an Operations and Maintenance (O&M) Program. The survey did not attempt to sample each homogeneous area, or fully characterize each suspect material. Untested ACM is presumed to contain asbestos until tested and proven otherwise. The survey was not intended to provide information for remodeling, renovation, or demolition.

5.0 SITE DESCRIPTION

5.1 Site Location and Description

The Site was a shopping center located at the southwestern corner of West Kennewick Avenue and South Ely Street in the City of Kennewick, County of Benton, State of Washington. The Site was developed with one large retail strip building complex (approximately 134,934 square feet) and three smaller stand-alone retail buildings (approximately 6,000 square feet each). The retail strip building complex included three anchor store buildings connected by smaller multi-tenant strip buildings. The Site included an area of approximately 15.51 acres of land.

Photographs from the site reconnaissance are included in Appendix A. Appendix B includes Figures 1 and 2. Figure 1- Topographic Map depicts the Site location on a USGS topographic map. Figure 2 - Site Plan depicts details of the Site and adjoining properties.

The following is a list of the Site tenants with uses and addresses:

Main Complex (constructed in 1979)
Health South (physical therapy center) - 122 South Ely Street
Cigarette Store (tobacco and beverages) - 124 South Ely Street
Alliance Chiropractic Clinic (chiropractic) - 126 South Ely Street
395 Cleaners and Laundromat (laundromat and laundry services) - 128 South Ely Street
Pepperoni's Pizza (pizza take-out) - 2815 West Kennewick Avenue
Carlson Wagonlit Travel (travel agency) - 2817 West Kennewick Avenue
vacant - 2819 West Kennewick Avenue
Safeway (supermarket) - 2825 West Kennewick Avenue
RAC Rent-A-Center (furniture and appliance rental) - 2831 West Kennewick Avenue
GNC General Nutrition Center (vitamins and health products) - 2835 West Kennewick Avenue
Mail Boxes, Etc. (mailing, shipping, and copying services) - 2839 West Kennewick Avenue
Payless Shoe Source (shoe store) - 2901 West Kennewick Avenue
Gold Crown Hallmark (cards and gifts) - 2903 West Kennewick Avenue
Factory 2-U (furnishings) - 2905 West Kennewick Avenue
Jenny Craig (weight loss clinic) - 2913 West Kennewick Avenue
Washington State Liquor Store (liquor) - 2925 West Kennewick Avenue
60 Minute Photo (supermarket) - 2929 West Kennewick Avenue
The Coffee House (coffee and snacks) - 3001 West Kennewick Avenue
Hairmasters (hair salon) - 3005 West Kennewick Avenue
vacant - 3013 West Kennewick Avenue
Check 'N Go (check cashing) - 3015 West Kennewick Avenue
Flaherty's 99¢ Store (sundries) - 3017 West Kennewick Avenue

Stand-alone Building (constructed in 1980)
Denny's (restaurant) - 2801 West Kennewick Avenue

Stand-alone Building (constructed in 1991)
Blockbuster Video (video rental) - 2911 West Kennewick Avenue

Stand-alone Building (constructed in 1998)
Quizno's Subs (sandwich shop) - 3107A West Kennewick Avenue
American General Finance (financial services) - 3107B West Kennewick Avenue
vacant - 3107C West Kennewick Avenue
vacant - 3107D West Kennewick Avenue

Safeway occupied the easternmost of the three anchor store buildings of the main complex. Gold Crown Hallmark and Factory 2-U occupied the center anchor store building that was formerly a Pay 'N Save drug store from 1980 to approximately 1994. Flaherty's 99¢ Store occupied a portion of the anchor store building at the western end of the main complex that was formerly an Ernst Home Center hardware store from 1980 to approximately 1996.

All the Site buildings were single-story. The main complex was of concrete tilt-up and slab-on-grade construction. The three stand-alone buildings were wood frame and slab-on-grade construction. Interior walls were wallboard. The ceilings were primarily suspended with laid-in panels. Interior floor coverings included a variety of floor tile, sheet flooring, and carpet.

Asphalt-paved parking and driveways comprised the remaining area around the Site buildings. Small areas of landscape surrounded the buildings and perimeter areas.

The vacant, undeveloped parcel at the western side of the Site was bare soil with little vegetation except for sparse grasses and shrubs. There were several scattered areas and piles of asphalt, concrete, and wood debris on the vacant parcel. South Huntington Street ran between the main developed area of the Site and the vacant parcel on the western side.

Catch basins located in the paved portions of the Site capture storm water runoff. The runoff is then conveyed by pipe to an open drain located east of the Site.

Public utilities serving the Site included the following:

Domestic water:	City of Kennewick
Sewer:	City of Kennewick
Electricity:	Public Utilities District No. 1 of Benton County
Natural Gas:	Cascade Natural Gas

5.2 Physical Setting

5.2.1 Topography

The Site exhibited relatively flat topography. The Site and surrounding areas, as depicted on a United States Geological Survey (USGS) topographic map, exhibited a gradual slope downward towards the northeast. The Site elevation is approximately 480 feet above mean sea level (MSL). The Columbia River (Lake Wallula) is located approximately 1-mile to the north of the Site at a normal pool elevation of 340 feet above MSL.

A copy of the USGS topographic map is included in Appendix B as Figure 1 - Topographic Map.

5.2.2 Geology

The Site is underlain by outburst flood deposits composed of gravel with grain sizes ranging from sand to boulders. These deposits include beds of fine sediment. These deposits were formed during the Pleistocene epoch (approximately 13,000 years before the present) by outburst floods from former glacial Lake Missoula located in Montana and other glacial ice-margin lakes that were present during that time period.

5.2.3 Soils

The Site soils are classified as Scootenay silt loam, gravelly subsoil, 0 to 2 percent slopes (SdA). The upper 10 to 20 inches consists of dark grayish brown silt loam. Below the upper horizon from a depth of

10 to 20 inches to a depth of 60 inches is a grayish-brown gravelly to very gravelly silt loam. Drainage is good and permeability is moderate.

5.2.4 Hydrology

Specific groundwater information was not readily available for the Site. There were no records found that indicated the presence of water wells on the Site. Well log records for the general area around the Site were obtained from the Washington State Department of Ecology (Ecology) – Central Region Office in Yakima, Washington. These well log records encompassed the area included within Township 8 North, Range 29 East, Sections 2 and 3. Copies of these well log records are included in Appendix C.

The well log records indicated that the abandonment of nine shallow monitoring wells occurred in 1991 at 2718 West Kennewick Avenue. This property was located directly northeast of the Site at the northeastern corner of West Kennewick Avenue and South Ely Street. This property was a Taco Bell restaurant at the time of the site reconnaissance and was formerly a gasoline station (former Exxon and Texaco) from approximately 1960 to 1991. This property appeared on Ecology's leaking underground storage tank (LUST) list for impact to soil. There were no original well logs indicating the drilling and installation of these wells, only the recorded well abandonment logs. These well abandonment logs did not indicate depth to groundwater. Eight of wells were abandoned to a depth of 14 feet below ground surface (bgs) and the ninth well was abandoned to 34 feet bgs.

Other well logs in the surrounding area indicated that groundwater was obtained from depths ranging from 67 to 465 feet bgs. These well logs may not reflect the presence of shallow groundwater (i.e. groundwater less than 50 feet bgs). Groundwater in the area appears to occur in gravel zones from approximately 60 to 180 feet bgs. Deeper wells (greater than 180 feet bgs) obtained groundwater from water-bearing broken basalt.

Based on a review of these well logs, it is expected that the occurrence of groundwater at the Site will be in gravel zones at depths of greater than 50 feet bgs. It is possible that groundwater may occur at shallower depths in perched zones.

The expected groundwater flow direction at the Site is towards the north and northeast, reflecting local topography of the Site and surrounding area. Estimated groundwater levels and/or flow direction(s) may vary due to seasonal fluctuations, local usage demands, geology, underground structures, or dewatering operations.

The average annual precipitation for the Kennewick area is 8.5 inches.

6.0 ADJACENT PROPERTIES

The general area of the Site included retail, commercial, and residential land use. The following identifies the adjoining property and surrounding area uses:

North: West Kennewick Avenue runs along the northern side of the Site. The adjoining properties on the northern side of West Kennewick Avenue included (from west to east) a residential neighborhood, Van's Jewelry, Tri City Cleaners and Laundromat, office-retail building, CPR Group Inc. (construction management office in a converted house), intersection of North Huntington Street and West Kennewick Avenue, Abby's Pizza, The Kania Clinic (medical clinic), Coin Cradle, Cards and Comics, Tri City Cleaners, and a vacant restaurant building. Further north was a shopping center that included a Rite Aid drug store.

Northeast: Northeast of the intersection of West Kennewick Avenue and South Ely Street was a Taco Bell restaurant. This property was formerly a gasoline station (former Exxon and Texaco) from approximately 1960 to 1990. This property appeared on Ecology's leaking underground storage tank (LUST) list for impact to soil.

East: South Ely Street runs along the eastern side of the Site. The adjoining properties on the eastern side of South Ely Street included (from north to south) McDonalds restaurant, Mocha Express (drive-through espresso), Worley Surveying Service (office in a converted house), and a residence. Further east were a Kentucky Fried Chicken take-out restaurant and other retail, commercial, and residential properties.

South: West 2nd Avenue runs along the southern side of the Site. The adjoining properties on the southern side of West 2nd Avenue included (from west to east) an apartment complex (Highlander Apartments), intersection of South Green Street and West 2nd Avenue, a vacant lot, and Nendel's Inn motel. Further south were residential areas.

West: The adjoining property to the west was Ed's Shoe Repair along West Kennewick Avenue and a residential neighborhood. The residential neighborhood continued further westward.

7.0 HISTORICAL USE RESEARCH

7.1 Historical Sources

Historical sources reviewed included the following:

1. City directories (Polk's) for the years 1952-53, 1954, 1955, 1957, 1960, 1961, 1962-63, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983-84, 1985, 1988, 1991, and 1995 (Mid-Columbia Library – Kennewick Branch, Kennewick, Washington).
2. Aerial Photographs for the years 1952, 1962, and 1998 (Benton County Public Works – Engineering Division, Prosser, Washington).
3. Aerial Photographs for the years 1955, 1963, 1982, and 1991 (United States Department of Agriculture – Natural Resources Conservation Service, Prosser, Washington).
4. Aerial Photographs for the years 1962 and 1981 (City of Kennewick - Public Works Department, Kennewick, Washington).
5. Aerial Photographs for the years 1970, 1972, and 1979 (Walker & Associates, Seattle, Washington).
6. City of Kennewick – Building Department: various permits and documents in the Site file.
7. Benton County Assessor – property information.
8. *Kennewick, Wash.,* USGS topographic map, 7.5-minute series, 1:24,000 scale, 1992 (compiled from aerial photographs taken in 1959; revised from aerial photographs taken in 1988; field checked 1990; map edited in 1992).
9. Russ Homewood, original property manager of Kennewick Plaza and long time resident of Kennewick (personal interview on November 16, 1999)
10. Robert Fletcher, resident on the Site during the 1960s and early 1970s (telephone interview on November 23, 1999).
11. Dolores Conrad - East Benton County Museum, long time resident of Kennewick (telephone interview on November 23 and 30, 1999).
12. Ruth Kirk and Carmela Alexander, *Exploring Washington's Past - A Road Guide to History,* University of Washington Press, 1990.

Appendix D contains selected aerial photographs. Appendix E contains copies of City of Kennewick – Building Department records. Appendix F contains property information from the Benton County Assessor.

7.2 Historical Summary

The historical summary was compiled using the referenced historical sources in Section 7.1. Native American Tribes originally used the area as a wintering ground. The railroad arrived in the area in 1882. Agriculture began in the area in 1893 when the Benton Land and Water Company began irrigating the land.

The earliest record reviewed was an aerial photograph taken in 1952 that depicted the Site as agricultural with some structures shown in the northeastern corner. The Site remained relatively unchanged from 1952 to the development of Kennewick Plaza in 1979. Agricultural uses on the Site included the growing of mint and the grazing of livestock.

Structures on the northeastern corner of the Site from the early 1950s to the late 1970s included a residence, an auto service garage, and an office of the Washington State Patrol. Robert Fletcher was a resident on the property during the 1960s and 1970s. Additionally, during the 1960s and 1970s, several produce businesses operated on the Site including Fletcher's Produce Market (owned by Robert Fletcher), Dee's Fruit and Produce, and Jerry's Morning Fresh Produce.

An auto service garage operated on the Site from the early 1950s to 1976. The garage was located near the northeastern corner of the Site along West Kennewick Avenue between the existing Blockbuster Video and Denny's restaurant. The garage was known as Hiland Garage during the 1950s and early 1960s, Inland Garage from 1966 to 1974, and Tri City Auto Repair in 1976. The garage facility was vacant in 1975. Robert Fletcher recalled that the garage may have sold gas.

An office of the Washington State Patrol was present on the eastern side of the Site along South Ely Street from 1961 to 1978. Russ Homewood recalled that there was no fueling of vehicles at this facility.

Initial construction of Kennewick Plaza occurred in 1979 with the main complex and parking areas. Construction of Denny's restaurant occurred in 1980. Construction of the Blockbuster Video building occurred in 1991. Construction of the remaining stand-alone building occurred in 1998.

Safeway has occupied one of the three anchor store buildings at the eastern end of the main complex since 1980. Pay 'N Save drug store occupied the center anchor store building from 1980 to approximately 1994. Ernst Home Center hardware store occupied the western anchor store building from 1980 to approximately 1996.

395 Cleaners and Laundromat has been present at the Site since at least 1983. Based on the findings of the historical records review and interviews, there is no evidence that indicated this facility had ever performed dry cleaning on site.

Adjoining properties were all similarly agricultural from the 1950s through the 1960s. There was a drive-in theater north of the Site during the 1950s and 1960s. Development of the residential neighborhoods to the west occurred in the early 1950s. Development of the retail and commercial properties to the north and the Nendel's Inn motel and the apartment complex to the south appeared to be concurrent with the development of Kennewick Plaza during the late 1970s. Development of the McDonalds restaurant to the east occurred during the 1990s. A motel had been located on the McDonalds site from the early 1950s through the 1980s.

There was a gas station located directly northeast of the Site at the northeastern corner of West Kennewick Avenue and South Ely Street from approximately 1960 to 1991. The gas station was at various times an Exxon and a Texaco station. A Taco Bell restaurant developed during the 1990s was located at the former gas station property. This property appeared on Ecology's LUST list for impact to soil.

8.0 REGULATORY RECORD REVIEWS

The databases discussed in this section were obtained from regulatory agency websites. The purpose for reviewing these databases was to ascertain information regarding confirmed or suspected releases of hazardous substances or petroleum products on or near the Site that would be considered a recognized environmental condition. These databases and the search distances used were in accordance with the ASTM Standard Practice E 1527-97. The databases were reviewed for location information that would place the listed facilities within the applicable search distances. The databases were also reviewed for information that would indicate potential to cause an adverse environmental impact to the Site. The information from the databases was used in conjunction with field observations to refine distances with respect to the Site and to evaluate potential threats that could be readily observed from accessible vantage points.

8.1 Federal (EPA) Database Reviews

National Priorities Listing (NPL) – Environmental Protection Agency Superfund List

The NPL is a subset of the CERCLIS and lists properties ranked as high priority for cleanup under the Superfund program. Source: NPL database updated November 12, 1999.

Neither the Site nor other properties within one mile of the Site are listed on the Federal NPL.

Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) List

The CERCLIS List is a compilation of known and suspected uncontrolled or abandoned hazardous waste sites which are, or were, under investigation by USEPA but have not been elevated to the status of a Superfund (NPL) site. Source: USEPA CERCLIS database updated November 12, 1999.

Neither the Site nor any properties within one-half mile of the Site are listed in the CERCLIS database.

Resource Conservation and Recovery Information System (RCRIS)

The Resource Conservation and Recovery Act (RCRA) program identifies and tracks hazardous wastes from the point of generation to the point of disposal. The RCRIS database tracks those facilities that treat, store and/or dispose of hazardous materials as defined by RCRA (referred to as TSD facilities). The RCRIS TSD facilities database was reviewed for the Site and for a distance of one-half mile from the Site. The RCRIS CORRACTS database identifies TSD facilities that have conducted, or are currently conducting, corrective action(s) as regulated under RCRA. The RCRIS CORRACTS facilities database was reviewed for the Site and for a distance of one mile from the Site. The RCRIS Generator facilities database tracks large and small quantity generators of hazardous waste. The RCRIS Generator facilities database was reviewed for the Site and for facilities that adjoin the Site. Source(s): USEPA Region 10 RCRIS Notifiers List database updated October 26, 1999; USEPA Region 10 RCRIS Washington CORRACTS database updated October 26, 1999; USEPA RCRIS Region 10 Washington TSD Facilities database updated October 26, 1999; USEPA Region 10 RCRIS Washington Regulated Generators database updated October 26, 1999.

The Site is not listed as a TSD facility, hazardous waste generator, or CORRACTS facility.

The following listings were identified as hazardous waste generators that adjoin the Site:

LISTING	DISTANCE/ DIRECTION	ESTIMATED GRADIENT	STATUS/AVAILABLE DATA
Tri City Cleaners 2810 Kennewick Ave Kennewick	Adjoining north (80 feet north across West Kennewick Avenue)	Downgradient	Non-regulated generator
Rite Aid Corp 101 N Ely St Kennewick	Adjoining north (150 feet north across West Kennewick Avenue)	Downgradient	Small quantity generator

No hazardous conditions were observed at these facilities during the site reconnaissance. These two facilities are located downgradient. Neither of these facilities appear on databases of confirmed or suspected releases of hazardous substances or petroleum products. Based on this information, these listed RCRA generators do not pose an environmental threat to the Site.

Emergency Response Notification System (ERNS) Database

The Emergency Response Notification System (ERNS) is a national database used to collect information on reported releases of oil and hazardous substances. Source: ERNS database - 1987 to December 2, 1999.

The Site is not listed on the ERNS database.

8.2 State Database Reviews

Confirmed & Suspected Contaminated Sites Report (CSCS)

The Washington Department of Ecology Confirmed & Suspected Contaminated Sites (CSCS) Report identifies sites with potential or confirmed hazardous substance contamination and includes sites ranked using the Washington Ranking Model (WARM) and also includes National Priorities List (NPL) sites. The CSCS Report was reviewed for the Site and for a distance of one mile from the Site. Source: CSCS Report updated November 29, 1999.

The following listing was identified:

LISTING	DISTANCE/ DIRECTION	ESTIMATED GRADIENT	STATUS/AVAILABLE DATA
Sagetree Electric Inc.	0.6 mile northwest	Crossgradient	Status: Ranked - Awaiting Remedial Action - moderate assessed risk to human health and the environment (Warm Bin No. 3). Media and Contaminants: Confirmed impact to soil by priority pollutant metals, petroleum products, and non-halogenated solvents.

The Sagetree Electric facility is not expected to pose an environmental threat to the Site based on the distance and crossgradient location. Additionally, there was no confirmed impact indicated for groundwater at this facility.

Solid Waste/Landfill Facilities (SW/LF)

The Solid Waste/Landfill Facilities database is a comprehensive listing of State permitted/recorded solid waste facilities. Source: SW/LF database updated October 21, 1999.

Neither the Site nor any properties within one-half mile are listed in the SW/LF database.

Leaking Underground Storage Tank (LUST) Database

The Washington Department of Ecology Leaking Underground Storage Tank (LUST) database was researched to identify listings within one-half mile of the Site. Source: LUST database updated November 1, 1999.

The following table summarizes information on the identified listings.

ADDRESS	DISTANCE/ DIRECTION	ESTIMATED GRADIENT	STATUS/AVAILABLE DATA
Hiland Texaco/Closed 2718 W Kennewick Ave Kennewick	Adjoining northeast (100 feet northeast across the intersection of West Kennewick Avenue and South Ely Street)	Downgradient	Status: Cleanup Started 9/27/92 Affected Media: Soil
Kennewick Avenue Chevron 2610 W Kennewick Ave Kennewick	500 feet east	Downgradient	Status: Cleanup Started 11/7/94 Affected Media: Soil
Jackpot 051 406 S Ely Kennewick	1,000 feet north	Downgradient	Status: Unknown 6/5/96 Affected Media: Soil
Grand Central Coffee Station HT Fuels/Awful Brothers 3419 W Clearwater Ave Kennewick	0.25 mile northwest	Crossgradient	Status: Reported Cleaned Up 2/22/91 Affected Media: Soil
B-OK 3809 W Clearwater Ave Kennewick	0.4 mile northwest	Crossgradient	Status: Reported Cleaned Up 4/29/97 Affected Media: Soil

The Hiland Texaco gas station was located directly northeast of the Site at the northeastern corner of West Kennewick Avenue and South Ely Street from approximately 1960 to 1991. The gas station was at various times an Exxon and a Texaco station. Nine monitoring wells were closed at this facility in 1991. A Taco Bell restaurant developed during the 1990s was located at this facility at the time of the site reconnaissance. Only soil was impacted at this facility according to the database information. In addition, this facility is located downgradient from the Site. Based on this information, there is no evidence to suggest that the Hiland Texaco has adversely impacted the Site.

The remaining LUST sites are not expected to have adversely impacted the Site based on the distance, downgradient or crossgradient locations, and on the affected media as soil for all listed facilities.

Underground Storage Tank (UST) Database

The Washington Department of Ecology Underground Storage Tank (UST) identifies facilities with regulated USTs that are registered as required. The UST facilities database was reviewed for the Site and for facilities that adjoin the Site. Source: UST database updated November 1, 1999.

ADDRESS	DISTANCE/ DIRECTION	ESTIMATED GRADIENT	STATUS/AVAILABLE DATA
Hiland Texaco/Closed 2718 W Kennewick Ave Kennewick	Adjoining northeast (100 feet northeast across the intersection of West Kennewick Avenue and South Ely Street)	Downgradient	Five USTs removed, two contained leaded gasoline, two contained unleaded gasoline, and one contained used oil.

The Hiland Texaco facility was also on the LUST database and was discussed previously as a LUST finding.

8.3 Local Regulatory Agency Research

Benton-Franklin Health District

ATC interviewed Michael Peloquin, R.S., Environmental Health Specialist with the Benton-Franklin Health District. According to Mr. Peloquin there are no active or abandoned landfills within one half mile of the Site.

City of Kennewick - Public Works Department

ATC interviewed Michael L. Smith, Water Quality Supervisor with the City of Kennewick - Public Works Department. Mr. Smith provided a description of Kennewick's water sources and wellhead protection program. Kennewick obtains its water supply from two sources, the Columbia River and two wells (Ranney Collector Nos. 4 and 5) which tap a shallow aquifer near the Columbia River. Kennewick maintains a Wellhead Protection Area in the upgradient areas surrounding these wells. The Site was included within the Wellhead Protection Area. Land use within the Wellhead Protection Area has been inventoried and potential contaminant sources have been identified. Certain businesses, including dry cleaners, receive regular inspections. Mr. Smith indicated that 395 Cleaners and Laundromat had been inspected within the last year and was only a drop-off with no active dry cleaning conducted on site.

City of Kennewick - Building Department

ATC reviewed available historic building department records for environmentally significant information regarding the Site at the City of Kennewick offices. This review did not identify any environmentally significant information. General construction/renovation permits were on file but did not reveal any environmental information or conditions that would adversely impact the Site.

City of Kennewick - Fire Department

ATC reviewed available Kennewick Fire Department records for environmentally significant information regarding the Site. This review did not identify any environmentally significant information. The records included only periodic inspections related to fire hazards and life safety.

9.0 SITE RECONNAISSANCE AND INTERVIEWS

9.1 Interviews

The following knowledgeable persons were interviewed with regard to the Site:

NAME	TITLE/COMPANY	YEARS AT SITE
Kim Stephens	Columbia Property Maintenance	Approximately 5 years
Russ Homewood	Retired	Since 1979, Kennewick resident since 1966
Jae Neale	Owner, 395 Cleaners and Laundromat	3 years
Rick Black	Manager, 60 Minute Photo	Approximately 1 year
Robert Fletcher	Retired, former site resident	1960s and 1970s
Dolores Conrad	East Benton County Museum	Long time resident of Kennewick

Pertinent information provided during the above-listed interviews is referenced in applicable sections of this report.

9.2 Hazardous Substance Storage

Small quantities of hazardous substances used in the maintenance of the Site were observed in various locations throughout the Site. These materials included soaps, detergents, cleansers, biocides, mild corrosives, and paints. All of these materials were observed in their original packaging and properly stored.

Two tenants performed photo-processing on site, Alliance Chiropractic Clinic and 60 Minute Photo. Less than 5-gallons of photo-processing chemicals were observed at Alliance Chiropractic Clinic and less than 20-gallons of photo-processing chemicals were observed at 60 Minute Photo. All of these photo-processing chemicals were observed in their original packaging and properly stored.

9.3 Solid Waste Generation, Storage and Disposal

Only normal nonhazardous rubbish and recyclable materials are generated from the Site. These non-hazardous materials are discarded and stored in designated dumpsters and containers located at several locations across the Site. The rubbish and recyclable materials are picked up on a weekly basis by a local trash hauler.

Two tenants performed photo-processing on site, Alliance Chiropractic Clinic and 60 Minute Photo. According to Dr. Luis Nicacio at Alliance Chiropractic Clinic waste photo-chemicals were picked up by Sterling Imaging. According to Rick Black at 60 Minute Photo, waste photchemicals were processed through a two stage silver recovery system before being discharged to the sanitary sewer.

9.4 Storm Water Management/Surface Areas

Catch basins located in the paved portions of the Site capture storm water runoff. The runoff is then conveyed by pipe to an open drain located east of the Site. The majority of the Site is developed with buildings or asphalt pavement.

9.5 Storage Tanks

There was no evidence for the presence of USTs or above-ground storage tanks (ASTs) observed at the Site during the site reconnaissance. However, historical research indicated the presence of an auto service garage at the Site

from the early 1950s to 1976. USTs or ASTs are typically associated with auto service garages. Therefore, there is the possibility for the past presence of USTs or ASTs at the Site associated with the former auto service garage.

9.6 Polychlorinated Biphenyls (PCBs)

There were seven pad-mounted electrical transformers observed within the Site during the site reconnaissance. These transformers are all owned by Public Utility District No. 1 of Benton County (BPUD) based on markings on the transformer cabinets. According to BPUD, all seven of these transformers contained less than 1 part per million PCBs. Therefore, all seven transformers are classified as non-PCB transformers in accordance with federal regulations. Appendix G contains a letter from BPUD regarding the PCB status of the seven Site transformers.

No hydraulic equipment was observed at the Site during the site reconnaissance.

Fluorescent lighting was observed throughout the interior areas. Fluorescent light ballasts manufactured before 1979 can contain PCBs. Ballasts manufactured after 1979 are labeled with "no PCBs" or similar designation. Based on the 1979 construction date of the main complex at the Site, there is a potential that ballasts containing PCBs may have been installed. Therefore, ballasts should be inspected for labeling and leaks during change out. Unlabeled ballasts should be handled and disposed of according to applicable regulations.

10.0 ENVIRONMENTAL SAMPLING RESULTS

10.1 Asbestos-Containing Material (ACM)

ATC conducted a visual observation of accessible areas of the Site for suspect ACM. Bulk samples were collected following a sampling strategy that targeted certain suspect materials that represent a significant liability to the owners or occupants of the Site. The bulk sampling was limited in that each homogeneous area of every suspect material in the property may not have been sampled. Bulk sampling was conducted in general accordance with procedures outlined in the Asbestos Hazard Emergency Response Act (40 CFR 763.86, Sampling). This survey was not intended for use in planning for remodeling, renovation, or demolition. It should be noted that suspect ACM that has not been identified in this report might be located within walls, ceiling cavities and other non-accessible areas. Precaution should be used in relation to these currently unidentified materials until proper sampling and analysis have determined the asbestos content. Additionally, only limited sampling was conducted of non-friable suspect roofing materials. No coring or other intrusive sampling was conducted of roofing materials as this type of sampling may impair the integrity of the roof system or invalidate existing roof warranties.

ACM bulk samples were analyzed using polarized light microscopy (PLM) methodology in accordance with the EPA Method 600/M4-82-020 and 600/R-93/116. Hygeia Laboratories Inc. in Sierra Madre, California performed the PLM analysis of the samples. Laboratory analytical reports and asbestos bulk sample logs are in Appendix G.

Materials with a concentration of asbestos greater than 1% are regulated in the State of Washington. The following table summarizes those materials sampled whose asbestos concentration exceeds 1%.

Sample Nos.	Homogenous Material Type	Location (s)	Friable	Condition	Method	Lab Result
1	Resilient sheet flooring (yellow tile pattern)	Restroom - 395 Cleaners and Laundromat	Yes (backing)	Good	PLM	25% chrysotile
10, 16, 18, 22, 24	Floor tile mastic - black	Former Ernst	No	Good	PLM	5 - 10% chrysotile
6	Asbestos-cement sheet material	Former Ernst roof area	No	Good	PLM	15% chrysotile
7, 8	Roofing mastic	Former Ernst roof area	No	Good	PLM	10% chrysotile

A variety of floor tile and sheet flooring types were observed in several areas. Not every type of floor covering was sampled during this survey. Therefore, unsampled flooring materials are presumed to contain asbestos until confirmed by sampling and analysis. Other suspect materials may be concealed or may be present in inaccessible areas. Examples of concealed and inaccessible suspect materials may include but are not limited to multiple flooring layers, fire-rated doors, and roofing.

11.0 FINDINGS AND CONCLUSIONS

ATC has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-97 of the Kennewick Plaza shopping center, located at the southwestern corner of West Kennewick Avenue and South Ely Street in Kennewick, Washington.. Any additions to, exceptions to, or deletions from this practice are described in Section 4.0 of this report. This assessment has identified the following *recognized environmental conditions* in connection with the Site:

- An auto service garage that operated on the Site from the early 1950s to 1976. The garage was located near the northeastern corner of the Site along West Kennewick Avenue between the existing Blockbuster Video and Denny's restaurant. Auto service involves the use and storage of petroleum products and solvents as well as the generation of waste petroleum products and hazardous waste. The use and storage of petroleum products and solvents and the generation of associated waste products have the potential for release to the subsurface through mishandling or improper storage. Auto service garages typically have USTs and hydraulic lifts that have the potential to leak stored petroleum product, waste oil, or hydraulic fluid to the subsurface.

Based on the screening tests conducted during this assessment, the following environmental condition outside the scope of ASTM Standard Practice E 1527-97 was identified:

- Regulated concentrations of asbestos were identified in sheet flooring, floor tile mastic, asbestos cement sheet, and roofing mastic.

12.0 LIMITATIONS

ATC has prepared this Phase I Environmental Site Assessment using reasonable efforts in each phase of its work to identify recognized environmental conditions associated with hazardous substances, wastes and petroleum products at the Site. The methodology of this Phase I Environmental Site Assessment was consistent with the ASTM Standard Practice for E 1527-97. Findings within this report are based on information collected from observations made on the day of the site investigation and from reasonably ascertainable information obtained from governing public agencies and private sources.

This report is not definitive and should not be assumed to be a complete or specific definition of the conditions above or below grade. Information in this report is not intended to be used as a construction document and should not be used for demolition, renovation, or other construction purposes. ATC makes no representation or warranty that the past or current operations at the Site are or have been in compliance with all applicable federal, state and local laws, regulations and codes.

This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated.

Subsurface conditions may differ from the conditions implied by the surface observations and can only be reliably evaluated through intrusive techniques.

Reasonable efforts have been made during this assessment of aboveground and underground storage tanks and ancillary equipment. "Reasonable efforts" are limited to information gained from visual observation of largely unobstructed areas, recorded database information held in public record and available information gathered from interviews. Such methods may not identify subsurface equipment that may have been hidden from view due to snow cover, paving, construction or debris pile storage, or incorrect information from sources.

ATC reviewed past ownership of the Site in an attempt to determine past site usage. ATC is not a professional title insurance firm and makes no guarantee, explicit or implied, that the records which were reviewed represent a comprehensive or precise delineation of past site ownership or tenancy for legal purposes.

13.0 REFERENCES

References identified in this report included the following:

Aerial Photographs for the years 1952, 1962, and 1998 (Benton County Public Works – Engineering Division, Prosser, Washington.

Aerial Photographs for the years 1962 and 1981 (City of Kennewick - Public Works Department, Kennewick, Washington).

Aerial Photographs for the years 1955, 1963, 1982, and 1991 (United States Department of Agriculture – Natural Resources Conservation Service, Prosser, Washington).

Aerial Photographs for the years 1970, 1972, and 1979 (Walker & Associates, Seattle, Washington).
City of Kennewick – Building Department: various permits and documents in the Site file.

ASTM, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, ASTM Designation E 1527-97, Published May 1997.

Benton County Assessor – property information.

Benton PUD, letter, December 3, 1999.

City directories (Polk's) for the years 1952-53, 1954, 1955, 1957, 1960, 1961, 1962-63, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983-84, 1985, 1988, 1991, and 1995 (Mid-Columbia Library – Kennewick Branch, Kennewick, Washington).

Conrad, Dolores - East Benton County Museum, long time resident of Kennewick (telephone interview on November 23 and 30, 1999).

Fletcher, Robert, resident on the Site during the 1960s and early 1970s (telephone interview on November 23, 1999).

Homewood, Russ, original property manager of Kennewick Plaza and long time resident of Kennewick (personal interview on November 16, 1999).

Kennewick, Wash., USGS topographic map, 7.5-minute series, 1:24,000 scale, 1992 (compiled from aerial photographs taken in 1959; revised from aerial photographs taken in 1988; field checked 1990; map edited in 1992).

Kirk, Ruth and Alexander, Carmela, *Exploring Washington's Past - A Road Guide to History*, University of Washington Press, 1990.

Peloquin, R.S., Michael, Environmental Health Specialist, Benton-Franklin Health District (personal interview on November 16, 1999).

Smith, Michael L., Water Quality Supervisor. City of Kennewick - Public Works Department (personal interview on November 16, 1999)

USEPA CERCLIS database updated November 12, 1999.

USEPA ERNS database - 1987 to December 2, 1999.

USEPA NPL database updated November 12, 1999.

USEPA Region 10 RCRIS Notifiers List database updated October 26, 1999.

USEPA Region 10 RCRIS Washington CORRACTS database updated October 26, 1999.

USEPA Region 10 RCRIS Washington Regulated Generators database updated October 26, 1999.

USEPA RCRIS Region 10 Washington TSD Facilities database updated October 26, 1999.

Washington State Department of Ecology, CSCS Report updated November 29, 1999.

Washington State Department of Ecology, LUST database updated November 1, 1999.

Washington State Department of Ecology, SW/LF database updated October 21, 1999.

Washington State Department of Ecology, UST database updated November 1, 1999.

Water Well Reports for Township 8 North, Range 29 East, Sections 2 and 3, Washington State Department of Ecology – Central Region Office, Yakima, Washington.

14.0 APPENDICES

Appendix A - Site Reconnaissance Photographs
Appendix B - Figures
Appendix C - Well Log Records
Appendix D - Aerial Photographs
Appendix E - Building Department Records
Appendix F - County Assessor Information
Appendix G - BPUD Transformer Documentation
Appendix H - Asbestos Bulk Sample Logs and Analytical Results
Appendix I - Resumes

APPENDIX A

SITE RECONNAISSANCE PHOTOGRAPHS

Photo 1: View looking southeast across the Site parking lot toward Safeway.

Photo 2: View looking southeast across the Site parking lot toward the Hallmark and Factory 2-U stores.

ATC ASSOCIATES INC.
Solutions For Environmental Concerns

PROJECT NO.:18452.0201	
DRAWN BY: NRG	FILE: Kennewick Photos 1-2.VSD
CHECKED BY: NRG	DATE : 12/8/99

SITE PHOTOGRAPHS

PHASE I ENVIRONMENTAL SITE ASSESSMENT
KENNEWICK PLAZA
WEST KENNEWICK AVENUE AND SOUTH ELY STREET
KENNEWICK, WASHINGTON

Photo 3: View looking southwest across the Site parking lot toward Flaherty's 99 cent Store (former Ernst).

Photo 4: View looking north across the Site parking lot toward one of the Site stand-alone buildings at the northwestern corner of the Site.

VATC ASSOCIATES INC.
Solutions For Environmental Concerns

PROJECT NO.:18452.0201	
DRAWN BY: NRG	FILE: Kennewick Photos 3-4.VSD
CHECKED BY: NRG	DATE : 12/8/99

SITE PHOTOGRAPHS

PHASE I ENVIRONMENTAL SITE ASSESSMENT
KENNEWICK PLAZA
WEST KENNEWICK AVENUE AND SOUTH ELY STREET
KENNEWICK, WASHINGTON

Photo 5: View looking northeast across the Site parking lot toward Blockbuster Video.

Photo 6: View looking northeast across the Site parking lot toward Denny's in the background. Main complex of the Site is at far right.

ATC ASSOCIATES INC.
Solutions For Environmental Concerns

PROJECT NO.:18452.0201	
DRAWN BY: NRG	FILE: Kennewick Photos 5-6.VSD
CHECKED BY: NRG	DATE : 12/8/99

SITE PHOTOGRAPHS

PHASE I ENVIRONMENTAL SITE ASSESSMENT
KENNEWICK PLAZA
WEST KENNEWICK AVENUE AND SOUTH ELY STREET
KENNEWICK, WASHINGTON

Photo 7: View looking east across the rear of Site (southern side).

Photo 8: View looking southeast across the rear of Site (southern side). The Highlander Apartments are at the right and Nendel's motel is in the background.

ATC ASSOCIATES INC.
Solutions For Environmental Concerns

PROJECT NO.:18452.0201	
DRAWN BY: NRG	FILE: Kennewick Photos 7-8.VSD
CHECKED BY: NRG	DATE : 12/8/99

SITE PHOTOGRAPHS

PHASE I ENVIRONMENTAL SITE ASSESSMENT
KENNEWICK PLAZA
WEST KENNEWICK AVENUE AND SOUTH ELY STREET
KENNEWICK, WASHINGTON

Photo 9: View looking southeast across the roof of the former Ernst store. Asbestos cement sheet material board is on the parapet wall in the background.

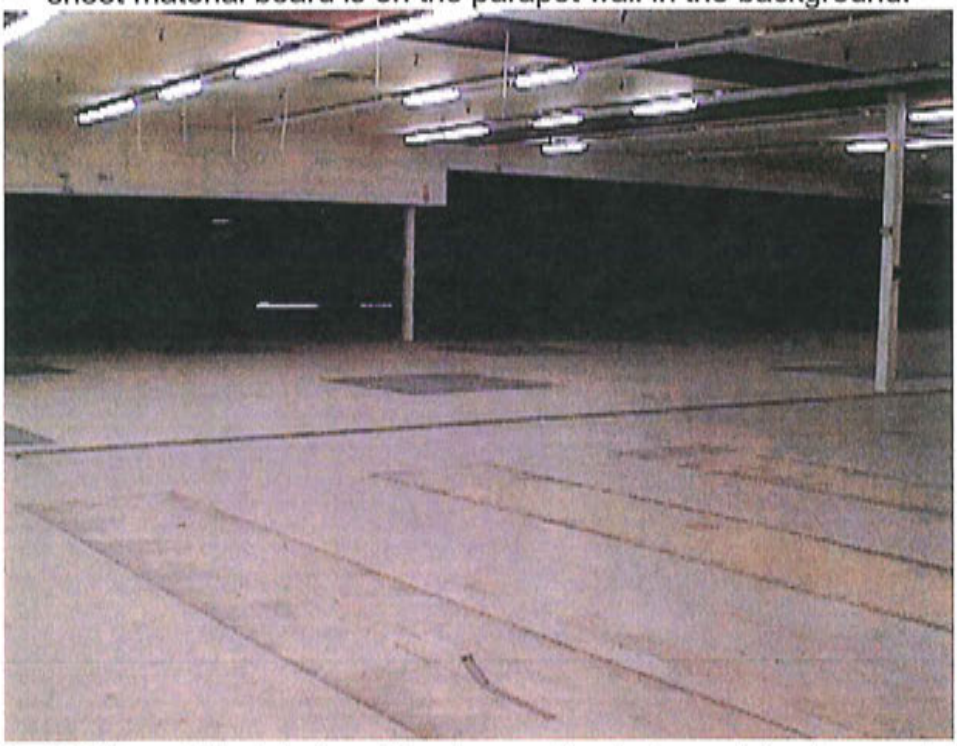


Photo 10: View of the interior of the former Ernst store. Asbestos-containing floor tile mastic is beneath the floor tiles.

VATC ASSOCIATES INC.
Solutions For Environmental Concerns

PROJECT NO.:18452.0201	
DRAWN BY: NRG	FILE: Kennewick Photos 9-10.VSD
CHECKED BY: NRG	DATE : 12/8/99

SITE PHOTOGRAPHS

PHASE I ENVIRONMENTAL SITE ASSESSMENT
KENNEWICK PLAZA
WEST KENNEWICK AVENUE AND SOUTH ELY STREET
KENNEWICK, WASHINGTON

Photo 11: View of the interior of 395 Cleaners and Laundromat.
No dry cleaning was observed on site.

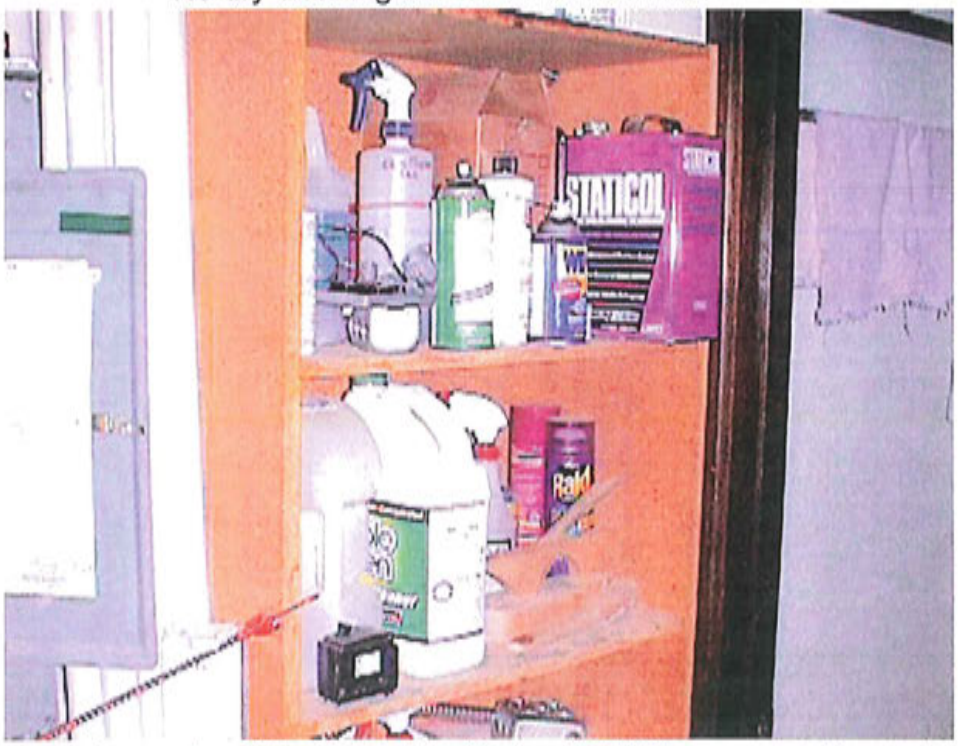


Photo 12: Cleaning and maintenance chemicals at 395 Cleaners and Laundromat.

VATC ASSOCIATES INC.
Solutions For Environmental Concerns

PROJECT NO.:18452.0201	
DRAWN BY: NRG	FILE: Kennewick Photos 11-12.VSD
CHECKED BY: NRG	DATE : 12/8/99

SITE PHOTOGRAPHS

PHASE I ENVIRONMENTAL SITE ASSESSMENT
KENNEWICK PLAZA
WEST KENNEWICK AVENUE AND SOUTH ELY STREET
KENNEWICK, WASHINGTON

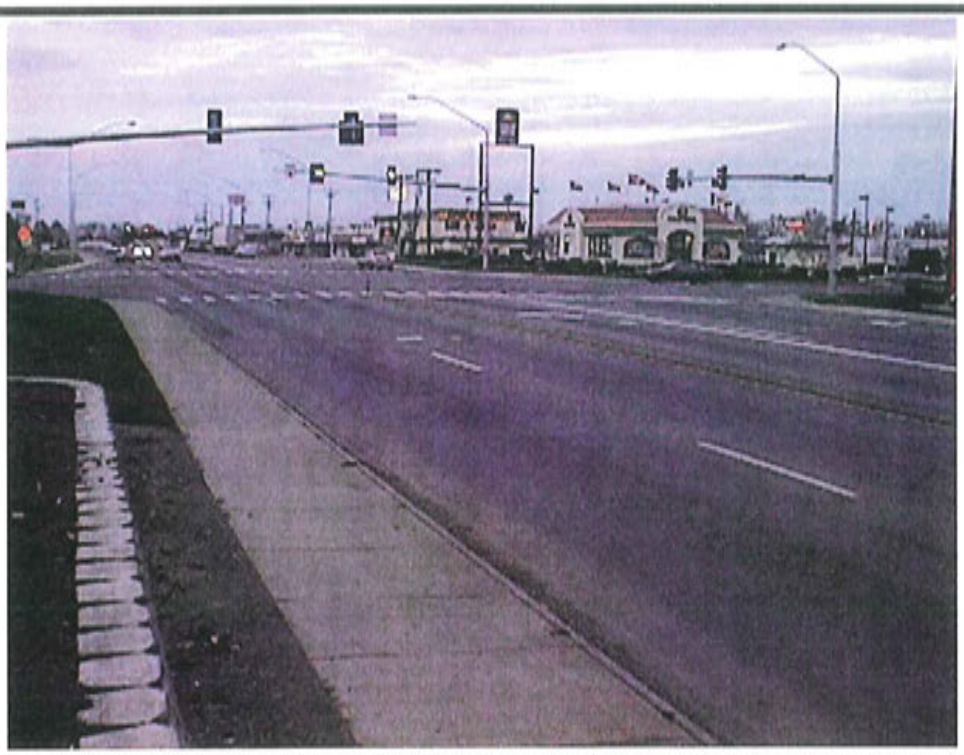


Photo 13: View looking northeast across the intersection of South Ely Street and West Kennewick Avenue. The Site is at the left. Taco Bell, a former gas station, is in the background.

Photo 14: View looking northwest across West Kennewick Avenue. The Site is at the left. Tri-City Cleaners and Rite Aid are at the right.

ATC ASSOCIATES INC.
Solutions For Environmental Concerns

PROJECT NO.:18452.0201	
DRAWN BY: NRG	FILE: Kennewick Photos 13-14.V8D
CHECKED BY: NRG	DATE : 12/8/99

SITE PHOTOGRAPHS

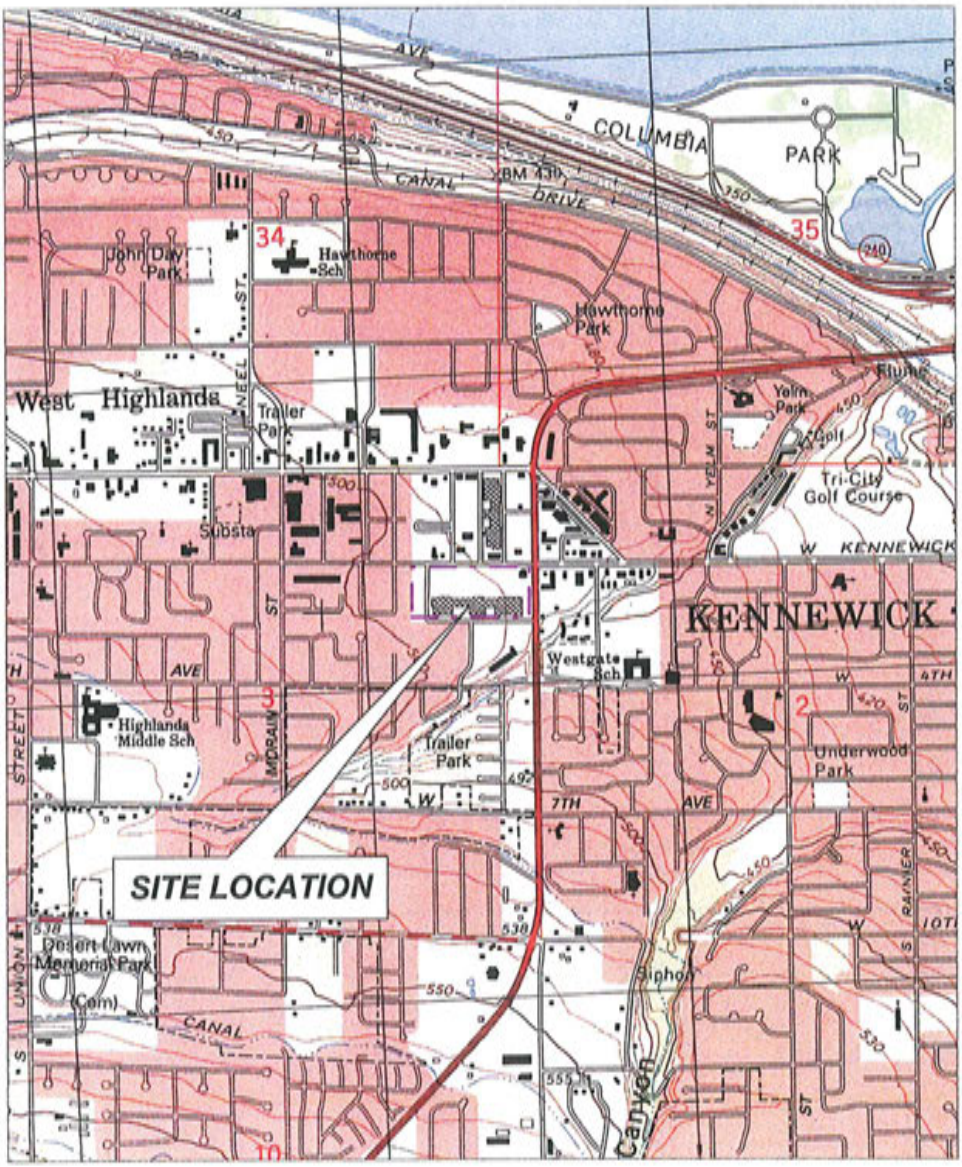
PHASE I ENVIRONMENTAL SITE ASSESSMENT
KENNEWICK PLAZA
WEST KENNEWICK AVENUE AND SOUTH ELY STREET
KENNEWICK, WASHINGTON

APPENDIX B

FIGURES

R 29 E.

T 8 N.



SOURCE: USGS 7.5-MINUTE TOPOGRAPHIC QUADRANGLE MAP
KENNEWICK, WASH.; 1992

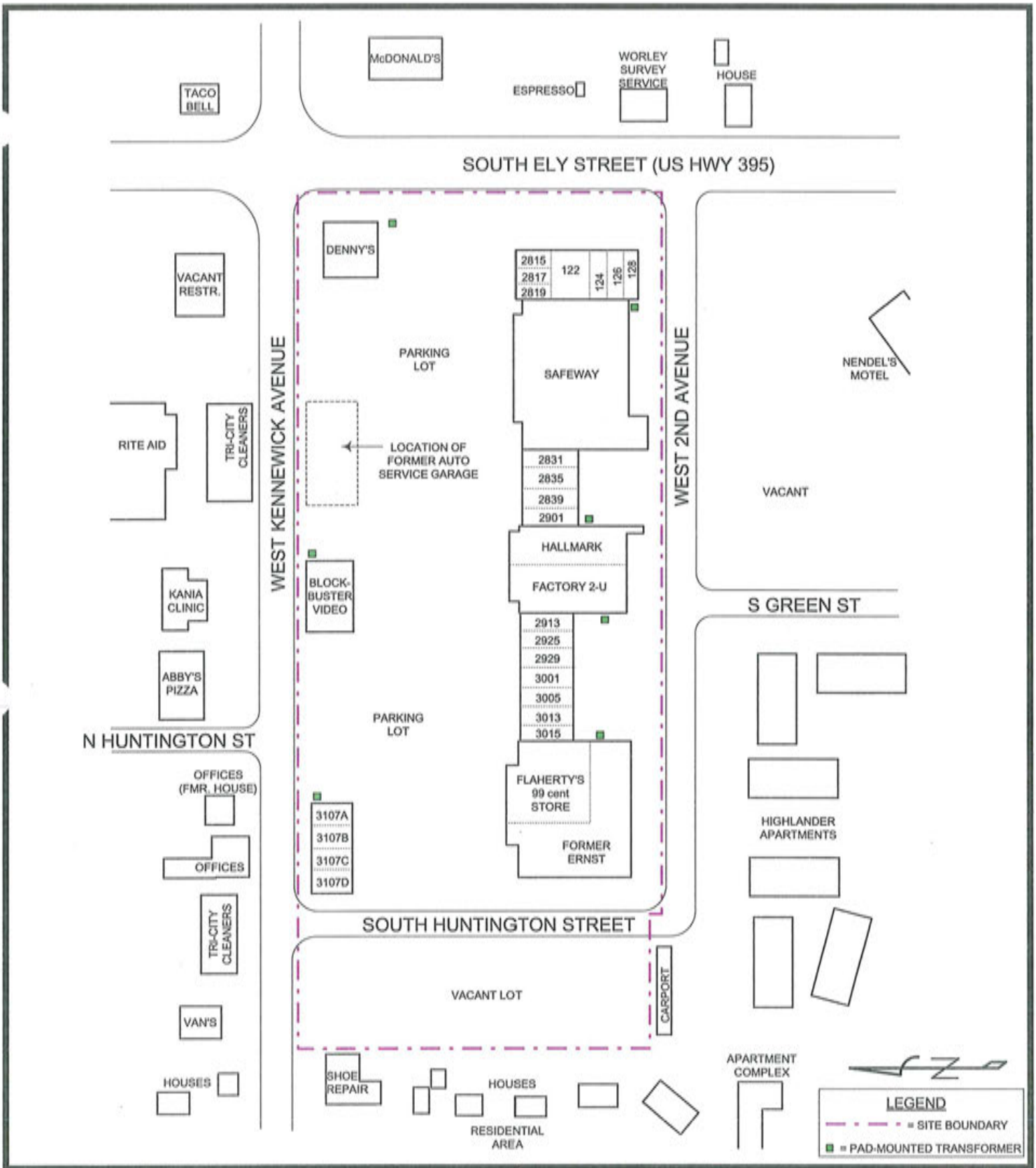
VATC ASSOCIATES INC.
Solutions for Environmental Concerns

PROJECT NO.: 76.18452.0201		
DESIGNED BY: NRG	SCALE: 1:24,000	
DRAWN BY: NRG	DATE : 12/8/99	FILE: Kennewick topo Fig1.VSD

FIGURE 1

TOPOGRAPHIC MAP

PHASE I ENVIRONMENTAL SITE ASSESSMENT
KENNEWICK PLAZA
WEST KENNEWICK AVENUE AND SOUTH ELY STREET
KENNEWICK, WASHINGTON



VATC ASSOCIATES INC.
Solutions for Environmental Concerns

PROJECT NO.: 76.18452.0201		
DESIGNED BY: NRG	SCALE: ~ 1" = 200'	
DRAWN BY: NRG	DATE : 12/8/99	FILE: Kennewick sitemap Fig2.VSD

FIGURE 2

SITE PLAN

PHASE I ENVIRONMENTAL SITE ASSESSMENT
KENNEWICK PLAZA
WEST KENNEWICK AVENUE AND SOUTH ELY STREET
KENNEWICK, WASHINGTON

APPENDIX C

WELL LOG RECORDS

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

4906 D

Start Card No. 31330

Water Right Permit No. _____

(1) OWNER: Name Petco Inc Address 670 Symons ST Richland

(2) LOCATION OF WELL: County Benton NW ¼ NW ¼ Sec 2 T. 8 N., R. 29E W.M.

(2a) STREET ADDDRESS OF WELL (or nearest address) 276 W Kean Ave Kennewick

(3) PROPOSED USE: ☐ Domestic ☐ Industrial ☐ Municipal ☐ ☐ Irrigation ☐ Test Well ☐ Other ☒ ☐ DeWater

Monitoring

(4) TYPE OF WORK: Owner's number of well (if more than one) 1

Abandoned ☒ New well ☒ Method: Dug ☐ Bored ☐ Deepened ☐ Cable ☐ Driven ☐ Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches. Drilled 14 feet. Depth of completed well 0 ft.

(6) CONSTRUCTION DETAILS:

Casing Installed: _____ " Diam. from _____ ft. to _____ ft.
Welded ☐ Liner installed ☐ Threaded ☐ _____ " Diam. from _____ ft. to _____ ft.
_____ " Diam. from _____ ft. to _____ ft.

Perforations: Yes ☐ No ☒

Type of perforator used _____

SIZE of perforations _____ in. by _____ in.

_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

Screens: Yes ☐ No ☒

Manufacturer's Name _____

Type _____ Model No. _____

Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes ☐ No ☒ Size of gravel _____

Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes ☒ No ☐ To what depth? 14 ft.

Material used in seal Euro plug med

Did any strata contain unusable water? Yes ☐ No ☒

Type of water? _____ Depth of strata _____

Method of sealing strata off _____

(7) PUMP: Manufacturer's Name _____

Type: _____ H.P. _____

(8) WATER LEVELS: Land-surface elevation above mean sea level _____ ft.

Static level 0 ft. below top of well Date _____

Artesian pressure _____ lbs. per square inch Date _____

Artesian water is controlled by _____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☐ If yes, by whom? _____

Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.

" " " "

" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test _____

Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.

Airtest _____ gal./min. with stem set at _____ ft. for _____ hrs.

Artesian flow _____ g.p.m. Date _____

Temperature of water _____ Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
Sand Gravel cobbles	0	9
Cobbles + gravel	9	14
Pulled casing and Filled with euro plug med		

MAY 16 1991
DEPARTMENT OF ECOLOGY
CENTRAL REGIONAL OFFICE

Work started 5-9 19 Completed 5-9 19 91

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME NELSON Well Drilling Inc (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address 10036 W Argent Pasco

(Signed) James Nelson (WELL DRILLER) License No. 361

Contractor's Registration No. NELSOWD198Q Date 5-15 19 91

(USE ADDITIONAL SHEETS IF NECESSARY)

NOV-29-99 12:55 From:WDOE CRO 5095752809 T-016 P.16/24 Job-908

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

4905 D

Start Card No. 31330

Water Right Permit No. _____

(1) OWNER: Name Petco Inc Address 620 Symons Richland

(2) LOCATION OF WELL: County Benton NE¼ NW¼ Sec 2 T. 8 N., R. 29E W.M.

(2a) STREET ADDDRESS OF WELL (or nearest address) 2714 W Kennewick Kennewick

(3) PROPOSED USE: ☐ Domestic ☐ Industrial ☐ Municipal ☐ ☐ Irrigation ☐ Test Well ☐ Other ☒ ☐ DeWater
Monitoring

(4) TYPE OF WORK: Owner's number of well (if more than one) 2
Abandoned ☒ New well ☒ Method: Dug ☐ Bored ☐ Deepened ☐ Cable ☐ Driven ☐ Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches. Drilled 14 feet. Depth of completed well 20 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: _____ * Diam. from _____ ft. to _____ ft.
Welded ☐ _____ * Diam. from _____ ft. to _____ ft.
Liner installed ☐ Threaded ☐ _____ * Diam. from _____ ft. to _____ ft.

Perforations: Yes ☐ No ☒
Type of perforator used _____
SIZE of perforations _____ in. by _____ in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

Screens: Yes ☐ No ☒
Manufacturer's Name _____
Type _____ Model No. _____
Diam. _____ Slot size _____ from _____ ft. to _____ ft.
Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes ☐ No ☒ Size of gravel _____
Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes ☒ No ☐ To what depth? 14 ft.
Material used in seal Enviroplug med
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(7) PUMP: Manufacturer's Name _____
Type: _____ H.P. _____

(8) WATER LEVELS: Land-surface elevation above mean sea level _____ ft.
Static level 0 ft. below top of well Date _____
Artesian pressure _____ lbs. per square inch Date _____
Artesian water is controlled by _____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom? _____
Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
" " " " " " " "
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test _____
Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Airtest _____ gal./min. with stem set at _____ ft. for _____ hrs.
Artesian flow _____ g.p.m. Date _____
Temperature of water _____ Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
Sand & Gravel + Cobbles	0	9
Cobbles & gravel	9	14
Pulled casing and filled with enviroplug med.		

Work started 5-9 19 Completed 5-9 1991

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME Nelson Well Drilling, Inc (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address 10036 W Agent Pasco

(Signed) James Nelson (WELL DRILLER) License No. 361

Contractor's Registration No. NELSOWD198CQ Date 5-15 1991

(USE ADDITIONAL SHEETS IF NECESSARY)

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

4904 Start Card No. 31330

Water Right Permit No. D

(1) OWNER: Name PeTco Inc Address 670 Symons

(2) LOCATION OF WELL: County Benton NW¼ NW¼ Sec. 2 T. 8 N., R. 29E W.M.

(2a) STREET ADDRESS OF WELL (or nearest address) 2718 W Kennewick ave Kennewick

(3) PROPOSED USE: ☐ Domestic ☐ Industrial ☐ Municipal ☐ ☐ Irrigation ☐ Test Well ☐ Other ☒ ☐ DeWater
Monitoring

(4) TYPE OF WORK: Owner's number of well (if more than one) 3
Abandoned ☒ New well ☒ Method: Dug ☐ Bored ☐ Deepened ☐ Cable ☐ Driven ☐ Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches. Drilled 14 feet. Depth of completed well 0 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: ____" Diam. from ____ ft. to ____ ft.
Welded ☐ Liner installed ☐ Threaded ☐ ____" Diam. from ____ ft. to ____ ft.
____" Diam. from ____ ft. to ____ ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations ____ in. by ____ in.
____ perforations from ____ ft. to ____ ft.
____ perforations from ____ ft. to ____ ft.
____ perforations from ____ ft. to ____ ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 14 ft.
Material used in seal Envirosplug Med
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level ft.
Static level ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Airtest gal./min. with stem set at ft. for hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
Sand Gravel cobbles	0	9
Cobbles & gravel	9	14
Pulled casing and filled with Envirosplug Med		

MAY 18

Work started 5-9, 19. Completed 6-9, 1991

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME NELSON Well Drilling INC (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address 10036 W Argent Paseo

(Signed) James Nelson (WELL DRILLER) License No. 361

Contractor's Registration No. NELSOWD198CQ Date 5-15, 1991

(USE ADDITIONAL SHEETS IF NECESSARY)

NOV-29-99 12:54 From:WDOE CRO 5095752809 T-016 P.14/24 Job-908

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

4903 D

Start Card No. 31330

Water Right Permit No.

(1) OWNER: Name Petco Inc Address 620 Symons Richland

(2) LOCATION OF WELL: County Benton NW ¼ NW ¼ Sec 2 T 8 N., R 26E W.M.

(2a) STREET ADDDRESS OF WELL (or nearest address) 2711 W Kerr Ave Kennewick

(3) PROPOSED USE: ☐ Domestic ☐ Industrial ☐ Municipal ☐ ☐ Irrigation ☐ Test Well ☐ Other ☑ ☐ DeWater
Monitoring

(4) TYPE OF WORK: Owner's number of well (if more than one) 4
Abandoned ☒ New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☑ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 14 feet. Depth of completed well 0 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: ____" Diam. from ____ ft. to ____ ft.
Welded ☐ ____" Diam. from ____ ft. to ____ ft.
Liner installed ☐
Threaded ☐ ____" Diam. from ____ ft. to ____ ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations ____ in. by ____ in.
____ perforations from ____ ft. to ____ ft.
____ perforations from ____ ft. to ____ ft.
____ perforations from ____ ft. to ____ ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 14 ft.
Material used in seal Enviro plug med.
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level ____ ft.
Static level ____ ft. below top of well Date
Artesian pressure ____ lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: ____ gal./min. with ____ ft. drawdown after ____ hrs.
" " " "
" " " "
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test ____ gal./min. with ____ ft. drawdown after ____ hrs.
Airtest ____ gal./min. with stem set at ____ ft. for ____ hrs.
Artesian flow ____ g.p.m. Date
Temperature of water ____ Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
Sand gravel & cobbles	0	9
Cobbles & gravel	9	14
Pulled casing and filled with Enviroplug med		

Work started 5-9 19 Completed 5-9 19 91

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME Nelson Well Drilling, Inc (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address 10036 W. Argent Paxo

(Signed) James Nelson (WELL DRILLER) License No. 361

Contractor's Registration No. NELSOND 148CQ Date 5-15 19 91

(USE ADDITIONAL SHEETS IF NECESSARY)

NOV-29-99 12:54 From:MOOE CRO 5095752809 T-016 P.13/24 Job-908

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

4902 Start Card No. 31330

Water Right Permit No. _____

(1) OWNER: Name Petco Inc Address 620 Symons Richland

(2) LOCATION OF WELL: County Benton NW ¼ NE ¼ Sec 2 T. 8 N., R 28E W.M.

(2a) STREET ADDDRESS OF WELL (or nearest address) 2718 W Kennewick Ave Kennewick

(3) PROPOSED USE: ☐ Domestic ☐ Industrial ☐ Municipal ☐ ☐ Irrigation ☐ Test Well ☐ Other ☐ ☐ DeWater

(4) TYPE OF WORK: Owner's number of well (if more than one) 5

Abandoned ☐ New well ☒ Method: Dug ☐ Bored ☐ Deepened ☐ Cable ☐ Driven ☐ Reconditioned ☐ Rotary ☒ Jetted ☐

Monitoring

(5) DIMENSIONS: Diameter of well 6 inches. Drilled 14 feet. Depth of completed well 0 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: _____" Diam. from _____ ft. to _____ ft.
Welded ☐ Liner installed ☐ Threaded ☐ _____" Diam. from _____ ft. to _____ ft.
_____" Diam. from _____ ft. to _____ ft.

Perforations: Yes ☐ No ☒
Type of perforator used _____
SIZE of perforations _____ in. by _____ in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

Screens: Yes ☐ No ☒
Manufacturer's Name _____
Type _____ Model No. _____
Diam. _____ Slot size _____ from _____ ft. to _____ ft.
Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes ☐ No ☒ Size of gravel _____
Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes ☒ No ☐ To what depth? 10 ft.
Material used in seal Enviroplug Mud
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(7) PUMP: Manufacturer's Name _____
Type: _____ H.P. _____

(8) WATER LEVELS: Land-surface elevation above mean sea level _____ ft.
Static level 5 ft. below top of well Date _____
Artesian pressure _____ lbs. per square inch Date _____
Artesian water is controlled by _____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom? _____
Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test _____
Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Airtest _____ gal./min. with stem set at _____ ft. for _____ hrs.
Artesian flow _____ g.p.m. Date _____
Temperature of water _____ Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
Sand Gravel + cobbles	0	9
cobbles + gravel	9	14

MAY 16

Work started 5-9 19 Completed 5-9 19 91

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME NELSON Well Drilling, Inc (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address 10036 W. Argent Pasco

(Signed) James Nelson (WELL DRILLER) License No. 361

Contractor's Registration No. NELSOWD198CQ Date 5-9 19 91

(USE ADDITIONAL SHEETS IF NECESSARY)

NOV-29-99 12:53 From:WDOE CRO 5095752809 T-016 P.12/24 Job-908

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Start Card No. 49/31330

Water Right Permit No. D

(1) OWNER: Name Petco Inc Address 620 Symons Richland

(2) LOCATION OF WELL: County Benton NW¼ NW¼ Sec 2 T. 8 N., R. 29E W.M.

(2a) STREET ADDDRESS OF WELL (or nearest address) 2218 W Kennewick Ave Kennewick

(3) PROPOSED USE: ☐ Domestic ☐ Industrial ☐ Municipal ☐ ☐ Irrigation ☐ Test Well ☐ Other ☒ DeWater
Monitoring

(4) TYPE OF WORK: Owner's number of well (if more than one) 6
Abandoned ☒ New well ☑ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☑ Jetted ☐
Monitoring

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 14 feet. Depth of completed well 0 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: ____" Diam. from ____ ft. to ____ ft.
Welded ☐ ____" Diam. from ____ ft. to ____ ft.
Liner installed ☐
Threaded ☐ ____" Diam. from ____ ft. to ____ ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations ____ in. by ____ in.
____ perforations from ____ ft. to ____ ft.
____ perforations from ____ ft. to ____ ft.
____ perforations from ____ ft. to ____ ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. ____ Slot size ____ from ____ ft. to ____ ft.
Diam. ____ Slot size ____ from ____ ft. to ____ ft.

Gravel packed: Yes ☐ No ☒ Size of gravel
Gravel placed from ____ ft. to ____ ft.

Surface seal: Yes ☒ No ☐ To what depth? 14 ft.
Material used in seal Enviro plug Med
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? ____ Depth of strata ____
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level ____ ft.
Static level ____ ft. below top of well Date
Artesian pressure ____ lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: ____ gal./min. with ____ ft. drawdown after ____ hrs.
" " " "
" " " "
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test ____ gal./min. with ____ ft. drawdown after ____ hrs.
Airtest ____ gal./min. with stem set at ____ ft. for ____ hrs.
Artesian flow ____ g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
Sand gravel + cobbles	0	9
Cobbles + gravel	9	14
Pulled casing and filled with Enviroplug med		

Work started 5-15, 19. Completed 5-15, 19 94

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME Nelson Well Drilling Inc (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address 10036 W Agent Paseo

(Signed) James Nelson (WELL DRILLER) License No. 361

Contractor's Registration No. NELSOWD198CQ Date 5-15, 1994

(USE ADDITIONAL SHEETS IF NECESSARY)

NOV-29-99 12:52 From:MDOE CRO 5095752809 T-016 P.08/24 Job-908

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

~~4900~~ ~~4894~~ ~~4898~~ Start Card No. 3130

Water Right Permit No.

(1) OWNER: Name Petco Inc Address 670 Symons Richland

(2) LOCATION OF WELL: County Benton NW ¼ NW ¼ Sec. 2 T. 8 N., R. 29E W.M.

(2a) STREET ADDRESS OF WELL (or nearest address) 2218 W Kenn ave Kennewick

(3) PROPOSED USE: ☐ Domestic ☐ Irrigation ☐ DeWater Industrial ☐ Test Well ☐ Municipal ☐ Other ☒ Monitoring

(4) TYPE OF WORK: Owner's number of well (if more than one) 7
Abandoned ☒ New well ☒ Deepened ☐ Reconditioned ☐ Method: Dug ☐ Cable ☐ Rotary ☒ Bored ☐ Driven ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 14 feet. Depth of completed well 0 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: ____" Diam. from ____ ft. to ____ ft.
Welded ☐ ____" Diam. from ____ ft. to ____ ft.
Liner installed ☐ ____" Diam. from ____ ft. to ____ ft.
Threaded ☐

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations ____ in. by ____ in.
____ perforations from ____ ft. to ____ ft.
____ perforations from ____ ft. to ____ ft.
____ perforations from ____ ft. to ____ ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type ____ Model No.
Diam. ____ Slot size ____ from ____ ft. to ____ ft.
Diam. ____ Slot size ____ from ____ ft. to ____ ft.

Gravel packed: Yes ☐ No ☒ Size of gravel
Gravel placed from ____ ft. to ____ ft.

Surface seal: Yes ☒ No ☐ To what depth? 14 ft.
Material used in seal Enviro plug med
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? ____ Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: ____ H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level ____ ft.
Static level ____ ft. below top of well Date
Artesian pressure ____ lbs. per square inch Date
Artesian water is controlled by ____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: ____ gal./min. with ____ ft. drawdown after ____ hrs.
" " " "
" " " "
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test ____ gal./min. with ____ ft. drawdown after ____ hrs.
Airtest ____ gal./min. with stem set at ____ ft. for ____ hrs.
Artesian flow ____ g.p.m. Date
Temperature of water ____ Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
Sand gravel + Cobbles	0	9
Cobbles + gravel	9	14
Pulled casing and filled with Enviro plug med		

Work started 5-9, 19__ Completed 5-9, 1991

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME Nelson Well Drilling Inc (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)
Address 10036 W Argent Pasco
(Signed) James Nelson (WELL DRILLER) License No. 361
Contractor's Registration No. NELSOWD198C Date 5-15, 1991

(USE ADDITIONAL SHEETS IF NECESSARY)

NOV-29-99 12:51 From:WDOE CRO 5095752809 T-016 P.07/24 Job-908

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

4828 Start Card No. 31330

Water Right Permit No. D

(1) OWNER: Name Petco Inc Address 620 Symons Richland

(2) LOCATION OF WELL: County Benton NW¼ NW¼ Sec 2 T. 8 N., R 29E W.M.

(2a) STREET ADDDRESS OF WELL (or nearest address) 2218 W Kenn Ave Kennewick

(3) PROPOSED USE: ☐ Domestic ☐ Industrial ☐ Municipal ☐ ☐ Irrigation ☐ Test Well ☐ Other ☒ ☐ DeWater
monitoring

(4) TYPE OF WORK: Owner's number of well (if more than one) 4
Abandoned ☒ New well ☒ Method: Dug ☐ Bored ☐ Deepened ☐ Cable ☐ Driven ☐ Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches. Drilled 14 feet. Depth of completed well 0 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: ____" Diam. from ____ ft. to ____ ft.
Welded ☐ Liner installed ☐ Threaded ☐ ____" Diam. from ____ ft. to ____ ft.
Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations ____ in. by ____ in.
____ perforations from ____ ft. to ____ ft.
____ perforations from ____ ft. to ____ ft.
____ perforations from ____ ft. to ____ ft.
Screens: Yes ☐ No ☒
Manufacturer's Name
Type ____ Model No.
Diam. ____ Slot size ____ from ____ ft. to ____ ft.
Diam. ____ Slot size ____ from ____ ft. to ____ ft.
Gravel packed: Yes ☐ No ☒ Size of gravel
Gravel placed from ____ ft. to ____ ft.
Surface seal: Yes ☒ No ☐ To what depth? 14 ft.
Material used in seal Enviro plug med
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? ____ Depth of strata ____
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: ____ H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level ____ ft.
Static level ____ ft. below top of well Date
Artesian pressure ____ lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: ____ gal./min. with ____ ft. drawdown after ____ hrs.
" " " "
" " " "
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test ____ gal./min. with ____ ft. drawdown after ____ hrs.
Airtest ____ gal./min. with stem set at ____ ft. for ____ hrs.
Artesian flow ____ g.p.m. Date
Temperature of water ____ Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
Sand Gravel + cobbles	0	9
cobbles + gravel	9	14
Perf'd casing and filled with Enviro plug med.		

Work started 5-9 19 Completed 5-9 19 91

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME Nelson Well Drilling Inc (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address 10036 W Argent Pasco

(Signed) James Nelson (WELL DRILLER) License No. 361

Contractor's Registration No. NELSOWD198CQ Date 5-15 19 91

(USE ADDITIONAL SHEETS IF NECESSARY)

NOV-29-99 12:50 From:WDOE CRO 5095752809 T-016 P.02 Job-908

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

4849 D

Start Card No. 31330

Water Right Permit No. _____

(1) OWNER: Name Petco Inc Address 670 Symons Richland

(2) LOCATION OF WELL: County Benton NW¼ NW¼ Sec 2 T. 8 N., R 29E W.M.

(2a) STREET ADDDRESS OF WELL (or nearest address) 2218 W Kenn ave Kennewick

(3) PROPOSED USE: ☐ Domestic ☐ Irrigation ☐ DeWater ☐ Industrial ☐ Test Well ☐ Municipal ☐ Other ☒
Monitoring

(4) TYPE OF WORK: Owner's number of well (if more than one) 9
Abandoned ☒ New well ☒ Deepened ☐ Reconditioned ☐ Method: Dug ☐ Cable ☐ Rotary ☐ Bored ☐ Driven ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 34 feet. Depth of completed well 0 ft.

(6) CONSTRUCTION DETAILS:
Casing Installed: _____" Diam. from _____ ft. to _____ ft.
Welded ☐ Liner installed ☐ Threaded ☐ _____" Diam. from _____ ft. to _____ ft.
_____" Diam. from _____ ft. to _____ ft.

Perforations: Yes ☐ No ☒
Type of perforator used _____
SIZE of perforations _____ in. by _____ in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

Screens: Yes ☐ No ☒
Manufacturer's Name _____
Type _____ Model No. _____
Diam. _____ Slot size _____ from _____ ft. to _____ ft.
Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes ☐ No ☒ Size of gravel _____
Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes ☒ No ☐ To what depth? 34 ft.
Material used in seal Enviro plug Mud
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(7) PUMP: Manufacturer's Name _____
Type: _____ H.P. _____

(8) WATER LEVELS: Land-surface elevation above mean sea level _____ ft.
Static level _____ ft. below top of well Date _____
Artesian pressure _____ lbs. per square inch Date _____
Artesian water is controlled by _____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom? _____
Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test _____
Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Airlift _____ gal./min. with stem set at _____ ft. for _____ hrs.
Artesian flow _____ g.p.m. Date _____
Temperature of water _____ Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
Sand Gravel Fcobbles	0	9
Cobbles gravel	9	17
Cobble Gravel Fsand	17	27
gravel Fsand	27	34
Pulled Casing and Filled with Enviro plug mud		

Work started 5-10 19 Completed 5-10 19 91

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME NELSON Well Drilling INC (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address 10036 W Argent Pasco

(Signed) James Nelson (WELL DRILLER) License No. 361

Contractor's Registration No. NELSOWD194CQ Date 5-15 19 91

(USE ADDITIONAL SHEETS IF NECESSARY)

NOV-29-99 12:51 From:WDOE CRO 5095752809 T-016 P.06/24 Job-908

4870

SOIL SAMPLING SERVICE, INC.

1415 MERIDIAN EAST, PUYALLUP, WA 98371-1399
FEDERAL ID #: 91-0762274 WA CONT. #SOILSS*344LO
Geotechnical, Engineering & Mineral Exploration Drilling • Instrumentation • Horizontal Drains
Ground Water Monitoring • Hazardous Waste Identification • Well Abandonments

(206) 927-3173
TELEX: 466782
FAX: (206) 927-3478

D

JAN 18 1991
DEPARTMENT OF ECOLOGY
CENTRAL REGION OFFICE

RESOURCE PROTECTION WELL REPORT

PROJECT NAME: UNOCAL
WELL IDENTIFICATION NO.: MW1, MW2, MW3, MW4, MW5
DRILLING METHOD: 6¼ HOLLOW STEM
DRILLER: D. KETVIRTIS
SIGNATURE: D. Ketvirtis
CONSULTING FIRM: HART CROWSER
REPRESENTATIVE:

JOB #: 2W897 START CARD NO.: 075694
COUNTY: KITSAP CITY: KENNEWICK
LOCATION: 1/4 NW 1/4 NW 1/4
SEC.: 2 TOWN: 9N RANGE: 29E
DATUM:
WATER LEVEL ELEVATION:
INSTALLED: 1/8/91 & 1/9/91
DEVELOPED:

WELL DATA	AS BUILT	FORMATION DESCRIPTION
	SEE ATTACHED SHEETS	

SCALE: 1" = _____ PAGE _____ OF _____

NOV-29-99 12:50 From:WDOE CRO 5095752809 T-016 P.03 Job-908

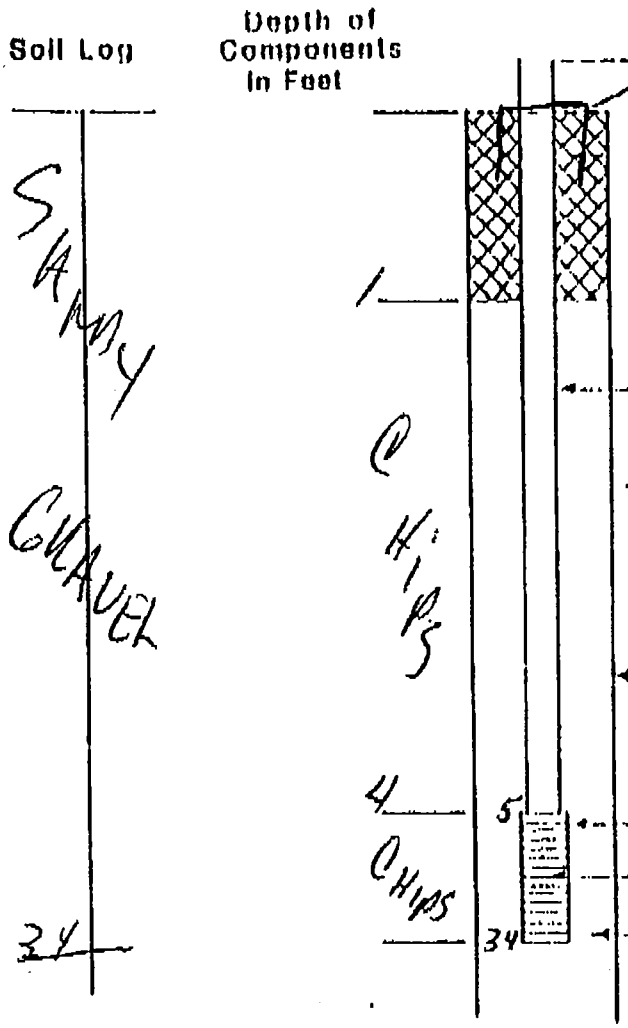
Monitoring Well Installation Report - Boring MW-1

Project UNOCAL Job No 4387 Date 4/8/91

NW NW SEC 2

Location TOWN = 8N, RANGE 27E HC Observer _____ Driller _____

Type of Well (Observation, Sampling, etc.) GAS EXTRACTION



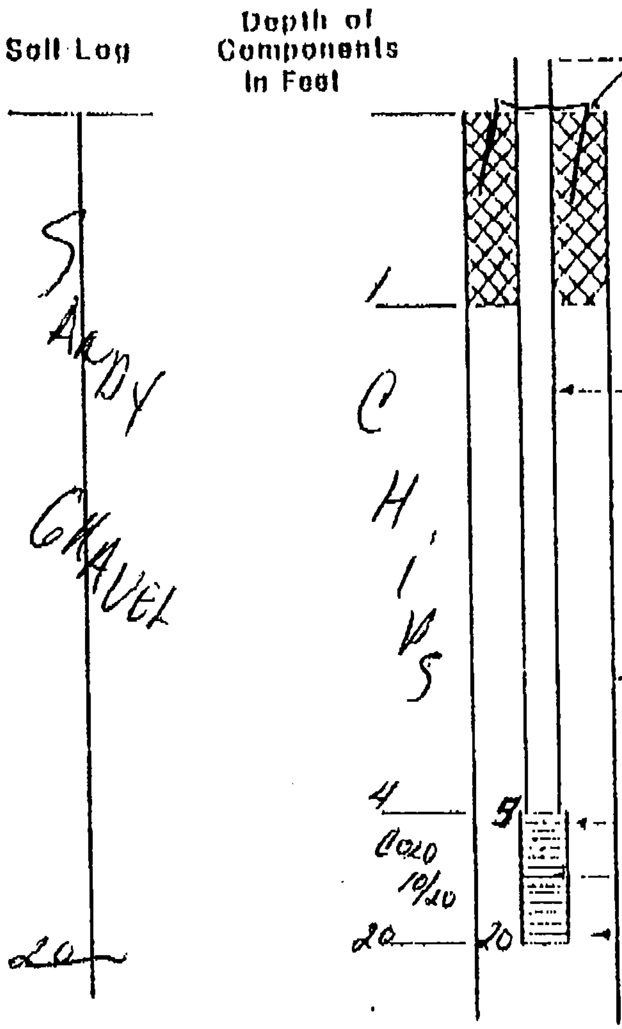
NOV-29-99 12:51 From:WDOE CRO 5095752809 T-016 P.04 Job-908

Monitoring Well Installation Report – Boring MW 2434

Project UNOCAL ____ Job No. U2897 ____ Date 1/8 + 1/9/96

Location Town = 8N, Range 29 E, NW-NW Sec 2, EC Observer ____ Driller ____

Type of Well (Observation, Sampling, etc.) GAS EXTRACTION



Stick up ____ on ____ Casing

Approximate Ground Surface Elevation in Feet ____

Type of Surface Seal CONCRETE

ID of Riser Pipe 2"

Type of Riser Pipe PVC Sch 40

Type of Connection THREADED

Type of Backfill around Riser CHIPS

Diameter of Borehole 6"

Type of Tip PVC Sch 40

Screen Size or Type .020 SLOT

Type of Filter Material Colo 10/20

NOV-29-99 12:51 From:WDOE CRO 5095752809 T-016 P.05 Job-908

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. _____

Water Right Permit No. _____

(1) OWNER: Name ONOCAL Address _____

LOCATION OF WELL: County Benton NW ¼ NW ¼ Sec 2 T. 8 N., R. 28E W.M.

(2a) STREET ADDDRESS OF WELL (or nearest address) @ Vista Way & Bruneau

(3) PROPOSED USE: ☐ Domestic ☐ Industrial ☐ Municipal ☐ ☐ Irrigation ☐ Test Well ☐ Other ☒ ☐ DeWater

(4) TYPE OF WORK: Owner's number of well (if more than one) MW-2

Abandoned ☒ New well ☐ Method: Dug ☐ Bored ☐ Deepened ☐ Cable ☐ Driven ☐ Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 2" inches. Drilled _____ feet. Depth of completed well 20 ft.

(6) CONSTRUCTION DETAILS:

Casing Installed: _____ " Diam. from _____ ft. to _____ ft.
Welded ☐ Liner installed ☐ Threaded ☐
_____ " Diam. from _____ ft. to _____ ft.
_____ " Diam. from _____ ft. to _____ ft.

Perforations: Yes ☐ No ☐
Type of perforator used _____
SIZE of perforations _____ in. by _____ in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

Screens: Yes ☐ No ☐
Manufacturer's Name _____
Type _____ Model No. _____
Diam. _____ Slot size _____ from _____ ft. to _____ ft.
Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes ☐ No ☐ Size of gravel _____
Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes ☐ No ☐ To what depth? _____ ft.
Material used in seal _____
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(7) PUMP: Manufacturer's Name _____
Type: _____ H.P. _____

(8) WATER LEVELS: Land-surface elevation above mean sea level _____ ft.
Static level _____ ft. below top of well Date _____
Artesian pressure _____ lbs. per square inch Date _____
Artesian water is controlled by _____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom? _____
Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test _____
Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Airtest _____ gal./min. with stem set at _____ ft. for _____ hrs.
Artesian flow _____ g.p.m. Date _____
Temperature of water _____ Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
Opened bottom of well & Backfilled with Bentonite hydrated to surface & Capped with cement	0	20

RECEIVED
DEC 4 1992

Work started 10-28, 19. Completed 10-28, 1992

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME Environmental West Exploration (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address E. 6018 Alki Spokane WA.

(Signed) [signature] (WELL DRILLER) License No. 1815

Contractor's Registration No. ENVIRWEST01PP Date 11-25, 1992

(USE ADDITIONAL SHEETS IF NECESSARY)

NOV-29-99 12:53 From:WDOE CRO 5095752809 T-016 P.11/24 Job-908

8016

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. ______

Water Right Permit No. ______

(1) OWNER: Name UNOCAL Address ______

LOCATION OF WELL: County Benton NW ¼ NW ¼ Sec. 2 T. 8 N., R. 29E W.M.

(2a) STREET ADDDRESS OF WELL (or nearest address) Vista WAY & Bruneau

(3) PROPOSED USE: ☐ Domestic ☐ Irrigation ☐ DeWater Industrial ☐ Test Well ☐ Municipal ☐ Other ☒

(4) TYPE OF WORK: Owner's number of well (if more than one) MW-4
Abandoned ☒ New well ☐ Deepened ☐ Reconditioned ☐ Method: Dug ☐ Cable ☐ Rotary ☐ Bored ☐ Driven ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 2" inches.
Drilled ______ feet. Depth of completed well 20' ft.

(6) CONSTRUCTION DETAILS:
Casing Installed: ______" Diam. from ______ ft. to ______ ft.
Welded ☐ ______" Diam. from ______ ft. to ______ ft.
Liner Installed ☐
Threaded ☐ ______" Diam. from ______ ft. to ______ ft.

Perforations: Yes ☐ No ☐
Type of perforator used ______
SIZE of perforations ______ in. by ______ in.
______ perforations from ______ ft. to ______ ft.
______ perforations from ______ ft. to ______ ft.
______ perforations from ______ ft. to ______ ft.

Screens: Yes ☐ No ☐
Manufacturer's Name ______
Type ______ Model No. ______
Diam. ______ Slot size ______ from ______ ft. to ______ ft.
Diam. ______ Slot size ______ from ______ ft. to ______ ft.

Gravel packed: Yes ☐ No ☐ Size of gravel ______
Gravel placed from ______ ft. to ______ ft.

Surface seal: Yes ☐ No ☐ To what depth? ______ ft.
Material used in seal ______
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? ______ Depth of strata ______
Method of sealing strata off ______

(7) PUMP: Manufacturer's Name ______
Type: ______ H.P. ______

(8) WATER LEVELS: Land-surface elevation above mean sea level ______ ft.
Static level ______ ft. below top of well Date ______
Artesian pressure ______ lbs. per square inch Date ______
Artesian water is controlled by ______ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom? ______
Yield: ______ gal./min. with ______ ft. drawdown after ______ hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test ______
Bailer test ______ gal./min. with ______ ft. drawdown after ______ hrs.
Airtest ______ gal./min. with stem set at ______ ft. for ______ hrs.
Artesian flow ______ g.p.m. Date ______
Temperature of water ______ Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
Opened Bottom of well & Back Filled with hydrated bentonite to surface & capped with cement	0	20

RECEIVED DEC 14 1992 DEPT. OF ECOLOGY

Work started 10-28, 19. Completed 10-28, 1992

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME Environmental West Exploration (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address E 6014 Alki Spokane WA.

(Signed) [signature] (WELL DRILLER) License No. 1815

Contractor's Registration No. ENVIRWE101PP Date 11-25, 1992

(USE ADDITIONAL SHEETS IF NECESSARY)

NOV-29-99 12:53 From:WDOE CRO 5095752809 T-016 P.10/24 Job-908

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. _____

Water Right Permit No. _____

(1) OWNER: Name CONOCAL Address _____

LOCATION OF WELL: County Benton NW ¼ NW ¼ Sec 2 T. 8 N., R. 28E W.M.

(2a) STREET ADDDRESS OF WELL (or nearest address) West way of Brunneau

(3) PROPOSED USE: ☐ Domestic ☐ Industrial ☐ Municipal ☐ ☐ Irrigation ☐ Test Well ☐ Other ☒ ☐ DeWater

(4) TYPE OF WORK: Owner's number of well (if more than one) MW-5

Abandoned ☒ New well ☐ Method: Dug ☐ Bored ☐ Deepened ☐ Cable ☐ Driven ☐ Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 2" inches. Drilled _____ feet. Depth of completed well 20' ft.

(6) CONSTRUCTION DETAILS:

Casing Installed: _____" Diam. from _____ ft. to _____ ft.
Welded ☐ Liner installed ☐ Threaded ☐ _____" Diam. from _____ ft. to _____ ft.
_____" Diam. from _____ ft. to _____ ft.

Perforations: Yes ☐ No ☐
Type of perforator used _____
SIZE of perforations _____ in. by _____ in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

Screens: Yes ☐ No ☐
Manufacturer's Name _____
Type _____ Model No. _____
Diam. _____ Slot size _____ from _____ ft. to _____ ft.
Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes ☐ No ☐ Size of gravel _____
Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes ☐ No ☐ To what depth? _____ ft.
Material used in seal _____
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(7) PUMP: Manufacturer's Name _____
Type: _____ H.P. _____

(8) WATER LEVELS: Land-surface elevation above mean sea level _____ ft.
Static level _____ ft. below top of well Date _____
Artesian pressure _____ lbs. per square inch Date _____
Artesian water is controlled by _____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom? _____
Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test _____
Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Airtest _____ gal./min. with stem set at _____ ft. for _____ hrs.
Artesian flow _____ g.p.m. Date _____
Temperature of water _____ Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
opened Bottom of well & Back filled with hydrated Bentonite to surface & capped with cement	0	20

RECEIVED
DEC 4 1992

Work started 10-28 19. Completed 10-28 19 92

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME Environmental West Exploration (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address E 6018 Alki Spokane WA.

(Signed) Matt A. Shelton (WELL DRILLER) License No. 1615

Contractor's Registration No. ENVIRWE101PP Date 11-25 19 92

(USE ADDITIONAL SHEETS IF NECESSARY)

NOV-29-99 12:52 From:WDOE CRO 5095752809 T-016 P.09/24 Job-908

start Card # 001371

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. ..... E
Permit No. .....

(1) OWNER: Name City of Kenn Address P.O. Box 6108 Kenn Wa. 99336

(2) LOCATION OF WELL: County Benton SW ¼ NW ¼ Sec. 2 T. 8 N., R. 29 E W.M.

Bearing and distance from section or subdivision corner .....

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) .....
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☒ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 8 inches.
Drilled 465 ft. Depth of completed well 465 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 8 " Diam. from +1 ft. to 150 ft.
Threaded ☐ ..... " Diam. from ..... ft. to ..... ft.
Welded ☐ ..... " Diam. from ..... ft. to ..... ft.

Perforations: Yes ☐ No ☒
Type of perforator used .....
SIZE of perforations ..... in. by ..... in.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.

Screens: Yes ☐ No ☒
Manufacturer's Name .....
Type ..... Model No. .....
Diam. ..... Slot size ..... from ..... ft. to ..... ft.
Diam. ..... Slot size ..... from ..... ft. to ..... ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: .....
Gravel placed from ..... ft. to ..... ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? ..... Depth of strata .....
Method of sealing strata off .....

(7) PUMP: Manufacturer's Name .....
Type: ..... H.P. .....

(8) WATER LEVELS: Land-surface elevation above mean sea level ..... ft.
Static level 44 ft. below top of well Date 2/12/88
Artesian pressure ..... lbs. per square inch Date .....
Artesian water is controlled by ..... (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom? .....
Yield: ..... gal./min. with ..... ft. drawdown after ..... hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test .....
Bailer test ..... gal./min. with ..... ft. drawdown after ..... hrs.
Artesian flow ..... g.p.m. Date .....
Temperature of water ..... Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top Soil	0	1
Clay Tan	1	22
Clay Sandy Tan	22	66
Gravel sand silt & clay cemented	66	102
Clay, silt & sand fine	102	123
Clay Yellow	123	142
Clay blue sticky	142	149
basalt brown broken	146	148
basalt black med hard	148	186
basalt Grey hard	186	220
basalt black Broken	220	248
basalt Grey hard	248	353
basalt black with clay seams (water bearing)	353	375
basalt Black Med hard	375	455
basalt brown + black broken (water bearing)	455	462
BASALT black Med Hard	462	465
Air Test		
well produced Approx.	90	G.P.M.
From 465 Ft.		

RECEIVED
MAR 8 1988
DEPARTMENT OF ECOLOGY

Work started 1/11 19 88 Completed 2/12 19 88

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Osborn Drilling
(Person, firm, or corporation) (Type or print)

Address 524 Rd 44 Pasco Wa

[Signed] Robert J. Osborn
(Well Driller)

License No 0376 Date 3/8 19 88

NOV-29-99 12:55 From:WDOE CRO 5095752809 T-016 P.17/24 Job-908

File Original and First Copy with Department of Ecology
Second Copy - Owner's Copy
Third Copy - Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Start Card No. WQ93731
UNIQUE WELL I.D. # AET 503
Water Right Permit No. _____

OWNER: Name Ica Levy Address 2029 W Kenn Ave Kenn Wa 99337

(2) LOCATION OF WELL: County Benton SW 1/4 NE 1/4 Sec 2 T 8 N.R 29E WM

(2a) STREET ADDRESS OF WELL: (or nearest address) Same

(3) PROPOSED USE: ☒ Domestic ☐ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐ DeWater

(4) TYPE OF WORK: Owner's number of well (if more than one) _____
☒ New well ☐ Deepened ☐ Reconditioned
Method: ☐ Dug ☐ Bored ☐ Cable ☐ Driven ☒ Rotary ☐ Jetted

(5) DIMENSIONS: Diameter of well 6" inches
Drilled 260 feet. Depth of completed well 260 ft.

(6) CONSTRUCTION DETAILS
Casing Installed:
☒ Welded 6" Diam. from +3 ft. to 148' ft.
☒ Liner installed 4½" Diam. from -30 ft. to 260 ft.
☐ Threaded _____" Diam. from _____ ft. to _____ ft.

Perforations: ☒ Yes ☐ No
Type of perforator used Dr. 11
SIZE of perforations ½" in. by _____ in.
40 perforations from 220 ft. to 260 ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

Screens: ☐ Yes ☒ No
Manufacturer's Name _____
Type _____ Model No. _____
Diam. _____ Slot size _____ from _____ ft. to _____ ft.
Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: ☒ Yes ☐ No Size of gravel _____
Gravel placed from _____ ft. to _____ ft.

Surface seal: ☒ Yes ☐ No To what depth? 18
Material used in seal Bentonite
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? _____ Depth of strata _____
Method of sealing strata off Overboard

(7) PUMP: Manufacturer's Name _____
Type: _____ H.P. _____

(8) WATER LEVELS: Land-surface elevation above mean sea level _____ ft.
Static level 90' ft. below top of well Date 12-18-98
Artesian pressure _____ lbs. per square inch Date _____
Artesian water is controlled by _____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? ☐ Yes ☐ No If yes, by whom? _____
Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test _____
Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Airtest 50 gal./min. with stem set at 240 ft. for 2 hrs.
Artesian flow _____ g.p.m. Date _____
Temperature of water 66 Was a chemical analysis made? ☐ Yes ☒ No

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION
Formation: Describe by color, character, size of material and structure, and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
Top Soil	0	5
Cobbles & Sand	5	22
Brown Sand	22	33
Sand & Gravel	33	60
Boulders Gravel &	60	94
Tan Clay	94	110
Blue Rock	110	116
Hard Gray Clay	116	146
Dark Hard Basalt	146	232
Blue Clay	232	235
Red Shale	235	238
Broken Basalt	238	245
Broken Basalt Blue Sh	245	256
Dark Hard Basalt	256	260
Water Bering Zone	238	256

CENTRAL REGIONAL OFFICE DEPT. OF ECOLOGY Received FEB 11 1999

Work Started 12-16, 1998 Completed 12-18, 1998

WELL CONSTRUCTION CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME State wide well Drilling Inc.
(Person, Firm, or Corporation) (Type of Print)
Address 101 Kau Trail Rd.
(Signed) Jody L. Carpenter License No. 1900
Contractor's Registration No. STATEWDO77DQ Date 4/99, 19__

(USE ADDITIONAL SHEETS IF NECESSARY)

Ecology is an Equal Opportunity and Affirmative Action employer. For special accommodation needs, contact the Water Resources Program at (360) 407-6600. The TDD number is (360) 407-6006.

ECY 050-1-20 (7/97)

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

3539 Start Card No. 008758

Water Right Permit No. 4

(1) OWNER: Name LEONEL BARILLAS Address 730 S. OLYMPIA-KENNEWICK

(2) LOCATION OF WELL: County BENTON SE ¼ NE ¼ Sec 2 T. 8 N., R 29 W.M.

(2a) STREET ADDDRESS OF WELL (or nearest address) 730 S. OLYMPIA, KENNEWICK WASH

(3) PROPOSED USE: ☐ Domestic ☑ Irrigation ☐ DeWater SMALL ☐ Industrial ☐ Test Well ☐ Municipal ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) _____

Abandoned ☐ New well ☑ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☑ Jetted ☐

(5) DIMENSIONS: Diameter of well 6" inches.
Drilled 67.1 feet. Depth of completed well 67 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: _____" Diam. from _____ ft. to _____ ft.
Welded ☑ 6" Diam. from -1 ft. to 67 ft.
Liner installed ☐
Threaded ☐ _____" Diam. from _____ ft. to _____ ft.

Perforations: Yes ☐ No ☑
Type of perforator used _____
SIZE of perforations _____ in. by _____ in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

Screens: Yes ☐ No ☑
Manufacturer's Name _____
Type _____ Model No. _____
Diam. _____ Slot size _____ from _____ ft. to _____ ft.
Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes ☐ No ☑ Size of gravel _____
Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes ☑ No ☐ To what depth? 18 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☑
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(7) PUMP: Manufacturer's Name _____
Type: _____ H.P. _____

(8) WATER LEVELS: Land-surface elevation above mean sea level _____ ft.
Static level 50 ft. below top of well Date 9-17-88
Artesian pressure NONE lbs. per square inch Date _____
Artesian water is controlled by NONE (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom? Driller
Yield: .75 gal./min. with _____ ft. drawdown after _____ hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test Air Blown? Approx .25 gpm 9-17-88
Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Airtest _____ gal./min. with stem set at _____ ft. for _____ hrs.
Artesian flow None g.p.m. Date _____
Temperature of water 62° Was a chemical analysis made? Yes ☐ No ☑

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
Top Soil	1	20 ft.
Cemented Gravel and Boulders	20	60 ft.
3 ft. of water, but very little water	60	63 ft.
Hard Pan, Clay & Rock type materials	63	65 ft.
Gravel water Bearing	65	67 ft.
Well completed - 67 ft. 17 ft. good water		

RECEIVED
OCT 10 1990
DEPARTMENT OF ECOLOGY
CENTRAL REGION OFFICE

Work started 9-12 1988 Completed 9-17 1988

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Drilling NO. 1452

NAME CARMAN DEVELOPMENT CO. (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address ROUTE 4 - BOX 1287

(Signed) Marvel L. Thompson (WELL DRILLER) License No. 0650

Contractor's Registration No. CARMADC136DO Date 9-17 1988

(USE ADDITIONAL SHEETS IF NECESSARY)

NOV-29-99 12:56 From:MDOE CRO 5095752809 T-016 P.19/24 Job-908

117

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy 8268

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. _____

Water Right Permit No. _____

(1) OWNER: Name Leonel Barillas Address 730 S Olympia, Kennewick

(2) LOCATION OF WELL: County Benton ¼ SE ¼ Sec 2 T. 8 N., R 29 W.M.

(2a) STREET ADDRESS OF WELL (or nearest address) 730 S. Olympia, Kennewick, Washington

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐ Small Irrigation ☑ Test Well ☐ Other ☐ DeWater ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) _____

Abandoned ☐ New well ☑ Method: Dug ☐ Bored ☐ Deepened ☐ Cable ☐ Driven ☐ Reconditioned ☐ Rotary ☑ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches. Drilled 67-1 feet. Depth of completed well 67 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: _____" Diam. from _____ ft. to _____ ft.
Welded ☑ 6 " Diam. from -1 ft. to 67 ft.
Liner installed ☐
Threaded ☐ _____" Diam. from _____ ft. to _____ ft.

Perforations: Yes ☐ No ☑
Type of perforator used _____
SIZE of perforations _____ in. by _____ in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

Screens: Yes ☐ No ☑
Manufacturer's Name _____
Type _____ Model No. _____
Diam. _____ Slot size _____ from _____ ft. to _____ ft.
Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes ☐ No ☑ Size of gravel _____
Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes ☑ No ☐ To what depth? 18 ft ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☑
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(7) PUMP: Manufacturer's Name [redacted]
Type: _____ H.P. _____

(8) WATER LEVELS: Land-surface elevation above mean sea level _____ ft.
Static level 50 ft. below top of well Date 9-17-88
Artesian pressure _____ lbs. per square inch Date _____
Artesian water is controlled by None (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☑ If yes, by whom? _____
Yield 25 gal./min. with 1 ft. drawdown after 4 hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test _____
Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Airtest _____ gal./min. with stem set at _____ ft. for _____ hrs.
Artesian flow None g.p.m. Date _____
Temperature of water 59° Was a chemical analysis made? Yes ☐ No ☑

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
Top Soil	1	20
Cemented Gravel & Boulders	20	60
2 ft. of water, but very little water	60	62
Hard Pan, Clayish Type material	62	65
Gravel - water	65	67
Well Completed - 67 ft. Very fine well, 1 ft. of good water		

RECEIVED
SEP 22 1988
DEPARTMENT OF ECOLOGY
CENTRAL REGION OFFICE

Work started 9-15 19 88 Completed 9-15 19 88

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME CARMAN DEVELOPMENT CO. (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address Route 4 Box 1287

(Signed) Marvel Thompson (WELL DRILLER) License No. 0650

Contractor's Registration No. CARMADC136OD Date 9-17 19 88

(USE ADDITIONAL SHEETS IF NECESSARY)

Drilling #1452

NOV-29-99 12:56 From:WDOE CRO 5095752809 T-016 P.20/24 Job-908

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

DOE 2802 Main Street — Mike Connell
Owner, Box - Wa 99903

WATER WELL REPORT

STATE OF WASHINGTON

Application No. .....

Permit No. G 4-24164

(1) OWNER: Name Bartleson Water Co Address Chester Financial Co.

(2) LOCATION OF WELL: County Benton — SE ¼ SE ¼ Sec. 2 T. 8 N., R. 29E W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) 1
New well ☐ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☒ Driven ☐
Reconditioned ☒ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 12 inches.
Drilled 150 ft. Depth of completed well 150 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 12 " Diam. from 0 ft. to 775 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☒
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☐ No ☐ To what depth? ft.
Material used in seal
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level ft.
Static level 45 ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☒ No ☐

(10) WELL LOG:
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Soil	0	16
Black Sand + Gravel	16	27
Black broken basalt	27	150

RECEIVED
MAR - 6 1978
DEPARTMENT OF ECOLOGY
CENTRAL REGIONAL OFFICE

This log is to replace an old well

Work started 19 Completed 19

WELL DRILLER'S STATEMENT:
This well was drilled some time ago and this report is true to the best of my knowledge and belief.

NAME Lindsay Water Systems
(Person, firm, or corporation) (Type or print)
Address 4300 No 108 Pasco, Wa

[Signed] J. Smith
(Well Driller)

License No. 552 Date 3-1, 1978

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

NOV-29-99 12:57 From:WDOE CRO 5095752809 T-016 P.21/24 Job-908

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. .....
Permit No. .....

(1) OWNER: Name Delfred Gang Address 3124 W. 7th Ave. Kennewick, WA 99336

(2) LOCATION OF WELL: County BENTON NW ¼ NE ¼ Sec 3 T 8 N. R 29 W.M.

Bearing and distance from section or subdivision corner Short Plat 808 Lot 1 B

(3) PROPOSED USE: Domestic [X] Industrial [ ] Municipal [ ]
Irrigation [ ] Test Well [ ] Other [ ]

(4) TYPE OF WORK: Owner's number of well (if more than one) .....
New well [X] Method: Dug [ ] Bored [ ]
Deepened [ ] Cable [ ] Driven [ ]
Reconditioned [ ] Rotary [X] Jetted [ ]

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 100 ft. Depth of completed well 98 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from +1 ft. to 97 ft.
Threaded [ ] " Diam. from ft. to ft.
Welded [XX] " Diam. from ft. to ft.

Perforations: Yes [ ] No [X]
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes [ ] No [XX]
Manufacturer's Name
Type Model No
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes [ ] No [X] Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes [X] No [ ] To what depth? 19 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes [ ] No [X]
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level ft.
Static level 35 ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes [ ] No [X] If yes, by whom?
Yield: 35 gal./min. with ft. drawdown after hrs.
" ESTIMATED AIRLIFT " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes [ ] No [ ]

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Sand	0	5
Cobble	5	20
Sand & Gravel	20	98
NO PVC LINER INSTALLED		
6" DRIVE SHOE INSTALLED		

RECEIVED
JUL 19 1985
DEPARTMENT OF ECOLOGY
CENTRAL REGION OFFICE

Work started 7/02 1985 Completed 7/02 1985

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME PONDEROSA DRILLING & DEVELOPMENT INC (Person, firm, or corporation) (Type or print)
Address E. 6010 Broadway Spokane, WA 99212

[Signed] James M Doyle
James M. Doyle (Well Driller)

License No. 1287 Date 7/02 1985

NOV-29-99 12:57 From:WDOE CRO 5095752809 T-016 P.22/24 Job-908

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. .....
Permit No. G-4-28698-P

(1) **OWNER:** Name HIGHLAND VILLAGE CONDOMINIUM Address 4203 W. Kennewick Ave. Kennewick WA 99336

LOCATION OF WELL: County BENTON — ¼ NW ¼ Sec 3 T 8 N., R 29E W.M.

Bearing and distance from section or subdivision corner

(3) **PROPOSED USE:** Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

(4) **TYPE OF WORK:** Owner's number of well (if more than one) .....
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) **DIMENSIONS:** Diameter of well 8 inches.
Drilled 180 ft. Depth of completed well 176 ft.

(6) **CONSTRUCTION DETAILS:**

Casing installed: 8 " Diam. from +1 ft. to 176 ft.
Threaded ☐ ..... " Diam. from ..... ft. to ..... ft.
Welded ☒ ..... " Diam. from ..... ft. to ..... ft.

Perforations: Yes ☐ No ☒
Type of perforator used .....
SIZE of perforations ..... in. by ..... in.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.

Screens: Yes ☐ No ☒
Manufacturer's Name .....
Type ..... Model No .....
Diam. ..... Slot size ..... from ..... ft. to ..... ft.
Diam. ..... Slot size ..... from ..... ft. to ..... ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: .....
Gravel placed from ..... ft. to ..... ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal bentonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? ..... Depth of strata .....
Method of sealing strata off .....

(7) **PUMP:** Manufacturer's Name .....
Type: ..... H.P. .....

(8) **WATER LEVELS:** Land-surface elevation above mean sea level ..... ft.
Static level 125 ft. below top of well Date 1/22/86
Artesian pressure ..... lbs. per square inch Date .....
Artesian water is controlled by ..... (Cap, valve, etc.)

(9) **WELL TESTS:** Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom? .....
Yield: 70 gal./min. with ..... ft. drawdown after ..... hrs.
" ESTIMATED AIRLIFT " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test .....
Bailer test ..... gal./min. with ..... ft. drawdown after ..... hrs.
Artesian flow ..... g.p.m. Date .....
Temperature of water ..... Was a chemical analysis made? Yes ☐ No ☐

(10) **WELL LOG:**

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
SAND, GRAVEL, COBBLE & BOULDERS	0	30
SAND, GRAVEL w/brown clay	30	125
SAND, GRAVEL w/boulders	125	130
SAND, GRAVEL w/WATER	130	138
SAND w/WATER	138	141
SAND w/coarse gravel	141	170
SAND, GRAVEL, medium Coarse gravel w/green clay traces at 179-180	170	180
NO PVC Liner Installed		
8" Drive shoe installed		

RECEIVED
JAN 31 1986
DEPARTMENT OF ECOLOGY
CENTRAL REGION OFFICE

Work started 1/17 19 86 Completed 1/22 19 86

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME PONDEROSA DRILLING & DEVELOPMENT INC.
(Person, firm, or corporation) (Type or print)

Address E. 6010 Broadway, Spokane, WA 99212

[Signed] W. Joseph Close Jr
W. Joseph Close Jr (Well Driller)

License No. 1040 Date 1/22 19 86

NOV-29-99 12:58 From:WDOE CRO 5095752809 T-016 P.23/24 Job-908

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

DOE F

Application No. .....

Permit No. .....

(1) OWNER: Name HIGHLAND VILLAGE CONDOMINIUM Address 4203 W. Kennewick Ave. Kennewick WA 9933

(2) LOCATION OF WELL: County Benton ¼ NW ¼ Sec. 3 T. 8 N., R 29E W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) ....
New well ☐ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☒ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 8 inches.
Drilled 225 45 ft. Depth of completed well 225 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 8 " Diam. from 176 ft. to 199 ft.
Threaded ☐ ..... " Diam. from ..... ft. to ..... ft.
Welded ☒ ..... " Diam. from ..... ft. to ..... ft.

Perforations: Yes ☐ No ☒
Type of perforator used .....
SIZE of perforations ..... in. by ..... in.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.

Screens: Yes ☐ No ☒
Manufacturer's Name .....
Type ..... Model No. .....
Diam. ..... Slot size ..... from ..... ft. to ..... ft.
Diam. ..... Slot size ..... from ..... ft. to ..... ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: .....
Gravel placed from ..... ft. to ..... ft.

Surface seal: Yes ☐ No ☒ To what depth? ..... ft.
Material used in seal .....
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? ..... Depth of strata .....
Method of sealing strata off .....

(7) PUMP: Manufacturer's Name .....
Type: ..... H.P. .....

(8) WATER LEVELS: Land-surface elevation above mean sea level .... ft.
Static level 120 ft. below top of well Date .....
Artesian pressure ..... lbs. per square inch Date .....
Artesian water is controlled by ..... (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom? .....
Yield: 75 gal./min. with ..... ft. drawdown after ..... hrs.
" ESTIMATED AIRLIFT " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test .....
Bailer test ..... gal./min. with ..... ft. drawdown after ..... hrs.
Artesian flow ..... g.p.m. Date .....
Temperature of water ..... Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Sand, gravel w/water	180	184
Clay, blue, brown, gritty	184	193
Basalt, gray, broken w/ clay seams	193	198
Basalt, gray, hard	198	208
Basalt, gray, pourous, fractured w/water	208	225
NO PVC LINER INSTALLED		
NO DRIVE SHOE INSTALLED		

RECEIVED
JUN - 5 1986
DEPARTMENT OF ECOLOGY
CENTRAL REGION OFFICE

Work started 5/19 19 86 Completed 5/21 19 86

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME PONDEROSA DRILLING & DEVELOPMENT INC.
(Person, firm, or corporation) (Type or print)

Address E. 6010 Broadway Spokane, WA 99212

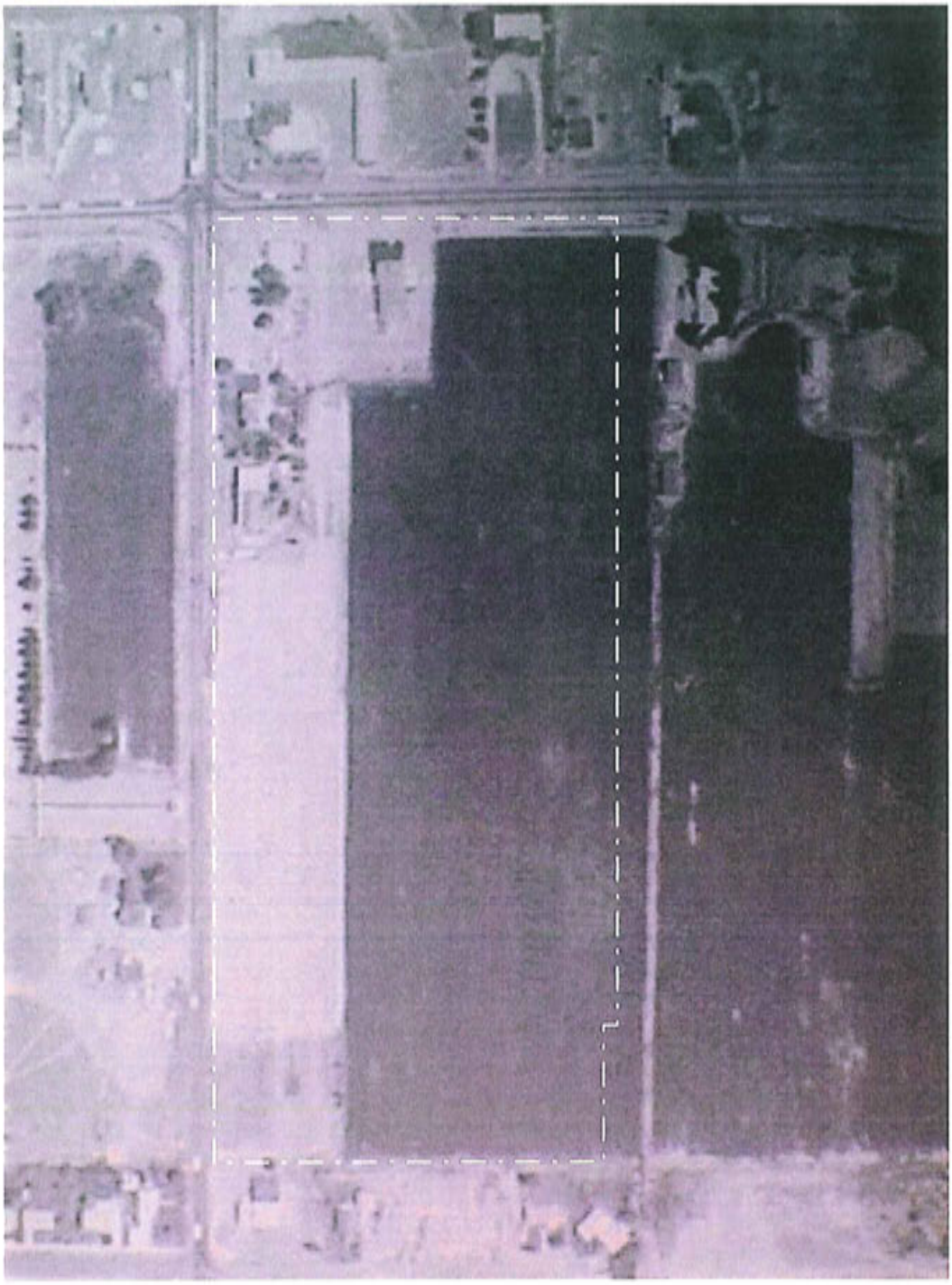
[Signed] Lynnwood E. Hendrick (Well Driller)
Lynnwood E. Hendrick

License No. 1351 Date 5/21 19 86

NOV-29-99 12:58 From:WDOE CRO 5095752809 T-016 P.24/24 Job-908

APPENDIX D

AERIAL PHOTOGRAPHS



1962

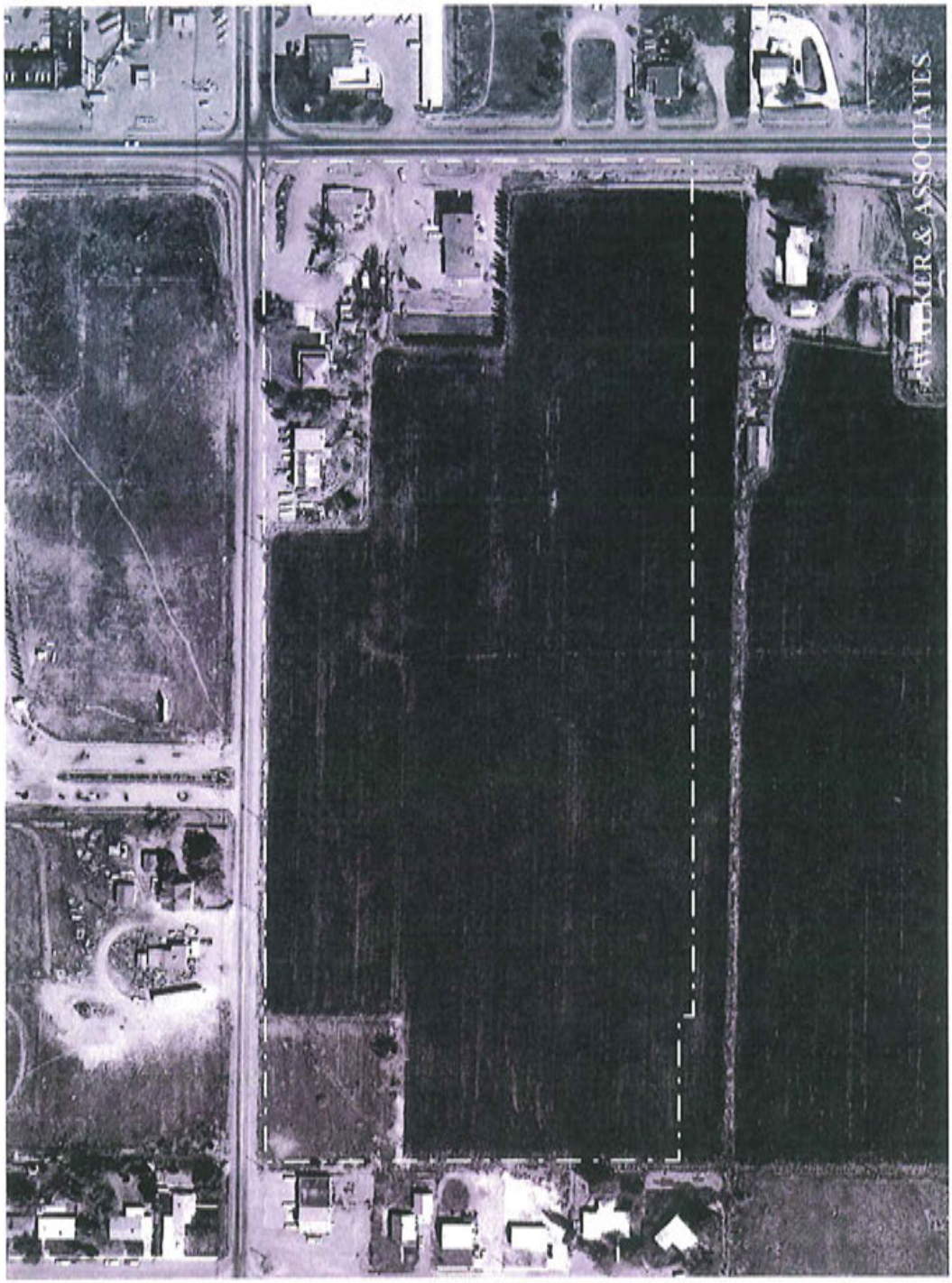
Source: Benton County - Public Works Department - Engineering Division
Prosser, Washington

VATC ASSOCIATES INC.
Solutions For Environmental Concerns

PROJECT NO.:18452.0201	
DRAWN BY: NRG	FILE: Kennewick Aerial Photo 1962.VSD
CHECKED BY: NRG	DATE : 12/10/99

AERIAL PHOTOGRAPH

PHASE I ENVIRONMENTAL SITE ASSESSMENT
KENNEWICK PLAZA
WEST KENNEWICK AVENUE AND SOUTH ELY STREET
KENNEWICK, WASHINGTON



1972

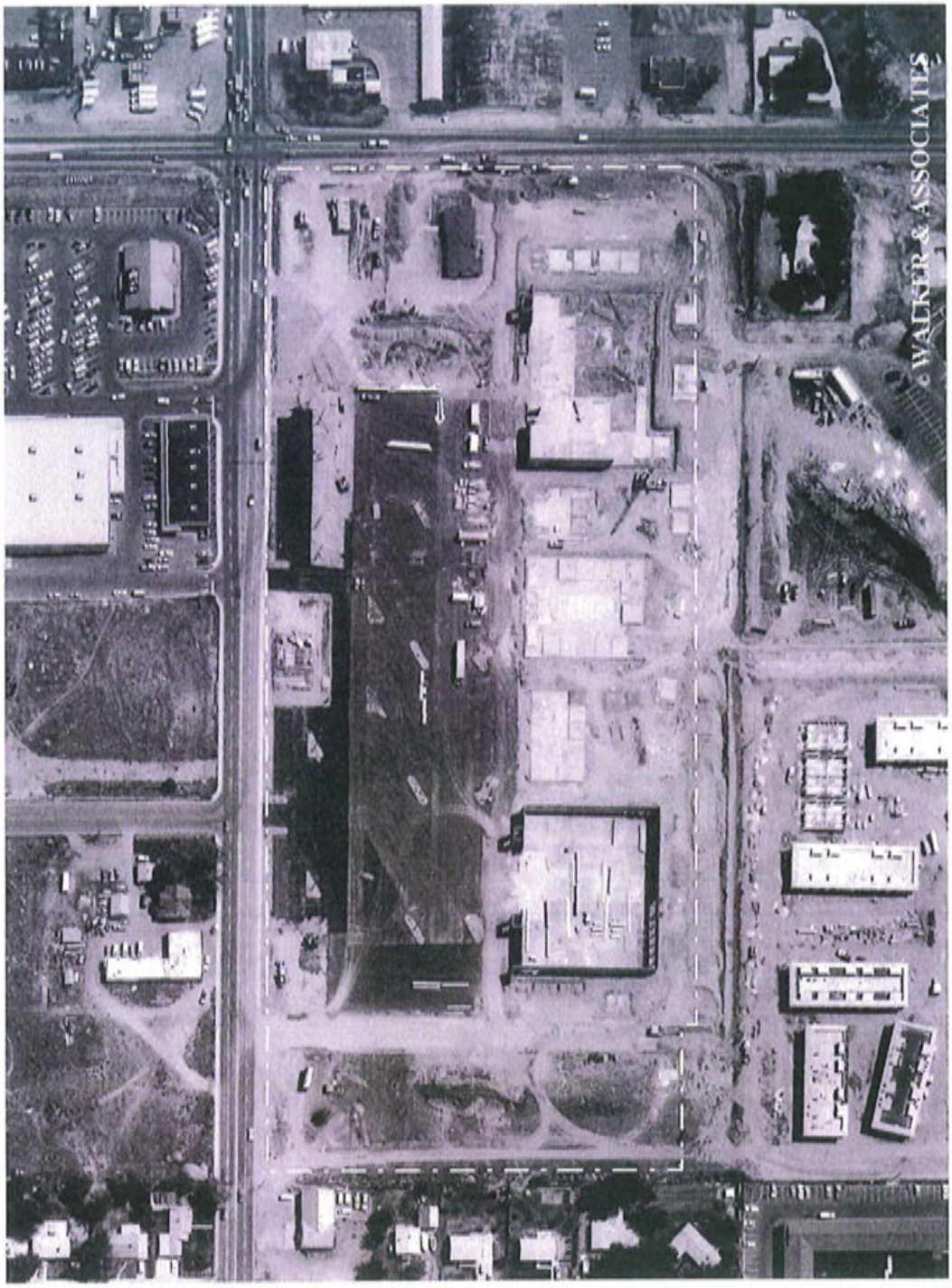
Source: Walker and Associates - Seattle, Washington

ATC ASSOCIATES INC.
Solutions For Environmental Concerns

PROJECT NO.:18452.0201	
DRAWN BY: NRG	FILE: Kennewick Aerial Photo 1972.VSD
CHECKED BY: NRG	DATE : 12/10/99

AERIAL PHOTOGRAPH

PHASE I ENVIRONMENTAL SITE ASSESSMENT
KENNEWICK PLAZA
WEST KENNEWICK AVENUE AND SOUTH ELY STREET
KENNEWICK, WASHINGTON



1979

Source: Walker and Associates - Seattle, Washington

VATC ASSOCIATES INC.
Solutions For Environmental Concerns

PROJECT NO.:18452.0201	
DRAWN BY: NRG	FILE: Kennewick Aerial Photo 1979.VSD
CHECKED BY: NRG	DATE : 12/10/99

AERIAL PHOTOGRAPH

PHASE I ENVIRONMENTAL SITE ASSESSMENT
KENNEWICK PLAZA
WEST KENNEWICK AVENUE AND SOUTH ELY STREET
KENNEWICK, WASHINGTON

1991

Source: United States Department of Agriculture, Natural Resources Conservation Service - Prosser, Washington

ATC ASSOCIATES INC.
Solutions For Environmental Concerns

PROJECT NO.:18452.0201	
DRAWN BY: NRG	FILE: Kennewick Aerial Photo 1991.VSD
CHECKED BY: NRG	DATE : 12/10/99

AERIAL PHOTOGRAPH

PHASE I ENVIRONMENTAL SITE ASSESSMENT
KENNEWICK PLAZA
WEST KENNEWICK AVENUE AND SOUTH ELY STREET
KENNEWICK, WASHINGTON

1998

Source: Benton County - Public Work Department - Engineering Division - Seattle, Washington

ATC ASSOCIATES INC.
Solutions For Environmental Concerns

PROJECT NO.:18452.0201	
DRAWN BY: NRG	FILE: Kennewick Aerial Photo 1998.VSD
CHECKED BY: NRG	DATE : 12/10/99

AERIAL PHOTOGRAPH

PHASE I ENVIRONMENTAL SITE ASSESSMENT
KENNEWICK PLAZA
WEST KENNEWICK AVENUE AND SOUTH ELY STREET
KENNEWICK, WASHINGTON

APPENDIX E

BUILDING DEPARTMENT RECORDS

BUILDING DEPARTMENT
CITY OF KENNEWICK, WASHINGTON

8708

P. O. Box 6108
210 West 6th Avenue
Phone: (509) 586-4181, Ext. 23

1. Recorded Owner: Lonnie Lund
2. Location of Property: 2905 W Kennewick Ave
3. Owners Address (If Different Than 2)

4. LEGAL DESCRIPTION
Lot | Block | Tract | Plat: See Letter

5. Use Zone | 6. Fire Zone | 7. Occupancy

8. Required Inspections
Foundations
Frame
Lath and Drywall
Plumbing
Mechanical
Street or Walk
Final

BUILDING PERMIT

11. Date Issued: 3-1-79
12. Expiration Date: 3-1-80
5145
PAID
MAR - 2 1979

13. TYPE OF PERMIT
Building ☐ | Street ☐
Plumbing ☐ | Sign ☐
Sidewalk ☐ | Mechanical ☐

THIS PERMIT MUST BE POSTED IN OR KEPT ON
FOR OBSERVATION FROM THE STREET BY

9. Estimated Value: 3,000,000.00
10. FEES —
Building: 3772.00
Plumbing
Street Walk
Mechanical
Plan Check: 2451.00
Total: 6223.00

14. CLASS OF WORK
New ☐ | Alteration ☐
Addition ☐ | Repair ☐
Move ☐ | Demolish ☐

15. Building Size: x
16. Lot Size: x

17. TYPE OF CONSTRUCTION
Fire-Resistive ☐
Semi-Fireproof ☐
Heavy Timber ☐
Ordinary Masonry ☐
Frame ☐
Unprotected Metal ☐
18. Plans Submitted ☐
Plot Plan Submitted ☐
Site Plan Approved ☐

20. PLUMBING
Bath Tubs ___ | Grease Traps ___
Showers ___ | Floor Drains ___
Lavatories ___ | Urinals ___
Kitchen Sinks ___ | Drink Fountain ___
Laundry Trays ___ | Dental Lav. ___
Auto Washer ___ | Swim Pool ___
Water Closets ___ | Miscellaneous ___
Water Heaters ___ | Total Units ___

21. SET BACKS: Front | Rear | Left | Right
22. Height
23. No. Stories
24. No. Families

25. MECHANICAL: Heating | Air Conditioning | Miscellaneous

26. Description of Work
Construct Shopping Complex

27. Bldg. Cont. Lyday Const
28. Plbg. Cont.
29. Street & Walk Cont.
30. Mechanical Cont.
31. Bldg. Cont. State License No. | If no number please explain on attached sheet.

32. Engineering, Date
Field Book No.
Page No.
Date
Job work Constructed ☐
Permit of Attorney ☐

I certify no work will be done except as described above or on accompanying plans. All work will be performed in compliance with all codes and ordinances of the City of Kennewick, and is summarized on back of permit.
Applicant's Signature
Building Inspector

All work must be inspected prior to concealment.
This department must have 24 hours notice for all inspections.

8725

BUILDING DEPARTMENT

CITY OF KENNEWICK, WASHINGTON

P. O. Box 6108
210 West 6th Avenue
Phone: (509) 586-4181, Ext. 23

PAID

APR 11 1980

CITY OF KENNEWICK

1. Recorded Owner: Dennys
2. Location of Property: 2301 W. Kennewick Ave
3. Owners Address (If Different Than 2)

4. LEGAL DESCRIPTION — Lot | Block | Tract | Plat: See File

5. Use Zone
6. Fire Zone
7. Occupancy

8. Required Inspections
- Foundations
- Frame
- Lath and Drywall
- Plumbing
- Mechanical
- Street or Walk
- Final

9. Estimated Value: 400,000.00

10. FEES —
- Building: 832.00
- Plumbing
- Street Walk
- Mechanical
- Plan Check: 540.00
- Total: 1372.00

BUILDING PERMIT

11. Date Issued: 4-11-80

12. Expiration Date: 8-30-80

6322

13. TYPE OF PERMIT

Building	☐	Street	☐
Plumbing	☐	Street Cut	☐
Sidewalk	☐	Mechanical	☐

THIS PERMIT MUST BE POSTED IN PLAIN VIEW FOR OBSERVATION FROM THE STREET.

14. CLASS OF WORK:

New	☐	Alteration	☐
Addition	☐	Repair	☐
Move	☐	Demolish	☐

15. Building Size ______ x ______

16. Lot Size ______ x ______

17. TYPE OF CONSTRUCTION
- Fire Resistive ☐
- Semi-Fireproof ☐
- Heavy Timber ☐
- Ordinary Masonry ☐
- Frame ☐
- Unprotected Metal ☐

18. Plans Submitted ☐
- Plot Plan Submitted ☐
- Site Plan Approval ☐

20. PLUMBING

Bath Tubs		Grease Traps	
Showers		Floor Drains	
Lavatories		Urinals	
Kitchen Sinks		Drink Fountain	
Laundry Trays		Dental Lav.	
Auto Washer		Swim Pool	
Water Closets		Miscellaneous	
Water Heaters		Total Units	

21. SET BACKS — Front | Rear | Left | Right

22. Height

23. No. Stories

24. No. Families

25. MECHANICAL — Heating | Air Conditioning | Miscellaneous

26. Description of Work

Construct Restaurant bldg.

27. Bldg. Cont. C. E. Rollen Development Co

28. Plbg. Cont.

29. Street & Walk Cont.

30. Mechanical Cont.

31. Bldg. Cont. State License No.

If no number please explain on attached sheet.

32. Engineering Data
- Field Book No.
- Page No.
- Date
- Sidewalk Constructed ☐
- Power of Attorney ☐

I certify no work will be done except as described above or on accompanying plans. All work will be performed in compliance with all codes and ordinances of the City of Kennewick, and as summarized on back of permit.

Applicant's Signature [signature]

Building Inspector [signature]

All work must be inspected prior to concealment.

This department must have 24 hours notice for all inspections.

2277

Certificate of Occupancy

City of Kennewick
Department of Planning and Community Development

This Certificate issued pursuant to the requirements of Section 307 of the Uniform Building Code certifying that at the time of issuance this structure was in compliance with the various ordinances of the city regulating building construction or use.

Name of Business SAFEWAY

Group B-2 Type Construction V-1 Hour Use Zone CC

Owner of Building Safeway Address 2825 W. Kennewick Avenue

Building Address 2825 W. Kennewick Avenue

Richard T. Wright
Building Official

Date: May 18, 1990

Fire Marshal

POST IN A CONSPICUOUS PLACE

11231

BUILDING DEPARTMENT
CITY OF KENNEWICK, WASHINGTON

P. O. Box 6108
210 West 6th Avenue
Phone: (509) 586-4181, Ext. 282

1. Recorded Owner: Block Buster Video
2. Location of Property: 2911 W. Kennewick AVE
3. Assessors Number:
4. Legal Description: Lot | Block | Tract | Plat
5. Use Zone:
6. Occupancy: Comm.

BUILDING PERMIT

10. Date Issued: 9/25/91
11. Expiration Date: 4/20/92

18284

12. TYPE OF PERMIT
- Building ☑
- Plumbing ☐
- Sidewalk ☐
- Street ☐
- Street Cut ☐
- Mechanical ☐

THIS PERMIT MUST BE POSTED IN PLAIN VIEW FOR OBSERVATION FROM THE STREET.

7. Required Inspections
- Foundations
- Frame
- Insulation
- Lath and Drywall
- Plumbing
- Mechanical
- Street or Walk
- Final

8. Estimated Value $ 214,800.00
9. FEES
- Building: 1,042.00
- State Surcharge:
- State Fee: $4.50
- Investigation Fee:
- Plan Check: 655
- Total: $1701.50

13. CLASS OF WORK:
- New ☑
- Addition ☐
- Move ☐
- Alteration ☐
- Repair ☐
- Demolish ☐

14. Building Size: ______ x ______

15. Lot Size: ______ x ______

16. TYPE OF CONSTRUCTION
- I - FR ☐
- II - FR ☐
- II - 1 hr. ☐
- II - N ☐
- III - 1 hr. ☐
- III - N ☐
- IV - H.T. ☐
- V - 1 hr. ☐
- V - N ☑
- Sprinkler System ☐

17. Plans Submitted ☑
- Plot Plan Submitted
- Site Plan Approval

18. PLUMBING
- Bath Tubs ___
- Showers ___
- Lavatories ___
- Kitchen Sinks ___
- Laundry Trays ___
- Auto Washer ___
- Water Closets ___
- Water Heaters ___
- Grease Traps ___
- Floor Drains ___
- Urinals ___
- Drink Fountain ___
- Dental Lav. ___
- Swim Pool ___
- Miscellaneous ___
- Total Units ___

19. SET BACKS: Front | Rear | Left | Right
20. Height
21. No. Stories
22. No. Families

23. MECHANICAL: Heating | Air Conditioning | Miscellaneous

24. Description of Work: Construct a 5841 sq Ft Retail Sales Structure

PAID
SEP 25 1991
CITY OF KENNEWICK

25. Bldg Cont. McKinley Contracting Inc.
26. Plbg. Cont. ?
27. Street & Walk Cont.
28. Mechanical Cont. KTU Mech.
29. Bldg Cont. State License No
If no number please explain on attached sheet

30. Engineering Data
- Field Book No ______
- Page No ______
- Date
- Sidewalk Constructed ☐
- Power of Attorney ☐

I certify no work will be done except as described above or on accompanying plans. All work will be performed in compliance with all codes and ordinances of the City of Kennewick, and as summarized on back of permit.

Applicant's Signature: Steve [signature]
Building Inspector: [signature]

SEE REVERSE SIDE
All work must be inspected prior to concealment.

This department must have 24 hours notice for all inspections.

1123

Certificate of Occupancy

City of Kennewick
Department of Planning and Community Development

This Certificate issued pursuant to the requirements of Section 307 of the Uniform Building Code certifying that at the time of issuance this structure was in compliance with the various ordinances of the city regulating building construction or use.

Name of Business: Blockbuster Video

Group: B-2 Type Construction: V-N Use Zone: "CC"

Owner of Building: Blockbuster Video Address: 2911 W. Kennewick Ave.

Building Address: 2911 W.Kennewick Ave.

Bill A. Bergquist
Building Official

Date: 12/27/91

Tom Williams
Fire Marshal

POST IN A CONSPICUOUS PLACE

2271

City of Kennewick Building Inspection Dept.	**BUILDING PERMIT**	Issued	Expires	Permit No.
		03/14/96	03/14/97	26713

2825 W KENNEWICK AVE
Property Location

SAFEWAY
Owner

KENNEWICK PLAZA, LOT 4: LESS .03 ACRES
1-0389-111-0000-004
Legal Description

Owner's Address

M			
Occupancy	*Const. Type*	*Septic Permit Needed*	*Plan Review Number*

Lic. # Exp.
Building Contractor

Commercial Building (alt)
Structure Type

Lic. # Exp.
Plumbing Contracto

Reviewed by

Lic. # Exp.
Mechanical Contrac or

INTERIOR REMODEL OF EXISTING STORE

Description of Work

MAR 14 1996
CITY OF KENNEWICK

Date	*Inspection*

Estimated Value $550,000

Permit Fee	2,204.50
Review Fee	1,432.00
State Fee	0.00
Misc. Fee	4.50
Total Fees	**$ 3,641.00**

BEFORE YOU DIG	I certify that no work will be done except as described above or on accompanying plans, and that all work will be performed in compliance with all applicable codes and ordinances of the City of Kennewick and the State of Washington.	CALL FOR INSPECTION
CALL FOR UTILITY LOCATES (800) 424-5555	*Applicant's Signature* *Building Dept.*	All work must be inspected prior to concealment 24 hour notice required CITY OF KENNEWICK BUILDING DEPT. (509) 585-4282

Black - Bldg. Dept. copy

APPENDIX F

COUNTY ASSESSOR INFORMATION

BENTON COUNTY

Real Property Summary

Parcel: 103891110000001 **Situs Address:** UNDETERMINED **Size:** 30056 Square Feet

Located On: , WA

TCA: K1

Legal: KENNEWICK PLAZA, LOT 1:
SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD 12/13/79.

Parties:

Role	Name & Address
Owner	STEPHENS,ET AL, THOMAS 14335 NE 24TH STE 202 BELLEVUE, WA 980070000
Payer Of Ta	STEPHENS TRUSTEES ET AL CO, T 14335 NE 24TH STE 202 BELLEVUE, WA 980070000
Taxpayer	LYNN TRUST, ELIZABETH A 14335 NE 24TH STE 202 BELLEVUE, WA 980070000

Property Values

	Assessed				Market		
Tax Year	Land	Improvements	New Construction	Total	Land	Improvements	Total
1999	$150,280.00	$0.00	0	$150,280.00	$150,280.00	$0.00	$150,280.00
1998	$150,280.00	$0.00	0	$150,280.00	$150,280.00	$0.00	$150,280.00
1997	$150,280.00	$0.00	0	$150,280.00	$150,280.00	$0.00	$150,280.00
1996	$150,280.00	$0.00	0	$150,280.00	$150,280.00	$0.00	$150,280.00

BENTON COUNTY

Real Property Summary

Parcel: 103891110000002 **Situs Address:** 2911 W KENNEWICK AVE **Size:** 30056 Square Feet

Located On: , WA

TCA: K1

Legal: KENNEWICK PLAZA, LOT 2:
SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD 12/13/79.

Parties:

Role	Name & Address
Owner	STEPHENS,ET AL, THOMAS 14335 NE 24TH STE 202 BELLEVUE, WA 980070000
Payer Of Ta	STEPHENS TRUSTEES ET AL CO, T 14335 NE 24TH STE 202 BELLEVUE, WA 980070000
Taxpayer	LYNN TRUST, ELIZABETH A 14335 NE 24TH STE 202 BELLEVUE, WA 980070000

Property Values

	Assessed				Market		
Tax Year	Land	Improvements	New Construction	Total	Land	Improvements	Total
1999	$150,280.00	$236,340.00	0	$386,620.00	$150,280.00	$236,340.00	$386,620.00
1998	$150,280.00	$236,340.00	0	$386,620.00	$150,280.00	$236,340.00	$386,620.00
1997	$150,280.00	$236,340.00	0	$386,620.00	$150,280.00	$236,340.00	$386,620.00
1996	$150,280.00	$236,340.00	0	$386,620.00	$150,280.00	$236,340.00	$386,620.00

```
MODE:F ACTION:
+=========================================================================+
|JANICE              BENTON CO. PROPERTY ASSESSMENT SYSTEM          11/17/99|
|<ARM110KS>                        STRUCTURES                        13:50 |
|  =======================================================================|
|      Parcel # 1-0389-111-0000-002     Reval Code    YR   3               |
|      OWNERS LAST:STEPHENS,ET AL                  First THOMAS           |
|      Parcel Address 2911     W   KENNEWICK       AVE                    |
|                                                                         |
|  01  PAGE  01                                                           |
|  02  Yr. Built  1992   Struct. Grade A    Condition A    Construct Type F |
|  03  Style      RETAIL Market Adj. 1.00   Year Eff     0      % Good   94 |
|    Struct Finish 1.00 Res Addtl MA 1.00 MH Addtl MA 1.00 RemodYR    0 %  .00|
|  04  1st floor    6000      1/2 floor       0       2nd floor      0      |
|      Bsmt         0    Fin         0    Loft         0      Att 0  Det 0  Car 0|
|   MOBILE HOME INFO                                                      |
|  05  Serial#                                  Prev#                     |
|  06  Yr.    0   Mobile Make                         Model               |
|  07  Width   0   Length   0                                             |
|                                                                         |
|  08  COST FACTOR CODE ENTRY     09 COMMENTS     10  COST FACTOR CODE INQUIRY|
|                                                                         |
+=========================================================================+
```

BENTON COUNTY

Real Property Summary

Parcel: 103891110000003 **Situs Address:** 2801 W KENNEWICK AVE **Size:** 30498 Square Feet

Located On: , WA

TCA: K1

Legal: KENNEWICK PLAZA, LOT 3: RIGHT OF WAY CONTINUANCE 10/4/80. SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD 12/13/79. (DENNEYS RESTAURANT).

Parties:

Role	Name & Address
Owner	STEPHENS,ET AL, THOMAS 14335 NE 24TH STE 202 BELLEVUE, WA 980070000
Payer Of Ta	STEPHENS TRUSTEES ET AL CO, T 14335 NE 24TH STE 202 BELLEVUE, WA 980070000
Taxpayer	LYNN TRUST, ELIZABETH A 14335 NE 24TH STE 202 BELLEVUE, WA 980070000

Property Values

	Assessed				Market		
Tax Year	Land	Improvements	New Construction	Total	Land	Improvements	Total
1999	$152,490.00	$409,830.00	0	$562,320.00	$152,490.00	$409,830.00	$562,320.00
1998	$152,490.00	$409,830.00	0	$562,320.00	$152,490.00	$409,830.00	$562,320.00
1997	$152,490.00	$409,830.00	0	$562,320.00	$152,490.00	$409,830.00	$562,320.00
1996	$152,490.00	$409,830.00	0	$562,320.00	$152,490.00	$409,830.00	$562,320.00

```
MODE:F ACTION:
+=============================================================================+
|JANICE              BENTON CO. PROPERTY ASSESSMENT SYSTEM          11/17/99|
|<ARM110KS>                       STRUCTURES                          13:50 |
|  :==========================================================================|
|      Parcel # 1-0389-111-0000-003     Reval Code    YR   3                  |
|      OWNERS LAST:STEPHENS,ET AL                   First THOMAS             |
|      Parcel Address 2801     W   KENNEWICK        AVE                      |
|                                                                             |
|  01  PAGE  01                                                               |
|  02  Yr. Built     0   Struct. Grade A    Condition      Construct Type      |
|  03  Style             Market Adj. 1.00   Year Eff     0      % Good  100   |
|    Struct Finish 1.00 Res Addtl MA 1.00 MH Addtl MA 1.00 RemodYR    0 %  .00 |
|  04  1st floor    5946      1/2 floor       0       2nd floor      0        |
|      Bsmt        0    Fin        0    Loft        0      Att 0  Det 0  Car 0 |
|   MOBILE HOME INFO                                                          |
|  05  Serial#                                 Prev#                          |
|  06  Yr.    0   Mobile Make                       Model                     |
|  07  Width   0   Length   0                                                 |
|                                                                             |
|  08  COST FACTOR CODE ENTRY     09 COMMENTS     10  COST FACTOR CODE INQUIRY|
|                                                                             |
+=============================================================================+
```

BENTON COUNTY

Real Property Summary

Parcel: 103891110000004 **Situs Address:** 2825 W KENNEWICK AVE **Size:** 11.37 Acre(s)

Located On: , WA

TCA: K1

Legal: KENNEWICK PLAZA, LOT 4: LESS .03 ACRES TO SR 14 7/28/83.
SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD 12/13/79, 3/25/80.
RIGHT OF WAY CONTINUANCE 10/4/80.

Parties:

Role	Name & Address
Owner	STEPHENS,ET AL, THOMAS 14335 NE 24TH STE 202 BELLEVUE, WA 980070000
Payer Of Ta	STEPHENS TRUSTEES ET AL CO, T 14335 NE 24TH STE 202 BELLEVUE, WA 980070000
Taxpayer	LYNN TRUST, ELIZABETH A 14335 NE 24TH STE 202 BELLEVUE, WA 980070000

Property Values

	Assessed				Market		
Tax Year	Land	Improvements	New Construction	Total	Land	Improvements	Total
1999	$1,718,600.00	$3,772,600.00	0	$5,491,200.00	$1,718,600.00	$3,772,600.00	$5,491,200.00
1998	$1,718,600.00	$3,772,600.00	0	$5,491,200.00	$1,718,600.00	$3,772,600.00	$5,491,200.00
1997	$1,718,600.00	$3,772,600.00	0	$5,491,200.00	$1,718,600.00	$3,772,600.00	$5,491,200.00
1996	$1,718,600.00	$3,772,600.00	0	$5,491,200.00	$1,718,600.00	$3,772,600.00	$5,491,200.00

```
MODE:F ACTION:
+==============================================================================+
|JANICE               BENTON CO. PROPERTY ASSESSMENT SYSTEM              11/17/99|
|<ARM110KS>                            STRUCTURES                          13:49 |
 ==============================================================================|
|      Parcel # 1-0389-111-0000-004     Reval Code    YR   3                    |
|      OWNERS LAST:STEPHENS,ET AL                     First THOMAS              |
|      Parcel Address 2825     W   KENNEWICK         AVE                        |
|                                                                              |
|  01  PAGE  01                                                                |
|  02  Yr. Built  1979   Struct. Grade A   Condition G   Construct Type        |
|  03  Style       C     Market Adj. 1.00   Year Eff      0       % Good   88  |
|    Struct Finish 1.00 Res Addtl MA 1.00 MH Addtl MA 1.00 RemodYR    0 %  .00 |
|  04  1st floor  134934      1/2 floor        0       2nd floor       0       |
|      Bsmt          0    Fin        0    Loft         0      Att 0  Det 0  Car 0 |
|  MOBILE HOME INFO                                                            |
|  05  Serial#                                  Prev#                          |
|  06  Yr.     0   Mobile Make                          Model                  |
|  07  Width    0   Length   0                                                 |
|                                                                              |
|  08  COST FACTOR CODE ENTRY     09 COMMENTS     10  COST FACTOR CODE INQUIRY |
|                                                                              |
+==============================================================================+
```

BENTON COUNTY

Real Property Summary

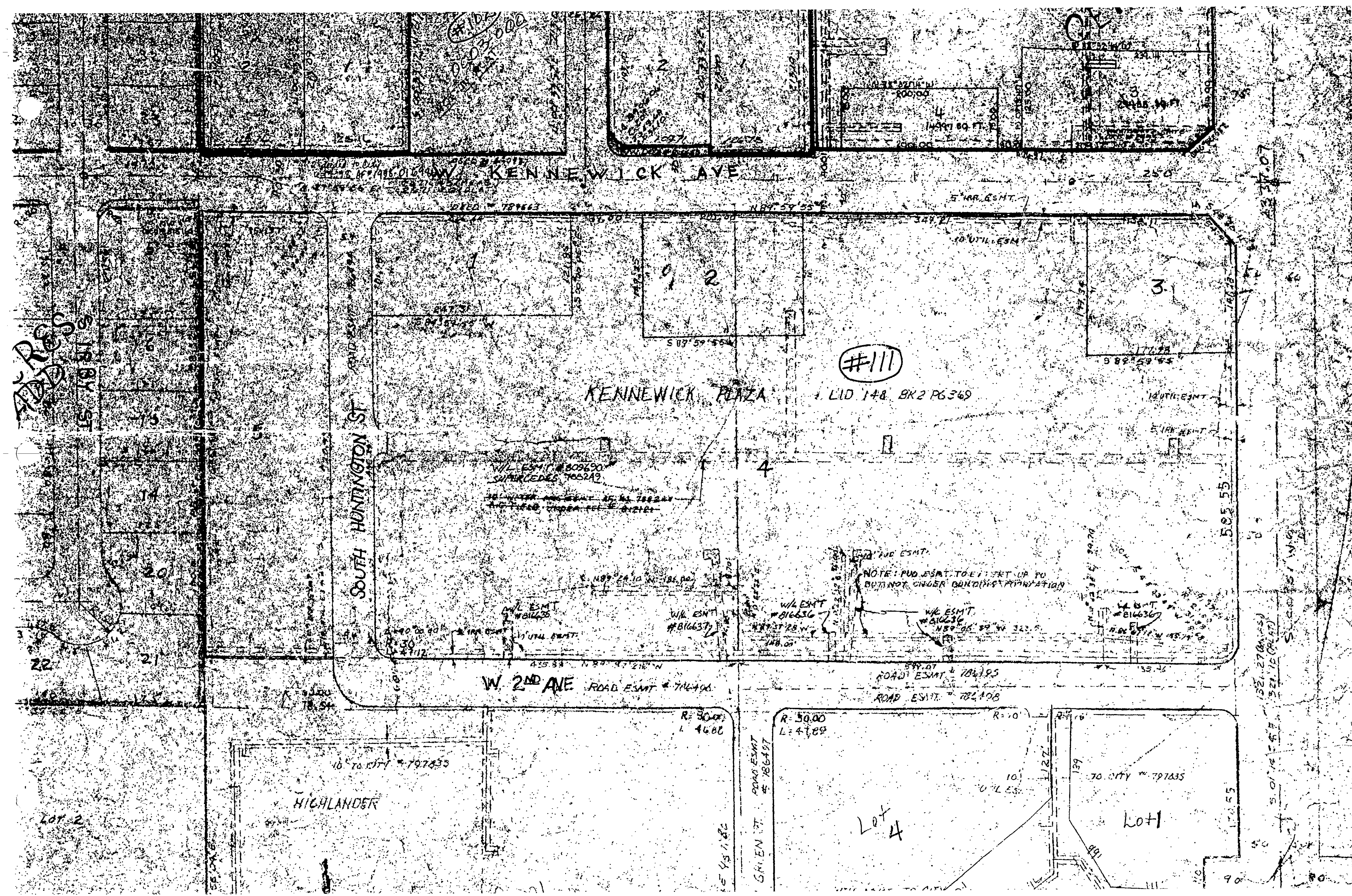
Parcel: 103891110000005 **Situs Address:** UNDETERMINED **Size:** 89734 Square Feet
Located On: , WA
TCA: K1
Legal: KENNEWICK PLAZA, LOT 5:
SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD 12/13/79.

Parties:

Role	Name & Address
Owner	STEPHENS,ET AL TRUSTEES, THOMAS 14335 NE 24TH STE 202 BELLEVUE, WA 980070000
Payer Of Ta	STEPHENS TRUSTEES ET AL CO, T 14335 NE 24TH STE 202 BELLEVUE, WA 980070000
Taxpayer	LYNN TRUST, ELIZABETH A 14335 NE 24TH STE 202 BELLEVUE, WA 980070000

Property Values

	Assessed				Market		
Tax Year	Land	Improvements	New Construction	Total	Land	Improvements	Total
1999	$448,670.00	$0.00	0	$448,670.00	$448,670.00	$0.00	$448,670.00
1998	$448,670.00	$0.00	0	$448,670.00	$448,670.00	$0.00	$448,670.00
1997	$448,670.00	$0.00	0	$448,670.00	$448,670.00	$0.00	$448,670.00
1996	$448,670.00	$0.00	0	$448,670.00	$448,670.00	$0.00	$448,670.00



W. KENNEWICK AVE
KENNEWICK PLAZA
#111
LID 148 BK 2 PG 369
SOUTH HUNTINGTON ST
W. 2ND AVE
HIGHLANDER
Lot 4
Lot 1

APPENDIX G

BPUD TRANSFORMER DOCUMENTATION

BENTON P.U.D

December 3, 1999

ATC Associates
6347 Seaview Ave. N.W.
Seattle, WA 98107

Re: PCB INQUIRY - Kennewick Plaza

Dear Mr. Gilham:

Following is the information you requested in December 1999, regarding the transformers at the above location:

TRANSFORMER #	Parts Per Million-PCB	INSTALL DATE	Location
7390	LT 1	6/14/88	3013 W Kennewick Ave.
12436	LT 1	4/2/90	3013 W Kennewick Ave.
15459	LT 1	5/25/90	3013 W Kennewick Ave.
16092	LT 1	10/10/92	W. 2nd Ave./Hwy. 395
18901	LT 1	1/29/99	3019 W Kennewick Ave.
14831	LT 1	10/25/91	2801 W Kennewick Ave.
I2093	LT 1	8/28/90	2801 W Kennewick Ave.

If you need additional information please feel free to contact me at (509) 582-1265.

Sincerely,

Gary Splattstoesser
Supervisor of Support Services

2721 West 10th Avenue • P.O. Box 6270 • Kennewick, WA 99336-0270 • (509) 582-2175 Tel • (509) 586-1710 Fax

APPENDIX H

ASBESTOS BULK SAMPLE LOGS AND ANALYTICAL RESULTS

Bulk Sample Log

Sample No.	Type of Material	Estimated Quantity	Floor/ Level	Sample Location	Pos/ Neg	%	Asbestos Type	Friability; Physical Condition	Air Movement; Accessibility; Barriers
01	Resilient Sheet Flooring - Yellow Tile Pattern	60 SF	Bldg A	Space 128 - Back Restroom - North Wall	P	25	Chrysotile	Friable None	Moderate High
02	Resilient Floor Tile (12" x 12") - Gray Mottling	1,000 SF	Bldg A	Space 128 - Laudromat - Main Area	N	ND			
03	Acoustic Panel (2' x 4') - Large Fissure	500 SF	Bldg A	Space 128 - Laudromat - Main Area	N	ND			
04	Acoustic Panel (2' x 4') - Small Fissure	500 SF	Bldg A	Space 128 - Laudromat - Main Area	N	ND			
05	Resilient Sheet Flooring - Beige Tile Pattern	20 SF	Bldg A	Space 122 - Health South - Back Laudry Room	N	ND			
06	Asbestos-Cement Sheet Material	2,000 SF	Roof	Former Ernst Store	P	15	Chrysotile	Nonfriable None	High Low
07	Roofing Mastic	50 SF	Roof	Former Ernst Store - On C.A.B. Joints	P	10	Chrysotile	Nonfriable None	High Low
08	Roofing Mastic	50 SF	Roof	Former Ernst Store - On HVAC Pedestal	P	10	Chrysotile	Nonfriable None	High Low
09	Resilient Floor Tile (12" x 12") - Off-white/tan mottled	170 SF	Mezz	Former Ernst Store - Mezzanine	N	ND			
10	Floor Tile Mastic - Black	170 SF	Mezz	Former Ernst Store - Under sample #09	P	5	Chrysotile	Nonfriable None	Low Low
11	Wallboard/Joint Compound Composite	500 SF	Mezz	Former Ernst Store	N	ND			

(R)# denotes that the estimated material quantity for the area has been included in referenced sample number.

Bulk Sample Log

Sample No.	Type of Material	Estimated Quantity	Floor/ Level	Sample Location	Pos/ Neg	%	Asbestos Type	Friability; Physical Condition	Air Movement; Accessibility; Barriers
12	Baseboard Mastic - Brown	100 LF	Mezz	Former Ernst Store	N	ND			
13	Resilient Floor Tile (12" x 12") - Green	400 SF		Former Ernst Store - East side sales floor	N	ND			
14	Resilient Floor Tile (12" x 12") - Off-white/small tan mottle	3,000 SF		Former Ernst Store - East side sales floor	N	ND			
15	Resilient Floor Tile (12" x 12") - Off-white/large tan mottle	3,000 SF		Former Ernst Store - East side sales floor	N	ND			
16	Floor Tile Mastic - Black	3,000 SF		Former Ernst Store - East side sales floor under #15	P	5	Chrysotile	Nonfriable None	Low Low
17	Resilient Floor Tile (12" x 12") - White/small tan mottle	R15		Former Ernst Store - Center SE of sales floor	N	ND			
18	Floor Tile Mastic - Black, under #17 over #15	3,000 SF		Former Ernst Store - Center SE of sales floor	P	10	Chrysotile	Nonfriable None	Low Low
19	Resilient Floor Tile (12" x 12") - White/small tan mottle	R15		Former Ernst Store - SE Edge Sales floor	N	ND			
20	Floor Tile Mastic - Yellow under #19 over #15	3,000 SF		Former Ernst Store - SE Edge Sales floor	N	ND			
21	Resilient Floor Tile (12" x 12") - Off-white/large tan mottle	6,000 SF	1	Former Ernst Store - North Edge Sales floor	N	ND			
22	Floor Tile Mastic - Black under #21	6,000 SF	1	Former Ernst Store - North Edge Sales floor	P	10	Chrysotile	Nonfriable None	Low Low

(R)# denotes that the estimated material quantity for the area has been included in referenced sample number.

Bulk Sample Log

Sample No.	Type of Material	Estimated Quantity	Floor/ Level	Sample Location	Pos/ Neg	%	Asbestos Type	Friability; Physical Condition	Air Movement; Accessibility; Barriers
23	Resilient Floor Tile (12" x 12") - Off-white/large tan mottle	R23	1	Former Ernst Store - West Edge Sales floor	N	ND			
24	Floor Tile Mastic - Black under #23	R22	1	Former Ernst Store - West Edge Sales floor	P	10	Chrysotile	Nonfriable None	Low Low
25	Wallboard/Joint Compound Composite	500 SF	1	Former Ernst Store - South side Sales floor	N	ND			
26	Resilient Floor Tile (12" x 12") - Blue/gray mottled	800 SF		Space 3013 - Vacant - South edge by back door	N	ND			
27	Floor Tile Mastic - Black/yellow mix	800 SF		Space 3013 - Vacant - South edge by back door	N	ND			
28	Acoustic Panel (2' x 4') - Dot/fissure white	800 SF		Space 3013 - Vacant - Back area	N	ND			
29	Resilient Floor Tile (12" x 12") - Off-white/tan mottle	100 SF		Space 3013 - Vacant - Restroom	N	ND			
30	Leveling Compound w/mastic - Mastic black	10 SF		Space 3013 - Vacant - Back area	N	ND			
31	Baseboard Mastic - Brown	50 LF		Space 3013 - Vacant - Back area	N	ND			
32	Wallboard/Joint Compound Composite	200 SF		Space 3013 - Vacant - Back area	N	ND			
33	Resilient Sheet Flooring - Off-white/gray tile pattern	80 SF		Space 2819 - Vacant - Front area	N	ND			

(R)# denotes that the estimated material quantity for the area has been included in referenced sample number.

Bulk Sample Log

Sample No.	Type of Material	Estimated Quantity	Floor/ Level	Sample Location	Pos/ Neg	%	Asbestos Type	Friability; Physical Condition	Air Movement; Accessibility; Barriers
34	Resilient Sheet Flooring - Off-white/gray tile pattern	200 SF		Space 2819 - Vacant - Back area	N	ND			
35	Acoustic Panel (2' x 4') - Dot/fissure white	800 SF		Space 2819 - Vacant - Back area	N	ND			
36	Mastic (Carpet) - Yellow/gray	800 SF		Space 2819 - Vacant - Front area	N	ND			
37	Wallboard/Joint Compound Composite	200 SF		Space 2819 - Vacant - Back area	N	ND			
38	Wallboard/Joint Compound Composite	200 SF	Mezz	Safeway - Compressor Room	N	ND			
39	Acoustic Panel (2' x 4') - Fissure/dot white	1 EA	Mezz	Safeway - Compressor Room	N	ND			
40	Resilient Floor Tile (12" x 12") - Off-white/gray mottle	10,000 SF	1	Safeway - Sales - South Edge	N	ND			
41	Floor Tile Mastic - Black under #40	10,000 SF	1	Safeway - Sales - South Edge	N	ND			
42	Resilient Floor Tile (12" x 12") - Off-white/gray mottle	R40	1	Safeway - Sales - South Edge	N	ND			
43	Floor Tile Mastic - Black/yellow under #42	R41	1	Safeway - Sales - South Edge	N	ND			
44	Resilient Sheet Flooring - Pink grained	60 SF	1	Safeway - Stock Room - Customer Restroom	N	ND			

(R)# denotes that the estimated material quantity for the area has been included in referenced sample number.

Bulk Sample Log

Sample No.	Type of Material	Estimated Quantity	Floor/ Level	Sample Location	Pos/ Neg	%	Asbestos Type	Friability; Physical Condition	Air Movement; Accessibility; Barriers
45	Resilient Floor Tile (12" x 12") - Off-white/gray mottle	200 SF	Mezz	Safeway - Breakroom	N	ND			
46	Floor Tile Mastic - Black under #45	200 SF	Mezz	Safeway - Breakroom	P	3	Chrysotile	Nonfriable None	Low Low
47	Baseboard Mastic - Brown	100 LF	Mezz	Safeway - Breakroom	N	ND			
48	Wallboard/Joint Compound Composite	200 SF	Mezz	Safeway - Corridor	N	ND			

(R)# denotes that the estimated material quantity for the area has been included in referenced sample number.

Hygeia Laboratories Inc.

82 W. Sierra Madre Blvd
Sierra Madre, California
91024-2434

626-355-4711
FAX: 626-355-4497

DEC 08 1999

December 1, 1999

Mr. Neil Gilham
ATC Associates Inc.
6347 Seaview Ave., NW
Seattle, WA 98107

Subject: PLM Analysis of Bulk Samples
Hygeia Job No.: 00076990050
Client Ref.: 76.18452.0201 Kennewick Plaza

Dear Mr. Gilham:

This report, which includes the attached Summary, contains the results of the analyses of the 48 bulk samples recieved by this laboratory on November 22, 1999. The analyses were performed using polarized light microscopy (PLM) in accordance with the EPA Method 600/R-93/116, July 1993. The phase abundances provided are visually estimated and expressed as percent area. In multilayer samples, unless otherwise specified, the asbestos concentration is reported for the layer where asbestos is found. These results should lie within the statistical limits of variability calculated for standard reference samples routinely analyzed in the laboratory. On a per sample basis, the accuracy and precision of the results depend on the type of samples and its asbestos content.

Hygeia recommends transmission electron microscopy (TEM) analysis on organically bound bulk materials (eg., vinyl floor tile, mastics, roofing materials, joint compounds) when PLM analysis shows undetectable quantities of asbestos. These materials often contain milled asbestos with fiber diameters and lengths too small to be resolved by the PLM. Because these fibers are not detected by PLM, the analysis may yield a false negative result.

Hygeia Laboratories Inc. is accredited under the NIST/NVLAP program for asbestos in bulk materials by polarized light microscopy and the State of California for asbestos analysis.

Hygeia Laboratories Inc. and its personnel shall not be liable for any misinformation provided to us by the client regarding these samples or for any misuse or interpretation of information supplied by us. Liability shall extend to providing replicate analyses only. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. We will retain these samples for a period of three months unless otherwise specified. This report relates only to the samples submitted and analyzed.

This report shall not be reproduced except for in full, without the written approval of this laboratory. If you have any questions regarding your results, this report, or the analytical methods employed, please feel free to contact us at (626) 355-4711.

Sincerely,
Hygeia Laboratories Inc.

Arturo Casas
Supervisor of Optical Microscopy
Attachments

ct

Gustavo A. Delgado, Ph.D.
Director

Hygeia Laboratories Inc.

82 W. Sierra Madre Blvd
Sierra Madre, California
91024-2434

626-355-4711
FAX: 626-355-4497

NIST / NVLAP Lab Code No. 102116-0
California ELAP Certificate No. 1269
New York ELAP Certificate No. 11017

Bulk Sample Analysis Summary

Analytical Method: EPA 600/R-93/116

December 1, 1999

Mr. Neil Gilham
ATC Associates Inc.
6347 Seaview Ave., NW
Seattle, WA 98107

Hygeia Ref. No.: *00076990050*
Date Collected: *November 17, 1999*
Date Received: *November 22, 1999*
Date Analyzed: *November 29, 1999*
No. Samples Submitted: *48*
No. Samples Analyzed: *48*

Microscopist: *Rafik Vartanian & Quynh Trieu*
Client Project: *76.18452.0201 Kennewick Plaza*

Client ID No. / Hygeia ID No.	Sample Description / Color	Asbestos Detected	Analytical Results	Q.C.
01 *561351*	*Resilient sheet flooring* yellow	*Yes*	25% Chrysotile 15% Cellulose 20% Mineral Filler 40% Organic Binders	
02 *561352*	*12"x12" floor tile* white	*No*	95% Mineral Filler 5% Organic Binders	
03 *561353*	*2'x4' ceiling panel (large)* gray/white	*No*	30% Cellulose 35% Fibrous Glass 20% Mineral Filler 10% Organic Binders 5% Perlite	
04 *561354*	*2'x4' ceiling panel (small)* gray	*No*	25% Cellulose 30% Fibrous Glass 30% Mineral Filler 5% Organic Binders 10% Perlite	
05 *561355*	*Resilient sheet flooring* tan	*No*	5% Cellulose 30% Mineral Filler 65% Organic Binders	

Bulk Sample Analysis Summary

Date: *December 1, 1999*
Hygeia Ref. No.: *00076990050*
Microscopist: *Rafik Vartanian & Quynh Trieu*

Client ID No. Hygeia ID No.	Sample Description Color	Asbestos Detected	Analytical Results	Q.C.
06 *561356*	*C.A.B. panel* gray	*Yes*	15% Chrysotile 75% Mineral Filler 10% Organic Binders	X
07 *561357*	*Mastic on C.A.B. panel joints* black/tan	*Yes*	10% Chrysotile 40% Mineral Filler 50% Organic Binders	
08 *561358*	*Mastic on HVAC pedestal* black	*Yes*	10% Chrysotile 30% Mineral Filler 60% Organic Binders	
09 *561359*	*12"x12" floor tile* tan	*Yes*	<1% Chrysotile 85% Mineral Filler 15% Organic Binders	
10 *561360*	*12"x12" floor tile mastic* black	*Yes*	5% Chrysotile 10% Cellulose 35% Mineral Filler 50% Organic Binders	
11 *561361*	*Wallboard/joint compound composite* white/tan	*No*	10% Cellulose 70% Mineral Filler 20% Organic Binders	
12 *561362*	*Baseboard mastic* brown	*No*	40% Mineral Filler 50% Organic Binders 10% Wollastonite	

Bulk Sample Analysis Summary

Date: *December 1, 1999*
Hygeia Ref. No.: *00076990050*
Microscopist: *Rafik Vartanian & Quynh Trieu*

Client ID No. Hygeia ID No.	Sample Description Color	Asbestos Detected	Analytical Results	Q.C.
1 3 *561363*	*12"x12" floor tile* green	*No*	80% Mineral Filler 20% Organic Binders	X
1 4 *561364*	*12"x12" floor tile* tan	*No*	75% Mineral Filler 25% Organic Binders	
1 5 *561365*	*12"x12" floor tile* brown	*Yes*	<1% Chrysotile 90% Mineral Filler 10% Organic Binders	
1 6 *561366*	*12"x12" floor tile mastic* black	*Yes*	5% Chrysotile 30% Mineral Filler 65% Organic Binders	
1 7 *561367*	*12"x12" floor tile* tan	*No*	80% Mineral Filler 20% Organic Binders	
1 8 *561368*	*12"x12" floor tile mastic* black	*Yes*	10% Chrysotile 5% Cellulose 30% Mineral Filler 55% Organic Binders	
1 9 *561369*	*12"x12" floor tile* tan	*No*	85% Mineral Filler 15% Organic Binders	

Bulk Sample Analysis Summary

Date: *December 1, 1999*
Hygeia Ref. No.: *00076990050*
Microscopist: *Rafik Vartanian & Quynh Trieu*

Client ID No. Hygeia ID No.	Sample Description Color	Asbestos Detected	Analytical Results	Q.C.
20 *561370*	*12"x12" floor tile mastic* yellow	*No*	10% Cellulose 30% Mineral Filler 60% Organic Binders	
21 *561371*	*12"x12" floor tile* tan	*Yes*	<1% Chrysotile 85% Mineral Filler 15% Organic Binders	
22 *561372*	*12"x12" floor tile mastic* black	*Yes*	10% Chrysotile 15% Cellulose 30% Mineral Filler 45% Organic Binders	X
23 *561373*	*12"x12" floor tile* tan	*Yes*	<1% Chrysotile 75% Mineral Filler 25% Organic Binders	
24 *561374*	*12"x12" floor tile mastic* black	*Yes*	10% Chrysotile 30% Mineral Filler 60% Organic Binders	
25 *561375*	*Wallboard/joint compound composite* tan	*No*	15% Cellulose 60% Mineral Filler 25% Organic Binders	
26 *561376*	*12"x12" floor tile* gray	*No*	90% Mineral Filler 10% Organic Binders	

Bulk Sample Analysis Summary

Date: *December 1, 1999*
Hygeia Ref. No.: *00076990050*
Microscopist: *Rafik Vartanian & Quynh Trieu*

Client ID No. Hygeia ID No.	Sample Description Color	Asbestos Detected	Analytical Results	Q.C.
27 561377	*12"x12" floor tile mastic* black	*No*	20% Cellulose 3% Fibrous Glass 45% Mineral Filler 32% Organic Binders	
28 561378	*2'x4' ceiling panel* tan	*No*	30% Cellulose 15% Fibrous Glass 25% Mineral Filler 10% Organic Binders 20% Perlite	
29 561379	*12"x12" floor tile* tan	*Yes*	<1% Chrysotile 85% Mineral Filler 15% Organic Binders	
30 561380	*Leveling compound with mastic* tan/black	*No*	2% Cellulose 88% Mineral Filler 10% Organic Binders	
31 561381	*Baseboard mastic* brown	*No*	2% Cellulose 40% Mineral Filler 53% Organic Binders 5% Wollastonite	
32 561382	*Wallboard/joint compound composite* white/tan	*No*	5% Cellulose 95% Mineral Filler	
33 561383	*Resilient sheet flooring* tan	*No*	42% Cellulose 3% Fibrous Glass 30% Mineral Filler 20% Organic Binders 5% Perlite	X

Bulk Sample Analysis Summary

Date: *December 1, 1999*
Hygeia Ref. No.: *00076990050*

Microscopist: *Rafik Vartanian & Quynh Trieu*

Client ID No. Hygeia ID No.	Sample Description Color	Asbestos Detected	Analytical Results	Q.C.
34 561384	*Resilient sheet flooring* tan	*No*	42% Cellulose 3% Fibrous Glass 30% Mineral Filler 20% Organic Binders 5% Perlite	
35 561385	*2'x4' ceiling panel* tan	*No*	45% Cellulose 10% Fibrous Glass 15% Mineral Filler 10% Organic Binders 20% Perlite	
36 561386	*Carpet mastic* yellow/tan	*No*	25% Cellulose 45% Mineral Filler 25% Organic Binders 5% Perlite	
37 561387	*Wallboard/joint compound composite* white/tan	*No*	5% Cellulose 95% Mineral Filler	
38 561388	*Wallboard/joint compound composite* white/tan	*No*	5% Cellulose 95% Mineral Filler	
39 561389	*2'x4' ceiling panel* white/tan	*No*	50% Cellulose 20% Fibrous Glass 15% Mineral Filler 10% Organic Binders 5% Perlite	
40 561390	*12"x12" floor tile* gray	*No*	90% Mineral Filler 10% Organic Binders	

Bulk Sample Analysis Summary

Date: *December 1, 1999*
Hygeia Ref. No.: *00076990050*

Microscopist: *Rafik Vartanian & Quynh Trieu*

Client ID No. Hygeia ID No.	Sample Description Color	Asbestos Detected	Analytical Results	Q.C.
48 *561398*	*Wallboard/joint compound composite* white/tan	*No*	5% Cellulose 95% Mineral Filler	

Microscopist: R. Vartanian Quynh Trieu Laboratory Supervisor: Antonio Cruz

The limit of detection for this analytical method is less than one percent asbestos (visual area estimates).

ATC PROJ. NO. 18452.0201 DATE: 11/1/99 PAGE 1 OF 5

00076 99 005

CLIENT: JSH PROPERTIES, INC

PROJECT: KENNEWICK PLAZA

EVALTR: NEIL GIDHAM

ATC ASSOCIATES INC. BULK SAMPLE LOG

ENVIRONMENTAL, GEOTECHNICAL AND MATERIALS PROFESSIONALS

6347 Seaview Ave. NW • Seattle, WA 98107

AREA#	AREA NAME/DESCRIPTION	AREA#	AREA NAME/DESCRIPTION
01	BACK RESTROOM - LAUNDR	05	SW HVAC PEDESTAL
02	LAUNDROMAT - SPACE 128 MAIN AREA	06	MEZZANINE
03	HEALTH SOUTH - 122 BACK LAUNDRY ROOM		
04	NORTH PARAPET		

UNITS CODES: 1 LIN. FT. 2 SQ. FT. 3 SQ. YDS. 4 CU. IN. 5 EACH

POS/NEG. CODES: P POSITIVE N NEGATIVE

SAMPLE #	BLDG/FLOOR	AREA #	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY	FRIABILITY	DAMAGE	AIR MOVEMENT	ACCESSIBILITY	POS/NEG	PERCENTAGES CHRYSOTILE	AMOSITE	CROCIDOLITE	OTHER	Q.C.
1	SPACE 128 BLDG A	01	4	34	R.S.F. - YELLOW TILE PATTERN	60 2	2	2	2	2	P	25				
2	"	02	5	32	I.R.F. 12X12 WHITE / GRAY MOTTLING	1000 2	1	2	2	2	N					
3	"	02	5	27	ACP. 2X4 LARGE FISSURE	500 2	2	2	2	1	N					
4	"	02	5	29	" " SMALL "	500 2	2	2	2	1	N					
5	SPACE 122 BLDG A	03	4	34	R.S.F. - BEIGE TILE PATTERN	20 2	2	2	2	2	N					
6	ROOF - FMR. ERNST	04	2	51	C.A.B. PANEL	2000 2	1	3	3	1	P	15				X
7	"	04	2	48	MASTIC O.N. CAB. PANEL JOINTS	50 2	1	3	3	1	P	10				
8	"	05	2	48	MASTIC O.N. HVAC PEDESTAL	50 2	1	3	3	1	P	10				
9	MEZZ FMR ERNST	06	4	32	I.R.F. 12X12 OFF WHITE / TAN MOTTLE	170 2	1	2	2	2	P	K1				
10	"	06	4	33	BLACK MASTIC UNDER #9 (WOOD SUBSTRATE)	170 2	1	1	1	1	P	5				

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY 2 MECHANICAL 3 STORAGE 4 OCCASIONAL 5 CONTINUOUS

FRIABILITY CODES: 1 NONFRIABLE 2 FRIABLE

DAMAGE CODES: 1 NONE 2 MINOR 3 MAJOR

AIR MOVEMENT CODES: 1 NONE TO LOW 2 MODERATE 3 HIGH

ACCESSIBILITY CODES: 1 LOW 2 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK/EXCHANGER INSL
08 STORAGE TANK/EXCHANGER LAGG
09 PUMP HOUSING INSULATION
10 PUMP HOUSING LAGGING
11 GASKETRY
12 FLUE INSULATION
13 TRANSITE PIPE
14 PIPE FITTING INSULATION
15 PIPE FITTING INSL LAGGING
16 PIPE RUN INSULATION
17 PIPE RUN INSL LAGGING
18 PLASTER BROWN/SCRATCH COAT
19 PLASTER FINISH COAT
20 PLASTER COMPOSITE
21 WALLBOARD
22 JOINT COMPOUND
23 PAINT/COATING
24 SPRAY-APPLIED ACOUSTIC MAT'L
25 ACOUSTIC PANEL
26 ACOUSTIC PANEL (2' X 2')
27 ACOUSTIC PANEL (2' X 4')
28 ACOUSTIC TILE (12" X 12")
29 ACOUSTIC TILE (1' X 2')
30 ACOUSTIC TILE MASTIC
31 RESILIENT FLOOR TILE (9" X 9")
32 RESILIENT FLOOR TILE (12" X 12")
33 FLOOR TILE MASTIC
34 RESILIENT SHEET FLOORING
35 SHEET FLOORING MASTIC
36 BASEBOARD
37 BASEBOARD MASTIC
38 SPRAY-APPLIED FIREPROOFING
39 HVAC FLEXIBLE CONNECTOR
40 DUCT INSULATION
41 DUCT INSULATION LAGGING
42 DUCT TAPE
43 ROOFING COMPOSITE (ROOF CUT)
44 ROOFING CAP SHEET
45 ROOFING SHINGLE
46 ROOF FLASHING
47 ROOFING FELT
48 ROOFING MASTIC
49 THERMAL INSULATION
50 HEAT SHIELD
51 TRANSITE SHEET MAT'L
52 MORTAR/GROUT
53 SINK UNDERCOAT MATERIAL
54 POWER LEAD INSULATION
55 WALLPAPER
56 FABRIC/ROPE
57 WOOD FLOOR MASTIC
58 FIRE-RATED/INSULATED DOOR CORE
59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE)

FOR LAB USE ONLY

ANALYST'S SIGNATURE/DATE 11/30/99

LAB DIRECTOR'S SIGNATURE/DATE 11-30-99

WHITE - RETURN TO ATC WITH RESULTS (FILE COPY) YELLOW - LAB COPY PINK - ATC FIELD COPY

REVISED 7/90

ATC PROJ. NO. 18452.0201 DATE: 11/18/99 PAGE 2 OF 5

00076 9 3050

CLIENT: JSH PROPERTIES, INC.

PROJECT: KENNEWICK PLAZA

EVALTR: NEIL GICHAM

ATC ASSOCIATES INC. BULK SAMPLE LOG

ENVIRONMENTAL, GEOTECHNICAL AND MATERIALS PROFESSIONALS

6347 Seaview Ave. NW • Seattle, WA 98107

AREA#	AREA NAME/DESCRIPTION	AREA#	AREA NAME/DESCRIPTION
06	MEZZANINE		
07	SALES FLOOR - EAST SIDE		
08	SALES FLOOR - CENTER SE		
09	SALES FLOOR - SE EDGE		

UNITS CODES: 1 LIN. FT. 2 SQ. FT. 3 SQ. YDS. 4 CU. IN. 5 EACH

POS./NEG. CODES: P POSITIVE N NEGATIVE

PERCENTAGES: CHRYSOTILE, AMOSITE, CROCIDOLITE, OTHER, Q.C.

SAMPLE #	BLDG/FLOOR	AREA #	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY	UNITS	FRIABILITY	DAMAGE	AIR MOVEMENT	ACCESSIBILITY	POS./NEG.	CHRYSOTILE	AMOSITE	CROCIDOLITE	OTHER	Q.C.
11	~~FMR~~ MEZZ FMR ERNST	06	4	22	WB/FC COMP	500	2	1	2	2	2	N					
12	"	06	4	37	BB MASTIC - BROWN (4in)	100	1	1	1	1	1	N					
13	FIRST FMR ERNST	07	4	32	RFT 12X12 - GREEN (OVER ~~BLACK~~ YELLOW MASTIC & #15)	400	2	1	2	2	2	N					X
14	"	07	4	32	RFT 12X12 - OFF-WHITE/SM. TAN MOTTLE (OVER YELLOW MASTIC & #15)	3000	2	1	2	2	2	N					
15	"	07	4	32	RFT 12X12 - OFF WHITE/LG. TAN MOTTLE (Same as #9) (OVER black mastic #16 & concrete)	3000	2	1	1	1	1	P	<1				
16	"	07	4	33	BLACK MASTIC (under #15)	3000	2	1	1	1	1	P	5				
17	"	08	4	32	RFT 12X12 - OFF WHITE/SM. TAN MOTTLE (over black mastic #18)	R15	2	1	1	2	2	N					
18	"	08	4	33	BLACK MASTIC (UNDER #17) (OVER #15)	3000	2	1	1	1	1	P	10				
19	"	09	4	32	RFT 12X12 - OFF WHITE/SM. TAN MOTTLE	R15	2	1	1	2	2	N					
20	"	09	4	33	YELLOW MASTIC (under #19) (OVER #15)	3000	2	1	1	1	1	N					

MATERIAL CODES (SEE BELOW)

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK/EXCHANGER INSL
08 STORAGE TANK/EXCHANGER LAGG
09 PUMP HOUSING INSULATION
10 PUMP HOUSING LAGGING
11 GASKETRY
12 FLUE INSULATION
13 TRANSITE PIPE
14 PIPE FITTING INSULATION
15 PIPE FITTING INSL LAGGING
16 PIPE RUN INSULATION
17 PIPE RUN INSL LAGGING
18 PLASTER BROWN/SCRATCH COAT
19 PLASTER FINISH COAT
20 PLASTER COMPOSITE
21 WALLBOARD
22 JOINT COMPOUND
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53 SINK UNDERCOAT MATERIAL
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57 WOOD FLOOR MASTIC
58 FIRE-RATED/INSULATED DOOR CORE
59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY 2 MECHANICAL 3 STORAGE 4 OCCASIONAL 5 CONTINUOUS

FRIABILITY CODES: 1 NONFRIABLE 2 FRIABLE

DAMAGE CODES: 1 NONE 2 MINOR 3 MAJOR

AIR MOVEMENT CODES: 1 NONE TO LOW 2 MODERATE 3 HIGH

ACCESSIBILITY CODES: 1 LOW 2 HIGH

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ATC PROJ. NO. 18452.0201 DATE: 11/18/99 PAGE 3 OF 5

CLIENT: JSH PROPERTIES, INC

PROJECT: KENNEWICK PLAZA

EVALTR: NEIL GILLHAM

ATC ASSOCIATES INC. — BULK SAMPLE LOG

ENVIRONMENTAL, GEOTECHNICAL AND MATERIALS PROFESSIONALS

6347 Seaview Ave. NW • Seattle, WA 98107

AREA#	AREA NAME/DESCRIPTION	AREA#	AREA NAME/DESCRIPTION
10	SALES FLOOR - NORTH EDGE	14	BACK AREA
11	SALES FLOOR WEST EDGE	15	RESTROOM
12	SALES - SOUTH SIDE		
13	SOUTH EDGE BY BACK DOOR		

UNITS CODES: 1 LIN. FT. 2 SQ. FT. 3 SQ. YDS. 4 CU. IN. 5 EACH

POS./NEG. CODES: P POSITIVE N NEGATIVE

SAMPLE #	BLDG/FLOOR	AREA #	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY	UNITS	FRIABILITY	DAMAGE	AIR MOVEMENT	ACCESSIBILITY	PERCENTAGES CHRYSOTILE	AMOSITE	CROCIDOLITE	OTHER	Q.C.
21	FIRST - FMR ERNST	10	4	32	RFT. 12X12 - OFF WHITE/LG TAN MOTTLE (concrete substrate)	6000	2	1	2	2	2	P	<1			
22	"	10	4	33	BLACK MASTIC (under #21)	6000	2	1	1	1	1	P	10			X
23	"	11	4	32	RFT. 12X12 - OFF WHITE/LG TAN MOTTLE (concrete substrate)	RE1	2	1	2	2	2	P	<1			
24	"	11	4	33	BLACK MASTIC (under #23)	RE2	2	1	1	1	1	P	10			
25	"	12	4	31/32	WB/JC COMP	500	2	1	2	2	2	N				
26	VACANT 3013	13	4	32	RFT. 12X12. BLUE/GRAY MOTTLE	800	2	1	2	2	2	N				
27	"	13	4	33	BLACK/YELLOW MIX MASTIC	800	2	1	1	1	1	N				
28	"	14	4	47	ACP. 2X4 DOT/FISSURE WHITE	800	2	2	1	2	1	N				
29	"	15	4	32	RFT. 12X12. OFF WHITE/TAN MOTTLE	100	2	1	1	2	2	P	<1			
30	"	14	4	62	LEVELING COMPOUND W/ MASTIC (BLACK)	10	2	1	2	2	2	N				

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY 2 MECHANICAL 3 STORAGE 4 OCCASIONAL 5 CONTINUOUS

FRIABILITY CODES: 1 NONFRIABLE 2 FRIABLE

DAMAGE CODES: 1 NONE 2 MINOR 3 MAJOR

AIR MOVEMENT CODES: 1 NONE TO LOW 2 MODERATE 3 HIGH

ACCESSIBILITY CODES: 1 LOW 2 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK/EXCHANGER INSL
08 STORAGE TANK/EXCHANGER LAGG
09 PUMP HOUSING INSULATION
10 PUMP HOUSING LAGGING
11 GASKETRY
12 FLUE INSULATION
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51 TRANSITE SHEET MATL
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53 SINK UNDERCOAT MATERIAL
54 POWER LEAD INSULATION
55 WALLPAPER
56 FABRIC/ROPE
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58 FIRE-RATED/INSULATED DOOR CORE
59 EXTERIOR STUCCO
60 ROOF PENETRATION MASTIC
61 CARPET MASTIC
62 OTHER (DESCRIBE)

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ATC PROJ. NO. 18452,0201 DATE: 11/1,99 PAGE 4 OF 5

00076-90050

CLIENT: JSH PROPERTIES, INC.

PROJECT: KENNEWICK PLAZA

EVALTR: NEIL GIDHAM

ATC ASSOCIATES INC.

ENVIRONMENTAL, GEOTECHNICAL AND MATERIALS PROFESSIONALS

6347 Seaview Ave. NW • Seattle, WA 98107

BULK SAMPLE LOG

AREA#	AREA NAME/DESCRIPTION	AREA#	AREA NAME/DESCRIPTION
14	BACK AREA		
15	FRONT AREA		
16	COMPRESSOR ROOM		
17	SALES - SOUTH EDGE		

UNITS CODES: 1 LIN. FT. 2 SQ. FT. 3 SQ. YDS. 4 CU. IN. 5 EACH

POS./NEG. CODES: P POSITIVE N NEGATIVE

PERCENTAGES: CHRYSOTILE, AMOSITE, CROCIDOLITE, OTHER, Q.C.

SAMPLE #	BLDG/FLOOR	AREA #	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY	UNITS	FRIABILITY	DAMAGE	AIR MOVEMENT	ACCESSIBILITY	CHRYSOTILE	AMOSITE	CROCIDOLITE	OTHER	Q.C.
31	VACANT BOB	14	4	34	TSB. MASTIC. - BROWN. (4in)	50	1	1	1	1	1	N				
32	"	14	4	21/22	WB/JC. COMP.	200	2	1	1	2	2	N				
33	VACANT 2819	15	4	34	RSF. - OFF WHITE/GRAY TILE PATTERN	80	2	2	1	2	2	N				X
34	"	14	4	34	" " "	200	2	2	2	2	2	N				
35	"	14	4	27	ACP. 2X4. DOT/FISSURE. WHITE	800	2	2	1	2	1	N				
36	"	15	4	61	CARPET MASTIC - YELLOW/GRAY (RSF BACKING?)	800	2	1	1	1	1	N				
37	"	14	4	21/22	WB/JC. COMP.	200	2	1	1	2	2	N				
38	SAFEWAY MEZZ	16	4	21/22	" "	200	2	1	1	2	2	N				
39	"	16	4	27	ACP. 2X4. FISSURE/DOT. WHITE (replacement - loose)	15	2	1	2	2	2	N				
40	SAFEWAY FIRST	17	5	32	RFT - OFF WHITE/GRAY. MOTTLE. 12X12 (on concrete)	1000	2	1	1	2	2	N				

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY 2 MECHANICAL 3 STORAGE 4 OCCASIONAL 5 CONTINUOUS

FRIABILITY CODES: 1 NONFRIABLE 2 FRIABLE

DAMAGE CODES: 1 NONE 2 MINOR 3 MAJOR

AIR MOVEMENT CODES: 1 NONE TO LOW 2 MODERATE 3 HIGH

ACCESSIBILITY CODES: 1 LOW 2 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK/EXCHANGER INSL
08 STORAGE TANK/EXCHANGER LAGG
09 PUMP HOUSING INSULATION
10 PUMP HOUSING LAGGING
11 GASKETRY
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46 ROOF FLASHING
47 ROOFING FELT
48 ROOFING MASTIC
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59 EXTERIOR STUCCO
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CLIENT: JSH PROPERTIES INC

PROJECT: KENNEWICK PLAZA

EVALTR: NELL GIGHAM

ATC ASSOCIATES INC. BULK SAMPLE LOG

ENVIRONMENTAL, GEOTECHNICAL AND MATERIALS PROFESSIONALS

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AREA#	AREA NAME/DESCRIPTION	AREA#	AREA NAME/DESCRIPTION
17	SALES FLOOR - SOUTH EDGE		
18	CUSTOMER RESTROOM, N STOCK ROOM		
19	BREAKROOM		
20	CORRIDOR		

UNITS CODES: 1 LIN. FT. 2 SQ. FT. 3 SQ. YDS. 4 CU. IN. 5 EACH

POS./NEG. CODES: P POSITIVE N NEGATIVE

PERCENTAGES: CHRYSOTILE, AMOSITE, CROCIDOLITE, OTHER, Q.C.

SAMPLE #	BLDG/FLOOR	AREA #	AREA USAGE	MTRL CODE	MATERIAL DESCRIPTION	ESTIMATED QUANTITY						FRIABILITY CODES	DAMAGE CODES	AIR MOVEMENT CODES	ACCESSIBILITY CODES	CHRYSOTILE	AMOSITE	CROCIDOLITE	OTHER	Q.C.
41	SAFEWAY FIRST	175		33	BLACK MASTIC (UNDER #40)	10000	2					1	1	1	1	N				
42	"	175		32	RFT. 12X12. OFF WHITE/GRAY MOTTLE	R40						1	1	2	2	N				
43	"	175		33	BLACK/YELLOW MASTIC (under #42)	R41						1	1	1	1	N				
44	"	185		34	RSF - PINIS GRAINED	60	2					2	1	2	2	N				
45	SAFEWAY MEZZ	195		32	RFT. 12X12. OFF WHITE/GRAY MOTTLE	200	2					1	1	2	2	P	<1			
46	"	195		33	BLACK MASTIC (under #45)	200	2					1	1	1	1	P	3			
47	"	195		37	BTS MASTIC - BROWN (4 in.)	100	1					1	1	1	1	N				X
48	"	205		21/22	WB/FC COMP	200	2					1	1	2	2	N				

MATERIAL CODES (SEE BELOW)

AREA USAGE CODES: 1 VOID/CHASE/CAVITY 2 MECHANICAL 3 STORAGE 4 OCCASIONAL 5 CONTINUOUS

FRIABILITY CODES: 1 NONFRIABLE 2 FRIABLE

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AIR MOVEMENT CODES: 1 NONE TO LOW 2 MODERATE 3 HIGH

ACCESSIBILITY CODES: 1 LOW 2 HIGH

01 BOILER INSULATION
02 BOILER LAGGING
03 BREECHING INSULATION
04 BREECHING LAGGING
05 CHILLER INSULATION
06 CHILLER LAGGING
07 STORAGE TANK/EXCHANGER INSL
08 STORAGE TANK/EXCHANGER LAGG
09 PUMP HOUSING INSULATION
10 PUMP HOUSING LAGGING
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APPENDIX I

RESUMES

Neil R. Gilham, CHMM, REA
Senior Project Manager/Project Geologist

Education

B.S., Earth Sciences - Geology, California State Polytechnic University, Pomona, 1983
Certificate Program, Hazardous Materials Management, UCLA

Registrations/ Certifications/ Affiliations

Certified Hazardous Materials Manager, Institute of Hazardous Materials Mgmt., #5549
Washington State Site Assessor - Underground Storage Tanks #32000215
Registered Environmental Assessor, California - #5156
AHERA-Certified Asbestos Building Inspector
Health and Safety Training for Hazardous Waste Site Operations
Member - National Groundwater Association and Academy of Hazardous Materials Management

Professional Experience

Mr. Gilham has been involved in the environmental consulting industry since 1986, with a broad based background in all phases of environmental services. He has extensive knowledge of environmental regulations including RCRA, CERCLA, TSCA and UST regulations as well as state regulations for Washington, Oregon and California. Mr. Gilham has performed over 100 Phase I Environmental Site Assessments throughout the western U.S., British Columbia and Alberta, Canada. These sites have included industrial, commercial, retail shopping centers, high-rise office buildings, and large apartment complexes.

Additionally, Mr. Gilham has extensive experience in performing subsurface investigations including soil sampling, drilling, Geoprobe, monitoring well installation, and groundwater sampling. He is familiar with all commonly used sampling and analytical methodologies for a wide range of potential contaminants. Mr. Gilham has directed drilling operations throughout Washington, Oregon, California, Idaho, Missouri, Illinois, North Dakota and Texas. He has on-site experience with and managed numerous underground storage tank removals and closures including complex projects in confined areas inside structures and in downtown business districts. Mr. Gilham has direct field experience with and managed several remedial excavation projects involving petroleum-impacted soil. He has experience in interfacing with regulatory agencies and obtaining site closure for remediated sites. Mr. Gilham has developed specifications, workplans, and performed bidding services for UST removals and remedial excavation projects.

Selected Project Experience

- *Eagle Hardware & Garden - Seattle, Washington*
  Performed, managed and directed a project through all phases starting from Phase I ESA through remediation, and ultimately obtaining no further action from the Washington State Department of Ecology (DOE). During the Phase I of this relatively new retail hardware store, historical research indicated the presence of a former gasoline station at the site. A ground-penetrating radar (GPR) survey identified the presence of USTs below the existing parking lot. Specifications were developed and bidding services were performed for the UST removal project. The USTs were removed as well as 15 buried drums and 565 cubic yards of petroleum-impacted soil. Sampling and analysis of soil was performed during the UST removal and soil excavation. The remediation project was documented in an Independent Remedial Action Report and submitted to DOE. The DOE reviewed the documentation and issued a no further action (NFA) for the remedial action. The entire project was completed in 60 days, in time for a loan closing date.

Neil Gilham, CHMM, REA - page 2

Selected Project Experience (cont.)

- *Federal Aviation Administration - Northwest Mountain Region*
  Managed UST removals and above-ground storage tank installations a five sites in Colorado and one site in Utah. The project involved bidding the project from the FAA specifications, coordinating the work with the FAA, local ATC offices, and subcontractors. The Utah site involved on-site management during the course of the project.

- *Chelan County Public Utilities District - Washington*
  Managed response and remedial excavation of an 800-gallon mineral oil spill at an active substation in central Washington. Sampling and analysis of soil was performed during soil excavation. The remediation project was documented in an Independent Remedial Action Report.

- *Recreational Equipment Incorporated - Seattle, Washington*
  Project Geologist on a remedial action project involving the excavation of over 30,000 cubic yards of soil impacted by Stoddard solvent at a former commercial laundry facility. Directed excavation, sampling, and health and safety monitoring.

- *Group Health Cooperative - Renton, Washington*
  Managed the field activities at a remedial action project involving the excavation of over 3,000 cubic yards of gasoline-impacted soil. Implemented a soil vapor extraction and a groundwater treatment system at the site following excavation. Performed ongoing operations and maintenance of the system and groundwater monitoring.

- *Venture Stores - St. Louis, Missouri and Chicago, Illinois*
  Project Geologist/Project Manager overseeing Phase II site work at 18 sites in the Midwest that were former and operating gasoline stations and tire-battery-accessory (TBA) centers. Managed and scheduled the team of field geologists and field investigations.

- *Pic 'N' Save - Various Locations in California, Arizona and Colorado*
  Directed and scheduled a team of seven environmental professionals in performing Phase I ESAs at 40 retail store sites. Performed quality control on all reports. The team completed the site work and reports in 30 days.

- *Equitable Real Estate Management Inc. - Seattle, Washington*
  Initial site assessment and characterization of high-rise property. Analysis of public records, radon, lead in drinking water, and asbestos. Characterization activities included subsurface investigation including monitoring well development, groundwater flow and direction.

- *LaSalle Partners. - Portland, Oregon*
  Phase I environmental site assessment of a 20-story high rise property in downtown Portland. Project was conducted in accordance with ASTM standards and the LaSalle scope of work. The project included site reconnaissance, records review, and sampling for asbestos, radon and lead in drinking water.