

Chevron Environmental Management Company

# REMEDIAL INVESTIGATION WORK PLAN

Former Texaco Service Station No. 211577

631 Queen Anne Avenue North

Seattle, Washington

FSID: 77774779

CSID: 6663

February 8, 2022

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REMEDIAL INVESTIGATION WORK PLAN



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INVESTIGATION WORK  
PLAN**

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631 Queen Anne Avenue North  
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FSID: 77774779  
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Prepared for:

Chevron Environmental Management  
Company

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## ACRONYMS AND ABBREVIATIONS

AO	Agreed Order
Arcadis	Arcadis U.S., Inc.
Arnolds	Arnolds Family Estate, Estates of William F. Arnold and Erma R. Arnold
ASTM	ASTM International (formerly American Standard for Testing and Materials)
BTEX	Benzene, Toluene, Ethylbenzene, and Total Xylenes
CEMC	Chevron Environmental Management Company
COC	Constituent of concern
cPAH	carcinogenic polycyclic aromatic hydrocarbon
CSID	Cleanup Site Identification Number
CSM	Conceptual Site Model
CUL	Cleanup Level
DB	Delta Boring; soil boring advanced by Delta in 2002
DCAP	Draft Cleanup Action Plan
Delta	Delta Environmental Consultants, Inc.
DP	Delta Probe; Geoprobe advanced by Delta in 2002
DPE	Dual-Phase Extraction
DRO	Diesel Range Organics
DUP	Duplicate
E&E	Ecology and Environment, Inc.
Ecology	Washington State Department of Ecology
EDB	Ethylene dibromide
EDC	Ethylene dichloride
EDR	Environmental Data Resources, Inc.
EIM	Environmental Information Management
EO	Enforcement Order
EPH	Extractable Petroleum Hydrocarbons
FS	Feasibility Study
FSID	Facility Site Identification Number
ft bgs	Feet below ground surface

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ft btoc	Feet below top of casing
GRO	Gasoline Range Organics
HO	Heavy Oil Range Organics
IAWP	Interim Action Work Plan
IDW	investigation-derived waste
inHg	inches of mercury
LNAPL	Light Non-Aqueous Phase Liquid
µg/L	micrograms per liter
µg/m <sup>3</sup>	micrograms per cubic meter
MA-APH	Massachusetts Air Phase Hydrocarbons
mg/kg	milligrams per kilogram
mL	milliliters
mL/min	milliliters per minute
MRL	Method Reporting Limit
MTBE	Methyl tertiary-butyl ether
MTCA	Model Toxics Control Act
MW	Monitoring Well
NAD 83	North American Datum of 1983
NAVD 88	North American Vertical Datum of 1988
NWTPH-Dx	Northwest Total Petroleum Hydrocarbons Method – Diesel
NWTPH-Gx	Northwest Total Petroleum Hydrocarbons Method – Gasoline
Off-Property	Off-Property areas of the site, King County tax parcel IDs 38990-0490, 387990-0500, 387990-0435, 3879990-0530, 387990-0540, and 387990-0640, Seattle, Washington
PAH	Polycyclic Aromatic Hydrocarbon
PCE	Tetrachloroethene
PID	Photo-ionization Detector
PLIA	Petroleum Liability Insurance Agency
PLP	Potentially Liable Person
Property	King County tax parcel ID 387990-0425, located at 631 Queen Anne Avenue North, Seattle, Washington
PTAP	Petroleum Technical Assistance Program

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PVC	Polyvinyl Chloride
QA	quality assurance
QAPP	Quality Assurance Project Plan
QC	quality control
RGI	Riley Group, Inc.
RI	remedial investigation
RI/FS	Remedial Investigation/Feasibility Study
RI WP	Remedial Investigation Work Plan
ROW	Right-of-way
Roystone	Roystone on Queen Anne, LLC
RW	Recovery Well
SAVE	Spray Aeration Vacuum Extraction
site	Area surrounding 631 Queen Anne Avenue North, Seattle, Washington, including both the Property and Off-Property
SOP	Standard Operating Procedure
SVE	Soil Vapor Extraction
SVOC	Semi-volatile Organic Compound
TCE	Trichloroethene
TEE	Terrestrial Ecological Evaluation
Texaco	Texaco Inc.
TGI	Technical Guidance Instructions
TPH	Total Petroleum Hydrocarbons
USCS	Unified Soil Classification System
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VCP	Voluntary Cleanup Program
VOC	Volatile Organic Compound
VP	Vapor Probe
VPH	Volatile Petroleum Hydrocarbons
WAC	Washington Administrative Code

## 1 INTRODUCTION

On behalf of Chevron Environmental Management Company (CEMC), Arcadis U.S., Inc. (Arcadis) prepared this Remedial Investigation Work Plan (RI WP) for off-property areas of the former Texaco Service Station No. 211577 (site) located at 631 Queen Anne Avenue North in Seattle, Washington. CEMC manages environmental matters on behalf of its affiliate, Texaco Inc. (Texaco). This site is managed by the Washington State Department of Ecology (Ecology) pursuant to Agreed Order (AO) No. DE 16537, effective August 21, 2019. This RI WP was prepared pursuant to the Model Toxics Control Act (MTCA) regulation Washington Administrative Code (WAC) 173-340-350(7), which describes the elements necessary to complete a remedial investigation (RI). The Remedial Investigation Checklist (Ecology 2016) was also used as a guidance document during the preparation of this RI WP.

The site is formally known as Texaco 211577 Monterey in Ecology's database. The Identifiers are:

- Facility Site Identification Number (FSID): 77774779
- Cleanup Site Identification Number (CSID): 6663
- Agreed Order Number: 16537
- Address: area surrounding 631 Queen Anne Avenue North, Seattle, Washington 98109

Ecology's website for the site and documents available electronically can be accessed from this web page: <https://apps.ecology.wa.gov/gsp/CleanupSiteDocuments.aspx?csid=6663>. Data collected during investigations of the site are available in Ecology's Environmental Information Management ([EIM](#)) database under EIM identification number PMART005.

Under AO No. DE 16537, the Property is defined as King County tax parcel ID 387990-0425 (Ecology 2019). King County tax parcel IDs 387990-0490, 387990-0500, 387990-0435, 387990-0530, 387990-0540, and 387990-0640 are the Off-Property areas of the site (Off-Property) as defined in the Ecology Site Hazard Assessment completed on May 7, 2019 (Ecology 2019c). In this RI WP, the site is defined by both the Property and Off-Property.

A site location map is presented on Figure 1. A site aerial map showing the Property and its surroundings is included as Figure 2. A site plan of the Property is shown on Figure 3, and a site map showing its surroundings are presented on Figure 4 and Figure 5.

Potentially Liable Persons (PLPs) for the site as identified in AO No. DE 16537 are Roystone on Queen Anne, LLC (Roystone), CEMC, and the Estates of William F. Arnold and Erma R. Arnold. Roystone is the lead PLP for tasks relating to the Property. CEMC is the lead PLP for tasks involving the Off-Property.

The Property is currently owned by Roystone and is undergoing redevelopment, including the construction of a mixed-use, multi-story building with one level of underground parking. The Riley Group, Inc. (RGI) submitted an Interim Action Work Plan (IAWP) on August 20, 2019 (RGI 2019) as required by AO No. DE 16537 to remediate remaining impacts located at the Property.

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The purposes of this RI WP are to:

- Describe general site information, including site history and conditions, past investigations and remediation, and a conceptual site model (CSM).
- Summarize the results of the 2020 environmental investigation.
- Define the known nature and extent of the contamination at the site.
- Identify any potential data gaps.
- Propose an RI to collect and evaluate sufficient information to fully characterize the nature and extent of contamination at the site.

The remaining sections of this RI WP are summarized below:

- Section 2 – *Background*. Describes the site history, use, and environmental settings.
- Section 3 – *Historical Environmental Investigations*. Summarizes historical investigations.
- Section 4 – *Historical Remedial Actions*. Summarizes historical remedial actions.
- Section 5 – *2020 Environmental Investigations*. Summarizes 2020 investigation activities.
- Section 6 – *Cleanup Standards*. Describes cleanup standards for the impacted media at the site.
- Section 7 – *Nature and Extent of Contamination*. Describes constituents of concern (COCs) and remaining impacts at the site.
- Section 8 – *Preliminary Conceptual Site Model*. Evaluates fate and transport, potential receptors, and potential exposure pathways.
- Section 9 – *Remedial Investigation Scope of Work & Sampling and Analysis Plan*. Proposes remedial investigation to collect and evaluate sufficient information to further characterize the nature and extent of Off-Property contamination.
- Section 10 – *Quality Assurance Project Plan (QAPP)*.
- Section 11 – *References*. Lists the references cited throughout this RI WP.

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### Limitations

This RI WP is based on available reports and current site knowledge.

This RI WP includes data from King County tax parcel IDs 387990-0425, 387990-0435, 387990-0500, 38990-0490, 387990-0485, 388040-0050, 387990-0465, 387990-0640, 3879990-0530, 387990-0540, 387990-0590, 38790-0580, 387990-0570, 179253-0000, and 701535-0000.

The majority of the reports available to Arcadis are from work conducted either by Ecology, CEMC, or Roystone at the Site, King County tax parcel ID 387990-0425, as well as documents available on the Ecology website<sup>1</sup>.

Review of documents available at Ecology document repositories was not conducted. Documents consulted to prepare this RI WP are listed in Section 11.

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<sup>1</sup> <https://apps.ecology.wa.gov/gsp/CleanupSiteDocuments.aspx?csid=6663>.

## 2 BACKGROUND

This section describes the site and summarizes historical activities conducted at the Property and its surroundings.

### 2.1 Site and Surroundings Description

The site's general information is listed below (see Figures 2 through 6 as well as Appendix A):

- **Site Location and County:** 631 Queen Avenue North (Property) and vicinity (Off-Property and Off-site), Seattle, King County, Washington
- **Site Parcel ID, Definition, Address, Current Use, Land Use:** See Table T1 below.

**Table T1: Site Parcel Details and Land Use**

Parcel ID	Definition	Address	Current Use	Land Use
387990-0425	Property	631 Queen Anne Avenue North	0.25-acre lot under redevelopment by Roystone for a mixed-use, multi-story building with retail on the ground floor and one level of underground parking. Former wells (9): DPE-5, DPE-6, DPE-7, MW-6, MW-9, MW-13, RW-1, RW-4, VP-9. Temporary vapor points (3): 19, 21, 22.	Mixed Use – SM – UP (MI) according to parcel data (Appendix A)
ROW 387990-0425	Off-Property	Right of way (ROW) 631 Queen Anne Avenue North	Wells (3): SSI-W1, SSI-W2, MW-10	
38990-0490	Off-Property	622 1 <sup>st</sup> Avenue West; adjacent to Property to the southwest	Monterey Apartments: 0.29-acre multi-story apartment building. Wells (11): DPE-2, DPE-3, DPE-4, DPE-9, MW-4, MW-5/VP-5, MW-7/VP-8, MW-18, RW-3, VP-2, VP-4. Former wells (8): MP-1, DPE-1/VP-6, MW-2/VP-3, MW-3/VP-7, MW-19, RW-2, RW-5, VP-1. Vapor point (1): MVP-1. Former vapor point (2): DVP-1, DVP-2. Temporary vapor points (4): MVPT-1, 2, 17, SG02.	Mixed Use – SM – UP (MI)
ROW 38990-0490	Off-Property	ROW 622 1 <sup>st</sup> Avenue West; adjacent to Property to the southwest	Temporary vapor point (1): SG03.	
387990-0500	Off-Property	25 West Roy Street; adjacent to Property to the west	Del Roy Apartments: 0.26-acre residential building including paved courtyard Well (1): MW-22/DPE-8. Former well (1): MW-24 Vapor points (2): DRVP-1, DRVP-2. Temporary vapor point (1): SG01.	Mixed Use – SM – UP (MI)

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Parcel ID	Definition	Address	Current Use	Land Use
ROW 387990- 0500	Off- Property	ROW 25 West Roy Street; adjacent to Property to the west	Wells (2): MW-25, MW-14. Temporary vapor points (2): SG04, 13	Mixed Use – SM – UP (MI)
387990- 0540	Off- Property	100 West Mercer Street; one block to the southwest	Bank of America: 0.59-acre commercial banking facility including aboveground parking lot Wells (2): MW-21, PESMW-1 Temporary vapor point (1): 20	Mixed Use – SM – UP (MI)
387990- 0640	Off- Property	100 West Roy Street; one block to the west	U-Park: 2.84-acre aboveground parking lot. Wells (5): MW-32, MW-33, MW-35, OTBMW-1, OTBMW-2. Vapor points (2): NV-1, NV-2. Temporary vapor points (5): 7, 9 (north of West Roy Street across U-Park), 10, 14, 25	Mixed Use – SM – UP (MI)
387990- 0640	Off- Property, ROW	100 West Roy Street; one block to the west	Wells (2): MW-16, MW-26	Mixed Use – SM – UP (MI)
387990- 0435	Off- Property	617 Queen Anne Avenue North; adjacent to Property to the south	Bungalows Apartments (formerly Lindberg Apartments): 0.37-acre developed residential building including retail on the ground floor Well (1): MW-23 Temporary vapor points (2): SG05, 6	Mixed Use – SM – UP (MI)
ROW 387990- 0435	Off- Property	ROW 617 Queen Anne Avenue North; adjacent to Property to the south	Former well (1): MW-12	Mixed Use – SM – UP (MI)
387990- 0530	Off- Property	621 1 <sup>st</sup> Avenue West; one block to the west-southwest	Queen Anne Arms Apartments: 0.29-acre residential building Well (1): QAAMW-1 Temporary vapor points (2): 5, 11	Mixed Use – SM – UP (MI)
ROW 387990- 0530	Off- Property	ROW 621 1 <sup>st</sup> Avenue West; one block to the west- southwest	Well (1): MW-17	Mixed Use – SM – UP (MI)
ROW 387990- 0485	Off site	ROW 612 1st Avenue West; south- southwest	Alvena Vista Apartments: 0.15-acre residential building Well (1): MW-15	Mixed Use – SM – UP (MI)
ROW 387990- 0590	Off site	ROW 119 West Roy Street; one block to the west of Property	Chandler Hall Apartments: 0.44-acre residential building including paved courtyard Well (1): MW-34 Temporary vapor point (1): 24	Mixed Use – SM – UP (MI)
ROW 38790- 0580	Off site	ROW 610 2 <sup>nd</sup> Avenue West; one block to the west- southwest	Uptown Studios Apartments: 0.29-acre residential building Well (1): MW-30 Temporary vapor point (1): 23	Mixed Use – SM – UP (MI)

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Parcel ID	Definition	Address	Current Use	Land Use
387990-0570	Off site	118 West Mercer Street; one block to the southwest	0.15-acre lot Tup Tim Thai restaurant Well (1): PESMW-2	Mixed Use – SM – UP (MI)
ROW 387990-0570	Off site	ROW 118 West Mercer Street; one block to the southwest	Well (1): MW-31	Mixed Use – SM – UP (MI)
ROW 387990-0465	Off site	ROW 18 West Mercer Street	18 Mercer Street Building: 0.29-acre commercial office building Well (1): MP-2 Former well (1): MW-11	Mixed Use – SM – UP (MI)
ROW 388040-0050	Off site	ROW 14 West Roy Street; Northwest	Shah Safari: 0.28-acre commercial warehouse for Shah Safari clothing Well (1): MW-20	Mixed Use – SM – UP (MI)
ROW 179253-0000	Off site	ROW 275 West Roy Street	Courtyard at Queen Anne Square condominiums: 0.90-acre residential building including paved courtyard Well (1): MW-27	Mixed Use – SM – UP (MI)
ROW 701535-0000	Off site	ROW 200 West Mercer Street; two blocks to the southwest	Queen Anne Square condominiums and offices: 1.1-acres commercial office building for Queen Anne Square condominiums and other commercial businesses Wells (2): MW-28, MW-29	Mixed Use – SM – UP (MI)

The land use of a parcel is defined by the Seattle zoning map available in Appendix A. Any potential parcel use change will be defined by the land use as described on the Seattle zoning map.

## 2.2 Site and Surroundings History

Initial development of the site and surrounding neighborhood largely took place between 1900 and 1930. According to the Environmental Data Resources, Inc. (EDR) Report (Appendix C), the neighborhood has historically had a mix of residential and commercial businesses, similar to current use. Historical ownership and land use of the site and surrounding parcels are described below, including historical petroleum activities and/or spills. Surrounding parcels and corresponding lot numbers are shown on Figures 4 and 5.

### 2.2.1 Site History

- **Lot 387990-0425 (Property)**

According to the EDR Report and Roystone IAWP, the southeastern portion of the Property was occupied from at least 1927 to 1934 by a tailor and cleaner, Acme Cleaners, also known as Acme Dye Works. The Property was occupied by a gasoline service station from 1927 to 1993. In 1993, Ecology ordered that gasoline sales cease and contracted to have the USTs and equipment associated removed. After the service station was decommissioned, a convenience store occupied the Property until 2018. The Property was then used for paid parking prior to ongoing redevelopment beginning in 2019 (RGI 2019).

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Texaco began operation of the station at the Property in 1927. The Arnolds Family Estate acquired the Property from Texaco in 1977 and continued operating the station until it was decommissioned and redeveloped as a convenience store (Manhattan Express Deli) in 1993. Roystone purchased the property in 2017.

An estimated 24 underground storage tanks (USTs) have been present at the Property since 1922 for distribution of diesel, unleaded and leaded gasoline, and storage of waste oil (Ecology 1989, SAIC 2007, RGI 2019, RGI 2020). All but three USTs were removed prior to site redevelopment; these three USTs were removed during the redevelopment of the Property in 2020 (RGI 2020). Other former Property infrastructure included pump islands, wash racks, hoists, grease pits, and a lube service bay (RGI 2019).

**Table T2. Property UST History**

Year	Quantity	Contents	Location	Specifications	Current Status	Source
1927	1	Waste Oil	Exact location unknown; western side of Property	Unknown	Removed in 1971*	Ecology 1989
1927	2	Gasoline	Beneath the sidewalk along Queen Anne Avenue N.	550-gallon USTs; concrete-walled	Abandoned in place in 1967	RGI 2019
1934	8	Lube Oil	Exact location unknown; likely on northern and southern sides of former station building	50-gallon UST	Possibly removed by Texaco in 1954	RGI 2019
1934	2	Unknown	Eastern side of Property	4,000-gallon USTs	Replaced in 1982	RGI 2019
Pre-1934	1	Unknown	North-central area of Property	1,000-gallon UST	Removed by Ecology in 1993	RGI 2019
Pre-1934	1	Waste Oil	Southwestern area of Property	550-gallon UST	Removed by Ecology in 1993	RGI 2019
1954	1	Diesel	Eastern side of Property	4,000-gallon UST	Replaced in 1982	Ecology 1989, RGI 2019
1967	2	Leaded gasoline, unleaded gasoline	Western side of Property	10,000-gallon UST	Removed by Ecology in 1993	Ecology 1989, RGI 2019
1971	1	Leaded Gasoline	Unknown	6,000-gallon UST	Removed by Ecology in 1993	RGI 2019
1982	1	Diesel	Eastern side of Property	6,000-gallon UST	Removed by Ecology in 1993	Ecology 1989, RGI 2019
1982	2	Diesel	Eastern side of Property	8,000-gallon UST; 3,455-gallon UST	One UST removed by Ecology in 1993,	RGI 2019

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Year	Quantity	Contents	Location	Specifications	Current Status	Source
				(Originally reported as two 8,000-gallon USTs, the 3,455-gallon UST removed in 2020 is suspected to be the second UST)	one removed during redevelopment in 2020	
Unknown	1	Diesel	West-central side of Property	1,066-gallon UST	Removed during redevelopment in 2020	RGI 2020
Unknown	1	Waste Oil	Central part of Property	317-gallon UST	Removed during redevelopment in 2020	RGI 2020

- **Lot 38990-0490 (Off-Property Monterey Apartments)**

Monterey Apartments has been present on this lot since at least 1917 according to Sanborn maps (EDR 2019). Historical records indicate that two heating oil USTs existed in the alley on the boundary with Del Roy Apartments, with one located near MW-4 (Ecology 1989, SAIC 2007). A heating oil UST was located at the southeastern corner wall of the apartment building near RW-5 (SAIC 2007). Although the current status of the heating oil tanks is not known, the tanks appeared to remain in place as of the 2007 RI (SAIC 2006a, SAIC 2007).

- **Lot 387990-0500 (Off-Property Del Roy Apartments)**

Del Roy Apartments has been present on this lot since at least 1917 according to Sanborn maps (EDR 2019). Historical records indicate that a heating oil UST was located in the courtyard of the parcel near MW-22/DPE-8 (Ecology 1989, SAIC 2006a, SAIC 2007). Although the current status of the heating tank is not known, it appeared to remain in place as of the 2007 RI (SAIC 2006a; SAIC 2007).

- **Lot 387990-0435 (Off-Property Bungalows Apartments, formerly Lindberg Apartments):**

This lot is currently occupied by Bungalows Apartments. Sanborn maps first show development of this parcel in 1917, with the presence of an apartment building and shops. City records show that Lindberg Apartment Hotel was present at least by 1966; Lindberg Apartments remained open until the redevelopment of Bungalows Apartments in 2019. The retail shops present at this property have varied, but include barber shops, record shops, and cafes (EDR 2019). Historical records indicate that a heating oil UST existed on this property near MW-7/VP-8 (Ecology 1989, SAIC 2007). Although the current status of the heating tank is not known, it appeared to remain in place as of the 2007 RI (SAIC 2006a; SAIC 2007).

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- **Lot 3879990-0530 (Queen Anne Arms Apartments):**

According to Sanborn maps and City records, this lot has contained an apartment building since at least 1930. The apartment complex was known as Northgate Apartments from 1930 to at least 1991 and is now known as Queen Anne Arms Apartments (EDR 2019). Historical records report that a 1,760-gallon heating oil UST was located on this parcel. The UST was abandoned in place, though the exact location is unknown (PES 2020). According to a Phase II Environmental Site Assessment conducted at this lot by PES Environmental in 2020, a former heating oil UST was located on the lot. This parcel, along with the U-Park Lot, is scheduled for redevelopment as a multi-story mixed-use residential building in 2021.

- **Lot 387990-0540 (Bank of America):**

Between 1917 and 1950, Sanborn maps show that this lot had several structures, including a small apartment building. During this time, the parcel appeared to be broken into several smaller lots, including 102 and 108 West Mercer Street. Sanborn maps from 1969 show the consolidation of these lots into the present parcel and the construction of a bank and parking lot as in use today by Bank of America. According to City records, multiple banks and restaurants have operated on the property since 1920 (EDR 2019).

- **Lot 387990-0640 (Off-Property U-Park lot):**

This parcel is split between the U-Park lot and the area north across Roy Street (100 West Roy Street), which has historically contained offices, apartments, and the Act Theatre (Ecology and Environment, Inc. [E&E] 1991). Sanborn maps show that this lot has been undeveloped or used for parking (EDR 2019). As mentioned above, the U-Park parking lot is planned for redevelopment in 2021 and is currently in the permitting stage.

### 2.2.2 Surrounding Site History

- **Lot 387990-0485 (Alvena Vista Apartments):**

Alvena Vista Apartments have been present on this lot since at least 1935 according to city directory records (EDR 2019). Historical records indicate that a heating oil UST also existed on this property (Ecology 1989). Although the current status of the heating tank is not known, it appeared to remain in place as of the 2007 RI (SAIC 2006a; SAIC 2007).

- **Lot 388040-0050 (Warehouse for Shah Safari clothing):**

City records show that this lot housed an automobile repair business named Earling Garage or Earling Auto Repair in 1930. The history and full dates of operation are not known. The lot also had a moving business from at least 1944 to 1970 (Perry Moving and Storage, Inc.), and a dry cleaner from at least 1966 until 1975 (Paramount Cleaners, Inc.) (EDR 2019). A clothing business, Shah Safari, Inc., has operated at this lot since at least 1986. King County Assessor records define Shah Safari's space as a warehouse (Appendix A).

- **Lot 387990-0465 (Office Building):**

This lot currently contains an office building at 18 Mercer Street. Sanborn maps show "gas and oil" and "steel for grease" at the lot in 1969. Historical auto records suggest that the Mercer Street Mobil gasoline service station may have operated at this lot in the 1970s (EDR 2019). Sanborn maps also show two

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buildings labeled as apartments and lodging in 1950. These buildings appear unlabeled on previous Sanborn maps since 1905, suggesting that the parcel was likely used for non-industrial activities prior to that time (EDR 2019).

- **Lot 387990-0590 (Chandler Hall Apartments):**

According to City records, this lot contained apartment buildings since at least 1925 (EDR 2019). Westport Apartments was recorded at the lot since at least 1925, and Chandler Hall Apartments since at least 1935.

- **Lot 38790-0580 (Uptown Studios Apartments):**

This lot appears to have been fairly undeveloped prior to the construction of the current apartment building, which first appears on Sanborn maps in 1969 (EDR 2019). As of the 1991 RI, La Casita Apartments was present in this building, which now is called Uptown Studios Apartments (E&E 1991). Redevelopment is planned at this lot and the Tup Tim Thai parcel, including demolition of existing structures and construction of a seven-story mixed-use apartment building. The building will include two levels of underground parking.

- **Lot 387990-0570 (Tup Tim Thai Restaurant and redevelopment):**

This lot currently contains Tup Tim Thai Restaurant. Redevelopment is planned at this lot (along with the Uptown Studios Apartments, as noted above), including construction of a seven-story mixed use apartment building with underground parking. Historically, City records show various restaurants at this lot, including Wok & Roll and Brownies Brass Bear Tavern since 1970. “Andersons Olympic Gro” was registered at this lot between 1951 and 1960; though the type of business is unknown, Sanborn maps show no record of petroleum usage at the lot, which held a small building since at least 1893 (EDR 2019).

- **Lots 1792530-000 and 701535-0000 (Courtyard at Queen Anne Square condominiums and office building):**

Historical aerial imagery at these lots suggest usage for apartment and office buildings since at least the 1930s (EDR 2019). Currently the lots contain condominiums and office space.

- **Lot 387990-0450 (Restaurants and Retail):**

Reports on automobile operations show two historical automobile operations at this site named “Mlinson Magnus A” from 1935 to 1944 and “Beardsley LR” from 1925 to 1980 (EDR 2019). The exact nature of these businesses is unknown (EDR 2019).

### 2.2.3 Upgradient Site Descriptions

The following upgradient sites have had known environmental investigations.

- **Lot 3879900105 (Counterbalance Park):**

This lot currently contains Counterbalance Park and is located northeast across West Roy Street from the Property. Historically it was occupied by a Unocal gasoline service station<sup>2</sup>. Ecology Cleanup Site Unocal

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<sup>2</sup> <https://apps.ecology.wa.gov/gsp/Sitepage.aspx?csid=6364>

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306568 (Cleanup Site ID #6364, Facility ID #59972834) is associated with the lot due to these historical petroleum activities. A LUST notification was first prepared for this case in January 1986. COCs include gasoline, diesel, and “Petroleum – Other”. The current status of this case is listed as “Cleanup Started”. Available boring logs associated with this case are included in Appendix H.

- **Lot 7011000000 (MarQueen Hotel):**

The MarQueen Hotel is located at the lot directly to the east of the Property across Queen Anne Avenue North. In addition to a hotel, the lot currently houses a coffee shop, restaurant, and spa. The building was built in 1918 and originally used as the Seattle Engineering School and to train blacksmiths for the Ford automobile plant near Lake Union.<sup>3</sup>

Petroleum-contaminated soil was historically observed during construction activities in the MarQueen parking garage. An investigation done at the hotel and the Unocal 306568 site in September 2000 identified petroleum compounds in exceedance of MTCA Method A CULs in the soil in the MarQueen parking garage, and petroleum and chlorinated solvents in groundwater. Based on the results, Unocal 306568 was identified as the likely source of the petroleum impacts (GeoEngineers 2011).

- **Lot 0520000000 (Barclay Square on Queen Anne Condominiums):**

This lot is located at 701 1st Avenue North (approximately 250 ft northeast from the Property) and is currently occupied by Barclay Square on Queen Anne Condominiums. The ground floor of the building is used for commercial and retail purposes, including a nail salon, a restaurant, a doctor’s office, and a UPS store as of 2019. The lot was formerly used as a dry cleaning business and classified as Ecology Cleanup Site called Ron Isaacs Property (Cleanup Site ID # 5972, Facility ID #37384634) (Ecology 2019c).<sup>4</sup> A Site Discovery/Release Report was received pertaining to the lot in August 1995 and the first LUST characterization report was received in March 1996. The COCs were chlorinated solvents in soil and groundwater as well as “LUST – Other Hazardous Substance” and “Petroleum – Other”. The case received a No Further Action status in 1999.

### 2.3 Site Regulatory History

Monterey Apartments residents first reported gasoline odors in the basement of the building in 1978. The initial investigation was performed by the City of Seattle Fire Department and led to the discovery of light non-aqueous phase liquid (LNAPL) beneath Monterey Apartments (noted in an outdoor basement sump). Ecology became involved in the investigation in 1986 (Ecology 2019d, 2019e; RGI 2019).

On September 8, 1995, Mr. and Mrs. William F. Arnold were issued Enforcement Order (EO) Remedial Action No. DE 95TC-N322 identifying them as PLPs (Ecology 1995). The EO required remedial action, including operation and maintenance of the vapor extraction and product recovery system, biannual sampling, and a Feasibility Study (FS). On September 28, 1999, Ecology and the Estate of William F. Arnold and the Estate of Erma R. Arnold entered into Consent Decree (Consent Decree Resolving Ecology’s Past Costs Claim Against Arnolds) to resolve Ecology’s costs claims incurred up to that point

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<sup>3</sup> <https://www.marqueen.com>

<sup>4</sup> <https://apps.ecology.wa.gov/gsp/Sitepage.aspx?csid=5972>

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regarding the releases at the site (Ecology 1999). The consent decree required that the defendant pay Ecology \$150,000 within 30 days of the effective date of the consent decree.

On September 28, 1999, Ecology identified Texaco as a PLP (Ecology 2001). On December 18, 2001, Ecology and Texaco entered into Consent Decree No. 01-2-35862-6SEA.

The Property was entered into the Voluntary Cleanup Program (VCP) by CEMC in June 2002 under VCP ID Number NW0911 (Ecology 2002). The Property was removed from the VCP by Ecology on August 7, 2015 (Ecology 2015).

The Property was entered into the VCP by Roystone on January 11, 2019 under VCP ID Number NW3197 (Ecology 2019a).

CEMC applied to the Pollution Liability Insurance Agency's (PLIA's) Petroleum Technical Assistance Program (PTAP), but the application was denied in September 2018 due to the presence of a co-mingling tetrachloroethene (PCE) plume, not associated with the site (Ecology 2018).

Monterey Apartments and the Property were previously categorized as two separate cleanup sites (Monterey Apartments [CSID 4813] and Texaco 211577 [CSID 6663]) prior to the determination that the Property was the source of impacts at both locations (RGI 2019). On August 21, 2019, Ecology issued AO No. DE 16537 identifying Roystone, Texaco, CEMC, and the Estates of William F. Arnold and Erma R. Arnold as PLPs (Ecology 2019e). This AO administratively joined the Monterey Apartments and Texaco 211577 cleanup sites as a single site, Texaco 211577 Monterey. AO No. DE 16537 required the following actions and conditions:

- CEMC and Roystone are the PLPs subject to AO No. DE 16537, with "Roystone responsible for tasks relating to the property and CEMC responsible for tasks involving the remaining Off-Property areas of the site."
- Roystone would prepare an IAWP, implement the IAWP after Ecology's approval, and submit an Agency Review Draft Interim Action report.
- PLPs will complete an RI WP to update the existing RI from 1991. The RI WP will include all actions needed to characterize impact extent at the site in all environmental media.
- Implement the RI WP following Ecology's approval and submit an Agency Review RI report and FS. These reports may be presented together as a single RI/FS Report.
- Following Ecology's approval of the RI/FS, the PLPs will submit a preliminary Draft Cleanup Action Plan (DCAP).
- PLPs will submit written Progress Report at a quarterly frequency.

### 2.4 Environmental Setting

The site environmental setting is listed below:

- **Site Elevation:** The property is generally flat, with surrounding areas sloping downhill to the west toward Puget Sound. Area elevations range from approximately 100 to 150 feet above sea level.

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- **Climate:** Temperate climate with local annual precipitation averaging 34.1 inches. Local temperatures range from average lows in the mid-30s Fahrenheit in the winter months to highs in 70s Fahrenheit in summer months (U.S. Climate Data 2020).
- **Nearest Waterbodies:** Puget Sound is 0.5 mile downhill to the southwest, and Lake Union is 0.8 mile to the northeast.
- **Site Soils:** Previous subsurface investigations at the Property, including borings and monitoring well installations, have shown silty sands to depths of 6 to 8 feet below ground surface (ft bgs), underlain by a sand layer to 17 ft bgs on the eastern half of the property and 31 ft bgs on the western half. A very hard, fairly impervious clayey silt layer (the Lawton Clay) underlies the sand (RGI 2019). Available boring logs are presented in Appendix D.
- **Site Groundwater:**

Groundwater monitoring was conducted at the Property from the fourth quarter of 1986 to the fourth quarter of 2018. Off-Property monitoring was conducted from the fourth quarter of 1986 until the fourth quarter of 2013, and again in third quarter 2020. Detailed groundwater results are presented in Sections 3.2 and 5.4. Gauging data are presented in Table 5 through 7.

  - Monitoring network: Fifty-nine wells have been installed historically at the site (Property and Off-Property) and included remediation wells and groundwater monitoring wells. Thirty-nine wells were still present and in good condition at the site in 2021, all located Off-Property. Note that the site and site vicinity are currently undergoing multiple construction activities unrelated to the site cleanup, and therefore this well count may not remain accurate.
  - Observed depth to water: Depth to water observed in November 2018 at the Property ranged from 9.54 to 21.17 feet below top of casing (ft btoc). Depth to water observed in August 2020 Off-Property ranged from 8.10 (MW-20) to 30.50 ft btoc (MW-35).
  - Groundwater elevation: Groundwater elevation ranges at the site ranged from 148.79 feet North American Datum of 1983 (NAD 83) at the northeastern edge of the site to 113.73 feet NAD 83 at the southwestern edge of the site. Groundwater monitoring wells were surveyed in August 2020 based on Washington State Plane, North Zone, NAD 83.
  - Groundwater flow direction: Groundwater flow direction is west/southwest.
  - Groundwater monitoring wells are primarily screened within the shallow aquifer at the site. A deep aquifer that is observed regionally is also present at the site, at a depth of approximately 115 feet bgs. Well MP-2, set at a total depth of 165 feet bgs, is screened within this lower aquifer. The aquifer is situated below a layer of Lawton Clay and data gathered from borings indicates the deep aquifer is confined. The flow direction of groundwater in the deep aquifer is unknown, but likely flows towards Puget Sound (SAIC 2007). In August 2020, the depth to groundwater in MP-2 was approximately 116 ft bgs.
- **Site Surface Water:** No surface water is present on or near the site, and no risks to surface water have been identified.
- **Site Sediment:** No risks to sediments have been identified.

### 3 HISTORICAL ENVIRONMENTAL INVESTIGATIONS

Investigations have been conducted at the site since 1978 and included soil, groundwater, soil vapor, and LNAPL assessment. Those investigations are summarized in the following sections.

#### 3.1 Soil Vapor and Indoor Air Investigations

In 1978, residents of Monterey Apartments reported gasoline odors in the basement, which were subsequently investigated by the Seattle Fire Department (Ecology 2019e; RGI 2019). LNAPL was noted in an outdoor basement sump at this time. Ecology took over investigations of the odors in 1986 and installed gasoline vapor alarms in Monterey Apartments (E&E 1991). The 1986 investigation concluded that petroleum vapors were the result of over 2 feet of LNAPL near the foundation of Monterey Apartments (13 ft bgs). Additional reports of odors were received in 1990.

E&E conducted a limited soil vapor investigation in 1990 and collected soil vapor data from six temporary soil vapor points (SG01 to SG06) located on lots adjacent to the Property (E&E 1991). The points located on the western (SG01) and southern (SG05) borders of the Property presented the highest concentrations of benzene, toluene, ethylbenzene, and total xylenes (BTEX), with a maximum concentration of 890,000 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) at 4.5 ft bgs at point SG05 (RGI 2019; E&E 1991). Soil vapor point locations are shown on Figure 6.

E&E conducted an additional soil gas survey in 1991. The survey included the installation of 25 soil gas probes around the site and the broader site vicinity, and collection of samples between 3 and 12 ft bgs. The investigation concluded that the Property was the source for vapor intrusion at the Monterey Apartments, and that westward vapor migration may extend Off-Property as far as 2nd Avenue West (E&E 1991; RGI 2019).

Two soil vapor probes (DVP-1 and DVP-2) were installed in the basement of the Monterey Apartments by Delta Environmental in 2002. Soil vapor samples were collected from DVP-1 and DVP-2 monthly by SAIC from June to October of 2004 to monitor vapor extraction performance (SAIC 2007).

Soil vapor and ambient air samples were collected in 2005 and 2006 at the southern and western edges of the U-Park lot on the border with the Queen Anne Arms Apartments (SAIC 2006b). The samples were collected from two multilevel soil vapor probes (NV-1 and NV-2) sampled from 5 to 15 ft bgs. No analytes were detected above MTCA Method B Sub-Slab Soil Gas Screening levels, as shown in Table 1. Isopropyl alcohol (used for leak detection purposes) was detected in the samples, suggesting there may have been a leak in the sampling equipment.

Two sub-slab vapor points (DRVP-1 and DVRP-2) were installed in the basement of the Del Roy Apartments by SAIC in 2008. One sub-slab vapor point (MVP-1) and one temporary sub-slab vapor point (MVPT-1) were installed in the basement of Monterey Apartments. These vapor points were installed due to concerns with the construction and structural integrity of DVP-1 and DVP-2. Indoor air samples were also collected from the basement areas of both buildings. Sampling was performed in January and August 2009. Both sampling events yielded similar and consistent results, and the study concluded that near-surface soil vapor concentrations did not indicate a risk to indoor air.

Chloroform (trichloromethane) was detected in sub-slab soil vapor samples collected from MVPT-1 above MTCA Method B Sub-Slab Screening Levels with concentrations of  $12 \mu\text{g}/\text{m}^3$  and  $11 \mu\text{g}/\text{m}^3$  in January

and August 2009, respectively. Chloroform was also detected in sub-slab soil vapor samples collected from DRVP-2 above MTCA Method B Sub-Slab Screening Levels with concentrations of 4.4  $\mu\text{g}/\text{m}^3$  and 6.4  $\mu\text{g}/\text{m}^3$  in January and August 2009, respectively.

Several indoor air samples exceeded MTCA Method B CULs for benzene, with August 2009 indoor air concentrations in Del Roy and Monterey Apartments of 0.6  $\mu\text{g}/\text{m}^3$  and 0.65  $\mu\text{g}/\text{m}^3$ , respectively, and outdoor ambient air in the Del Roy Apartment courtyard of 0.46  $\mu\text{g}/\text{m}^3$ . The study found these concentrations to be within expected urban background levels. Soil vapor and indoor air analytical results are shown in Tables 1 and 2.

### 3.2 Groundwater Investigations

Groundwater monitoring at the site began in 1986. Fifty-nine wells including groundwater monitoring wells, dual-phase extraction (DPE) wells, and recovery wells have historically been installed at the site since that time. According to the available information to Arcadis, nine wells were located on the Property and fifty Off-Property (See Table T1). The nine Property wells were excavated during the 2020/2021 redevelopment activities. Thirty-nine off-Property wells were identified as remaining in good condition as of third quarter 2020 (See Section 5). Well construction details are shown in Table 4. Groundwater results are shown in Table 5 through 7. Available boring logs and well construction diagrams are presented in Appendix D.

LNAPL historically was observed in groundwater monitoring wells at the Property, Del Roy Apartments, and Monterey Apartments, with a maximum product thickness of 2.26 feet at Monterey Apartments in 1986 (RGI 2019; Ecology 2019e). However, no LNAPL has been observed in groundwater monitoring wells at the Property since 2008 or Off-Property since 2006. Historical maps showing the evolution of the LNAPL plume extent are presented in Appendix B.

Groundwater samples were regularly collected and analyzed for BTEX, gasoline range organics (GRO), diesel range organics (DRO), heavy oil range organics (HO), and dissolved lead. BTEX, GRO, DRO, and HO were detected above MTCA Method A CULs.

Dissolved arsenic has been detected in groundwater at concentrations above the MTCA Method A CUL of 5  $\mu\text{g}/\text{L}$  in groundwater collected from monitoring wells at the Property (RW-4) and off-Property (MW-3/VP-7, MW-4, MW-10, MW-14, groundwater grab sample from SB-4). The maximum historical arsenic concentration detected was 97.3  $\mu\text{g}/\text{L}$  at MW-3/VP-7 in 2002. No source of arsenic contamination has been identified on the Property.

Additionally, groundwater samples were analyzed for ethylene dibromide (EDB), ethylene dichloride (EDC), methyl tertiary-butyl ether (MTBE), and naphthalene. Historically, 40 wells at the site (31 Off-Property wells) have had groundwater concentrations above MTCA Method A CULs at least once. 11 wells have been in compliance with MTCA Method A CULs since their installation: MW-11, MW-20, MW-24, MW-27 through MW-31, MW-34, SSI-W1, and SSI-W2. The historic MTCA boundary is shown on Figure 7.

During groundwater sampling events conducted from 1991 to 2020, groundwater was also analyzed for chlorinated VOCs, including PCE, trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride. PCE and TCE impacts are summarized in AO No. DE 16537 as follows:

“[f]rom 1991 to 2004, tetrachloroethene (PCE) and trichloroethene (TCE) were detected at concentrations above MTCA cleanup levels in groundwater samples collected in wells located west, southwest, and southeast of the Property. PCE has been detected in sub-slab soil gas samples at concentrations above MTCA cleanup levels southwest of the Property. PCE concentrations in the most recent sub-slab soil gas and indoor air samples collected in 2009 were below the MTCA cleanup levels. Based on direction of groundwater flow to the southwest, these contaminants are suspected to be from an upgradient source – a former dry cleaners located northeast of the Property, at 14 Roy Street in Seattle, Washington.”

### 3.3 Soil Investigations

#### 3.3.1 General Site Area

Twelve subsurface investigations have been conducted to determine the extent of soil impacts since the discovery of LNAPL in 1986 at the Monterey Apartments. Most of the historical soil investigations have focused on the Property, with some borings at the neighboring Monterey Apartments, Del Roy Apartments, and in the ROW. Soil has been analyzed for GRO, DRO, HO, BTEX, MTBE, EDC, EDB, total lead, cPAHs (including naphthalenes), silver, arsenic, barium, cadmium, chromium, mercury, selenium, and VOCs. Off-Property impacts have been found between 1 and 35 ft bgs. Concentrations of GRO, DRO, HO and/or BTEX in Off-Property soil have been observed to exceed MTCA Method A CULs in 23 out of 72 samples collected. Additionally, chromium has been detected at concentrations between 12 mg/kg and 48.3 mg/kg across the site. All other constituents were either non-detect or below MTCA Method A CULs. The locations of soil borings are shown on Figure 5, and locations of soil vapor points are shown on Figure 6. Complete historical soil analytical data are shown in Tables 8 through 12. Available Property and Off-Property boring logs are included in Appendix D.

#### 3.3.2 Lot 3879900425 (Property)

Soil contamination was first identified in 1993 during UST closure activities (RGI 2019). Since that time, extensive soil sampling events and excavations have been conducted. The soil sampling locations on Property are shown on Figure 3. These soil assessments are not described in detail here as the Property is currently under redevelopment and has been excavated lot line to lot line per the IAWP. Soil analytical data from areas of past or current excavations are not included in the summary below.

The most recent soil sampling event at the Property was in 2017 (RGI 2019). Test probes P4, P5, P6, and P7 were drilled in the southeastern corner of the Property. Samples were collected between 1 and 6 ft bgs and sampled for “Other VOCs.” The IAWP notes that “‘Other VOCs’ does not include petroleum-related volatile organic compounds (VOCs) that were not assessed independently due to the fact that they are factored into the MTCA Method A TPH Cleanup Levels.” Other VOCs were analyzed by United States Department of Environmental Protection (USEPA) Method 8260; and no VOCs were detected in these samples. Samples SSI-W1, SSI-W2, SSI-P1, and SSI-P2 were collected from depths of 5 to 21 ft bgs and analyzed for GRO, DRO, and HO. The only exceedance of MTCA Method A CULs from these samples was SSI-W2 at 12.5 ft bgs, which had a GRO concentration of 69 milligrams per kilogram (mg/kg). SSI-W1 and SSI-W2 were developed as monitoring wells (RGI 2019).

### 3.3.3 Lot 3979900500 (Del Roy Apartments)

In September 2002, Delta Environmental Consultants, Inc. (Delta) advanced one soil boring (DB-6) in the ROW of 1st Avenue West near Del Roy Apartments. The boring was converted into a monitoring well (MW-14). Two samples were collected at depths of 16.5 and 26.5 ft bgs and analyzed for GRO, DRO, and BTEX, and no analytes were detected above laboratory reporting limits (Delta 2003).

In October 2004, SAIC advanced three soil borings (SB-22, SB-24, and SB-25) around Del Roy Apartments. Samples from the soil borings were analyzed for GRO, DRO, HO, and BTEX (SAIC 2007):

- SB-22 was located in the central courtyard and was developed into monitoring well MW-22/DPE-8. Samples were collected at depths of 12, 15, and 19 ft bgs. Concentrations in exceedance of MTCA Method A CULs were detected for HO (3,400 mg/kg) and benzene (0.01 mg/kg) in the sample collected at 12 ft bgs.
- SB-24 was advanced on the eastern boundary with the Property and was developed into monitoring well MW-24. Samples were collected at depths of 9, 16, and 18.5 ft bgs. Maximum concentrations in exceedance of MTCA Method A CULs detected were: GRO (3,100 mg/kg), benzene (1.1 mg/kg), toluene (11 mg/kg), and total xylenes (40 mg/kg) at 18.5 ft bgs.
- SB-25 was located in the ROW of 1st Avenue West and was developed into monitoring well MW-25. Samples were collected at depths of 12.5, 17.5, and 23 ft bgs. Concentrations in exceedance of MTCA Method A CULs were detected for GRO (8,100 mg/kg), ethylbenzene (47 mg/kg), and total xylenes (210 mg/kg) in the sample collected at 12.5 ft bgs.

SB-22, SB-23, and SB-24 were also tested for methylene chloride, but values were below the CUL.

### 3.3.4 Lot 3879900490 (Monterey Apartments)

In September 2002, Delta advanced three soil borings (DB-4, DB-5, and DB-7) and two soil vapor points (DVP-1 and DVP-2). Ten soil samples were collected and analyzed for GRO, DRO, HO, BTEX, VOCs, semi-volatile organic compounds (SVOCs), polycyclic aromatic hydrocarbons (PAHs), and metals. Some samples were also analyzed for total volatile petroleum hydrocarbons (VPH) and extractable petroleum hydrocarbons (EPH), EDB, EDC, and MTBE. Samples with GRO, DRO, and BTEX exceeding MTCA Method A CULs were identified (Delta 2003; SAIC 2007).

- DVP-1 was sampled at 1 and 6 ft bgs. Maximum concentrations in exceedance of MTCA Method A CULs were detected at 6 ft bgs for GRO (4,600 mg/kg), benzene (7.72 mg/kg), ethylbenzene (41.9 mg/kg) and total xylenes (330 mg/kg).
- DVP-2 was sampled at 1 and 6 ft bgs. Maximum concentrations in exceedance of MTCA Method A CULs were identified for GRO (8,850 mg/kg), DRO (2,030 mg/kg), benzene (14 mg/kg), toluene (157 mg/kg), ethylbenzene (112 mg/kg), and total xylenes (523 mg/kg).
- DB-4 was sampled between 9 and 11.5 ft bgs. Maximum concentrations in exceedance of MTCA Method A CULs were identified for GRO (1,740 mg/kg), ethylbenzene (11 mg/kg), and total xylenes (56.3 mg/kg).
- DB-5 was sampled between 13 and 24 ft bgs. Maximum concentrations in exceedance of MTCA Method A CULs were identified for GRO (10,000 mg/kg), DRO (3,060 mg/kg), benzene (29.2 mg/kg), toluene (339 mg/kg), ethylbenzene (180 mg/kg), and total xylenes (1,050 mg/kg).

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- DB-7 was sampled between 11.5 and 33.5 ft bgs. Concentrations of benzene at 33.5 ft bgs (0.117 mg/kg) exceeded the MTCA Method A CUL.

In March 2004, SAIC collected additional soil samples (SP-2, SP-3 [developed into DPE-2], SP-4) in the parking lot south of Monterey Apartments.

- SP-3 was collected at 13 ft bgs. Concentrations in exceedance of MTCA Method A CULs were detected for GRO (24,000 mg/kg), DRO (3,000 mg/kg), benzene (93 mg/kg), toluene (390 mg/kg), ethylbenzene (200 mg/kg) and total xylenes (1,000 mg/kg).
- SP-2 and SP-4 had no analytes detected above MTCA Method A CULs (SAIC 2007).

In September and October 2006, SAIC installed additional soil borings that were later developed into DPE wells (DPE-3, DPE-4, and DPE-9) (SAIC 2007).

- DPE-3 was sampled at 10, 12.5, and 15 ft bgs. Concentrations in exceedance of MTCA Method A CULs were detected for GRO (210 mg/kg), benzene (0.13 mg/kg), ethylbenzene (7.2 mg/kg), and total xylenes (25 mg/kg) in the sample collected from 15 ft bgs.
- DPE-4 was sampled at depths of 13 and 16 ft bgs. Exceedances of MTCA Method A CULs were observed for GRO (13,000 mg/kg at 13 ft bgs and 62 mg/kg at 16 ft bgs) and benzene (7 mg/kg at 13 ft bgs and 12 mg/kg at 16 ft bgs). Toluene (130 mg/kg), ethylbenzene (44 mg/kg), and total xylenes (400 mg/kg) were also above MTCA Method A CULs at 13 ft bgs (SAIC 2007).
- DPE-9 was sampled at 13.5 ft bgs and had concentrations above MTCA Method A CULs for GRO (10,000 mg/kg), benzene (5.1 to 17.3 mg/kg depending on laboratory method), toluene (38 to 58 mg/kg), ethylbenzene (26 to 80 mg/kg), and total xylenes (290 to 343 mg/kg). The sample from DPE-9 was also analyzed for MTBE, EDB, and EDC, which were not detected.

### **3.3.5 Lot 3879900435 (Bungalows Apartments, formerly Lindberg Apartments)**

In September 2002, Delta advanced one soil boring (DB-1) in the ROW of Queen Anne Avenue North in front of the Lindberg Apartments (now Bungalows Apartments). The boring was converted into monitoring well MW-12. One sample was collected at 16 ft bgs and analyzed for GRO, DRO, and BTEX, but no analytes were detected above laboratory detection limits (Delta 2003).

In 2004, SAIC advanced one soil boring (SB-23) near the border with the Property; this boring was converted into monitoring well MW-23. Samples were collected at 10, 14, and 20 ft bgs. Concentrations in exceedance of MTCA Method A CULs were detected for GRO (1,200 mg/kg), benzene (0.12 mg/kg), toluene (9.7 mg/kg), ethylbenzene (21 mg/kg), and total xylenes (117 mg/kg) in the sample collected from 10 ft bgs. (SAIC 2007).

### **3.3.6 Lot 3879900485 (Alvena Vista Apartments)**

In September 2002, Delta advanced one soil boring (DB-8) in the ROW of 1st Avenue West near Alvena Vista Apartments. The boring was installed as a monitoring well (MW-15). One sample was collected at 16.5 ft bgs and analyzed for GRO, DRO, and BTEX, but no constituents were detected above laboratory reporting limits (Delta 2003).

### **3.3.7 Lot 3879900640 (U-Park Parking Lot)**

In September 2002, Delta advanced one soil boring (DB-9) in the ROW of 1st Avenue West near the Act Theater parking lot (now the U-Park parking lot). The boring was converted into a monitoring well (MW-16). One sample was collected at 16 ft bgs and analyzed for GRO, DRO, BTEX, benzyl alcohol, 2-methylnaphthalene, naphthalene, and lead, and no MTCA Method A exceedances were found (Delta 2003).

In October 2004, SAIC advanced soil boring SB-26 in the ROW on 1st Avenue West and sampled at two depths (12.5 and 20 ft bgs) for GRO, DRO, HO, and BTEX. The boring was converted into monitoring well MW-26. Benzene was detected above the MTCA Method A CUL at both depths with concentrations of 0.2 and 0.4 mg/kg. No other analytes exceeded MTCA Method A CULs (SAIC 2007).

In 2005, SAIC advanced three more borings (SB-32, SB-33, and SB-35) in the U-Park lot and collected samples from depths of 10, 25, and 27.5 ft bgs. The soil borings were converted into monitoring wells MW-32, MW-33, and MW-35. Samples were analyzed for GRO, DRO, HO, and BTEX. No analytes were detected at concentrations above MTCA Method A CULs (SAIC 2007). Soil samples from soil borings SB-32 and SB-33 were also tested for methylene chloride and total lead, and concentrations did not exceed MTCA Method A CULs.

In 2019, PES Environmental conducted an investigation that included four soil borings (SB-1, SB2, OTBMW-1, and OTBMW-2) advanced to a depth of 21.5 feet bgs. Soil samples were analyzed for GRO, DRO, HO and VOCs. No analytes were detected in concentrations above MTCA Method A CULs (PES 2020).

### **3.3.8 Lot 3879900530 (Queen Anne Arms Apartments)**

In 2002, Delta advanced one soil boring (DB-10) in the ROW of 1st Avenue West near Queen Anne Arms Apartments. The boring was converted into monitoring well MW-17. One soil sample was collected at 11 ft bgs and analyzed for GRO, DRO, HO and BTEX. No analytes were detected in concentrations above MTCA Method A CULs (Delta 2003).

In 2019, PES Environmental conducted an investigation that included four soil borings (SB-3, SB-4, SB-5, and QAAMW-1) advanced to depths ranging from 21.5 to 31.5 ft bgs. Soil samples were analyzed for GRO, DRO, HO and VOCs. No analytes were detected in concentrations above MTCA Method A CULs (PES 2020).

### **3.3.9 Lot 3879900540 (Bank of America)**

In 2002, Delta advanced one soil boring (DB-11) in the ROW of 1st Avenue West near the Bank of America building and collected a soil sample at 10.5 ft bgs. The soil sample was analyzed for GRO, DRO, HO, and BTEX. No analytes were detected in exceedance of MTCA Method A CULs (Delta 2003).

In 2004, SAIC advanced a soil boring (SB-21) in the parking lot near Uptown Studios Apartments. This boring was completed as monitoring well MW-21. Soil samples were collected at 25 and 35 ft bgs and analyzed for GRO, DRO, HO, and BTEX. No analytes were detected above MTCA Method A CULs (SAIC 2007).

**3.3.10 Lot 3880400050 (Warehouse for Shah Safari Clothing)**

In 2004, SAIC advanced one soil boring (SB-20) in the ROW of 1st Avenue West and collected one sample at 8 ft bgs. The sample was analyzed for GRO, DRO, HO, and BTEX, which were not detected (SAIC 2007). The boring was completed as monitoring well MW-20.

## **4 HISTORICAL REMEDIAL ACTIONS**

### **4.1 1986 – 1989: Early LNAPL Recovery**

In 1986, Ecology installed two LNAPL recovery wells, RW-1 and RW-2 (Ecology 1989). RW-1 was decommissioned in 1989 as a result of poor product recovery due to “poor well construction and low permeability of the subsurface materials”. Ecology estimated that approximately 75 to 125 gallons of LNAPL were recovered in total from these wells during their operation.

Absorbent socks and blankets were also employed periodically for LNAPL recovery at the site, though their use is inconsistently documented. Notes suggest that absorbent blankets were routinely in use at the Monterey Apartments in 1989 and were changed twice daily (Ecology 1989).

### **4.2 1993 – 1999: UST Closure and Soil Vapor Extraction/Spray Aeration Vacuum Extraction System**

In 1993, closure activities were undertaken at the Property. Seven USTs were removed and one UST was abandoned in place (Ecology 2019e). Petroleum-contaminated soil was identified, particularly around the eastern dispenser island (RGI 2019). Eleven pits were excavated around the Property. Although an official report was not found for this field event, previous reports suggest that the contaminated soil remained on site as backfill in the excavated pits (RGI 2019).

Concurrent with the UST closure activities and excavation, a soil vapor extraction (SVE) and groundwater recovery system with a spray aeration vacuum extraction (SAVE) treatment system were installed for the Property and Monterey Apartments (RGI 2019). One purpose of this system was to create negative pressure beneath the Monterey and Del Roy Apartments to mitigate vapor intrusion. The SAVE treatment system was replaced with a catalytic oxidizer in 1996 and operated until the system was shut down in 1997 (RGI 2019).

Farallon Consulting installed absorbent LNAPL socks in MW-6 and RW-2. These socks were changed monthly (RGI 2019).

### **4.3 2003 – 2008: Modified SVE System and DPE System**

In 2003 SAIC modified the SVE system (originally installed in 1993 as described above) to exert negative pressure in the soil under Monterey Apartments. This system was shut down in 2005 due to mechanical issues (SAIC 2007, RGI 2019).

A DPE system was installed in 2005 to extract groundwater and soil vapor under Monterey Apartments and the Property. The system operated from February 2006 until April 2008, and was estimated to have removed approximately 45,000 pounds of petroleum hydrocarbons (SAIC 2008).

### **4.4 2020-2021: Property Redevelopment**

Redevelopment of the Property as a multi-use residential building is being performed in conjunction with interim action activities (Ecology 2019e). These activities include lot line excavation, disposal of

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contaminated soils, and decommissioning and removal of subsurface infrastructure that may be encountered (RGI 2019).

According to well decommissioning documentation provided by RGI, the remaining monitoring wells on the Property were decommissioned in 2020 as shown on Table 4. Two wells within the ROW adjacent to the Property (SSI-W2 and MW-10) were not accessible during the August 2020 sampling event due to construction at the Property; both wells were later accessed for inspection and gauging in 2021. Monitoring well MW-24 (located on the Del Roy Apartments parcel) was reported by Roystone to have been damaged during construction activities. Therefore, this well was not sampled due to concerns about the integrity of the well casing.

Redevelopment at Bungalows Apartments in 2020 and 2021 have also affected the off-Property monitoring well network. Monitoring well MW-12 (located in the ROW between Queen Anne Avenue North and Bungalows Apartments) was inaccessible due to construction during the August 2020 sampling event and was damaged during utility work in January 2021. Monitoring well MW-23 was not accessible during the August 2020 event; in August 2021, the well was located but could not be opened to gauge.

## 5 2020 AND 2021 ENVIRONMENTAL INVESTIGATIONS

Between August 10 and 14, 2020, Arcadis performed the scope of work described in the Off-Property Survey and Groundwater Monitoring Work Plan, dated March 18, 2020 (Arcadis 2020). The scope of work included inspection of accessible groundwater monitoring and remediation wells and soil vapor probes, with gauging and sampling of groundwater monitoring wells where feasible. On June 18 and August 16, 2021, Arcadis visited the site to inspect and gauge several wells that could not be accessed during the 2020 event.

### 5.1 Site Access

Arcadis obtained access to Off-Property parcels containing groundwater wells and soil vapor probes. Arcadis also requested access at parcels near ROW wells in case future activities necessitate activity on these parcels. Arcadis also received a ROW permit from the City of Seattle Department of Transportation to access groundwater monitoring wells located within the ROW of Queen Anne Avenue North, West Roy Street, 1st Avenue West, 2nd Avenue West, and West Mercer Street.

### 5.2 Wells and Soil Vapor Probes Assessment

Arcadis assessed the location, presence, and condition of groundwater monitoring and remediation wells and outdoor soil vapor probes located Off-Property as shown on Figures 5 and 6.

As part of this assessment, Arcadis performed the following activities using field notes, photographs, and other equipment as described below.

- Documented general field observations such as site-specific hazards and site conditions.
- Confirmed well location and accessibility.
- Assessed well monument and wellhead integrity such as presence and condition of cap, lock, casing, and surrounding pavement.
- Conducted gauging in groundwater monitoring wells using an interface probe to measure depth to water, the potential presence of LNAPL, and the depth to bottom of the well.
- Compared groundwater monitoring well specifications to historical boring logs (Appendix B).

In addition to the above, existing soil vapor probes NV-1 and NV-2 installed in the U-Park lot were inspected and leak tested in August 2020. Vapor probes were inspected for cracks in the annular seals and surface coverings that may lead to ambient air dilution during sampling. Interior vapor points in Del Roy Apartments and Monterey Apartments were not inspected during the August 2020 sampling event, as interior access to apartment buildings was not provided at that time due to COVID safety precautions. These probes were later inspected on September 21, 2021.

#### 5.2.1 Results

Of the 50 monitoring, recovery, and DPE wells that have been installed Off-Property historically, 39 wells in good condition remain. Thirty-three (33) wells were gauged by Arcadis in either 2020 or 2021. Current

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(2019 – 2021) groundwater sampling data is available for 26 wells: 23 wells were sampled by Arcadis in August 2020 and three additional wells (OTBMW-1, OTBMW-2, and QAAMW-1) were sampled by PES in 2019.

The wells listed below were not able to be gauged and/or sampled:

- DPE-3 was inaccessible in August 2020 and therefore not sampled. DPE-3 was inspected and gauged in August 2021. Remediation equipment is still in place; however, the equipment was not tested.
- RW-2 is assumed no longer present onsite. No decommissioning records have been found for this well.
- RW-3 and DPE-4 were inspected and gauged but not sampled due to close proximity to other sampled wells (MW-4, DPE-9).
- RW-5 was unable to be opened safely without additional tools. The manhole vault was opened in June 2021, but the well was not gauged due to unsafe conditions.
- MW-10 and SSI-W2 were not accessible due to construction activities and therefore were not sampled. In July and August 2021 both wells were inspected and gauged.
- MW-11, MW-3/VP-7, and MW-19 were obstructed by fine, woody biomass around 10 to 11 ft bgs.
- MW-12 was not accessible in August 2020 due to construction. In January 2021, it was damaged during utility work.
- MW-14 was not accessible for sampling in August 2020 due to a parked vehicle. However, the well was inspected and gauged at the beginning of the field event and found to be in good condition.
- MW-15 was not accessible for sampling in August 2020 due to a parked vehicle. This well was inspected and gauged in June 2021.
- MW-22/DPE-8 was missing a cap, and therefore was gauged, but not sampled. A new cap was added.
- MW-23 was not found in August 2020 due to construction materials. In August 2021, the well was located but could not be gauged.
- MW-24 was damaged during construction activities and could not be gauged or sampled.
- MP-1 was inaccessible due to construction in August 2020. In August 2021, the well was found to have been removed, though no decommissioning records have been found for the well.
- VP-2 was gauged but had insufficient water for sampling.
- MP-2 was gauged but not sampled because the well was screened within a deeper aquifer.
- PESMW-1, PESMW-2, QAAMW-1, OTBMW-1, and OTBMW-2 were not gauged or sampled by Arcadis but are in good condition based on PES boring logs, gauging, and sampling data from 2019.

The remaining inspected wells were in fair condition. Several wells had loose caps that were replaced with new J-plugs.

Five additional wells (OTBMW-1, OTBMW-2, QAAMW-1, PESMW-1, and PESMW-2) were observed (two on the U-Park lot, one on the Queen Anne Arms property, and two on the Tup Tim Thai Property). Arcadis contacted PES Environmental, who installed the wells on behalf of the property owner, SLM Mercer LLC, in preparation for redevelopment of those properties. These wells were not gauged or sampled during the 2020 and 2021 field events.

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Soil vapor probes NV-1 and NV-2 in the U-Park lot were assessed to be in fair condition and included the following depths:

- NV-1: 5 ft bgs, 8.5 ft bgs
- NV-2: 5 ft bgs, 10 ft bgs, 15 ft bgs.

The caps were missing on the tubing in the probes, but the integrity and function had been adequately preserved during the previous sampling event with makeshift caps made of nitrile gloves, electrical tape, and zipper-lock bags. Stainless steel compression caps were added to the tubing, and labels were added indicating the depths for future use. Both probes passed leak testing, and the condition appeared to be conducive to future testing. No other exterior soil vapor probes were found during the Off-Property August 2020 investigation.

Arcadis inspected interior vapor points located within the basement of the Del Roy and Monterey Apartment Buildings on September 14, 2021. Two vapor points (DRVP-1, DRVP-2) were identified in Del Roy Apartments and one vapor point (MVP-1) was identified in Monterey Apartments. All three vapor points were water dam tested and determined to be in good condition. Arcadis also evaluated the basement and crawl spaces that may serve as potential future vapor points and indoor air sampling locations.

### 5.3 Groundwater Gauging and Sampling

Between August 10 and 14, 2020, Arcadis sampled 23 accessible monitoring wells. As described in Section 5.2.1, 33 wells were gauged over several sampling events by Arcadis in June and August 2021 due to accessibility issues. Depth to groundwater was observed to range from 8.1 to 30.5 ft btoc, at elevations ranging from 99.38 to 136.34 feet. No LNAPL was observed off-Property. Monitoring wells were sampled via low-flow methods, and groundwater samples were collected in laboratory-provided bottles and placed in a cooler with ice. During purging, water quality parameters (dissolved oxygen, oxidation-reduction potential, pH, conductivity, and temperature) were monitored for stability. Samples were submitted to an Ecology-approved laboratory, Pace Analytical, under standard chain-of-custody protocol. Groundwater samples were analyzed for the following constituents:

- BTEX by USEPA Method 8260D
- EDB by USEPA Method 8011
- GRO by Ecology Method Northwest Total Petroleum Hydrocarbons (TPH) Method – Gasoline (NWTPH-Gx)
- DRO and HO by Ecology Method Northwest TPH Method – Diesel (NWTPH-Dx) with and without silica gel cleanup
- Total and dissolved lead by USEPA Method 6010D.

In accordance with Ecology's letter dated February 13, 2020 (Ecology 2020), groundwater samples collected during this event were also analyzed for the following constituents, by USEPA Method 8260:

- PCE
- TCE

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- cis-1,2-DCE
- 1,3,5-trimethylbenzene
- 1,2,4-trimethylbenzene
- Naphthalene

### 5.4 Groundwater Monitoring Results

The analytical results of the groundwater samples collected from the sampled Off-Property monitoring wells indicate that petroleum hydrocarbon COC concentrations are above MTCA Method A CULs at seven wells (MW-4, MW-18, MW-21, MW-25, MW-33, VP-4, and DPE-2): GRO at MW-18, DPE-2, VP-4; DRO and HO at MW-4, MW-18, MW-25, MW-33, DPE-2, VP-4; benzene at MW-18, MW-21. Petroleum hydrocarbon COC concentrations above MTCA Method A CULs are found primarily in two areas: near the former SVE/DPE wells at Monterey and Del Roy Apartments and west of 1st Avenue West.

Detected petroleum hydrocarbon COC concentrations at most wells were less than those in 2013. Consistent with historical data, MW-21 contains benzene concentrations (34 µg/L) above the MTCA Method A CUL that is not encountered at wells upgradient of this location.

Chlorinated VOC concentrations are above MTCA Method A or B CULs at six wells (MW-5/VP-5, MW-7/VP-8, MW-18, MW-21, MW-30, and DPE-2): PCE and TCE at MW-5/VP-5, MW-7/VP-8, MW-21, MW-30; cis-1,2-DCE at MW5/VP-5, MW-7/VP-8, MW-18, MW-21, DPE-2. As previously discussed, the presence of chlorinated VOCs in groundwater is not associated with the site.

The groundwater monitoring results from the August 2020 sampling event are summarized in Tables 5 and 6. Laboratory reports, chain-of-custody documentation, and data validation reports are presented in Appendix E.

Groundwater samples from three monitoring wells (OTBMW-1, OTMW-2, QAAMW-1) and one soil boring (SB-4) installed by PES Environmental, as well as six off-Property wells (MW-16, MW-17, MW-26, MW-32, MW-33, and MW-35), were collected in 2019 by PES Environmental as part of planning for development at 118 West Mercer and 100 West Roy Street. PCE, TCE, and cis-1,2-DCE were detected above MTCA Method A CULs at QAAMW-1. The groundwater grab sample collected from SB-4 contained concentrations of DRO, benzene, vinyl chloride, cis-1,2-DCE, and arsenic exceeding MTCA Method A or B CULs.

Groundwater samples collected from 19 wells were in compliance with MTCA Method A CULs for all petroleum constituents analyzed in 2019 and 2020 (see section 7.1.2).

### 5.5 Elevation Survey

Otak, Inc., a state-registered land surveyor, conducted an elevation survey of 36 Off-Property groundwater monitoring wells and two soil vapor points. The survey was conducted with a horizontal accuracy of +/- 1 foot and vertical accuracy of +/- 0.01 foot. Survey data are reported in the North American Vertical Datum of 1988 (NAVD 88). Well MW-17/DB-10 was not accessible at the time of the survey. Survey data are provided in Table 5.

## 6 CLEANUP STANDARDS

The MTCA Method A CULs are considered the CULs for the site. For this RI WP, soil and groundwater concentrations are compared to current MTCA Method A CULs and impacts are identified as analyte concentrations detected greater than current MTCA Method A CULs.

The preliminary COCs for the site include GRO, DRO, and HO, BTEX compounds, lead, arsenic, and naphthalenes.

MTCA Method A CULs for the site COCs are presented in Table T3 below.

**Table T3. MTCA Method A CULs for Site COCs for Soil and Groundwater**

COC	MTCA CUL Groundwater (µg/L)	MTCA CUL Soil (mg/kg)
GRO <sup>1</sup>	800/1,000	30/100
DRO	500	2,000
HO	500	2,000
Benzene	5	0.03
Toluene	1,000	7
Ethylbenzene	700	6
Total Xylenes	1,000	9
Lead	15 (dissolved lead)	250
Arsenic	5 (dissolved arsenic)	20
Naphthalenes <sup>2</sup>	160	5

<sup>1</sup>For GRO, MTCA CULs depend on the presence of benzene: with benzene present (800 micrograms per liter [µg/L] and 30 milligrams per kilogram [mg/kg]) and without (1,000 µg/L and 100 mg/kg).

<sup>2</sup>Naphthalenes calculated by summing the concentrations of 1-methyl-naphthalene, 2-methyl-naphthalene, and naphthalene. If one or more constituents were reported as nondetect, half of the reporting limit was used in calculations.

MTCA Method B indoor air CULs and sub-slab soil vapor screening levels for site COCs are presented in Table T4 below.

**Table T4. MTCA Method B CULs for Air**

COC	MTCA Method B CUL Indoor Air <sup>1</sup> (µg/m <sup>3</sup> )	MTCA Method B Screening Level Sub-Slab Soil Vapor <sup>1</sup> (µg/m <sup>3</sup> )
Benzene	0.321	10.7
Toluene	2,290	76,204
Ethylbenzene	457	15,200
m-Xylene	45.7	1,520
o-Xylene	45.7	1,520
Naphthalene	0.0735	2.45
MTBE	9.62	321
APH (EC5-8 aliphatics)	140 <sup>2</sup>	4,700 <sup>2</sup>
APH (EC9-12 aliphatics)		
APH (EC9-10 aromatics)		

<sup>1</sup> Method B cancer risk values used when provided. If cancer risk values are not provided, noncancer risk is listed.

<sup>2</sup> The sum of APH ranges APH (EC5-8 aliphatics), APH (EC9-12 aliphatics), and APH (EC9-10 aromatics) is compared to their respective generic Method B indoor air CUL and sub-slab soil vapor screening level (Ecology 2018b).

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$\mu\text{g}/\text{m}^3$  = micrograms per cubic meter

MTCA CULs for chlorinated VOCs in groundwater are presented in Table T5 below. However, per AO No. DE 16537, based on direction of groundwater flow to the southwest, these contaminants are suspected to be from an upgradient source – likely a former dry cleaners located northeast of the Property.

**Table T5. MTCA CULS for VOCs in Groundwater**

COC	MTCA CUL <sup>1</sup> ( $\mu\text{g}/\text{L}$ )
PCE	5
TCE	5
Vinyl Chloride	0.2
Cis-1,2-DCE	16
Trans-1,2-DCE	160

<sup>1</sup> Method A CULs are provided for PCE, TCE, and vinyl chloride. No MTCA Method A Cleanup Level has been established for cis-1,2-DCE and trans-1,2-DCE; therefore, the MTCA Method B Non-Carcinogenic Standard Formula Value is listed for reference.

## 7 NATURE AND EXTENT OF CONTAMINATION

This section describes the type of contaminants at the site (nature) and the distribution of these contaminants vertically and horizontally across the site (extent). The nature and extent of contamination were identified based on data collected during site investigations described in Section 3 and site remediation described in Section 4.

### 7.1 Groundwater Quality

Groundwater monitoring at the site began in 1986. Historical groundwater quality is defined as groundwater data from 1986 to 2012. Current groundwater quality is defined as the off-Property groundwater results collected by Arcadis and PES from 2019 and 2020, as well as on-Property groundwater results from 2018 (most recent). Historical and current groundwater data are further discussed below.

#### 7.1.1 Historical Groundwater Quality

Groundwater samples were historically collected from groundwater monitoring wells located on the Property, off-Property, and associated ROWs. Groundwater analytical samples were not collected from wells with measurable LNAPL in them, which at times included five wells On-Property (MW-6, MW-9, RW-4, DPE-5, DPE-7), and seven wells Off-Property (MW-3/VP-7, MW-4, DPE-1/VP-6, VP-4, DPE-2, MW-22/DPE-8, and RW-2). Twelve (12) wells on the Property, off-Property, and associated ROWs (MW-11, MW-13, MW-20, MW-24, MW-27 through MW-31, MW-34, SSI-W1 and SSI-W2) have always been in compliance with MTCA Method A CULs for COCs listed below as well as three groundwater grab samples (SSI-P1, SSI-P2 and P2). Historical groundwater compliance status with MTCA Method A CULs and the extent of groundwater with exceedances is presented on Figure 7.

Groundwater samples were analyzed routinely for the following analytes:

- GRO
- DRO
- HO
- BTEX
- Dissolved Lead

Additionally, groundwater samples were periodically analyzed for arsenic, EDB, EDC, MTBE, naphthalene, PCE, and TCE.

Table T6 below summarizes the maximum groundwater concentrations historically observed on Site.

**Table T6. Maximum Historical Groundwater Concentrations**

	Constituents detected above MRLs	Historical maximum concentration detected	Date and well of historical maximum concentration detected	Constituents historically detected above MTCA Method A CUL
<b>GRO</b>	Yes	110,000 µg/L	2002; MW-4	Yes
<b>DRO</b>	Yes	1,900,000 µg/L	2007; MW-22/DPE-8	Yes
<b>HO</b>	Yes	510,000 µg/L	2007; MW-22/DPE-8	Yes
<b>Benzene</b>	Yes	19,600 µg/L	1997; MW-4	Yes
<b>Toluene</b>	Yes	46,000 µg/L	1991; RW-2	Yes
<b>Ethylbenzene</b>	Yes	2,660 µg/L	2002; DVP-1	Yes
<b>Total Xylenes</b>	Yes	120,000 µg/L	1991; RW-2	Yes
<b>Dissolved Lead</b>	Yes	47.1 µg/L	2003; VP-1	Yes
<b>EDB</b>	No	Non-detect	--	MRL above CUL <sup>1</sup>
<b>EDC</b>	Yes	67	1991; MW-3/VP-7	Yes
<b>MTBE</b>	No	Non-detect	--	No
<b>Total Lead</b>	Yes	63 µg/L	1991; MW-4	Yes
<b>Dissolved Arsenic</b>	Yes	97.3 µg/L	2002; MW-3/VP-7	Yes
<b>Naphthalene</b>	Yes	500 µg/L	2002; MW-4	Yes

Notes:

MRL = Method Reporting Limit

<sup>1</sup>. MRLs for EDB were above the MTCA Method A CUL for EDB.

### 7.1.2 Current Groundwater Quality

The most recent on-Property groundwater sampling event was performed in 2018 by RGI before Property redevelopment. The most recent off-Property groundwater sampling event was performed in 2020 at 23 Off-Property monitoring wells. Additionally, PES Environmental sampled nine monitoring wells and one soil boring/temporary well in 2019. LNAPL was not observed during either sampling events. Current groundwater compliance status with MTCA Method A CUL is presented on Figure 8. Nineteen (19) wells on the Property, off-Property, and in associated ROWs (DPE-9, MW-5/VP-5, MW-7/VP-8, MW-16, MW-17, MW-20, MW-26 through MW-32, MW-34, MW-35, OTBMW-1, QAAMW-1, OTBMW-2 and SSI-W1) are in compliance with MTCA Method A CULs for the preliminary COCs listed below<sup>5</sup>.

Groundwater samples collected during the sampling events in 2018 through 2020 were analyzed for the following preliminary COCs:

- GRO

<sup>5</sup> Four of these wells (MW-5/VP-5, MW-7/VP-8, MW-30 and QAAMW-1) contained chlorinated solvent concentration above MTCA Method A CULs. The presence of chlorinated solvents (PCE, TCE, cis-1,2-DCE, and VC) is not associated with the site.

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- DRO
- HO
- BTEX
- Dissolved Lead (2018 and 2020)
- Naphthalene (2018)
- cPAHs (2018)
- MTBE, EDB, EDC (2018)
- Other VOCs (2018 and 2019).
- Dissolved Arsenic (2019)

PCE, TCE, and cis-1,2-DCE were also analyzed; however, the presence of chlorinated solvents (PCE, TCE, cis-1,2-DCE, and VC) is not associated with the site. Per AO No. DE 16537, based on direction of groundwater flow to the southwest, these contaminants are suspected to be from an upgradient source – likely a former dry cleaners located northeast of the Property.

Table T7 below summarizes the maximum groundwater concentrations of constituents detected at the Property in 2018.

**Table T7. Property 2018 Maximum Groundwater Concentrations**

	Constituents detected above MRLs	Recent maximum concentration detected	Date and well of recent maximum concentration detected	Constituents recently detected above MTCA Method A CUL
<b>GRO</b>	Yes	700 µg/L Grab sample: 7,100 µg/L	2018; DPE-7 Grab sample P1-W	Yes
<b>DRO</b>	Yes	4,100 µg/L 110,000 µg/L	2018; DPE-7 Grab sample P1-W	Yes
<b>HO</b>	Yes	850 µg/L 3,800 µg/L	2018; DPE-7 Grab sample P1-W	Yes
<b>Benzene</b>	Yes	3.3 µg/L	2018; DPE-7	Yes
<b>Toluene</b>	Yes	8.1 µg/L 12 µg/L	2018; DPE-7 Grab sample P1-W	Yes
<b>Ethylbenzene</b>	Yes	2.3 µg/L 5.4 µg/L	2018; DPE-7 Grab sample P1-W	Yes
<b>Total Xylenes</b>	Yes	30 µg/L	2018; DPE-7	Yes
<b>Naphthalene</b>	Yes	1.3 µg/L	2018; DPE-7	--
<b>Dissolved Lead</b>	Yes	1.37 µg/L	DPE-5	No

MTBE, EDB, EDC, cPAHs, PCE, TCE, cis-1,2-DCE, and other VOCs were not detected above laboratory reporting limits in any wells on the Property in 2018.

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Table T8 below summarizes the maximum groundwater concentrations of constituents detected in Off-Property groundwater monitoring wells during the 2019 and 2020 event. Concentrations of ethylbenzene, toluene, total xylenes, lead, and naphthalene were below MTCA Method A CULs.

**Table T8. Off-Property 2019 - 2020 Maximum Groundwater Concentrations**

	Constituents detected above MRLs	2019-2020 maximum concentration detected	Date and well of recent maximum concentration detected	Constituents recently detected above MTCA Method A CUL
<b>GRO</b>	Yes	1,750 µg/L	2020; MW-18	Yes
<b>DRO</b>	Yes	2,940 µg/L	2020; MW-4	Yes
<b>HO</b>	Yes	799 µg/L	2020; MW-4	Yes
<b>Benzene</b>	Yes	34 µg/L	2020; MW-21	Yes
<b>Toluene</b>	Yes	2.02 µg/L	2020; MW-18	No
<b>Ethylbenzene</b>	Yes	1.21 µg/L	2020; VP-4	No
<b>Total Xylenes</b>	Yes	10.9 µg/L	2020; VP-4	No
<b>Naphthalene</b>	Yes	5.79 µg/L	2020; VP-4	No

Table T9 below summarizes the maximum groundwater concentrations of chlorinated solvents detected in Off-Property groundwater monitoring wells during the 2019 and 2020 event. Per AO No. DE 16537, based on direction of groundwater flow to the southwest, these contaminants are suspected to be from an upgradient source – likely a former dry cleaners located northeast of the Property.

**Table T9. Off-Property 2019 - 2020 Maximum Groundwater Concentrations of Chlorinated Solvents**

	Constituents detected above MRLs	2019-2020 maximum concentration detected	Date and well of recent maximum concentration detected	Constituents recently detected above MTCA Method A CUL
<b>PCE</b>	Yes	51 µg/L	2019; QAAMW-1	Yes
<b>TCE</b>	Yes	39 µg/L	2020; MW-7/VP-8	Yes
<b>Cis-1,2-DCE</b>	Yes	185 µg/L	2020; MW-7/VP-8	Yes

## 7.2 Light Non-Aqueous Phase Liquid

LNAPL was historically observed at a thickness greater than 0.01 foot in 12 groundwater monitoring wells located on the Property, Del Roy Apartments, and Monterey Apartments. The maximum historical LNAPL thickness was 2.26 feet in November 1986 at MW-6 on the Property (Ecology 2019d, 2019e; Leidos 2014; RGI 2019).

LNAPL has not been observed On-Property since 2008 or Off-Property since 2006. A summary of historical LNAPL detections is included in Table T10 below.

**Table T10. Historical LNAPL Detections**

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Well	Well Location	Date of first occurrence of LNAPL	Historical maximum thickness (feet)	Date of most recent measurable thickness	Most recent measurable thickness (feet)
MW-6	Property	1986	2.26	2004	0.02
MW-9	Property	1991	0.17	1991	0.17
RW-4	Property	2004	0.22	2004	0.22
DPE-5	Property	2006	0.05	2006	0.05
DPE-7	Property	2008	0.01	2008	0.01
VP-4	Monterey	2002	0.10	2004	0.03
MW-4	Monterey	2006	0.06	2006	0.06
MW-3/VP-7	Monterey	2003	0.03	2003	0.03
DPE-1/VP-6	Monterey	2002	1.83	2006	1.83
DPE-2	Monterey	2004	0.92	2006	0.3
MW-22/DPE-8	Del Roy	2006	1.37	2006	1.37
RW-2	Del Roy	1990	0.04	1991	0.08

### 7.3 Soil Quality

Soil sampling activities were predominantly completed at the Property (RGI 2019). 2020 redevelopment included excavation of the entire lot. Limited soil characterization was also implemented Off-Property at Monterey Apartments and in the ROW (sidewalks) near Bungalows Apartments, Del Roy Apartments, Alvena Vista Apartments, Bank of America, Queen Anne Arms Apartments, and the U-Park lot. Soil compliance status with MTCA Method A CULs and the extent of exceedances is presented on Figure 9. The status of samples that have been excavated during Property redevelopment are not presented on Figure 9.

Soil samples were analyzed for the following:

- GRO/DRO/HO: On the Property in 1993, 2002, 2004, 2005, 2012, and 2017. Off-Property at Monterey Apartments and in the ROW in 2002 and 2005, and at U-Park and Queen Anne Arms in 2019.
- BTEX: On the Property in 1993, 2002, 2004, 2005, 2012, and 2017. Off-Property at Monterey Apartments and in the ROW in 2002 and 2005, and at U-Park and Queen Anne Arms in 2019.
- Lead: On the Property, at Monterey Apartments, and in the ROW in 2002 and 2005.
- PAHs (includes naphthalene and cPAHs): On the Property, at Monterey Apartments, and in the ROW in 2002 and 2005.
- Total VPH and EPH: On the Property, at Monterey Apartments, and in the ROW in 2002 and 2005.
- Metals (silver, arsenic, barium, cadmium, chromium, mercury, lead, selenium): On the Property, at Monterey Apartments, and in the ROW in 2002 and 2005.
- Other VOCs: On the Property, at Monterey Apartments, and in the ROW in 2002 and 2005. and at U-Park and Queen Anne Arms in 2019.

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Table T11 below summarizes the maximum soil concentration historically observed On-Property and Off-Property.

**Table T11. Maximum Historical Soil Concentrations**

	Constituents detected above MDLs	Historical maximum concentration detected (mg/kg)	Date and lot of historical maximum concentration detected	Constituents historically detected above MTCA Method A CUL
<b>GRO</b>	Yes	Property: 11,000 at 11 ft (PIT-7) Off-Property: 10,200 at 13 feet (DB-5)	1993; Property 2002; Monterey Apartments	Yes
<b>DRO</b>	Yes	Property: 4,000 at 11 ft (PIT-7) Off-Property: 3,060 at 13 feet (DB-5)	1993; Property 2002; Monterey Apartments	Yes
<b>HO</b>	Yes	65 at 6 feet (DVP-4)	2002; Monterey Apartments	No
<b>Benzene</b>	Yes	Property: 81 at 20 feet (RW-4) Off-Property: 29.2 at 13 feet (DB-5)	2002; Property 2002; Monterey Apartments	Yes
<b>Toluene</b>	Yes	Property: 448 at 22 feet (DP-6) Off-Property: 339 at 13 feet (DB-5)	2002; Property 2002; Monterey Apartments	Yes
<b>Ethylbenzene</b>	Yes	180 at 13 feet (DB-5)	2002; Monterey Apartments	Yes
<b>Total Xylenes</b>	Yes	1,050 at 13 feet (DB-5)	2002; Monterey Apartments	Yes
<b>Lead</b>	Yes	9.48 at 20 feet (DP-7)	2002; Monterey Apartments	No
<b>Naphthalenes</b>	Yes	66 at 13 feet (DB-5)	2002; Monterey Apartments	Yes
<b>Chromium</b>	Yes	48.6 at 14 feet (DB-2)	2002; Monterey Apartments	Yes

### 7.4 Data Gaps

Figures 7, 8, and 9 present the historical and current lateral and vertical extent of known impacts. Additional delineation is needed in several Off-Property areas, as described below:

- Along the western edge of the Property, adjacent to the Del Roy Apartments, to evaluate the effectiveness of source removal.

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- East of the Property and north of the Del Roy Apartments, to delineate the eastern and northern extent of groundwater impacts and evaluate potential migration of impacts from up-gradient sources.
- South of the Monterey Apartments to delineate soil and groundwater impacts observed at MW-15, MW-18, and MW-19.
- South and west of the Bank of America lot, to delineate the southwestern extent of soil and groundwater impacts observed at MW-21.
- South of the Bungalows Apartments to delineate the southern extent of groundwater impacts.
- West of 1st Avenue West to understand the lateral extent of groundwater impacts observed south of the Monterey Apartments.

In addition, soil vapor in the Del Roy and Monterey Apartment buildings has not been sampled/evaluated since 2007. Therefore, an evaluation of current vapor quality and any potential vapor intrusion concerns at these properties is warranted.

## 8 PRELIMINARY CONCEPTUAL SITE MODEL

The CSM uses data collected during previous investigations and remediation activities to understand constituent occurrence, movement, and potential exposures at the site.

### 8.1 Source Characterization

As described in Sections 3 and 4, multiple investigations and remediation activities have been conducted at the site. However, additional investigation is required to fully delineate the nature and extent of the contamination associated with the former site activities.

The historical primary areas of impact at the site were associated with the service station activities located on the Property, with migration of impacts to the neighboring lots to the west/southwest. Any remaining service station features were removed as part of Property redevelopment. Secondary sources of petroleum impacts may include heating oil USTs located Off-Property (see Figure 4 and Section 2.2) that were not associated with the service station activities located on the Property. Chlorinated solvent impacts observed at the site are suspected to be from an upgradient source – likely a former dry cleaners located northeast of the Property, and not associated with the site.

Characterization and delineation of Off-Property impacts associated with the service station activities located on the Property will be included as part of the RI.

#### 8.1.1 Constituents of Concern

As previously described in Section 2, the Property was previously occupied by a gasoline service station that included USTs, pump islands, and hoists. COCs at the site were selected according to MTCA Table 830-1. Required Testing for Petroleum Releases (WAC 173-340-900) and previous analytical results.

- GRO
- DRO

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- HO
- BTEX
- Lead
- Arsenic
- Naphthalenes

In addition to these COCs for the site, Ecology has requested that off-property groundwater be analyzed for PCE, TCE, cis-1,2-DCE, vinyl chloride, 1,3,5-trimethylbenzene, and 1,2,4-trimethylbenzene. Per AO No. DE 16537, based on direction of groundwater flow to the southwest, chlorinated solvents are suspected to be from an upgradient source – likely a former dry cleaners located northeast of the Property.

## 8.2 Fate and Transport

### 8.2.1 General Fate and Transport Mechanism

As a generality (non-site-specific), petroleum hydrocarbons can exist in four phases in soils (unsaturated vadose zone and/or smear zone):

- *Residual phase.* Petroleum hydrocarbons are sorbed to soil or trapped within soil pore space.
- *Dissolved or aqueous phase.* Petroleum hydrocarbons are dissolved in water within soil pore space.
- *Vapor phase.* Petroleum hydrocarbons are volatilized into soil pore space.
- *Free phase.* Recoverable LNAPL.

Following a release, petroleum hydrocarbons are driven by gravity toward the water table and, depending on the quantity released, soil type, and depth to groundwater, may reach the groundwater table. As the hydrocarbons migrate toward the water table, residual LNAPL may be left behind in each of the phases (residual, dissolved, and free).

When residual-, dissolved-, or free-phase LNAPL comes into contact with groundwater, dissolution of the hydrocarbons to the groundwater can occur. If a release of petroleum hydrocarbons is large enough, LNAPL may overcome the capillary forces at the capillary fringe within smear zone soil and pool on top of the groundwater. When rainwater infiltrates subsurface soil in the area of a release, the water will flow downward through the soil and may preferentially follow high-conductivity soil lenses horizontally before reaching groundwater, carrying contaminants with it.

### 8.2.2 Site Fate and Transport Mechanism

Petroleum hydrocarbons encountered at the site are described below:

- *Residual phase.* Previous Off-Property soil investigations show that soil impacts at the site are delineated to the east; however, further delineation is warranted in the ROW north of Del Roy Apartments and the area south of Monterey Apartments and the Property. Additionally, soil impacts were identified in 2004 at SB-21/MW-21 in the parking lot of the Bank of America. These impacts do

not appear to be a contiguous western extension of the primary impacts; rather, the vertical and lateral extents of the historical soil impacts identified to the west of Monterey Apartments and 1st Avenue West are delineated by DB-9 (associated with MW-16), SB-32 (associated with MW-32), DB-10 (associated with MW-17), DB-8 (associated with MW-15), and DB-11, as well as by PES grab samples at SB-4 and SB-5. Further delineation and source characterization surrounding SB-21 (associated with MW-21) is warranted and is part of the RI. The eastern edge of the soil impacts is delineated vertically and laterally by soil sampling events conducted in 2017 and 2019 (SS1-P1, SS1-W1, and DB-2 [associated with MW-13], P4, P5, P6, and P7). Redevelopment plans for the Property include lot-line excavation, which is expected to remove soil impacts on the Property. Off-Property impacts will be further delineated as part of the RI.

- *Dissolved phase.* Groundwater analytical results from 2020 are generally consistent with the last four consecutive quarters completed in 2012 and 2013 and are described above in Section 5. Analytical data show that the historical groundwater impacts at the site are delineated to the west; however further delineation is warranted downgradient from the Bank of America and Bungalows Apartments (formerly Lindberg Apartments) and under 1st Avenue West, as well as north of Del Roy Apartment and east of the Property. The 2020 data indicate that groundwater concentrations at the site have decreased, but concentrations of COCs in exceedance of MTCA Method A CULs still exist near Del Roy and Monterey Apartments and nearby ROWs at wells MW-4, MW-18, MW-25, DPE-2, and VP-4. COC concentrations also exceeded the MTCA Method A CULs west of 1<sup>st</sup> Avenue West at wells MW-21, and MW-33.
- *Vapor phase.* Several sub-slab soil vapor and indoor air investigations were conducted at the site between 1990 and 2009 as discussed in Section 3.1. Indoor air investigations have focused on Monterey and Del Roy Apartments, though sub-slab sampling has been performed around the site. Multiple COCs were found to exceed MTCA Method B Sub-Slab and Indoor Air CULs during this time. The most recent Off-Property groundwater sampling from 2020 suggests that benzene concentrations continue to exceed MTCA Method B Sub-Slab and Indoor Air CULs near MW-4, MW-18, and MW-21 but concentrations of benzene in all other monitoring wells were either non-detect or were below MTCA Method B Sub-Slab and Indoor Air CULs. The 2020 Off-Property investigation determined soil vapor probes NV-1 and NV-2 are in fair condition.
- *Free phase.* LNAPL has not been observed Off-Property since 2006. Therefore, there is no risk of free phase migration at the site.

### 8.3 Exposure Pathways and Potential Receptors

#### 8.3.1 Potential Receptors

The primary human receptors at the site are residents of apartment buildings. Additional human receptors include workers and the general public at the businesses on the lots.

Current ecological receptors include site vegetation and animals that may pass through the site. A terrestrial ecological evaluation (TEE) is required when a hazardous substance is released to soil at a site [WAC 173-340-7490(2)]. In 2019, RGI determined that the COCs and land use at the site (Property and

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Off-Property) qualified for a TEE exclusion based on WAC 173-340-7491(1)(c)(i)] (RGI 2019). The TEE is included in Appendix G.

### 8.3.2 Potential Exposure Pathways

Potential exposure pathways for the site are:

- *Soil.* Exposure to soil via incidental ingestion, dermal contact, and inhalation of windblown dust and leaching to groundwater.
- *Groundwater.* Exposure to groundwater via direct or indirect ingestion, incidental ingestion, and dermal contact.
- *Soil vapor.* Exposure to soil vapor via inhalation (volatilization of petroleum impacts in groundwater and/or soil).

Potential exposure pathways are evaluated in the following sections.

#### 8.3.2.1 Potential Soil Exposure Pathways

Potential soil exposure pathways for the site include:

- *Exposure to soil via incidental ingestion, dermal contact, and inhalation of windblown dust.* Soil borings have shown that soils at the Site exceeding MTCA A CULs can be encountered between 1 to 35 ft bgs. Current human receptors (commercial workers, visitors, and residents) are not exposed to soils since soil impacts at the Site are paved with concrete and asphalt. Due to the surface cover and location of the impacted soil, no inhalation of dust, ingestion or dermal contact are possible. Exposure to soil via incidental ingestion, dermal contact, and inhalation of windblown dust is a complete pathway for future construction workers and others who may disrupt pavement. While future construction workers may be exposed to residual phase petroleum hydrocarbons through dermal contact or incidental ingestion when working at depth of approximately 1 ft bgs or deeper, the temporary nature of the exposure to residual phase petroleum hydrocarbons exceeding MTCA Method A CULs suggests that this exposure, when mitigated by adherence to measures stipulated in a contaminated materials management plan, would not result in unacceptable risk.
- *Soil leaching to groundwater.* COC concentrations in groundwater have been shown to be above Method A groundwater CULs. Therefore, the soil leaching to groundwater pathway is potentially complete.
- *Exposure to soil vapor via volatilization and inhalation.* – Remaining petroleum impacts that may volatilize to the surface are in soil encountered between 1 to 35 ft bgs. Current exposure to vapor phase is therefore considered a potential exposure pathway.

#### 8.3.2.2 Potential Groundwater Exposure Pathway

Off-Property groundwater samples were collected in third quarter 2020 and analyzed for GRO, DRO, HO, BTEX, EDB, naphthalenes, cPAHs, and total and dissolved lead. Prior to this sampling event, four consecutive quarters of sampling were completed in 2012 and 2013 (Table 5). Groundwater analytical data from all events showed concentrations above MTCA Method A CULs. Current human receptors

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(users of ROWs and off-property building and parking lots) are not exposed to groundwater. Groundwater beneath the site is not currently used as drinking water but is considered a potential future drinking water source. Therefore, the ingestion exposure pathway is potentially complete. While future construction workers may be exposed to the dissolved phase through dermal contact or incidental ingestion when working at depth of approximately 8 ft bgs or deeper, the temporary nature of the exposure to dissolved phase hydrocarbons exceeding MTCA Method A CULs suggests that this exposure, when mitigated by adherence to measures stipulated in a contaminated materials management plan, would not result in unacceptable risk.

### 8.3.2.3 Soil Vapor Potential Pathway

Detected subsurface soil vapor concentrations of site COCs during the last soil vapor investigation in 2009 were above applicable screening levels; however, groundwater concentrations during the 2020 groundwater sampling event were below MTCA Groundwater to Indoor Air Method B CULs in 27 groundwater monitoring wells. Benzene concentrations exceeded MTCA Method B Sub-Slab and Indoor Air CULs near MW-4, MW-18, and MW-21. Remaining petroleum impacts that may volatilize to the surface are in soil encountered between 1 and 35 ft bgs. Potential future human receptors might be exposed through inhalation to vapor phase coming from volatilization of petroleum hydrocarbons in soil or groundwater to indoor air at this location. Future construction workers may be exposed to the vapor phase petroleum hydrocarbons through inhalation when working at depths of 1 ft bgs or greater. Soil vapor testing near MW-21, as well as sub-slab vapor testing and indoor air monitoring at the Del Roy and Monterey Apartments is included in this RI to further evaluate the soil vapor potential pathway.

## 9 REMEDIAL INVESTIGATION SCOPE OF WORK & SAMPLING AND ANALYSIS PLAN

### 9.1 Utility Locate

At least 48 hours prior to conducting subsurface activities, the Washington 811 will be notified to mark known public utilities within the work areas. In addition, a private utility locating company will conduct a utility scan, including the use of ground-penetrating radar, to confirm that the proposed boring locations are clear of underground utilities or other features.

### 9.2 Soil Vapor Investigation

To evaluate the potential for soil vapor intrusion near the Queen Anne Arms building, soil vapor samples will be collected from existing soil vapor probes NV-1 and NV-2 at depths of 5 and 8.5 feet bgs. An additional soil vapor probe will be installed near MW-21 on the Bank of America lot. The methods and procedures to be used in this soil vapor assessment are in accordance with the Ecology's VI Guidance. The following sections describe the planned activities for the soil vapor assessment at the site.

Potential vapor intrusion pathways were examined during the development of this RI WP, a subsurface utility evaluation has been conducted using previous private utility location information, public utility locate information, and online street view and satellite imagery. The soil vapor probe will be installed as close as practicable to the building foundation. A site plan with the proposed soil vapor probe (SVP-1) location is provided on Figure 10.

Given the length of time since data was last collected, Arcadis will conduct an updated vapor intrusion risk evaluation for the Del Roy and Monterey Apartments buildings. This will include installation of a second vapor point in Monterey Apartments (MVP-2) using installation methods described in Section 9.2.2. Soil vapor samples will be collected using the methods described in Section 9.2.3, from the existing vapor points (DRVP-1 and DRVP-2) at the Del Roy Apartments building, as well as the existing (MVP-1) and newly installed vapor point (MVP-2) at the Monterey Apartments building.

An indoor air sample will also be collected at the basement level of each building, along with an ambient air sample outside each building. The soil vapor and indoor air sampling will be performed at least twice (6 months apart) to evaluate any seasonal variability.

Arcadis will also collect samples from three exterior soil vapor probes (NV-1, NV-2, and SVP-1) after the installation of SVP-1. The sampling will be performed at least twice (6 months apart) to evaluate any seasonal variability.

The following sections describe the planned activities for the soil vapor assessment at the site.

#### 9.2.1 Soil Vapor Sampling Probe Installation

To evaluate potential subsurface soil vapor concentrations, one soil vapor probe (SVP-1) will be installed at the approximate location proposed on Figure 10 near MW-21. The location may be adjusted in the field based on accessibility and proximity to identified subsurface utilities.

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The soil vapor probe boring will be advanced using hand auger methods to a target depth of 5.5 ft bgs. Soil will be continuously screened during boring advancement for soil characterization using the Unified Soil Classification System (USCS) and screening for VOCs using a calibrated photo-ionization detector (PID). Soil boring details will be captured in a boring log.

Once the boring is advanced to the target depth, a 6-inch stainless steel vapor probe screen, attached to a length of 0.25-inch-diameter Teflon (or equivalent) tubing, will be lowered to a centered depth of 5 ft bgs. A standard sand pack will be added to the boring from 5.5 to 4.5 ft bgs followed by 3 to 6 inches of dry granular bentonite to prevent potential moisture from infiltrating the sand pack. Hydrated bentonite will be added to within approximately 1 foot of the ground surface to allow for the installation of a traffic-rated vault in concrete. The soil vapor probe tubing will be sealed with a compression cap to allow for equilibration with the subsurface.

### 9.2.2 Sub-slab Vapor Point Installation

Vapor point inspection showed that DVP-1, DVP-2, and MVPT-1 are no longer present. MVP-1, DRVP-1, DRVP-2 are in good condition and will be used for sampling. Arcadis will install one additional sub-slab vapor probe in the Monterey Apartments building. The location will be chosen based on accessibility and proximity to identified subsurface utilities or other obstructions. The sub-slab vapor point will be stainless-steel vapor points from VaporPin®, installed using a rotary hammer drill to advance a hole through the building slab using a drilling guide.

### 9.2.3 Soil Vapor Sampling Methods

Sample trains will be constructed at each sample location to allow for purging and sample collection. Sampling trains will be assembled using 0.25-inch Teflon tubing (or equivalent) with stainless steel compression fittings and connected to the soil vapor and/or sub-slab probes. Prior to sampling, a volume of stagnant air will be purged from the soil vapor probes, sub-slab soil vapor points and sample train to ensure samples are representative of subsurface conditions. The volume purged from the sample locations is calculated based on the construction details of the existing soil vapor probe or sub-slab soil vapor point and a standard three-volume purge.

Soil vapor samples will be collected using 1-liter stainless steel passivated canisters individually cleaned and batch certified by a Washington-certified laboratory. Canisters will be connected to sampling regulators set to less than 200 milliliters per minute (mL/min). Canisters will be allowed to collect for up to 10 minutes or when the remaining vacuum reaches 5 inches of mercury (inHg), whichever is first. Soil vapor samples will be evaluated, and an additional sampling event (6 months apart) will be completed to evaluate potential temporal and seasonal variability.

#### 9.2.3.1 Quality Control Testing

Several quality control (QC) tests and sampling will be completed during the sampling events to ensure data quality. One duplicate sample will be collected from soil vapor samples. An equipment blank sample will also be collected from the passivated canisters and sample train materials (tubing and fittings) to ensure equipment cleanliness.

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Prior to soil vapor sampling, the sample train will be shut-in tested to evaluate the integrity of the sampling system. The sample train and soil vapor probe will be leak tested using a gaseous tracer (high purity helium) concurrently with purging and sampling to ensure no significant ambient air leakage had taken place. Purged soil vapor from purge volume testing will also be measured for helium as a pre-sampling leak detection procedure. Potential leakage will be calculated using the following formula:

$$\% \text{ Leakage} = \frac{\text{Helium Concentration in Sample or Purged Air (\%)}}{\text{Helium Concentration in Shroud (\%)}} \times 100$$

If leaks are observed in the field from shut-in or leak testing, fittings will be tightened or replaced, and the test will be repeated until no observable leaks are present.

### 9.2.3.2 Laboratory Analysis

Samples will be submitted to an Ecology-accredited laboratory under standard chain-of-custody procedures for analysis of the following analytes:

- TPH with carbon chain specific results: EC5-8 (aliphatics), EC9-12 (aliphatics), and EC9-10 (aromatics) by TPH Massachusetts Air Phase Hydrocarbons (MA-APH)
- BTEX and naphthalene by USEPA Method TO-15
- Oxygen, carbon dioxide, methane, and helium by ASTM International (ASTM) Method 1946.

### 9.2.4 Indoor and Outdoor Air Sampling

For the Del Roy and Monterey Apartments, one indoor air sample will be collected at the basement level of each building, along with one outdoor ambient air sample during each event.

Prior to indoor air sampling, Arcadis will conduct a building survey of each building to identify potential sources of petroleum hydrocarbon related volatile organic compounds (VOCs) in indoor air. The building survey will be completed in accordance the Arcadis Technical Guidance Instructions (TGIs; Appendix F) and the Ecology VI Guidance (Ecology 2016). Results of the survey will be documented in a photographic log to be included with the summary report submitted to Ecology. Chemical sources of petroleum hydrocarbon related VOCs will be removed or isolated prior to sampling, if practical.

Indoor air sampling will be completed using passivated canisters in accordance with the Arcadis TGIs (Appendix F), and the Ecology VI Guidance (Ecology 2016).

Indoor air samples will be collected at one location in each building, to be determined during the building survey. Indoor air samples will be collected using 6-liter stainless steel passivated canisters individually cleaned and 100 percent certified by a Washington certified laboratory. The intake of each canister will be placed 3 to 5 feet above the ground surface to represent assumed inhalation height. Canisters will be allowed to collect for up to 8 hours or stopped when the remaining vacuum reaches 5 inHg, whichever is first.

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One outdoor air sample location will be selected outside each building based on wind direction and accessibility. One outdoor air sample will be collected upwind of each building. Samples will be collected concurrently with indoor air samples using passivated canisters.

### 9.2.4.1 Laboratory Analysis

Canister samples will be submitted to a Washington certified laboratory under standard chain-of-custody procedures for analysis of the following petroleum related chemicals of concern:

- TPH with carbon chain specific results: EC5-8 (aliphatics), EC9-12 (aliphatics), and EC9-10 (aromatics) by TPH Massachusetts Air Phase Hydrocarbons (MA-APH)
- BTEX and naphthalene by USEPA Method TO-15
- Oxygen, carbon dioxide, methane, and helium by ASTM International (ASTM) Method 1946

## 9.3 Soil Investigation

### 9.3.1 Soil Boring Installation and Sampling

Soil borings MW-36 through MW-47 will be pre-cleared for any utilities by air knife, vacuum truck, and/or hand auger to a minimum depth of 5 ft bgs. After preclearance, boreholes will be advanced using direct-push technology or hollow stem auger drilling methods to a target depth of approximately 30-40 ft bgs. Soil borings may be advanced beyond the target depth if visible staining and/or elevated VOC screening impacts are observed to attempt to vertically delineate impacts.

During preclearance, soil samples will be collected by hand auger at approximately 2.5 ft bgs for lithologic logging in accordance with the Arcadis TGI for Soil Description (Appendix F) and screened for VOCs using a PID. During drilling, Arcadis will conduct lithologic logging in accordance with the Arcadis TGI for Soil Description (Appendix F) and soil samples will be collected at 2.5-foot intervals for VOC screening using a PID. Soil samples will be collected for laboratory analysis at 5-foot intervals and the total depth of boring. Additional soil samples may be collected for laboratory analysis based on field observations. Soil cuttings will be stored in Department of Transportation-approved 55-gallon drums.

Samples will be labeled, handled, and shipped using the procedures described in the Arcadis SOP for Sample Chain of Custody (Appendix F).

### 9.3.2 Soil Sample Analytical Methods

Soil samples will be placed in an ice-chilled cooler and sent to an Ecology-accredited laboratory under chain-of-custody protocol. Samples will be submitted for the following analyses:

- GRO analyzed by Ecology Northwest Method NWTPH-Gx
- DRO and HO analyzed by Ecology Northwest Method NWTPH-Dx
- BTEX by USEPA Method 8260
- Lead by USEPA Method 200.8

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Additionally, Polychlorinated Biphenyls (PCBs) will be analyzed by EPA Method 8082 in the soil boring located closest to the former waste oil UST if PCBs are detected in groundwater samples. Naphthalene will be analyzed by USEPA Method 8260 in soil samples taken from borings on the Del Roy Apartments, Monterey Apartments, Bungalows Apartments, and Alvena Vista Apartments properties.

### 9.4 Groundwater Investigation

#### 9.4.1 Monitoring Well Installation

Soil borings MW-36 through MW-47 will be converted to monitoring wells. Monitoring wells will be installed in accordance with the WAC by a licensed Washington driller. Monitoring wells will be installed to a target depth of 30 to 40 ft bgs. This target depth is based on depth to water measurements in wells that are closest to the proposed monitoring wells and historical boring logs. The total boring depths may exceed 40 ft bgs to obtain vertical soil delineation if field observations show visible staining and/or elevated VOC screening impacts. If soil borings are advanced beyond 40 ft bgs, they will be backfilled to 35 to 40 ft bgs with hydrated bentonite and monitoring wells will be installed and screened independent of total boring depth.

The following will also be completed in addition to the installation of 12 new wells (MW-36 through MW-47):

- Monitoring wells that have been observed as obstructed with debris (MW-3/VP-7, MW-11, and MW-19) will be decommissioned. Two of those wells will be replaced as new wells (MW-3A and MW-11A).
- Recovery well RW-5 was observed to be located within a vault and was determined to be unsafe to gauge or sample. RW-5 will be decommissioned in accordance with WAC 173-160-460.
- Monitoring well MP-1 will be decommissioned. A new monitoring well (MW-40) will be installed in the vicinity of MP-1.
- Monitoring well VP-2 and DPE-9 will be decommissioned. VP-2 will be replaced with a new well with a deeper screen (VP-2A).
- Monitoring well MW-12 was damaged during construction. This well will be repaired or replaced, depending on the status of the well.
- Monitoring well MW-24 that was damaged during construction will be properly decommissioned in accordance with WAC 173-160-460.
- Monitoring well MW-22 will be redeveloped since it was observed to not have a cap during the August 2020 assessment.
- Monitoring well MW-23 had an irremovable well cap. The well cap will be removed and if any damages to the well casing are observed, it will be repaired. The well will be redeveloped if needed.

Each well will be constructed of a 10- to 15-foot long, 2-inch-diameter Schedule 40 polyvinyl chloride (PVC) 0.010-inch slotted screen between depths of approximately 15 and 40 ft bgs, depending on depth of the boring. Blank PVC casing will be installed from the top of the screen to near surface grade. Sand filter pack will be placed in the annular space of the borehole from the bottom of the boring to approximately 1 foot above the top of the well screen, followed by transition seal consisting of hydrated

## REMEDIAL INVESTIGATION WORK PLAN

bentonite chips to approximately 2 ft bgs. The remaining open borehole annulus will be sealed with neat cement to near ground surface.

The wellheads will be completed at the ground surface with a locking well cap and traffic-rated bolt-down well vault. The vault will be installed slightly above the surrounding surface grade and finished with a concrete apron to provide positive relief away from the wellhead. Following the installation of monitoring wells, well location, ground surface, and top-of-casing elevations will be surveyed by a professional Washington-licensed land surveyor. Monitoring wells will be developed according to the Arcadis TGI for Monitoring Well Development (Appendix F). Well development will include surging the screen interval and purging fine-grained material out of the well.

### 9.4.2 Groundwater Monitoring and Analytical Methods

Arcadis will return to the site a minimum of 72 hours after the monitoring wells are developed. Groundwater samples will be collected from newly installed monitoring wells (MW-36 through MW-47), replacement wells (MW-3A, MW-11A, VP-2A) as applicable, restored wells (MW-12, MW-22/DPE-8, MW-23) as applicable, and wells from the existing monitoring well network. Groundwater samples will be collected using low-flow methods and in accordance with the methodology described in the TGI for Standard Groundwater Sampling for Monitoring Wells (Appendix F).

Arcadis will request access to sample the five additional wells installed in U-Park parking lot, Queen Anne Arms, and Tup Tim Thai properties (PESMW-1, PESMW-2, QAAMW-1, QTBMW-1, and QTBMW-2). As requested by Ecology, all the wells will be sampled during a single event<sup>6</sup>.

During purging, water quality parameters (dissolved oxygen, oxidation-reduction potential, pH, conductivity, and temperature) will be monitored. Groundwater elevation and sampling times will be recorded. Samples will be labeled, handled, and shipped using the procedures described in the Arcadis Standard Operating Procedure (SOP) for Sample Chain of Custody (Appendix F). Samples will be submitted to an Ecology-approved laboratory for the following analyses:

- GRO by Northwest Method NWTPH-Gx
- DRO and HO analyzed by Ecology Northwest Method NWTPH-Dx
- BTEX by USEPA Method 8021B
- Total and Dissolved Lead by USEPA Method 200.8
- Total and Dissolved Arsenic by USEPA Method 200.8
- Naphthalene, 1-methyl naphthalene, and 2-methyl naphthalene by USEPA Method 8021B

Additionally, PCBs will be analyzed by EPA Method 8082 in three groundwater monitoring wells located downgradient of the former waste oil UST and hydraulic hoists (MW-37, MW-38, MW-23).

In accordance with Ecology's letter dated March 19, 2021, groundwater samples collected during this event will also be sampled for the following constituents by USEPA Method 8260:

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<sup>6</sup> Ability to sample wells may be limited by access agreements and site constraints. Arcadis may not be able to access all wells as the site vicinity is ongoing major redevelopment.

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- PCE
- TCE
- cis-1,2-DCE
- Vinyl chloride
- 1,3,5-trimethylbenzene
- 1,2,4-trimethylbenzene

### 9.5 Quality Assurance and Quality Control Samples

The following quality assurance (QA) and QC samples will be collected during the event.

- One duplicate sample per 10 field samples. Duplicate samples will be sequentially numbered and submitted as blind samples to the analytical laboratory.
- One matrix spike/matrix spike duplicate per 20 field samples.
- One rinsate blank sample per day for decontaminated, non-dedicated sampling equipment, as needed.
- One trip blank per cooler containing samples that will be analyzed for BTEX and GRO.

### 9.6 Sample Nomenclature

Samples will be identified with a unique alpha-numeric nomenclature that will identify the type of sample and the location where the sample was collected. The following sample nomenclature will be used:

- Groundwater samples will be labeled with the monitoring well designation.
- Soil samples will be labeled with the monitoring well designation and the depth below ground surface from which the sample is collected.
- Soil vapor samples will be labeled with the soil vapor point designation.
- Indoor and outdoor air samples will be labeled with a location designation and the sample date
- QA samples will be given the following labels:
  - Blind duplicate samples will be given the prefix “DUP-“ and the date the sample was collected. For example, a blind duplicate for a groundwater sample collected on March 1, 2021 would be labeled DUP-1-030121.
  - Matrix spike and matrix spike duplicate samples will be labeled with the sample ID followed by an “MS” for matrix spike or “MSD” for matrix spike duplicate. For example, a matrix spike sample collected from MW-21 would be labeled MW-21-MS.
  - Rinsate blank samples will be given the prefix “RS-“ and the date the sample was collected. For example, a rinsate blank for decontaminated, non-dedicated sampling equipment collected on March 1, 2021 would be labeled RS-1-030121.

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- Trip blank samples will be given the prefix “TB-“ followed by the date of the shipment. For example, a trip blank sample collected on March 1, 2021 would be labeled TB-030121.

### 9.7 Sample Labeling, Handling, and Chain of Custody

Sampling handling and packaging will be performed in accordance with the procedures outlined in the SOP for Sample Chain of Custody (Appendix F). All sample container labels will be completed with the following information:

- Project name and project number
- Sample designation
- Name or initials of the sampler
- Date and time of sample collection

### 9.8 Equipment Decontamination and Residuals Management

Equipment decontamination will be performed using the procedures outlined in the TGI for Field Equipment Decontamination (Appendix F). Site personnel will perform decontamination of all equipment prior to leaving the site and between sample locations.

All water, decontamination liquids, personal protective equipment, and other waste generated during the field sampling activities will be managed in accordance with applicable local, state, and federal requirements.

Waste profiles will be generated for each waste stream to be transported off site as required by the selected disposal facility. Disposal characterization samples will be collected as needed to meet facility requirements.

## 10 QUALITY ASSURANCE PROJECT PLAN (QAPP)

### 10.1 Field Instruments and Equipment

Prior to field sampling, each piece of field equipment will be inspected to confirm that it is operational and calibrated in accordance with the manufacturer’s instruction manual or the analytical method used. All meters that require charging or batteries will be fully charged or have fresh batteries. If instrument servicing is required, the maintenance arrangements will be made for timely service. Field instruments will be maintained according to the instructions provided by the manufacturer. Logbooks for each piece of equipment will be maintained in project records.

### 10.2 Laboratory Instruments and Equipment

Laboratory instrument and equipment documentation procedures include details of any observed problems, corrective measure(s), routine maintenance, and instrument repair (including information regarding the repair and the individual who performed the repair). Preventive maintenance of laboratory

## REMEDIAL INVESTIGATION WORK PLAN

equipment generally will follow the guidelines recommended by the manufacturer. A malfunctioning instrument will be repaired immediately by in-house laboratory staff or through a service call from the manufacturer. Paperwork associated with service calls and preventive maintenance calls will be kept on file by the laboratory.

The laboratory manager will be responsible for the routine maintenance of instruments used in the particular laboratory. Any routine preventive maintenance carried out is logged into the appropriate logbooks. The frequency of routine maintenance is dictated by the nature of samples being analyzed, the requirements of the method used, and/or the judgment of the laboratory manager.

### 10.3 Data Management

The purpose of data management is to confirm that the necessary data are accurate and readily accessible to meet the analytical and reporting objectives of the project. The field activities will include a significant number of samples that require a structured, comprehensive, and efficient program for management of data.

Data management procedures will be employed to efficiently process the information collected, such that the data are readily accessible and accurate.

#### 10.3.1 Field Data Management

Field activities require consistent documentation and accurate record keeping. Complete and accurate record keeping will be maintained, including field notes and chain-of-custody forms. Field notes will include detailed observations and measurements made during the site work. Field notes will be dated and signed. Erroneous entries on paper field notes will be corrected by a single line strike out of the original entry, initialing, dating, and then documenting the proper information. Certain media sample locations will be surveyed to accurately record their locations. The survey crew will use its own field notes and will supply the sampling location coordinates to Arcadis.

Chain-of-custody forms will be used to document and track sample possession from time of collection to the time of disposal. A chain-of-custody form will accompany each field sample collected, and one copy of the form will be filed in the field office.

All paper field documentation will be scanned and saved to the Arcadis electronic project folder. Field documentation will be submitted electronically to Ecology as an attachment to quarterly progress reports. Hard copies will be stored in the Arcadis Seattle, Washington, office.

#### 10.3.2 Analytical Data Management and Data Validation

Sample log in documentation received from the laboratory will be reviewed and compared against the chain-of-custody to ensure correct analyses are performed. Analytical data packages received from the laboratory will be reviewed and compared against the information on the chain-of-custody form to confirm that the correct analyses were performed for each sample and that results for all samples submitted for analysis were received. Any discrepancies noted will be promptly corrected in coordination with the laboratory.

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In accordance with the AO, data validation during this project will be performed consistent with USEPA Stage 2B criteria, which involves completeness and compliance checks of sample receipt conditions and sample-related and instrument-related QC results. Data validation on this project will be completed by an independent third party.

Data collected as part of these activities will be uploaded in Ecology's EIM database under EIM identification number PMART005 within 30 days of analytical data validation.

### 10.4 Corrective Action

Corrective actions are required when field or analytical data are not within the objectives specified in this QAPP. Corrective actions include procedures to promptly investigate, document, evaluate, and correct data collection and/or analytical procedures. All corrective actions for situations including analytical or field equipment malfunctions, nonconformance or noncompliance with the QA requirements, or changes to the sampling procedures will be documented with the project records and maintained in the project file. All corrective action procedures must be initiated prior to continuing with the field or analytical procedure.

### 10.5 Laboratory Reports

The laboratory will maintain QA records related to analyses, QC, and corrective action. This information will be made available upon request. Routine reporting will include documenting all internal QC checks performed for the project.

### 10.6 Management of Investigation-Derived Wastes

Soil cuttings, purged groundwater, and equipment rinse water generated during investigation activities will be contained in Department of Transportation-approved 55-gallon steel drums. The investigation-derived waste (IDW) will be labeled and stored on site pending disposal. Following receipt of laboratory analytical data, the soil and water IDW will be transported for appropriate disposal at a certified facility.

### 10.7 Proposed Schedule

Following completion of the boring installations and sampling described above, Arcadis will prepare a technical report for submittal to Ecology. This RI report will document the results of the RI, and include the following, as described in Ecology's RI Checklist Guidance (Ecology 2020d):

- Introduction: General Site Information, Site History, Site Use
- Field Investigations: Previous Environmental Investigations, Site Characterization, Sampling/Analytical Results
- Conceptual Site Model
- Proposed Cleanup Standards, Terrestrial Ecological Evaluation
- Summary, Conclusions, and Recommendations
- Figures including Vicinity Map, Site Map, Conceptual Site Model

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- Data tables, well logs, laboratory reports

Arcadis estimates that this investigation will be conducted within 180 days of receiving Ecology approval of this RI WP, or agreed upon revisions of this RI WP, as set forth in the AO, contingent on access and permitting, and assuming it is safe to do so.

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# TABLES

Table 1  
 Shallow Soil Vapor Analytical Results  
 Former Texaco Service Station No. 211577  
 631 Queen Anne Avenue North  
 Seattle, WA 98109



Location ID	Alternate ID	Sample Depth (ft bgs)	Sample Date	Parcel	Sample Location	Benzene (µg/m³)	Toluene (µg/m³)	Ethylbenzene (µg/m³)	m,p-Xylenes (µg/m³)	o-Xylene (µg/m³)	Total Xylenes (µg/m³)	VTPH (µg/m³)	1,1,1-Trichloroethane (µg/m³)	1,3-Butadiene (µg/m³)	1,2,4-Trimethylbenzene (µg/m³)	1,1-Dichloroethene (µg/m³)	1,2-Dichloroethene (total) (µg/m³)	1,3,5-Trimethylbenzene (µg/m³)	Bromo-methane (µg/m³)	1,4-Dioxane (µg/m³)	
<b>MTCA Method B Sub-Slab Soil Vapor Screening Level (µg/m³)³</b>						<b>11</b>	<b>76,000</b>	<b>15,000</b>	<b>--</b>	<b>--</b>	<b>1,500</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>910</b>	<b>3,000</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	
<b>PROPERTY VAPOR POINTS</b>																					
19	--	5	4/2/91	387990-0425	Property	1.3 J	2.8 J	25 J	--	--	12	< 250	--	--	--	--	--	--	--	--	
21	--	5	4/3/91	387990-0425	Property	>90,000 <sup>4</sup>	>12,000 <sup>4</sup>	1,300	--	--	3,300	>650,000 <sup>4</sup>	--	--	--	--	--	--	--	--	
22	--	--	--	387990-0425	Property	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
<b>OFF-PROPERTY VAPOR POINTS</b>																					
2	--	12	3/25/91	3879900490	Monterey Apartments	360 J	< 2,000	< 400	--	--	< 800	100,000	--	--	--	--	--	--	--	--	
5	--	5	3/27/91	3879900530	Queen Anne Arms Apartments	<100	< 100	< 100	--	--	< 200	5,000	--	--	--	--	--	--	--	--	
5	--	6	4/2/91	3879900530	Queen Anne Arms Apartments	28 J	2 J	2 J	--	--	8	< 250	--	--	--	--	--	--	--	--	
6	--	6	3/27/91	3879900435	Bungalows Apartments	<100	< 500	< 100	--	--	60 J	50,000	--	--	--	--	--	--	--	--	
6	--	5	3/29/91	3879900435	Bungalows Apartments	5.3	12	5.3	--	--	18	750	--	--	--	--	--	--	--	--	
7	--	3	3/28/91	3879900640	U-Park	<400	< 40	< 400	--	--	< 80	2,000	--	--	--	--	--	--	--	--	
7	--	4.5	4/2/91	3879900640	U-Park	3 J	2.8 J	3.8 J	--	--	13	< 250	--	--	--	--	--	--	--	--	
9	--	3	3/28/91	3879900640	North of West Roy Street across U-Park	16 J	18 J	8 J	--	--	33 J	1,000	--	--	--	--	--	--	--	--	
10	Base Station	4	3/28/91	3879900640	U-Park	22	30	51	--	--	250	2,000	--	--	--	--	--	--	--	--	
10	Base Station	4	4/1/91	3879900640	U-Park	< 20	< 20	< 20	--	--	24 J	< 1,000	--	--	--	--	--	--	--	--	
10	Base Station	4	4/2/91	3879900640	U-Park	6 J	< 20	< 20	--	--	24 J	< 1,000	--	--	--	--	--	--	--	--	
10	Base Station	4	4/4/91	3879900640	U-Park	55	110 J	170	--	--	640	23,000	--	--	--	--	--	--	--	--	
10	Base Station	4	4/4/91	3879900640	U-Park	110	390 J	140	--	--	890	6,000	--	--	--	--	--	--	--	--	
10	Base Station	4	4/5/91	3879900640	U-Park	41	25	59	--	--	320	2,000	--	--	--	--	--	--	--	--	
11	--	5	3/28/91	3879900530	Queen Anne Arms Apartments	9 J	45	35	--	--	160	2,000	--	--	--	--	--	--	--	--	
13	--	5	3/29/91	3879900500	Del Roy Apartments - ROW	6	42	10	--	--	48	3,800	--	--	--	--	--	--	--	--	
14	--	5	3/29/91	3879900640	U-Park	<5	3.5 J	4.5 J	--	--	20	< 250	--	--	--	--	--	--	--	--	
17	--	5	4/1/91	3879900490	Monterey Apartments	42	30	37	--	--	85	5,500	--	--	--	--	--	--	--	--	
20	--	5.5	4/2/91	3879900540	Bank of America	<5	2.3 J	< 5	--	--	5 J	< 250	--	--	--	--	--	--	--	--	
25	--	--	--	3879900640	U-Park	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
DRVP-1	--	0	1/28/09	3879900500	Del Roy Apartments	<0.22	<0.10	<0.12	<0.24	<0.12	--	--	<0.76	--	<0.68	--	<0.56	<0.68	--	<0.50	
DRVP-1	DRVP-1 Duplicate	0	1/28/09	3879900500	Del Roy Apartments	<0.22	0.12	<0.12	<0.24	<0.12	--	--	<0.76	--	<0.68	--	<0.56	<0.68	--	<0.50	
DRVP-1	--	0	8/19/09	3879900500	Del Roy Apartments	<0.24	<0.11	<0.13	<0.26	<0.13	--	--	1.8	--	<0.75	--	<0.62	<0.75	--	1.4	
DRVP-2	--	0	1/28/09	3879900500	Del Roy Apartments	<0.23	0.64	<0.12	<0.25	<0.12	--	--	<0.78	--	<0.71	--	<0.58	<0.71	--	<0.52	
DRVP-2	--	0	8/19/09	3879900500	Del Roy Apartments	0.33	1.1	0.29	0.61	0.27	--	--	<0.77	--	<0.69	--	<0.57	<0.69	--	<0.51	
DVP-1	DVP-1	1	9/12/02	3879900490	Monterey Apartments	0.554	--	13.3	--	--	49.7	1,020	--	--	--	--	--	--	--	--	
DVP-1	DVP-1	6	9/12/02	3879900490	Monterey Apartments	7.72	84.6	41.9	--	--	175	--	--	--	--	--	--	--	--	--	
DVP-2	DVP-2	1	9/12/02	3879900490	Monterey Apartments	<0.3000	<0.500	<0.500	--	--	<0.100	<5.00	--	--	--	--	--	--	--	--	
DVP-2	DVP-2	6	9/12/02	3879900490	Monterey Apartments	14.0	157	112	--	--	523	4,980	--	--	--	--	--	--	--	--	
DVP-2	DVP-2 Duplicate	6	9/12/02	3879900490	Monterey Apartments	10.7	101	75.4	--	--	370	4,590	--	--	--	--	--	--	--	--	
MVPT-1	MVPT-1	0	1/28/09	3879900490	Monterey Apartments	<0.23	0.82	<0.12	<0.25	<0.12	--	--	0.89	--	<0.71	--	<0.58	<0.71	--	<0.52	
MVPT-1	MVPT-1 Duplicate	0	1/28/09	3879900490	Monterey Apartments	<0.23	0.77	<0.12	<0.25	<0.12	--	--	<0.78	--	<0.71	--	<0.58	<0.71	--	<0.52	
MVPT-1	MVPT-1 Duplicate	0	1/28/09	3879900490	Monterey Apartments	<0.23	0.76	<0.12	<0.25	<0.12	--	--	0.88	--	<0.71	--	<0.58	<0.71	--	<0.52	
MVPT-1	MVPT-1	0	8/19/09	3879900490	Monterey Apartments	0.40	0.54	<0.13	<0.25	<0.13	--	--	<0.80	--	<0.72	--	<0.59	<0.72	--	<0.53	
MVP-1	MVP-1	0	1/28/09	3879900490	Monterey Apartments	<0.23	0.13	<0.13	<0.25	<0.13	--	--	<0.80	--	<0.72	--	<0.59	<0.72	--	<0.53	
MVP-1	MVP-1	0	8/19/09	3879900490	Monterey Apartments	0.31	0.65	<0.13	<0.25	<0.13	--	--	<0.80	--	<0.72	--	<0.59	<0.72	--	<0.53	
MVP-1	MVP-1 Duplicate	0	8/19/09	3879900490	Monterey Apartments	<0.24	0.37	0.13J3	0.26	<0.13	--	--	<0.81	--	<0.73	--	<0.60	<0.73	--	<0.54	
NV-1-5	--	5	4/7/06	3879900530	U-Park	<0.38	0.63	<0.52	<0.52	<0.52	--	--	<0.65	<1.3	--	--	--	--	<0.47	--	
NV-1-5	--	5	8/12/05	3879900530	U-Park	<0.42	34.0	0.69	3.4	0.97	--	--	<0.71	<1.4	--	--	--	--	<0.51	--	
NV-1-8	--	8	8/12/05	3879900530	U-Park	<0.42	41	<0.57	1.4	<0.57	--	--	<0.71	<1.4	--	--	--	--	<0.51	--	
NV-1-8	NV-1-8 Duplicate	8	8/12/05	3879900530	U-Park	<0.42	40	<0.57	1.3	<0.57	--	--	<0.71	<1.4	--	--	--	--	<0.51	--	
NV-1-8	--	8	4/7/06	3879900530	U-Park	<0.41	1	<0.56	<0.56	<0.56	--	--	<0.70	<1.4	--	--	--	--	0.68	--	
NV-1-8	NV-1-8 Duplicate	8	4/7/06	3879900530	U-Park	<0.40	1.6	<0.55	<0.55	<0.55	--	--	<0.69	<1.4	--	--	--	--	<0.49	--	
NV-2-10	--	10	8/12/05	3879900530	U-Park	<0.41	11	<0.56	<0.56	<0.56	--	--	1.1	<1.4	--	--	--	--	<0.50	--	
NV-2-10	--	10	4/7/06	3879900530	U-Park	<6.3	<7.4	<8.6	<8.6	<8.6	--	--	<11	<22	--	--	--	--	<7.6	--	
NV-2-10	NV-2-10 L Duplicate	10	4/7/06	3879900530	U-Park	<3.8	<4.4	<5.1	<5.1	<5.1	--	--	<6.4	<13	--	--	--	--	<4.6	--	
NV-2-15	--	15	8/12/05	3879900530	U-Park	0.49	16	<0.56	0.75	<0.56	--	--	1.2	<1.4	--	--	--	--	<0.50	--	
NV-2-15	NV-2-15 Duplicate	15	8/12/05	3879900530	U-Park	0.74	17	<0.56	0.95	<0.56	--	--	1.2	<1.4	--	--	--	--	<0.50	--	
NV-2-15	NV-2-15 L	15	8/12/05	3879900530	U-Park	0.82	16	<0.56	0.92	<0.56	--	--	1.2	<1.4	--	--	--	--	<0.50	--	
NV-2-15	--	15	4/7/06	3879900530	U-Park	<2.7	<3.2	<3.7	<3.7	<3.7	--	--	<4.7	11	--	--	--	--	<3.3	--	
NV-2-15	NV-2-15 Duplicate	15	4/7/06	3879900530	U-Park	<2.6	10	<3.5	<3.5	<3.5	--	--	5.3	<8.8	--	--	--	--	<3.1	--	

Table 1  
 Shallow Soil Vapor Analytical Results  
 Former Texaco Service Station No. 211577  
 631 Queen Anne Avenue North  
 Seattle, WA 98109



Location ID	Alternate ID	Sample Depth (ft bgs)	Sample Date	Parcel	Sample Location	Benzene (µg/m³)	Toluene (µg/m³)	Ethylbenzene (µg/m³)	m,p-Xylenes (µg/m³)	o-Xylene (µg/m³)	Total Xylenes (µg/m³)	VTPH (µg/m³)	1,1,1-Trichloroethane (µg/m³)	1,3-Butadiene (µg/m³)	1,2,4-Trimethylbenzene (µg/m³)	1,1-Dichloroethene (µg/m³)	1,2-Dichloroethene (total) (µg/m³)	1,3,5-Trimethylbenzene (µg/m³)	Bromo-methane (µg/m³)	1,4-Dioxane (µg/m³)
NV-2-5	--	5	8/12/05	3879900530	U-Park	<0.41	8.3	<0.56	<0.56	<0.56	--	--	<0.70	<1.4	--	--	--	--	<0.50	--
NV-2-5	--	5	4/7/06	3879900530	U-Park	<7.7	<9	<10	<10	<10	--	--	<13	<26	--	--	--	--	<9.3	--
SG01	--	4 - 5	1/16-20/90	3879900500	Del Roy Apartments	150,000	13,000	22,000	--	--	41,000 J	--	--	--	18,000	< 8,200	--	24,000	--	--
SG02	--	4 - 5	1/16-20/90	3879900490	Monterey Apartments	110 J	< 27	24	--	--	58	--	--	--	55	< 17	--	130 J	--	--
SG03	--	4 - 5	1/16-20/90	3879900490	Monterey Apartments - ROW	25 J	< 18	< 18	--	--	< 18	--	--	--	< 13	< 18	--	30	--	--
SG04	--	4 - 5	1/16-20/90	3879900500	Del Roy Apartments - ROW	<18 J	< 18	< 18	--	--	< 18	--	--	--	19	8 J	--	52	--	--
SG05	--	4 - 5	1/16-20/90	3879900435	Bungalows Apartments	890,000 J	580,000 J	48,000 J	--	--	222,000 J	--	--	--	< 9,200	< 9,200	--	< 9,200	--	--
SG07	--	Ambient	1/16-20/90	3879900500	Del Roy Apartments - ROW (same as SG04)	<13 J	< 13	< 13	--	--	< 13	--	--	--	< 13	< 13	--	< 13	--	--
<b>SITE VICINITY VAPOR POINTS</b>																				
1	--	8	3/26/92	Outside Figures Extent	Valley St. and 1st Ave N.	40 J	< 500	60 J	--	--	250	50,000	--	--	--	--	--	--	--	--
3	--	8	3/26/92	Outside Figures Extent	W. Roy St. and 1st Ave. N.	<200	<1,000	70 J	--	--	< 400	160,000	--	--	--	--	--	--	--	--
4	--	8	3/26/92	Outside Figures Extent	Former Unocal Facility; W. Roy St. and Queen Anne Ave. N.	<400	< 40	< 400	--	--	< 800	60,000	--	--	--	--	--	--	--	--
8	--	5.5	3/28/91	Outside Figures Extent	1st Ave. W. and Queen Anne Pl.	4 J	8 J	4 J	--	--	25	500	--	--	--	--	--	--	--	--
12	--	5	3/29/91	3880400045	North of West Roy Street across Property	7	6	8	--	--	34	250	--	--	--	--	--	--	--	--
15	--	5	4/1/91	Outside Figures Extent	W. Roy St. and Queen Anne Ave. N.	<5	< 2.3 J	4.5 J	--	--	13	2,500	--	--	--	--	--	--	--	--
16	--	4	4/1/91	Outside Figures Extent	West of Property, vicinity of St. Paul's Episcopal Church	<5	5.3 J	2.8 J	--	--	9.8 J	500	--	--	--	--	--	--	--	--
18	--	8	4/2/91	Outside Figures Extent	Former Unocal Facility; W. Roy St. and Queen Anne Ave. N.	3.5 J	4.3 J	2.5 J	--	--	8.5 J	< 25	--	--	--	--	--	--	--	--
23	--	6	4/5/91	3879900580	Uptown Studios Apartments - ROW	4.8 J	38	22	--	--	110 J	1,300	--	--	--	--	--	--	--	--
24	--	5	4/5/91	3879900590	Chandler Hall Apartments - ROW	14	190	180	--	--	59 J	1,500	--	--	--	--	--	--	--	--
SG06	--	4 - 5	1/16-20/90	Outside Figures Extent	Queen Anne Ave. N. / W. Queen Anne Drive Way - ROW	400 J	400,000 J	< 200	--	--	59 J	--	--	--	< 200	< 200	--	55	--	--

See Notes on last page of Table 1.

Table 1  
 Shallow Soil Vapor Analytical Results  
 Former Texaco Service Station No. 211577  
 631 Queen Anne Avenue North  
 Seattle, WA 98109



Location ID	Alternate ID	Sample Depth (ft bgs)	Sample Date	Parcel	Sample Location	2-Butanone (Methyl Ethyl Ketone) (µg/m³)	4-Ethyl-toluene (µg/m³)	Carbon tetrachloride (µg/m³)	4-Methyl-2-Pentanone (Methyl Isobutyl Ketone) (µg/m³)	Acetone (µg/m³)	Bromodichloro-methane (µg/m³)	Carbon disulfide (µg/m³)	Chloroform (Trichloro-methane) (µg/m³)	Chloro-methane (µg/m³)	Dichlorodifluoro-methane (CFC-12) (µg/m³)	Cyclohexane (µg/m³)	Ethanol (µg/m³)	Hexane (µg/m³)	Isopropyl Alcohol <sup>2</sup> (µg/m³)
<b>MTCA Method B Sub-Slab Soil Vapor Screening Level (µg/m³)<sup>3</sup></b>						<b>76,000</b>	<b>--</b>	<b>14</b>	<b>46,000</b>	<b>--</b>	<b>2</b>	<b>11,000</b>	<b>4</b>	<b>1,400</b>	<b>1,500</b>	<b>--</b>	<b>--</b>	<b>11,000</b>	<b>--</b>
<b>PROPERTY VAPOR POINTS</b>																			
19	--	5	4/2/91	387990-0425	Property	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21	--	5	4/3/91	387990-0425	Property	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22	--	--	--	387990-0425	Property	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>OFF-PROPERTY VAPOR POINTS</b>																			
2	--	12	3/25/91	3879900490	Monterey Apartments	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5	--	5	3/27/91	3879900530	Queen Anne Arms Apartments	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5	--	6	4/2/91	3879900530	Queen Anne Arms Apartments	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6	--	6	3/27/91	3879900435	Bungalows Apartments	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6	--	5	3/29/91	3879900435	Bungalows Apartments	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7	--	3	3/28/91	3879900640	U-Park	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7	--	4.5	4/2/91	3879900640	U-Park	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9	--	3	3/28/91	3879900640	North of West Roy Street across U-Park	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	Base Station	4	3/28/91	3879900640	U-Park	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	Base Station	4	4/1/91	3879900640	U-Park	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	Base Station	4	4/2/91	3879900640	U-Park	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	Base Station	4	4/4/91	3879900640	U-Park	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	Base Station	4	4/4/91	3879900640	U-Park	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	Base Station	4	4/5/91	3879900640	U-Park	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11	--	5	3/28/91	3879900530	Queen Anne Arms Apartments	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13	--	5	3/29/91	3879900500	Del Roy Apartments - ROW	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14	--	5	3/29/91	3879900640	U-Park	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17	--	5	4/1/91	3879900490	Monterey Apartments	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20	--	5.5	4/2/91	3879900540	Bank of America	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25	--	--	--	3879900640	U-Park	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DRVP-1	--	0	1/28/09	3879900500	Del Roy Apartments	1.2	<0.68	--	<0.57	2.9	<0.93	4.8	<0.68	<0.29	2.6	<0.48	<1.3	<0.49	<1.7
DRVP-1	DRVP-1 Duplicate	0	1/28/09	3879900500	Del Roy Apartments	0.58	<0.68	--	<0.57	<1.6	<0.93	<2.2	<0.68	<0.29	2.5	<0.48	<1.3	<0.49	<1.7
DRVP-1	--	0	8/19/09	3879900500	Del Roy Apartments	1.0	<0.75	--	<0.62	3.4	<1.0	<2.4	<0.74	<0.31	2.2	<0.52	<1.4	<0.54	<1.9
DRVP-2	--	0	1/28/09	3879900500	Del Roy Apartments	0.79	<0.71	--	<0.59	2.4	<0.96	<2.2	<b>4.4</b>	<0.30	2.6	<0.50	<1.4	0.65	<1.8
DRVP-2	--	0	8/19/09	3879900500	Del Roy Apartments	5.1	<0.69	--	2.2	5.9	0.94	10	<b>6.4</b>	<0.29	<0.70	<0.48	10	<0.50	2.8
DVP-1	DVP-1	1	9/12/02	3879900490	Monterey Apartments	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DVP-1	DVP-1	6	9/12/02	3879900490	Monterey Apartments	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DVP-2	DVP-2	1	9/12/02	3879900490	Monterey Apartments	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DVP-2	DVP-2	6	9/12/02	3879900490	Monterey Apartments	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DVP-2	DVP-2 Duplicate	6	9/12/02	3879900490	Monterey Apartments	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MVPT-1	MVPT-1	0	1/28/09	3879900490	Monterey Apartments	1.4	<0.71	--	<0.59	8.4	<0.96	<2.2	<b>12</b>	<0.30	1.8	<0.50	<1.4	<0.51	<1.8
MVPT-1	MVPT-1 Duplicate	0	1/28/09	3879900490	Monterey Apartments	0.67	<0.71	--	<0.59	1.8	<0.96	<2.2	<b>12</b>	<0.30	1.6	<0.50	<1.4	<0.51	<1.8
MVPT-1	MVPT-1 Duplicate	0	1/28/09	3879900490	Monterey Apartments	1.2	<0.71	--	<0.59	6.9	<0.96	<2.2	<b>12</b>	<0.30	1.7	<0.50	1.5	<0.51	<1.8
MVPT-1	MVPT-1	0	8/19/09	3879900490	Monterey Apartments	0.57	<0.72	--	<0.60	2.3	<0.98	<2.3	<b>11</b>	<0.30	1.7	<0.50	<1.4	<0.51	<1.8
MVP-1	MVP-1	0	1/28/09	3879900490	Monterey Apartments	3.7	<0.72	--	<0.60	7.3	<0.98	<2.3	<0.71	<0.30	2.6	<0.50	2.4	<0.51	<1.8
MVP-1	MVP-1	0	8/19/09	3879900490	Monterey Apartments	0.76	<0.72	--	<0.60	2.5	<0.98	2.9	<0.71	<0.30	1.7	<0.50	<1.4	<0.51	<1.8
MVP-1	MVP-1 Duplicate	0	8/19/09	3879900490	Monterey Apartments	3.6	<0.73	--	0.89	7.8	<1.0	8.8	<0.73	<0.31	1.7	<0.51	8.4	<0.52	3.4
NV-1-5	--	5	4/7/06	3879900530	U-Park	<1.8	--	<0.76	--	53	--	<1.9	<0.58	0.40	1.5	<2.1	2.4	<2.1	1,500 E
NV-1-5	--	5	8/12/05	3879900530	U-Park	9.9	--	<0.82	--	7.4	--	15	2.9	0.50	1.4	<2.2	2.2	<2.3	2.1
NV-1-8	--	8	8/12/05	3879900530	U-Park	12	--	0.83	--	5.7	--	6.9	1.5	0.38	0.96	<2.2	2.6	<2.3	56
NV-1-8	NV-1-8 Duplicate	8	8/12/05	3879900530	U-Park	12	--	0.86	--	8.1	--	6.7	1.9	0.36	1.1	<2.2	1.7	<2.3	41
NV-1-8	--	8	4/7/06	3879900530	U-Park	3.7	--	<0.81	--	76	--	<2	<0.63	0.48	0.95	<2.2	2.6	<2.3	1,800 E
NV-1-8	NV-1-8 Duplicate	8	4/7/06	3879900530	U-Park	<1.8	--	<0.79	--	60	--	<2	<0.62	0.54	1.1	<2.2	1.8	<2.3	1,700 E
NV-2-10	--	10	8/12/05	3879900530	U-Park	9.0	--	1.1	--	10	--	52	<0.63	0.64	1.2	3.9	1.8	5.7	1.6
NV-2-10	--	10	4/7/06	3879900530	U-Park	<29	--	<12	--	230	--	<31	<b>&lt;9.6</b>	<4.1	<9.7	<34	<18	<35	3,300 E
NV-2-10	NV-2-10 L Duplicate	10	4/7/06	3879900530	U-Park	<17	--	<7.4	--	250	--	<18	<5.8	<2.4	<5.8	<20	12	<21	3,800 E
NV-2-15	--	15	8/12/05	3879900530	U-Park	11	--	1.6	--	17	--	10	<0.63	0.27	1.5	<2.2	3.1	3.5	1.7
NV-2-15	NV-2-15 Duplicate	15	8/12/05	3879900530	U-Park	10	--	1.7	--	12	--	10	<0.63	<0.27	1.2	<2.2	4.4	3.6	120
NV-2-15	NV-2-15 L	15	8/12/05	3879900530	U-Park	10	--	1.5	--	12	--	7.7	<0.63	<0.27	0.68	<2.2	4.2	3.4	120
NV-2-15	--	15	4/7/06	3879900530	U-Park	<13	--	<5.4	--	540	--	9.6	<b>&lt;4.2</b>	<1.8	6.5	<14	<8.1	<15	<10
NV-2-15	NV-2-15 Duplicate	15	4/7/06	3879900530	U-Park	<12	--	<5	--	450	--	<12	<b>&lt;3.9</b>	<1.6	6.2	<14	<24	<14	1,600 E

Table 1  
 Shallow Soil Vapor Analytical Results  
 Former Texaco Service Station No. 211577  
 631 Queen Anne Avenue North  
 Seattle, WA 98109



Location ID	Alternate ID	Sample Depth (ft bgs)	Sample Date	Parcel	Sample Location	2-Butanone (Methyl Ethyl Ketone) (µg/m³)	4-Ethyl-toluene (µg/m³)	Carbon tetrachloride (µg/m³)	4-Methyl-2-Pentanone (Methyl Isobutyl Ketone) (µg/m³)	Acetone (µg/m³)	Bromodichloro-methane (µg/m³)	Carbon disulfide (µg/m³)	Chloroform (Trichloro-methane) (µg/m³)	Chloro-methane (µg/m³)	Dichlorodifluoro-methane (CFC-12) (µg/m³)	Cyclohexane (µg/m³)	Ethanol (µg/m³)	Hexane (µg/m³)	Isopropyl Alcohol <sup>2</sup> (µg/m³)
NV-2-5	--	5	8/12/05	3879900530	U-Park	7.8	--	<0.81	--	12	--	36	2.6	0.28	0.98	<2.2	2.0	2.3	<1.6
NV-2-5	--	5	4/7/06	3879900530	U-Park	<35	--	<15	--	1,800	--	<37	<12	<5.0	<12	<41	<23	<42	4,200 E
SG01	--	4 - 5	1/16-20/90	3879900500	Del Roy Apartments	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG02	--	4 - 5	1/16-20/90	3879900490	Monterey Apartments	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG03	--	4 - 5	1/16-20/90	3879900490	Monterey Apartments - ROW	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG04	--	4 - 5	1/16-20/90	3879900500	Del Roy Apartments - ROW	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG05	--	4 - 5	1/16-20/90	3879900435	Bungalows Apartments	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG07	--	Ambient	1/16-20/90	3879900500	Del Roy Apartments - ROW (same as SG04)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>SITE VICINITY VAPOR POINTS</b>																			
1	--	8	3/26/92	Outside Figures Extent	Valley St. and 1st Ave N.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3	--	8	3/26/92	Outside Figures Extent	W. Roy St. and 1st Ave. N.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4	--	8	3/26/92	Outside Figures Extent	Former Unocal Facility; W. Roy St. and Queen Anne Ave. N.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8	--	5.5	3/28/91	Outside Figures Extent	1st Ave. W. and Queen Anne Pl.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12	--	5	3/29/91	3880400045	North of West Roy Street across Property	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15	--	5	4/1/91	Outside Figures Extent	W. Roy St. and Queen Anne Ave. N.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16	--	4	4/1/91	Outside Figures Extent	West of Property, vicinity of St. Paul's Episcopal Church	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18	--	8	4/2/91	Outside Figures Extent	Former Unocal Facility; W. Roy St. and Queen Anne Ave. N.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23	--	6	4/5/91	3879900580	Uptown Studios Apartments - ROW	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24	--	5	4/5/91	3879900590	Chandler Hall Apartments - ROW	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SG06	--	4 - 5	1/16-20/90	Outside Figures Extent	Queen Anne Ave. N. / W. Queen Anne Drive Way - ROW	--	--	--	--	--	--	--	--	--	--	--	--	--	--

See Notes on last page of Table 1.

Table 1  
 Shallow Soil Vapor Analytical Results  
 Former Texaco Service Station No. 211577  
 631 Queen Anne Avenue North  
 Seattle, WA 98109

Location ID	Alternate ID	Sample Depth (ft bgs)	Sample Date	Parcel	Sample Location	Isopropylbenzene (µg/m³)	Methylene Chloride (µg/m³)	N-Heptane (µg/m³)	p-Isopropyltoluene (µg/m³)	Propylbenzene (µg/m³)	sec-Butylbenzene (µg/m³)	Styrene (µg/m³)	Tetrachloroethene (µg/m³)	Trichloroethene (µg/m³)	Trichlorofluoromethane (CFC-11) (µg/m³)
<b>MTCA Method B Sub-Slab Soil Vapor Screening Level (µg/m³)³</b>						--	8,300	--	--	--	--	15,000	320	12	11,000
<b>PROPERTY VAPOR POINTS</b>															
19	--	5	4/2/91	387990-0425	Property	--	--	--	--	--	--	--	--	--	--
21	--	5	4/3/91	387990-0425	Property	--	--	--	--	--	--	--	--	--	--
22	--	--	--	387990-0425	Property	--	--	--	--	--	--	--	--	--	--
<b>OFF-PROPERTY VAPOR POINTS</b>															
2	--	12	3/25/91	3879900490	Monterey Apartments	--	--	--	--	--	--	--	--	--	--
5	--	5	3/27/91	3879900530	Queen Anne Arms Apartments	--	--	--	--	--	--	--	--	--	--
5	--	6	4/2/91	3879900530	Queen Anne Arms Apartments	--	--	--	--	--	--	--	--	--	--
6	--	6	3/27/91	3879900435	Bungalows Apartments	--	--	--	--	--	--	--	--	--	--
6	--	5	3/29/91	3879900435	Bungalows Apartments	--	--	--	--	--	--	--	--	--	--
7	--	3	3/28/91	3879900640	U-Park	--	--	--	--	--	--	--	--	--	--
7	--	4.5	4/2/91	3879900640	U-Park	--	--	--	--	--	--	--	--	--	--
9	--	3	3/28/91	3879900640	North of West Roy Street across U-Park	--	--	--	--	--	--	--	--	--	--
10	Base Station	4	3/28/91	3879900640	U-Park	--	--	--	--	--	--	--	--	--	--
10	Base Station	4	4/1/91	3879900640	U-Park	--	--	--	--	--	--	--	--	--	--
10	Base Station	4	4/2/91	3879900640	U-Park	--	--	--	--	--	--	--	--	--	--
10	Base Station	4	4/4/91	3879900640	U-Park	--	--	--	--	--	--	--	--	--	--
10	Base Station	4	4/4/91	3879900640	U-Park	--	--	--	--	--	--	--	--	--	--
10	Base Station	4	4/5/91	3879900640	U-Park	--	--	--	--	--	--	--	--	--	--
11	--	5	3/28/91	3879900530	Queen Anne Arms Apartments	--	--	--	--	--	--	--	--	--	--
13	--	5	3/29/91	3879900500	Del Roy Apartments - ROW	--	--	--	--	--	--	--	--	--	--
14	--	5	3/29/91	3879900640	U-Park	--	--	--	--	--	--	--	--	--	--
17	--	5	4/1/91	3879900490	Monterey Apartments	--	--	--	--	--	--	--	--	--	--
20	--	5.5	4/2/91	3879900540	Bank of America	--	--	--	--	--	--	--	--	--	--
25	--	--	--	3879900640	U-Park	--	--	--	--	--	--	--	--	--	--
DRV-1	--	0	1/28/09	3879900500	Del Roy Apartments	--	<0.96	<0.57	--	<0.68	--	<0.59	<0.94	<0.75	1.5
DRV-1	DRV-1 Duplicate	0	1/28/09	3879900500	Del Roy Apartments	--	<0.96	<0.57	--	<0.68	--	<0.59	<0.94	<0.75	1.4
DRV-1	--	0	8/19/09	3879900500	Del Roy Apartments	--	<1.0	<0.62	--	<0.75	--	<0.65	2.5	1.6	1.3
DRV-2	--	0	1/28/09	3879900500	Del Roy Apartments	--	<1.0	<0.59	--	<0.71	--	<0.61	2.4	<0.77	3.1
DRV-2	--	0	8/19/09	3879900500	Del Roy Apartments	--	<0.98	<0.58	--	<0.69	--	<0.60	2.6	<0.76	0.89
DVP-1	DVP-1	1	9/12/02	3879900490	Monterey Apartments	--	--	--	--	--	--	--	--	--	--
DVP-1	DVP-1	6	9/12/02	3879900490	Monterey Apartments	--	--	--	--	--	--	--	--	--	--
DVP-2	DVP-2	1	9/12/02	3879900490	Monterey Apartments	--	--	--	--	--	--	--	--	--	--
DVP-2	DVP-2	6	9/12/02	3879900490	Monterey Apartments	--	--	--	--	--	--	--	--	--	--
DVP-2	DVP-2 Duplicate	6	9/12/02	3879900490	Monterey Apartments	--	--	--	--	--	--	--	--	--	--
MVPT-1	MVPT-1	0	1/28/09	3879900490	Monterey Apartments	--	<1.0	<0.59	--	<0.71	--	<0.61	10	<0.77	1.4
MVPT-1	MVPT-1 Duplicate	0	1/28/09	3879900490	Monterey Apartments	--	<1.0	<0.59	--	<0.71	--	<0.61	10	<0.77	1.2
MVPT-1	MVPT-1 Duplicate	0	1/28/09	3879900490	Monterey Apartments	--	<1.0	<0.59	--	<0.71	--	<0.61	9.3	<0.77	1.3
MVPT-1	MVPT-1	0	8/19/09	3879900490	Monterey Apartments	--	<1.0	<0.60	--	<0.72	--	<0.62	11	<0.78	1.2
MVP-1	MVP-1	0	1/28/09	3879900490	Monterey Apartments	--	<1.0	<0.60	--	<0.72	--	<0.62	1.0	<0.78	1.4
MVP-1	MVP-1	0	8/19/09	3879900490	Monterey Apartments	--	<1.0	<0.60	--	<0.72	--	<0.62	1.4	<0.78	1.3
MVP-1	MVP-1 Duplicate	0	8/19/09	3879900490	Monterey Apartments	--	<1.0	<0.61	--	<0.73	--	<0.63	1.4	<0.80	1.2
NV-1-5	--	5	4/7/06	3879900530	U-Park	--	--	<2.4	--	--	--	--	<0.81	<0.64	1.5
NV-1-5	--	5	8/12/05	3879900530	U-Park	--	--	<2.7	--	--	--	--	2.0	<0.70	1.9
NV-1-8	--	8	8/12/05	3879900530	U-Park	--	--	<2.7	--	--	--	--	<0.89	<0.70	2.4
NV-1-8	NV-1-8 Duplicate	8	8/12/05	3879900530	U-Park	--	--	<2.7	--	--	--	--	5.7	0.84	2.5
NV-1-8	--	8	4/7/06	3879900530	U-Park	--	--	<2.6	--	--	--	--	<0.88	<0.69	1.7
NV-1-8	NV-1-8 Duplicate	8	4/7/06	3879900530	U-Park	--	--	<2.6	--	--	--	--	<0.88	<0.68	1.9
NV-2-10	--	10	8/12/05	3879900530	U-Park	--	--	<2.6	--	--	--	--	0.99	<0.69	3.6
NV-2-10	--	10	4/7/06	3879900530	U-Park	--	--	<4.0	--	--	--	--	<13	<10	<11
NV-2-10	NV-2-10 L Duplicate	10	4/7/06	3879900530	U-Park	--	--	<24	--	--	--	--	<8	<6.3	<6.6
NV-2-15	--	15	8/12/05	3879900530	U-Park	--	--	<2.6	--	--	--	--	1.5	<0.69	3.4
NV-2-15	NV-2-15 Duplicate	15	8/12/05	3879900530	U-Park	--	--	<2.6	--	--	--	--	1.7	<0.69	3.4
NV-2-15	NV-2-15 L	15	8/12/05	3879900530	U-Park	--	--	2.7	--	--	--	--	1.6	<0.69	3.3
NV-2-15	--	15	4/7/06	3879900530	U-Park	--	--	<18	--	--	--	--	<5.8	<4.6	<4.8
NV-2-15	NV-2-15 Duplicate	15	4/7/06	3879900530	U-Park	--	--	<16	--	--	--	--	<5.4	<4.3	12

Table 1  
 Shallow Soil Vapor Analytical Results  
 Former Texaco Service Station No. 211577  
 631 Queen Anne Avenue North  
 Seattle, WA 98109

Location ID	Alternate ID	Sample Depth (ft bgs)	Sample Date	Parcel	Sample Location	Isopropyl-benzene (µg/m³)	Methylene Chloride (µg/m³)	N-Heptane (µg/m³)	p-Isopropyl-toluene (µg/m³)	Propyl-benzene (µg/m³)	sec-Butylbenzene (µg/m³)	Styrene (µg/m³)	Tetrachloro-ethene (µg/m³)	Trichloro-ethene (µg/m³)	Trichlorofluoro-methane (CFC-11) (µg/m³)
NV-2-5	--	5	8/12/05	3879900530	U-Park	--	--	<2.6	--	--	--	--	1.6	<0.69	2.8
NV-2-5	--	5	4/7/06	3879900530	U-Park	--	--	<49	--	--	--	--	<16	<13	<13
SG01	--	4 - 5	1/16-20/90	3879900500	Del Roy Apartments	4,600 J	--	--	2,500 J	10,000	1,700 J	--	< 8,200	--	< 8,200
SG02	--	4 - 5	1/16-20/90	3879900490	Monterey Apartments	11 J	--	--	< 17	19,000	< 17	--	9 J	--	< 17
SG03	--	4 - 5	1/16-20/90	3879900490	Monterey Apartments - ROW	5 J	--	--	< 18	< 18	< 18	--	< 18	--	< 18
SG04	--	4 - 5	1/16-20/90	3879900500	Del Roy Apartments - ROW	< 18	--	--	4 J	< 18	4 J	--	3 J	--	13 J
SG05	--	4 - 5	1/16-20/90	3879900435	Bungalows Apartments	< 9,200	--	--	< 9,200	< 9,200	< 9,200	--	< 9,200	--	< 9,200
SG07	--	Ambient	1/16-20/90	3879900500	Del Roy Apartments - ROW (same as SG04)	< 13	--	--	< 13	< 13	< 13	--	< 13	--	< 13
<b>SITE VICINITY VAPOR POINTS</b>															
1	--	8	3/26/92	Outside Figures Extent	Valley St. and 1st Ave N.	--	--	--	--	--	--	--	--	--	--
3	--	8	3/26/92	Outside Figures Extent	W. Roy St. and 1st Ave. N.	--	--	--	--	--	--	--	--	--	--
4	--	8	3/26/92	Outside Figures Extent	Former Unocal Facility; W. Roy St. and Queen Anne Ave. N.	--	--	--	--	--	--	--	--	--	--
8	--	5.5	3/28/91	Outside Figures Extent	1st Ave. W. and Queen Anne Pl.	--	--	--	--	--	--	--	--	--	--
12	--	5	3/29/91	3880400045	North of West Roy Street across Property	--	--	--	--	--	--	--	--	--	--
15	--	5	4/1/91	Outside Figures Extent	W. Roy St. and Queen Anne Ave. N.	--	--	--	--	--	--	--	--	--	--
16	--	4	4/1/91	Outside Figures Extent	West of Property, vicinity of St. Paul's Episcopal Church	--	--	--	--	--	--	--	--	--	--
18	--	8	4/2/91	Outside Figures Extent	Former Unocal Facility; W. Roy St. and Queen Anne Ave. N.	--	--	--	--	--	--	--	--	--	--
23	--	6	4/5/91	3879900580	Uptown Studios Apartments - ROW	--	--	--	--	--	--	--	--	--	--
24	--	5	4/5/91	3879900590	Chandler Hall Apartments - ROW	--	--	--	--	--	--	--	--	--	--
SG06	--	4 - 5	1/16-20/90	Outside Figures Extent	Queen Anne Ave. N. / W. Queen Anne Drive Way - ROW	39 J	--	--	< 200	88 J	< 200	--	< 200	--	< 200

See Notes on last page of Table 1.

**Table 1**  
**Shallow Soil Vapor Analytical Results**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North**  
**Seattle, WA 98109**

**Notes:**

1. Results are included for compounds that had a detection greater than the laboratory reporting limit and for non-detect reporting limits that exceed the applicable screening levels.
2. Isopropyl alcohol was used as a leak test compound. Elevated concentrations may represent atmospheric sample dilution.
3. Sub-slab soil vapor screening levels are applicable for samples taken from 15 feet bgs or shallower. Sub-slab soil gas screening level is the more conservative Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method B value from the Cleanup and Risk Calculations (CLARC) tables (Ecology 2019). More conservative cancer screening levels were used in lieu of noncancer levels when available.
4. The 1991 Phase I Remedial Investigation does not describe the reasons for usage of the ">" symbol.

**BOLD** = Concentration is non-detect; however, the reporting limit exceeds the MTCA Method B Sub-Slab Soil Vapor Screening Level.

**BOLD** and shaded result indicates the detected constituent concentration exceeds the MTCA B Sub-Slab Soil Vapor Screening Level.

**Acronyms and Abbreviations:**

-- = Not available

< = Analyte was not detected at the indicated reporting limit

µg/m<sup>3</sup> = micrograms per cubic meter

ft bgs = feet below ground surface

CLARC = Cleanup and Risk Calculations

E = exceeds instrument calibration range

J = Estimated result

MTCA = Model Toxics Control Act

VOC = volatile organic compound

**Reference:**

Ecology. 2019. Cleanup and Risk Calculations. Master Table. November.

**Table 2**  
**Summary of Indoor Air Analytical Results**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North**  
**Seattle, WA 98109**



Sample Location	MTCA Method B Indoor Air Screening Level- Cancer (µg/L)	Del Roy Indoor Air - 012809	Del Roy Indoor Air - 081909	Monterey Indoor Air - 012809	Monterey Indoor Air - 081909	Ambient Air- 012809	Ambient Air- 081909	Ambient Air- 081909-Duplicate
		1/28/2009	8/19/2009	1/28/2009	8/19/2009	1/28/2009	8/19/2009	8/19/2009
<b>VOCs (µg/m<sup>3</sup>)</b>								
1,1,1-Trichloroethane	2,300	2.4	1.2	<0.81	<0.80	<0.77	<0.81	<0.81
1,2,4-Trimethylbenzene	27	<0.72	1.3	<0.73	<0.72	<0.69	<0.73	<0.73
1,2-Dichloroethene (total)	--	<0.59	<0.60	<0.60	5.9	<0.57	<0.60	<0.60
1,3,5-Trimethylbenzene	--	<0.72	4.3	<0.73	<0.72	<0.69	<0.73	<0.73
1,4-Dioxane	--	<0.53	<0.54	<0.54	<0.53	<0.51	<0.54	<0.54
2-Butanone (Methyl Ethyl Ketone)	2,300	2.4	4.4	0.58	1.8	<0.42	1.1	1.0
4-Ethyl toluene	--	<0.72	3.0	0.9	<0.72	<0.69	<0.73	<0.73
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	1,400	<0.60	<0.61	<0.61	<0.60	<0.58	<0.61	<0.61
Acetone	--	14	16	8.1	12	5.2	13	12
Benzene	0.32	<b>1.4</b>	<b>0.61</b>	<b>1.1</b>	<b>0.65</b>	<b>1.0</b>	<b>0.46</b>	<b>0.48</b>
Bromodichloromethane	0.068	<b>&lt;0.98</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;0.98</b>	<b>&lt;0.94</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>
Carbon disulfide	320	<2.3	<2.3	<2.3	<2.3	<2.2	<2.3	<2.3
Chloroform (Trichloromethane)	0.11	<b>&lt;0.71</b>	<b>2.1</b>	<b>&lt;0.73</b>	<b>&lt;0.71</b>	<b>&lt;0.69</b>	<b>&lt;0.73</b>	<b>&lt;0.73</b>
Chloromethane	41	1.1	1.1	1.0	0.86	0.94	1.0	0.92
Cyclohexane	--	<0.50	<0.51	<0.51	0.97	<0.48	<0.51	<0.51
Dichlorodifluoromethane (CFC-12)	46	3.0	2.2	2.3	1.5	2.4	2.0	2.1
Ethanol	--	100	130 E	26	32	6.2	3.7	10
Ethylbenzene	460	0.71	1.00	0.43	0.49	0.37	0.21	0.23
Hexane	320	1.9	0.82	0.58	<0.51	0.57	<0.52	<0.52
Isopropyl Alcohol <sup>2</sup>	--	8.6	8.0	2.3	8.7	<1.7	<1.8	<1.8
m,p-Xylenes	46 (Total Xylenes)	2.4	3.4	1.3	1.4	1.2	0.64	0.73
Methylene Chloride	250	1.2	2.7	<1.0	1.5	<0.98	<1.0	1.0
N-Heptane	--	0.95	1.6	<0.61	1.9	<0.58	0.75	0.74
o-Xylene	46 (Total Xylenes)	0.83	1.4	0.48	0.52	0.44	0.25	0.28
Propylbenzene	--	<0.73	0.92	<0.73	<0.72	<0.69	<0.73	<0.73
Styrene	460	<0.62	<0.63	<0.63	1.1	<0.60	<0.63	<0.63
Tetrachloroethene	9.6	<0.99	<1.0	<1.0	<0.99	<0.96	<1.0	<1.0
Toluene	2,300	4.9	12	2.3	2.5	2.1	2.9	3.0
Trichloroethene	0.37	<b>&lt;0.78</b>	<b>&lt;0.80</b>	<b>&lt;0.80</b>	<b>&lt;0.78</b>	<b>&lt;0.76</b>	<b>&lt;0.80</b>	<b>&lt;0.80</b>
Trichlorofluoromethane (CFC-11)	320	1.6	1.1	1.3	0.82 J	1.4	1.1	0.95

**Notes:**

- Results are included for compounds that had a detection greater than the RL and for non-detect RL exceeding the applicable screening levels.
- Isopropyl alcohol was used as a leak test compound. Elevated concentrations may represent atmospheric sample dilution.

**BOLD** = Concentration is non-detect; however, the reporting limit exceeds the MTCA Method B Indoor Air Screening Level for cancer.

**BOLD** and shaded result indicates the detected constituent concentration exceeds the MTCA Method B Indoor Air Screening Level for cancer.

**Acronyms and Abbreviations:**

- = Not available
- < = Analyte was not detected at the indicated reporting limit
- µg/m<sup>3</sup> = micrograms per cubic meter
- CLARC = Cleanup and Risk Calculations
- J = Estimated result
- MTCA = Model Toxics Control Act
- VOC = volatile organic compound
- RL = laboratory reporting limit

**Reference:**

Ecology. 2019. Cleanup and Risk Calculations. Master Table. May.

**Table 3**  
**Off-Property Groundwater for Vapor Intrusion**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**



Well ID	Date	Notes	NAPL	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC
Model Toxics Control Act (MTCA) Vapor Intrusion Groundwater Method B (ug/L)				2.4 (Cancer)	15,000 (Noncancer)	2,800 (Noncancer)	330 (Noncancer)	600 (Cancer)	0.27 (Cancer)	18,000 (Noncancer)
MW-2/VP-3	--	Decommissioned September 2006	--	--	--	--	--	--	--	--
MW-3/VP-7	5/7-8/12	--	--	--	--	--	--	--	--	--
MW-3/VP-7	11/12-14/12	--	--	--	--	--	--	--	--	--
MW-3/VP-7	5/20-22/13	--	--	--	--	--	--	--	--	--
MW-3/VP-7	11/11-13/13	--	--	--	--	--	--	--	--	--
MW-3/VP-7	8/10/20	Obstruction in well	--	--	--	--	--	--	--	--
MW-4	5/7-8/12	--	--	25	0.8	2	3	--	--	--
MW-4	11/12-14/12	--	--	30	0.8	2	3	--	--	--
MW-4	5/20-22/13	--	--	16	0.6	2	3	--	--	--
MW-4	11/11-13/13	--	--	16	0.5	0.6	3	--	--	--
MW-4	8/12/20	--	--	4.11	0.32 J	<1.0	0.83 J	--	<0.02	--
MW-5/VP-5	5/7-8/12	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-5/VP-5	11/12-14/12	--	--	1	<0.5	<0.5	<0.5	--	--	--
MW-5/VP-5	5/20-22/13	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-5/VP-5	11/11-13/13	--	--	0.9	<0.5	<0.5	<0.5	--	--	--
MW-5/VP-5	8/12/20	--	--	0.252 J	<1.0	<1.0	<1.0	--	<0.02	--
MW-7/VP-8	5/7-8/12	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-7/VP-8	11/12-14/12	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-7/VP-8	5/20-22/13	Inaccessible - Vehicle Parked on well	--	--	--	--	--	--	--	--
MW-7/VP-8	11/11-13/13	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-7/VP-8	8/12/20	--	--	0.159 J	<1.0	<1.0	<3.0	--	<0.02	--
MW-11	5/7-8/12	Obstruction in well	--	--	--	--	--	--	--	--
MW-11	11/12-14/12	Obstruction in well	--	--	--	--	--	--	--	--
MW-11	5/20-22/13	Obstruction in well	--	--	--	--	--	--	--	--
MW-11	11/11-13/13	Obstruction in well	--	--	--	--	--	--	--	--
MW-11	8/14/20	Obstruction in well	--	--	--	--	--	--	--	--
MW-12	5/7-8/12	--	--	--	--	--	--	--	--	--
MW-12	11/12-14/12	--	--	--	--	--	--	--	--	--
MW-12	5/20-22/13	--	--	--	--	--	--	--	--	--
MW-12	11/11-13/13	--	--	--	--	--	--	--	--	--
MW-12	8/14/20	Not accessible for sampling in 2020 due to construction. Damaged during construction in 2021.	--	--	--	--	--	--	--	--
MW-14	5/7-8/12	--	--	14	5	25	120	--	--	--
MW-14	11/12-14/12	--	--	13	5	18	110	--	--	--
MW-14	5/20-22/13	--	--	15	4	20	91	--	--	--
MW-14	11/11-13/13	--	--	10	4	12	57	--	--	--

**Table 3**  
**Off-Property Groundwater for Vapor Intrusion**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**



Well ID	Date	Notes	NAPL	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC
Model Toxics Control Act (MTCA) Vapor Intrusion Groundwater Method B (ug/L)				2.4 (Cancer)	15,000 (Noncancer)	2,800 (Noncancer)	330 (Noncancer)	600 (Cancer)	0.27 (Cancer)	18,000 (Noncancer)
MW-14	8/14/20	Inaccessible for Sampling - Vehicle Parked on well	--	--	--	--	--	--	--	--
MW-15	5/7-8/12	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-15	11/12-14/12	--	--	2	<0.5	<0.5	0.6	--	--	--
MW-15	5/20-22/13	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-15	11/11-13/13	--	--	0.6	<0.5	<0.5	<0.5	--	--	--
MW-15	8/14/20	Inaccessible for Sampling - Vehicle Parked on well	--	--	--	--	--	--	--	--
MW-16	5/7-8/12	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-16	11/12-14/12	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-16	5/20-22/13	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-16	11/11-13/13	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-16	8/12/20	--	--	<1.0	<1.0	<1.0	<3.0	--	<0.02	--
MW-17	5/7-8/12	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-17	5/7-8/12	DUP	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-17	11/12-14/12	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-17	11/12-14/12	DUP	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-17	5/20-22/13	--	--	3	<0.5	<0.5	<0.5	--	--	--
MW-17	5/20-22/13	DUP	--	3	<0.5	<0.5	<0.5	--	--	--
MW-17	11/11-13/13	--	--	0.8	<0.5	<0.5	<0.5	--	--	--
MW-17	11/11-13/13	DUP	--	0.8	<0.5	<0.5	<0.5	--	--	--
MW-17	8/11/20	--	--	<1.0	<1.0	<1.0	<3.0	--	<0.02	--
MW-17	8/11/20	DUP	--	<1.0	<1.0	<1.0	<3.0	--	<0.02	--
MW-18	5/7-8/12	--	--	1	<0.5	<0.5	<0.5	--	--	--
MW-18	11/12-14/12	--	--	48	<5	<5	<5	--	--	--
MW-18	5/20-22/13	--	--	10	<5	0.6	0.7	--	--	--
MW-18	11/11-13/13	--	--	13	<5	0.8	1.0	--	--	--
MW-18	8/11/20	--	--	8.5	2.02	0.750 J	1.69 J	--	<0.02	--
MW-19	5/7-8/12	--	--	--	--	--	--	--	--	--
MW-19	11/12-14/12	--	--	--	--	--	--	--	--	--
MW-19	5/20-22/13	--	--	--	--	--	--	--	--	--
MW-19	11/11-13/13	--	--	--	--	--	--	--	--	--
MW-19	8/12/20	Obstruction in well	--	--	--	--	--	--	--	--
MW-20	5/7-8/12	--	--	--	--	--	--	--	--	--
MW-20	11/12-14/12	--	--	--	--	--	--	--	--	--
MW-20	5/20-22/13	--	--	--	--	--	--	--	--	--
MW-20	11/11-13/13	--	--	--	--	--	--	--	--	--
MW-20	8/12/20	--	--	<1.0	<1.0	<1.0	<3.0	--	<0.02	--

**Table 3**  
**Off-Property Groundwater for Vapor Intrusion**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**



Well ID	Date	Notes	NAPL	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC
Model Toxics Control Act (MTCA) Vapor Intrusion Groundwater Method B (ug/L)				2.4 (Cancer)	15,000 (Noncancer)	2,800 (Noncancer)	330 (Noncancer)	600 (Cancer)	0.27 (Cancer)	18,000 (Noncancer)
MW-21	5/7-8/12	--	--	70	<0.5	<0.5	<0.5	--	--	--
MW-21	11/12-14/12	--	--	43	<0.5	<0.5	<0.5	--	--	--
MW-21	5/20-22/13	--	--	69	<0.5	<0.5	<0.5	--	--	--
MW-21	11/11-13/13	--	--	51	<0.5	<0.5	<0.5	--	--	--
MW-21	8/13/20	--	--	34	<1.0	<1.0	<3.0	--	<0.02	--
MW-22/DPE-8	5/7-8/12	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-22/DPE-8	11/12-14/12	--	--	2	<0.5	<0.5	<0.5	--	--	--
MW-22/DPE-8	5/20-22/13	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-22/DPE-8	11/11-13/13	--	--	1	<0.5	0.5	<0.5	--	--	--
MW-22/DPE-8	8/14/20	Not sampled, cap off of well	--	--	--	--	--	--	--	--
MW-23	5/7-8/12	--	--	--	--	--	--	--	--	--
MW-23	11/12-14/12	--	--	--	--	--	--	--	--	--
MW-23	5/20-22/13	--	--	--	--	--	--	--	--	--
MW-23	11/11-13/13	--	--	--	--	--	--	--	--	--
MW-23	8/10/20	Inaccessible for sampling due to construction.	--	--	--	--	--	--	--	--
MW-24	5/7-8/12	--	--	--	--	--	--	--	--	--
MW-24	11/12-14/12	--	--	--	--	--	--	--	--	--
MW-24	5/20-22/13	--	--	--	--	--	--	--	--	--
MW-24	11/11-13/13	--	--	--	--	--	--	--	--	--
MW-24	8/14/20	Well damaged during construction	--	--	--	--	--	--	--	--
MW-25	5/7-8/12	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-25	11/12-14/12	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-25	5/20-22/13	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-25	11/11-13/13	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-25	8/12/20	--	--	<1.0	<1.0	<1.0	<3.0	--	<0.02	--
MW-26	5/7-8/12	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-26	11/12-14/12	--	--	0.6	<0.5	<0.5	<0.5	--	--	--
MW-26	5/20-22/13	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-26	11/11-13/13	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-26	8/12/20	--	--	<1.0	<1.0	<1.0	<3.0	--	<0.02	--
MW-27	8/11/2020	--	--	<1.0	<1.0	<1.0	<3.0	--	<0.02	--
MW-28	8/11/2020	--	--	<1.0	<1.0	<1.0	<3.0	--	<0.02	--
MW-29	8/11/2020	--	--	<1.0	<1.0	<1.0	<3.0	--	<0.02	--

**Table 3**  
**Off-Property Groundwater for Vapor Intrusion**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**



Well ID	Date	Notes	NAPL	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC
Model Toxics Control Act (MTCA) Vapor Intrusion Groundwater Method B (ug/L)				2.4 (Cancer)	15,000 (Noncancer)	2,800 (Noncancer)	330 (Noncancer)	600 (Cancer)	0.27 (Cancer)	18,000 (Noncancer)
MW-30	5/7-8/12	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-30	5/7-8/12	DUP	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-30	11/12-14/12	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-30	11/12-14/12	DUP	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-30	5/20-22/13	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-30	5/20-22/13	DUP	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-30	11/11-13/13	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-30	11/11-13/13	DUP	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-30	8/11/20	--	--	<1.0	<1.0	<1.0	<3.0	--	<0.02	--
MW-31	5/7-8/12	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-31	11/12-14/12	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-31	5/20-22/13	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-31	11/11-13/13	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-31	8/11/20	--	--	<1.0	<1.0	<1.0	<3.0	--	<0.02	--
MW-32	5/7-8/12	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-32	11/12-14/12	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-32	5/20-22/13	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-32	11/11-13/13	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-32	8/12/20	--	--	<1.0	<1.0	<1.0	<3.0	--	<0.02	--
MW-33	5/7-8/12	--	--	270	1	22	7	--	--	--
MW-33	11/12-14/12	--	--	190	0.7	23	5	--	--	--
MW-33	5/20-22/13	--	--	160	0.5	18	4	--	--	--
MW-33	11/11-13/13	--	--	140	0.5	10	4	--	--	--
MW-33	8/12/20	--	--	<1.0	<1.0	<1.0	<3.0	--	<0.02	--
MW-34	5/7-8/12	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-34	11/12-14/12	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-34	5/20-22/13	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-34	11/11-13/13	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-34	8/11/20	--	--	<1.0	<1.0	<1.0	<3.0	--	<0.02	--
MW-35	5/7-8/12	--	--	0.6	<0.5	<0.5	<0.5	--	--	--
MW-35	11/12-14/12	--	--	1	<0.5	<0.5	<0.5	--	--	--
MW-35	5/20-22/13	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-35	11/11-13/13	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-35	8/11/20	--	--	<1.0	<1.0	<1.0	<3.0	--	<0.02	--
DPE-1VP-6	5/7-8/12	--	--	--	--	--	--	--	--	--

**Table 3**  
**Off-Property Groundwater for Vapor Intrusion**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**



Well ID	Date	Notes	NAPL	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC
Model Toxics Control Act (MTCA) Vapor Intrusion Groundwater Method B (ug/L)				2.4 (Cancer)	15,000 (Noncancer)	2,800 (Noncancer)	330 (Noncancer)	600 (Cancer)	0.27 (Cancer)	18,000 (Noncancer)
DPE-1VP-6	11/12-14/12	--	--	--	--	--	--	--	--	--
DPE-1VP-6	5/20-22/13	--	--	--	--	--	--	--	--	--
DPE-1VP-6	11/11-13/13	--	--	--	--	--	--	--	--	--
DPE-1VP-6	8/14/20	Decommissioned	--	--	--	--	--	--	--	--
DPE-2	5/7-8/12	NS	--	--	--	--	--	--	--	--
DPE-2	11/12-14/12	NS	--	--	--	--	--	--	--	--
DPE-2	5/20-22/13	NS	--	--	--	--	--	--	--	--
DPE-2	11/11-13/13	NS	--	--	--	--	--	--	--	--
DPE-2	8/12/20	--	--	2.37	1.63	0.597 J	1.39 J	--	<0.02	--
DPE-3	5/7-8/12	NS	--	--	--	--	--	--	--	--
DPE-3	11/12-14/12	NS	--	--	--	--	--	--	--	--
DPE-3	5/20-22/13	NS	--	--	--	--	--	--	--	--
DPE-3	11/11-13/13	NS	--	--	--	--	--	--	--	--
DPE-3	8/14/20	Inaccessible for Sampling - Dumpster on well	--	--	--	--	--	--	--	--
DPE-4	5/7-8/12	NS	--	--	--	--	--	--	--	--
DPE-4	11/12-14/12	NS	--	--	--	--	--	--	--	--
DPE-4	5/20-22/13	NS	--	--	--	--	--	--	--	--
DPE-4	11/11-13/13	NS	--	--	--	--	--	--	--	--
DPE-4	8/12/20	--	--	--	--	--	--	--	--	--
DPE-9	5/7-8/12	NS	--	--	--	--	--	--	--	--
DPE-9	11/12-14/12	NS	--	--	--	--	--	--	--	--
DPE-9	5/20-22/13	NS	--	--	--	--	--	--	--	--
DPE-9	11/11-13/13	NS	--	--	--	--	--	--	--	--
DPE-9	8/12/20	--	--	<1.0	<1.0	<1.0	<3.0	--	<0.02	--
DPE-9	8/12/20	DUP	--	<1.0	<1.0	<1.0	<3.0	--	<0.02	--
VP-1	--	Decommissioned September 2006	--	--	--	--	--	--	--	--
VP-2	5/7-8/12	--	--	--	--	--	--	--	--	--
VP-2	11/12-14/12	--	--	--	--	--	--	--	--	--
VP-2	5/20-22/13	--	--	--	--	--	--	--	--	--
VP-2	11/11-13/13	--	--	--	--	--	--	--	--	--
VP-2	8/13/20	Insufficient water	--	--	--	--	--	--	--	--
VP-4	5/7-8/12	--	--	1	0.6	1	2	--	--	--
VP-4	11/12-14/12	--	--	1	0.6	0.5	2	--	--	--
VP-4	5/20-22/13	--	--	2	1.0	2.0	5	--	--	--
VP-4	11/11-13/13	--	--	0.8	0.6	<0.5	1	--	--	--

**Table 3**  
**Off-Property Groundwater for Vapor Intrusion**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**

Well ID	Date	Notes	NAPL	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC
<b>Model Toxics Control Act (MTCA) Vapor Intrusion Groundwater Method B (ug/L)</b>				<b>2.4 (Cancer)</b>	<b>15,000 (Noncancer)</b>	<b>2,800 (Noncancer)</b>	<b>330 (Noncancer)</b>	<b>600 (Cancer)</b>	<b>0.27 (Cancer)</b>	<b>18,000 (Noncancer)</b>
VP-4	8/12/20	--	--	0.652 J	1.14	1.21	10.9	--	<0.02	--
MP-1	8/13/2020	Not monitored	--	--	--	--	--	--	--	--
MP-2	8/13/2020	Not monitored	--	--	--	--	--	--	--	--
RW-5	8/13/2020	Not monitored	--	--	--	--	--	--	--	--
SS1-W1	8/13/20	--	--	<1.0	<1.0	<1.0	<3.0	--	<0.02	--
SS1-W2	8/13/20	Inaccessible for Sampling due to construction	--	--	--	--	--	--	--	--

**Notes:**

Results reported in micrograms per liter (ug/L).

**MTCA Method A CULs**

800/1,000 = GRO MTCA Method A CUL with benzene present is 800 ug/L and without is 1,000 ug/L

**BOLD and highlighted** values are greater than their respective MTCA Method A cleanup level

**BOLD** values are non-detect below the laboratory method detection limit (MDL), but the MDL is greater than the MTCA Method A cleanup level

**Abbreviations:**

TOC = Top of casing; TOC elevation surveyed in feet on 8/12 - 8/13/2020 based on Washington State Plane, North Zone, NAD 83 (2011). Prior to 2020 the TOC elevation was based on an arbitrary benchmark. (2013 Leidos. Second Annual GWM Report)

DTW = Depth to water in feet below TOC

NAPL = Non-aqueous phase liquid thickness in feet

GWE = Groundwater elevation

MTBE = Methyl tertiary butyl ether

EDB = Ethylene dibromide

EDC = 1,2-Dichloroethane

GRO = Gasoline Range Organics analyzed by Ecology Method NWTPH-Gx

DRO = Diesel Range Organics analyzed by Ecology Method NWTPH-Dx

HO = Heavy Oil Range Organics analyzed by Ecology Method NWTPH-Dx

-- = Not analyzed/not applicable

< = Analytical result is less than reporting limit shown

DUP = Duplicate sample

J = estimated value – The result is greater than or equal to the Method Detection Limit (MDL) and less than the Limit of Quantitation (LOQ)

J0 = estimated value - The calibration met method criteria.

B = Compound was found in the blank and sample

\* = RPD of the LCS and LCSD exceeds the control limits

**Methods:**

GRO, DRO, HO analyzed by Ecology Northwest Methods

Benzene, toluene, ethylbenzene, and total xylenes (BTEX), MTBE, and EDC by 8260B

EDB by EPA 8011

Table 4  
Well and Vapor Probe Construction Details  
Former Texaco Service Station No. 211577  
631 Queen Anne Avenue North  
Seattle, WA 98109



Well ID	Well Parcel	Northing	Easting	Well Type	Well Setup	Installation Date	Decommission Date	Current Status			Construction Details			
				DPE / VE / VP / MW / RW				Well Status	Well Gauged	Well Sampled	Well Diameter	Top of Screen Depth	Bottom of Screen Depth	Total Well Depth
											inches	feet bgs	feet bgs	feet bgs
<b>PROPERTY WELLS</b>														
DPE-5	387990-0425	--	--	DPE	Single casing	10/26/2005	01/30/20	Excavated	--	--	4	14	24	28
DPE-6	387990-0425	--	--	DPE	Single casing	10/17/2005	01/30/20	Excavated	--	--	4	15.50	30.50	33.50
DPE-7	387990-0425	--	--	DPE	Single casing	10/17/2005	01/30/20	Excavated	--	--	4	11	29	33.50
MW-6	387990-0425	--	--	MW	Single casing	10/27/1986	05/15/20	Excavated	--	--	2	15	29	29.50
MW-9	387990-0425	--	--	MW	Single casing	10/31/1986	05/15/20	Excavated	--	--	2	14	29	29.50
MW-13	387990-0425	--	--	MW	Single casing	9/18/2002	01/30/20	Excavated	--	--	2	10	20	21.50
RW-1	387990-0425	--	--	RW	--	11/1986	Unknown	Excavated	--	--	--	--	--	--
RW-4	387990-0425	--	--	RW	Single casing	5/25/1993	06/15/20	Excavated	--	--	8	17	32	32
VP-9	387990-0425	--	--	VE	Single casing	5/17/1993	05/20/20	Excavated	--	--	2.00	4.50	14.50	15
<b>OFF-PROPERTY WELLS</b>														
DPE-2	3879900490	231785.159	1264550.783	DPE	Single casing	3/12/2004	--	Accessible	Yes - 8/12/2020	Yes - 8/12/2020	2	10	25	26
DPE-3	3879900490	231785.486	1264600.324	DPE	Single casing	9/15/2006	--	Accessible	Yes - 8/16/2021	No - Dumpster on well in 3Q20 sampling event	2	10	18	22
DPE-4	3879900490	231844.385	1264514.073	DPE	Single casing	9/14/2006	--	Accessible	Yes - 8/14/2020	No - Not sampled due to proximity to MW-4	2	10.5	20.5	23.5
DPE-9	3879900490	231846.456	1264548.645	DPE	Single casing	9/18/2006	--	Accessible	Yes - 8/14/2020	Yes - 8/12/2020	2	10.5	15.5	21.5
MP-2	3879900465 (ROW)	--	--	MW	--	Unknown	--	Accessible	Yes - 8/14/2020	No - Not monitored historically	2	Unknown	Unknown	165.6
MW-4	3879900490	231841.065	1264504.329	MW	--	10/27/1986	--	Accessible	Yes - 8/14/2020	Yes - 8/12/2020	2	9	19	19.5
MW-5/VP-5	3879900490	231757.709	1264570.564	MW/VE	--	MW-5: 10/27/1986 VP-5: 5/1993	--	Accessible	Yes - 8/14/2020	Yes - 8/12/2020	2	9	19	19.5
MW-7/VP-8	3879900490	231785.942	1264617.726	MW/VE	--	MW-7: 1986 VP-8: 5/1993	--	Accessible	Yes - 8/14/2020	Yes - 8/12/2020	2	9	19	19.5
MW-10	387990-0425 (ROW)	--	--	MW	Single casing	10/31/1986	--	Accessible	Yes - 6/18/2021	No - Inaccessible during 3Q20 sampling event	2	10	30	30
MW-14	3879900500 (ROW)	--	--	MW	Single casing	9/25/2002	--	Accessible	Yes - 8/10/2020	No - Car parked on well in 3Q20 sampling event	2	10	25	26.5
MW-15	3879900485 (ROW)	--	--	MW	Single casing	9/25/2002	--	Accessible	Yes - 6/18/2021	No - Car parked on well in 3Q20 sampling event	2	10	25	35
MW-16	3879900640 (ROW)	231921.447	1264448.526	MW	Single casing	9/24/2002	--	Accessible	Yes - 8/14/2020	Yes - 8/12/2020	2	10	25	31
MW-17	3879900530 (ROW)	--	--	MW	Single casing	9/23/2002	--	Accessible	Yes - 8/11/2020	Yes - 8/11/2020	2	10	25	34
MW-18	3879900490	231789.366	1264522.934	MW	Single casing	3/16/2004	--	Accessible	Yes - 8/14/2020	Yes - 8/11/2020	2	5	25	25.5
MW-20	3880400050	232011.519	1264482.816	MW	Single casing	8/6/2004	--	Accessible	Yes - 8/14/2020	Yes - 8/12/2020	2	5	20	31.5
MW-21	3879900540	231705.069	1264312.619	MW	Single casing	8/9/2004	--	Accessible	Yes - 8/14/2020	Yes - 8/13/2020	2	15	35	41.5
MW-22/DPE-8	3879900500	231877.832	1264561.691	DPE/MW	Single casing	MW-22: 10/04/2004 DPE-8: 9/18/2006	--	Accessible	Yes - 8/14/2020	No - Cap off well in 3Q20 sampling event	2	10	20	24
MW-23	3879900435	--	--	MW	Single casing	10/4/2004	--	Accessible - well cap stuck	No - unable to gauge	No - unable to sample	0.75	5.5	13.5	20
MW-25	3879900500 (ROW)	231911.625	1264481.778	MW	Single casing	10/25/2004	--	Accessible	Yes - 8/10/2020	Yes - 8/12/2020	2	8	23	26.5
MW-26	3879900640 (ROW)	231865.031	1264447.115	MW	Single casing	10/27/2004	--	Accessible	Yes - 8/14/2020	Yes - 8/12/2020	2	7.75	22.75	26.5
MW-27	1792530000 (ROW)	231922.509	1264113.41	MW	Single casing	11/22/1994	--	Accessible	Yes - 8/14/2020	Yes - 8/11/2020	2	14	35	35
MW-28	7015350000 (ROW)	231656.437	1264107.274	MW	Single casing	11/22/1994	--	Accessible	Yes - 8/14/2020	Yes - 8/11/2020	2	9.25	25	25
MW-29	7015350000 (ROW)	231602.41	1263861.573	MW	Single casing	11/22/1994	--	Accessible	Yes - 8/14/2020	Yes - 8/11/2020	2	9.25	25	25
MW-30	3879900580 (ROW)	231740.157	1264167.091	MW	Single casing	2/7/2005	--	Accessible	Yes - 8/14/2020	Yes - 8/11/2020	2	19.68	34.68	55.5
MW-31	3879900570 (ROW)	231610.89	1264165.404	MW	Single casing	2/7/2005	--	Accessible	Yes - 8/14/2020	Yes - 8/11/2020	2	15	30	35.5
MW-32	3879900640	231849.279	1264420.369	MW	Single casing	7/5/2005	--	Accessible	Yes - 8/14/2020	Yes - 8/12/2020	2	8.6	28.6	36.5
MW-33	3879900640	231862.872	1264342.137	MW	Single casing	7/5/2005	--	Accessible	Yes - 8/14/2020	Yes - 8/12/2020	2	24.6	34.6	35.5
MW-34	3879900590 (ROW)	231812.017	1264168.586	MW	Single casing	11/21/2005	--	Accessible	Yes - 8/14/2020	Yes - 8/11/2020	2	22	37	40

**Table 4**  
**Well and Vapor Probe Construction Details**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North**  
**Seattle, WA 98109**



Well ID	Well Parcel	Northing	Easting	Well Type	Well Setup	Installation Date	Decommission Date	Current Status			Construction Details			
				DPE / VE / VP / MW / RW				Well Status	Well Gauged	Well Sampled	Well Diameter	Top of Screen Depth	Bottom of Screen Depth	Total Well Depth
										inches	feet bgs	feet bgs	feet bgs	
MW-35	3879900640	231890.346	1264314.812	MW	Single casing	11/21/2005	--	Accessible	Yes - 8/14/2020	Yes - 8/11/2020	2	22	37	41
SS1-W1	387990-0425 (ROW)	231916.498	1264760.072	MW	Single casing	12/2/2017	--	Accessible	Yes - 8/14/2020	Yes - 8/13/2020	1.5	10	20	21
SS1-W2	387990-0425 (ROW)	231939.594	1264691.016	MW	Single casing	12/2/2017	--	Accessible	Yes - 8/16/2021	No - Inaccessible during 3Q	1.5	12	22	22
RW-3	3879900490	--	--	RW	Single casing	5/21/1993	--	Accessible	Yes - 6/18/2021	No - Not sampled due to p	8	10	20	20.6
PESMW-1	3879900540	--	--	MW	Information not available.	Information not available.	--	PES well - not assessed by Arcadis	No - Part of PES monitoring	No - Part of PES monitoring	Information not available.	Information not available.	Information not available.	Information not available.
PESMW-2	3879900570	--	--	MW	Information not available.	Information not available.	--	PES well - not assessed by Arcadis	No - Part of PES monitoring	No - Part of PES monitoring	Information not available.	Information not available.	Information not available.	Information not available.
OTBMW-1	3879900640	231926.191	1264408.715	MW	Single casing	8/6/2019	--	PES well - not assessed by Arcadis	No - Part of PES monitoring	No - Part of PES monitoring	2	10.3	20.3	21.5
OTBMW-2	3879900640	231883.812	1264410.592	MW	Single casing	8/6/2019	--	PES well - not assessed by Arcadis	No - Part of PES monitoring	No - Part of PES monitoring	2	9.6	19.6	21.5
QAAMW-1	3879900530	--	--	MW	Single casing	8/7/2019	--	PES well - not assessed by Arcadis	No - Part of PES monitoring	No - Part of PES monitoring	2	15.2	30.2	31.5
VP-2	3879900490	231842.029	1264579.39	VE	Single casing	5/1993	--	Accessible	Yes - 8/14/2020	No - Insufficient water during 3Q 2020 sampling event	2	5	15	15
VP-4	3879900490	231787.215	1264571.935	VE	Single casing	5/18/1993	--	Accessible	Yes - 8/10/2020	Yes - 8/12/2020	2	5	15	15
MW-3/VP-7	3879900490	231786.909	1264499.937	MW	--	MW-3: 10/27/1986 VP-7: 5/1993	--	Obstruction in well	--	--	2	4	19	19.5
MW-11	3879900465 (ROW)	231624.369	1264484.134	MW	--	Unknown	--	Obstruction in well	No - unable to gauge	No - unable to sample	2	Unknown	Unknown	17.3
MW-12	3879900435 (ROW)	--	--	MW	Single casing	9/26/2002	Jan. 2021	Damaged during 2020/2021 Property redevelopment - no longer usable	--	--	2	7	17	17
MW-19	3879900490	231776.626	1264523.342	MW	Single casing	3/16/2004	--	Obstruction in well	No - unable to gauge	No - unable to sample	2	5	25	25.5
MW-24	3879900500	--	--	MW	Single casing	10/5/2004	--	Damaged during 2020/2021 Property redevelopment - no longer usable	--	--	0.75	4.2	14.2	20.5
MW-2/VP-3	3879900490	--	--	MW/VE	--	MW-2: 10/27/1986 VP-3: 5/1993	2006	Decommissioned	--	--	2	2	10	10
MP-1	3879900490	--	--	MW	--	Unknown	Unknown	Well no longer present. Potentially paved over. No additional information available.	--	--	2	Unknown	Unknown	5
RW-2	3879900490	--	--	RW	Single casing	7/1987	Unknown	Location unknown.	--	--	8	8.25	21.4	21.4
RW-5	3879900490	231842.015	1264601.588	RW	Single casing	5/24/1993	--	Accessible - manhole vault - unsafe to gauge or sample	Unable to gauge	No - Unable to sample	8	6	16	17.5
VP-1	3879900490	--	--	VE	Single casing	5/1993	2006	Decommissioned	--	--	2	4.5	14.5	15
DPE-1/VP-6	3879900490	231786.662	1264531.819	DPE/MW	Single casing	VP-6: 5/18/1993 DPE-1: 3/15/2004	VP-6 decommissioned 3/15/2004. DPE-1: Well no longer present. No additional information available.	Well no longer present. No additional information available.	--	--	4	10	25	25
<b>OFF-PROPERTY VAPOR POINTS</b>														
DVP-1	3879900490	--	--	VP	Two casings	9/12/2002	Unknown	No longer present	Not applicable - VP	Not applicable - VP	0.25	0.25	1.25	2
DVP-2	3879900490	--	--	VP	Two casings	9/12/2002	Unknown	No longer present	Not applicable - VP	Not applicable - VP	0.25	0.25	1.25	2
MVP-1	3879900490	--	--	VP	Single casing	2/26/2008	--	Accessible - fair condition	Not applicable - VP	Not applicable - VP	0.25	--	--	--
MVPT-1	3879900490	--	--	VP	Single casing	2/26/2008	8/20/2009	No longer present	Not applicable - VP	Not applicable - VP	0.25	--	--	--
NV-1 - Shallow	3879900640	231848.3	1264409.464	VP	Two well casings	7/6/2005	--	Accessible - fair condition	Not applicable - VP	Not applicable - VP	0.25	5	5.5	9
NV-1 - Intermediate	3879900640	--	--	VP	Two well casings	7/6/2005	--	Accessible - fair condition	Not applicable - VP	Not applicable - VP	0.25	8	8.5	9
NV-2 - Shallow	3879900640	231868.368	1264355.395	VP	Three well casings	7/6/2005	--	Accessible - fair condition	Not applicable - VP	Not applicable - VP	0.25	5	5.5	15.5
NV-2 - Intermediate	3879900640	--	--	VP	Three well casings	7/6/2005	--	Accessible - fair condition	Not applicable - VP	Not applicable - VP	0.25	10	10.5	15.5
NV-2 - Deep	3879900640	--	--	VP	Three well casings	7/6/2005	--	Accessible - fair condition	Not applicable - VP	Not applicable - VP	0.25	15	15.5	15.5
DRV-1	3879900500	--	--	VP	Single casing	2/26/2008	--	Accessible - fair condition	Not applicable - VP	Not applicable - VP	0.25	--	--	--

Table 4  
 Well and Vapor Probe Construction Details  
 Former Texaco Service Station No. 211577  
 631 Queen Anne Avenue North  
 Seattle, WA 98109

Well ID	Well Parcel	Northing	Easting	Well Type	Well Setup	Installation Date	Decommission Date	Current Status			Construction Details			
				DPE / VE / VP / MW / RW				Well Status	Well Gauged	Well Sampled	Well Diameter	Top of Screen Depth	Bottom of Screen Depth	Total Well Depth
				inches							feet bgs	feet bgs	feet bgs	
DRVP-2	3879900500	--	--	VP	Single casing	2/26/2008	--	Accessible - fair condition	Not applicable - VP	Not applicable - VP	0.25	--	--	--

**Acronyms:**  
 DPE = dual-phase extraction well  
 MW = monitoring well  
 RW = groundwater recovery well  
 VE = vapor extraction well  
 VP = vapor point  
 Grey well: well no longer present or accessible

**Notes:**  
 The survey was completed on August 12, 2020. The horizontal datum is Washington State Plane, North Zone, NAD 83 (2011) (EPOCH: 2010). The Vertical Datum is N.A.V.D. 88. The units are U.S. Survey Feet.

**Table 5**  
**Off-Property Groundwater Gauging Data and Analytical Results**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**



Well ID	Date	Notes	TOC	DTW	NAPL Thickness	GWE	GRO	DRO - No Silica Gel	DRO - with Silica Gel	HO - No Silica Gel	HO - with Silica Gel	DRO + HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Dissolved Lead	Arsenic	Naphthalene Method 8270	Naphthalene Method 8260B
<b>Model Toxics Control Act (MTC) Method A Cleanup Levels (CULs) in µg/L</b>							<b>800/1,000</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>5</b>	<b>1,000</b>	<b>700</b>	<b>1,000</b>	<b>20</b>	<b>0.01</b>	<b>5</b>	<b>15</b>	<b>15</b>	<b>5</b>	<b>160</b>	<b>160</b>
DPE-1/VP-6	07/24/02	--	101.90	12.18	1.58	90.98	NOT SAMPLED DUE TO THE PRESENCE OF NAPL																	
DPE-1/VP-6	10/17-18/02	--	101.90	12.00	0.65	90.42	NOT SAMPLED DUE TO THE PRESENCE OF NAPL																	
DPE-1/VP-6	01/21/03	--	101.90	12.90	1.63	90.30	NOT SAMPLED DUE TO THE PRESENCE OF NAPL																	
DPE-1/VP-6	04/23-24/03	--	101.90	10.90	0.15	91.12	NOT SAMPLED DUE TO THE PRESENCE OF NAPL																	
DPE-1/VP-6	06/30-07/01/03	--	101.90	11.54	0.22	90.54	NOT SAMPLED DUE TO THE PRESENCE OF NAPL																	
DPE-1/VP-6	10/01-02/03	--	101.90	12.91	0.79	89.62	NOT SAMPLED DUE TO THE PRESENCE OF NAPL																	
DPE-1/VP-6	01/21-23/04	--	101.90	--	--	--	NOT MONITORED/SAMPLED DUE TO WELL OBSTRUCTION AT 2.41 FEET																	
DPE-1/VP-6	04/29-30/04	--	--	11.25	0.05	--	NOT SAMPLED DUE TO THE PRESENCE OF NAPL																	
DPE-1/VP-6	07/15-16/04	--	--	11.63	0.02	--	NOT SAMPLED DUE TO THE PRESENCE OF NAPL																	
DPE-1/VP-6	08/03/04	--	101.84	11.85	--	89.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DPE-1/VP-6	10/28-11/01/04	--	101.84	11.99	--	89.85	<b>81,000</b>	--	<b>180,000</b>	--	<b>&lt;20,000</b>	<b>190,000</b>	<b>7,500</b>	<b>9,500</b>	<b>1,100</b>	<b>9,000</b>	--	--	--	--	--	--	--	--
DPE-1/VP-6	01/24-31/05	--	101.84	11.37	--	90.47	<b>19,000</b>	--	<b>21,000</b>	--	<b>&lt;1,000</b>	<b>21,500</b>	<b>1,800</b>	<b>1,200</b>	<b>75</b>	<b>3,300</b>	--	--	--	--	--	--	--	--
DPE-1/VP-6	04/18-21/05	--	101.84	11.19	--	90.65	<b>8,000</b>	--	<b>280,000</b>	--	<b>&lt;11,000</b>	<b>285,500</b>	<b>190</b>	<b>240</b>	<b>48</b>	<b>800</b>	--	--	--	--	--	--	--	--
DPE-1/VP-6	07/27-28/05	--	101.84	11.50	--	90.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DPE-1/VP-6	11/08-10/05	--	101.84	11.76	--	90.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DPE-1/VP-6	08/09/05	--	101.84	11.60	0.01	90.25	NOT SAMPLED DUE TO THE PRESENCE OF NAPL																	
DPE-1/VP-6	11/08-10/05	--	101.84	11.76	--	90.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DPE-1/VP-6	02/22/06	--	101.84	10.02	--	91.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DPE-1/VP-6	04/17/06	Sheen	101.84	11.25	--	90.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DPE-1/VP-6	08/31/06	--	101.84	13.13	--	88.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DPE-1/VP-6	09/15/06	--	101.84	13.35	0.04	88.52	NOT SAMPLED DUE TO THE PRESENCE OF NAPL																	
DPE-1/VP-6	10/17/06	--	101.55	14.68	1.83	88.33	NOT SAMPLED DUE TO THE PRESENCE OF NAPL																	
DPE-1/VP-6	04/17-19/07	--	101.55	15.63	--	85.92	650	--	<b>5,600</b>	--	<b>&lt;950</b>	<b>6,075</b>	20	4.1	3.7	13	--	--	--	--	--	--	--	--
DPE-1/VP-6	04/17-19/07	DUP	101.55	15.63	--	85.92	690	--	<b>&lt;1,500</b>	--	<b>&lt;1,900</b>	<b>&lt;1,700</b>	20	4.3	3.9	14	--	--	--	--	--	--	--	--
DPE-1/VP-6	12/04-05/07	--	101.55	20.72	--	80.83	550	--	240	--	<b>&lt;100</b>	290	<b>380</b>	4.7	32	15	--	--	--	--	--	--	--	--
DPE-1/VP-6	04/28-29/08	--	101.63	16.74	--	84.89	260	--	<b>610</b>	--	<b>&lt;200</b>	<b>710</b>	<b>430</b>	1	1	2	--	--	--	--	--	--	--	--
DPE-1/VP-6	4/29/2008	DUP	101.63	16.74	--	84.89	250	--	490	--	<b>&lt;200</b>	<b>590</b>	<b>450</b>	1	1	2	--	--	--	--	--	--	--	--
DPE-1/VP-6	11/03/08	--	101.63	13.50	--	88.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DPE-1/VP-6	04/13-16/09	--	101.63	11.84	--	89.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DPE-1/VP-6	10/12-15/09	--	101.63	12.05	--	89.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DPE-1/VP-6	04/19-22/10	--	101.63	10.26	--	91.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DPE-1/VP-6	01/17-20/11	--	101.63	10.56	--	91.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DPE-1/VP-6	05/10-12/11	--	101.63	9.85	--	91.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DPE-1/VP-6	05/07-08/12	--	101.63	10.00	--	91.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DPE-1/VP-6	11/12-14/12	--	101.63	11.97	--	89.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DPE-1/VP-6	5/20-22/13	--	101.63	9.92	--	91.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DPE-1/VP-6	11/11-13/13	--	101.63	11.61	--	90.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DPE-1/VP-6	8/14/2020	Decommissioned	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DPE-2	04/29-30/04	--	--	11.51	0.20	--	NOT SAMPLED DUE TO THE PRESENCE OF NAPL																	
DPE-2	07/15-16/04	--	--	11.73	--	--	NOT SAMPLED DUE TO THE PRESENCE OF NAPL																	
DPE-2	08/03/04	--	102.17	12.17	--	90.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DPE-2	10/28-11/01/04	--	102.17	12.12	--	90.05	<b>48,000</b>	--	<b>6,200</b>	--	<b>&lt;1,000</b>	<b>6,700</b>	<b>2,500</b>	<b>3,000</b>	<b>940</b>	<b>5,400</b>	--	--	--	--	--	--	--	--
DPE-2	01/24-31/05	--	102.17	11.51	--	90.66	<b>2,200</b>	--	<b>870</b>	--	<b>&lt;250</b>	<b>995</b>	<b>70</b>	79	13	140	--	--	--	--	--	--	--	--
DPE-2	04/18-21/05	--	102.17	11.30	--	90.87	<b>2,000</b>	--	290	--	<b>&lt;250</b>	415	<b>210</b>	170	42	220	--	--	--	--	--	--	--	--
DPE-2	07/27-28/05	--	102.17	11.64	--	90.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DPE-2	11/08-10/05	--	102.17	12.02	--	90.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DPE-2	02/22/06	--	102.17	10.98	0.92	91.93	NOT SAMPLED DUE TO THE PRESENCE OF NAPL																	
DPE-2	02/27/06	--	102.17	11.09	0.89	91.79	NOT SAMPLED DUE TO THE PRESENCE OF NAPL																	
DPE-2	04/17/06	--	102.17	11.71	0.46	90.83	NOT SAMPLED DUE TO THE PRESENCE OF NAPL																	
DPE-2	07/31/06	--	102.17	12.80	0.04	89.40	NOT SAMPLED DUE TO THE PRESENCE OF NAPL																	
DPE-2	08/19/06	--	102.17	13.45	0.12	88.82	NOT SAMPLED DUE TO THE PRESENCE OF NAPL																	
DPE-2	09/15/06	--	102.43	13.73	0.04	88.73	NOT SAMPLED DUE TO THE PRESENCE OF NAPL																	
DPE-2	09/29/06	--	102.43	13.86	0.03	88.59	NOT SAMPLED DUE TO THE PRESENCE OF NAPL																	
DPE-2	10/17/06	--	102.43	13.92	0.01	88.52	NOT SAMPLED DUE TO THE PRESENCE OF NAPL																	
DPE-2	10/24/06	--	102.43	14.50	0.30	88.17	NOT SAMPLED DUE TO THE PRESENCE OF NAPL																	
DPE-2	04/17/07	--	102.43	15.96	--	86.47	<b>27,000</b>	--	<b>110,000</b>	--	<b>&lt;9,500</b>	<b>114,750</b>	<b>&lt;10</b>	2.9	14	<b>1,100</b>	--	--	--	--	--	--	--	--
DPE-2	12/04-05/07	--	102.43	21.52	--	80.91	600	--	<b>5,300</b>	--	<b>&lt;480</b>	<b>5,540</b>	<b>150</b>	5.3	8.6	15	--	--	--	--	--	--	--	--
DPE-2	04/28-29/08	--	102.54	17.20	--	85.34	770	--	<b>8,100</b>	--	<b>&lt;2,000</b>	<b>9,100</b>	<b>2</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>0.5</b>	--	--	--	--	--	--	--	--
DPE-2	11/04/08	--	102.54	14.06	--	88.48	340	--	<b>3,000</b>	--	<b>&lt;130</b>	<b>3065</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	--	--	--	--	--	--	--	--
DPE-2	04/13-16/09	--	102.54	12.40	--	90.14	93	--	83	--	<b>&lt;72</b>	119	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	--	--	--	--	--	--	--	--
DPE-2	10/12-15/09	--	102.54	12.77	--	89.77	330	--	230	--	<b>&lt;68</b>	264	0.8	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	--	--	--	--	--	--	--	--
DPE-2	04/19-22/10	--	102.54	10.85	--	91.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DPE-2	01/17-20/11	--	102.54	10.33	--	92.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DPE-2	05/10-12/11	--	102.54	10.45	--	92.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DPE-2	05/07-08/12	NS	102.54	10.60	--	91.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**Table 5**  
**Off-Property Groundwater Gauging Data and Analytical Results**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**



Well ID	Date	Notes	TOC	DTW	NAPL Thickness	GWE	GRO	DRO - No Silica Gel	DRO - with Silica Gel	HO - No Silica Gel	HO - with Silica Gel	DRO + HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Dissolved Lead	Arsenic	Naphthalene Method 8270	Naphthalene Method 8260B		
<b>Model Toxics Control Act (MTC) Method A Cleanup Levels (CULs) in µg/L</b>							<b>800/1,000</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>5</b>	<b>1,000</b>	<b>700</b>	<b>1,000</b>	<b>20</b>	<b>0.01</b>	<b>5</b>	<b>15</b>	<b>15</b>	<b>5</b>	<b>160</b>	<b>160</b>		
DPE-2	11/12-14/12	NS	102.54	12.14	--	90.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-2	5/20-22/13	NS	102.54	10.57	--	91.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-2	11/11-13/13	NS	102.54	12.20	--	90.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-2	8/12/2020	--	135.67	12.53	--	123.14	<b>1,130</b>	<b>2,200</b>	<b>1,380</b>	147 J	<250	<b>2,347</b>	2.37	1.63	0.597 J	1.39 J	--	<b>&lt;0.02</b>	--	<6.0	<6.0	--	<5.0 J0	--		
DPE-3	10/17/06	--	103.93	14.49	--	89.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-3	10/26/06	--	103.93	14.79	--	89.14	<48	--	<80	--	<100	90	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
DPE-3	04/17-19/07	--	103.93	18.25	--	85.68	87	--	<b>4,900</b>	--	<b>&lt;2,000</b>	<b>5,900</b>	<0.5	<0.5	<0.5	3.9	--	--	--	--	--	--	--	--		
DPE-3	12/04/07	--	103.93	18.35	--	85.58	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
DPE-3	04/28/08	--	104.02	18.25	--	85.77	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
DPE-3	11/03/08	--	104.02	14.39	--	89.63	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
DPE-3	04/13-16/09	--	104.02	12.70	--	91.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-3	10/12-15/09	--	104.02	13.23	--	90.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-3	04/19-22/10	--	104.02	11.24	--	92.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-3	01/17-20/11	--	104.02	10.62	--	93.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-3	05/10-12/11	--	104.02	10.77	--	93.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-3	05/07-08/12	NS	104.02	11.07	--	92.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-3	11/12-14/12	NS	104.02	12.44	--	91.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-3	5/20-22/13	NS	104.02	11.09	--	92.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-3	11/11-13/13	NS	104.02	12.81	--	91.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-3	8/14/2020	Inaccessible for sampling - Dumpster on well	136.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-3	8/15/2021	--	136.88	12.25	--	124.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-4	10/17/06	--	102.26	14.29	--	87.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-4	10/18/06	--	102.26	14.29	--	87.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-4	10/24/06	--	102.26	14.00	--	88.26	<b>4,900</b>	--	<b>920</b>	--	<b>1,400</b>	<b>2,320</b>	<b>260</b>	240	39	720	--	--	--	--	--	--	--	--		
DPE-4	04/17-19/07	--	102.26	19.17	--	83.09	<b>12,000</b>	--	<b>6,700</b>	--	<1,900	<b>7,650</b>	<b>2,200</b>	220	400	<b>2,000</b>	--	--	--	--	--	--	--	--		
DPE-4	12/04-06/07	--	102.26	19.42	--	82.84	210	--	330	--	<100	380	<b>44</b>	0.9	1	5.5	--	--	--	--	--	--	--	--		
DPE-4	04/28-30/08	--	102.39	17.36	--	85.03	410	--	<b>5,200</b>	--	<2,500	<b>6,450</b>	<b>51</b>	3	2	23	--	--	--	--	--	--	--	--		
DPE-4	4/30/2008	DUP	102.39	17.36	--	85.03	390	--	<b>2,500</b>	--	<2,000	<b>3,500</b>	<b>51</b>	3	2	23	--	--	--	--	--	--	--	--		
DPE-4	11/03/08	--	102.39	14.14	--	88.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-4	04/13-16/09 <sup>15</sup>	--	102.39	12.56	--	89.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-4	10/12-15/09	--	102.39	12.76	--	89.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-4	04/19-22/10	--	102.39	10.95	--	91.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-4	01/17-20/11	--	102.39	10.40	--	91.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-4	05/10-12/11	--	102.39	10.47	--	91.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-4	05/07-08/12	NS	102.39	10.74	--	91.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-4	11/12-14/12	NS	102.39	11.85	--	90.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-4	5/20-22/13	NS	102.39	10.69	--	91.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-4	11/11-13/13	NS	102.39	12.19	--	90.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-4	8/12/20	--	135.11	12.50	--	122.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-9	10/17/06	--	103.38	14.92	--	88.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-9	10/18/06	--	103.38	14.92	--	88.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-9	10/24/06	Sheen	103.38	13.78	--	89.60	<48	--	220	--	<100	270	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
DPE-9	04/17-18/07	--	103.38	14.13	--	89.25	<50	--	380	--	<b>530</b>	<b>910</b>	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--		
DPE-9	12/04/07	--	103.38	16.23	--	87.15	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
DPE-9	04/28/08	OBSTRUCTION IN WELL	103.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-9	11/03/08	--	103.46	15.06	--	88.40	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
DPE-9	04/13-16/09	--	103.46	12.30	--	91.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-9	10/12-15/09	--	103.46	13.56	--	89.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-9	04/19-22/10	--	103.46	11.51	--	91.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-9	01/17-20/11	--	103.46	11.63	--	91.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-9	05/10-212/11	--	103.46	11.10	--	92.36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-9	05/07-08/12	NS	103.46	11.33	--	92.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-9	11/12-14/12	NS	103.46	12.57	--	90.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-9	05/20-22/13	NS	103.46	11.28	--	92.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-9	11/11-13/13	NS	103.46	12.90	--	90.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
DPE-9	8/12/2020	--	136.17	13.38	--	122.79	62.0 BJ	117 J	<200	<250	<250	242	<1.0	<1.0	<1.0	<3.0	--	<b>&lt;0.02</b>	--	<6.0	<6.0	--	<5.0 J0	--		
DPE-9	8/12/2020	DUP	136.17	13.38	--	122.79	36.5 J	106 J	<200	<250	<250	231	<1.0	<1.0	<1.0	<3.0	--	<b>&lt;0.02</b>	--	<6.0	<6.0	--	<5.0 J0	--		
MP-1	07/24/02	INACCESSIBLE - UNABLE TO OPEN WELL	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MP-1	10/17-18/02	INACCESSIBLE - UNABLE TO OPEN WELL	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MP-1	08/03/04	--	104.95	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
MP-1	04/17/06	--	104.95	4.32	--	100.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MP-1	8/13/2020	Decommissioned	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MP-2	07/24/02	INACCESSIBLE - VEHICLE PARKED OVER	--	--	--	--	--																			

**Table 5**  
**Off-Property Groundwater Gauging Data and Analytical Results**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**



Well ID	Date	Notes	TOC	DTW	NAPL Thickness	GWE	GRO	DRO - No Silica Gel	DRO - with Silica Gel	HO - No Silica Gel	HO - with Silica Gel	DRO + HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Dissolved Lead	Arsenic	Naphthalene Method 8270	Naphthalene Method 8260B		
<b>Model Toxics Control Act (MTC) Method A Cleanup Levels (CULs) in µg/L</b>							<b>800/1,000</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>5</b>	<b>1,000</b>	<b>700</b>	<b>1,000</b>	<b>20</b>	<b>0.01</b>	<b>5</b>	<b>15</b>	<b>15</b>	<b>5</b>	<b>160</b>	<b>160</b>		
MP-2	04/17/06	--	97.04	114.56	--	-17.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MP-2	8/13/2020	Not monitored	--	116.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-2/VP-3	07/07/93	--	104.75	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
MW-2/VP-3	07/24/02	--	104.75	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
MW-2/VP-3	10/17-18/02	--	104.75	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
MW-2/VP-3	01/21/03	--	104.75	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
MW-2/VP-3	04/23-24/03	--	104.75	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
MW-2/VP-3	06/30-07/01/03	--	104.75	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
MW-2/VP-3	10/01-02/03	--	104.75	9.05	--	95.70	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
MW-2/VP-3	01/21-23/04	--	104.75	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
MW-2/VP-3	04/29-30/04	--	104.75	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
MW-2/VP-3	07/15-16/04	--	104.75	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
MW-2/VP-3	08/03/04	--	104.75	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
MW-2/VP-3	10/28-11/01/04	--	104.75	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
MW-2/VP-3	01/24-31/05	--	104.75	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
MW-2/VP-3	04/18-21/05	--	104.75	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
MW-2/VP-3	07/27-28/05	--	104.75	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
MW-2/VP-3	11/08-10/05	--	104.75	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
MW-2/VP-3	04/17/06	--	104.75	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
MW-2/VP-3	--	Decommissioned September 2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-3/VP-7	11/03/86	--	100.81	12.13	--	88.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-3/VP-7	09/90	--	100.51	11.48	--	89.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-3/VP-7	03/26-28/91	--	100.48	10.36	--	90.12	3,600	--	--	--	--	--	3,700	1,600	740	3,500	--	<0.01	67 J	--	74 J	92	--	--		
MW-3/VP-7	07/07/93	--	100.48	10.46	--	90.02	20,000	--	--	--	--	--	4,700	2,000	910	3,600	--	--	--	--	--	--	--	--		
MW-3/VP-7	10/95	--	100.48	--	--	--	33,000	--	--	--	--	--	11,700	2,330	1,070	4,130	--	--	--	--	5.6 P	--	--	--		
MW-3/VP-7	01/97	--	100.48	--	--	--	51,000	--	--	--	--	--	12,400	5,200	990	5,200	--	--	--	--	9.3	--	--	--		
MW-3/VP-7	04/97	--	100.48	--	--	--	53,000	--	--	--	--	--	11,100	4,800	1,400	6,600	--	--	--	--	3.4	--	--	--		
MW-3/VP-7	07/97	--	100.48	--	--	--	37,000	--	--	--	--	--	11,000	3,700	1,500	7,100	--	--	--	--	4.3 J	--	--	--		
MW-3/VP-7	11/97	--	100.48	--	--	--	34,000	--	--	--	--	--	15,900	3,600	1,500	6,600	--	--	--	--	5.0	--	--	--		
MW-3/VP-7	12/14/99	--	100.48	--	--	--	73,400	--	3,310	--	<500	3,560	16,800	9,670	1,890	10,500	--	--	--	--	--	--	--	--		
MW-3/VP-7	06/14/00	--	100.48	--	--	--	54,400	--	931	--	<1,460	1,661	10,000	8,230	1,380	7,470	--	--	--	--	--	--	--	--		
MW-3/VP-7	07/24/02	--	100.40	9.74	--	90.66	60,000	--	5,800	--	580	6,380	8,200	7,000	1,500	8,300	--	--	--	--	25.0	--	97.3	420		
MW-3/VP-7	10/17-18/02	--	100.40	10.57	--	89.83	71,600	--	5,160	--	510	5,670	11,100	5,880	1,940	10,800	<10.0	<1.00	<1.00	2.40	--	--	--	--		
MW-3/VP-7	01/21/03	--	100.40	10.29	--	90.11	41,600	--	714	--	<500	964	9,440	1,470	1,360	6,190	--	--	--	<1.00	--	--	--	--		
MW-3/VP-7	04/23-24/03	--	100.40	--	--	--	INACCESSIBLE - VEHICLE PARKED OVER WELL																			
MW-3/VP-7	06/30-07/01/03	--	100.40	10.11	0.03	90.31	NOT SAMPLED DUE TO THE PRESENCE OF NAPL																			
MW-3/VP-7	10/01-02/03	--	100.40	10.98	--	89.42	61,000	--	3,800	--	520	4,320	10,000	4,500	2,000	10,000	--	--	--	1.8	--	--	--	--		
MW-3/VP-7	01/21-23/04	--	100.40	10.09	--	90.31	1,700	--	<250	--	<250	250	660	69	70	350	--	--	--	<1.2	--	--	--	--		
MW-3/VP-7	04/29-30/04	--	100.40	9.96	--	90.44	<50	--	<800	--	<1,000	<900	28	1.7	1.8	6.0	--	--	--	<0.99	--	--	--	--		
MW-3/VP-7	07/15-16/04	--	100.40	10.38	--	90.02	36,800	--	342	--	<500	592	9,900	985	1,270	2,770	--	--	--	<1.00	--	--	--	--		
MW-3/VP-7	08/03/04	--	100.40	10.66	--	89.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-3/VP-7	10/28-11/01/04	--	100.40	10.76	--	89.64	100	--	850	--	<1,000	1,350	250	<0.5	<0.5	1.6	--	--	--	--	--	--	--	--		
MW-3/VP-7	01/24-31/05	--	100.40	10.13	--	90.27	21,000	--	390	--	<250	515	4,900	1,900	890	3,200	--	--	--	--	--	--	--	--		
MW-3/VP-7	04/18-21/05	--	100.40	9.97	--	90.43	26,000	--	4,000	--	<580	4,290	5,800	760	1,300	5,100	--	--	--	--	--	--	--	--		
MW-3/VP-7	07/27-28/05	--	100.40	10.28	--	90.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-3/VP-7	11/08-10/05	--	100.40	10.57	--	89.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-3/VP-7	02/22/06	--	100.40	9.89	--	90.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-3/VP-7	04/17/06	--	100.40	9.94	--	90.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-3/VP-7	10/17/06	--	100.40	12.31	--	88.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-3/VP-7	04/17/07	--	100.40	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
MW-3/VP-7	12/04/07	--	100.40	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
MW-3/VP-7	04/28/08	--	100.40	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
MW-3/VP-7	11/03/08	--	100.40	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
MW-3/VP-7	04/13-16/09	--	100.40	10.86	--	89.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-3/VP-7	10/12-15/09	--	100.40	11.17	--	89.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-3/VP-7	04/19-22/10	--	100.40	9.31	--	91.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-3/VP-7	01/17-20/11	--	100.40	8.79	--	91.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-3/VP-7	05/10-12/11	--	100.40	8.93	--	91.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-3/VP-7	05/07-08/12	--	100.40	9.05	--	91.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-3/VP-7	11/12-14/12	--	100.40	10.51	--	89.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-3/VP-7	5/20-22/13	--	100.40	8.97	--	91.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-3/VP-7	11/11-13/13	--	100.40	10.64	--	89.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-3/VP-7	8/10/2020	Obstruction in well	133.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-4	11/03/86	--	102.38	13.55	--	88.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-4	09/90	--	102.08	12.87	--	89.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		

**Table 5**  
**Off-Property Groundwater Gauging Data and Analytical Results**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**



Well ID	Date	Notes	TOC	DTW	NAPL Thickness	GWE	GRO	DRO - No Silica Gel	DRO - with Silica Gel	HO - No Silica Gel	HO - with Silica Gel	DRO + HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Dissolved Lead	Arsenic	Naphthalene Method 8270	Naphthalene Method 8260B	
<b>Model Toxics Control Act (MTC) Method A Cleanup Levels (CULs) in µg/L</b>							800/1,000	500	500	500	500	500	5	1,000	700	1,000	20	0.01	5	15	15	5	160	160	
MW-4	03/91	--	102.08	11.78	--	90.30	12,000	--	--	--	--	--	10,000	12,000	500	9,800	--	--	--	63	--	--	--	--	
MW-4	07/93	--	102.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	10/95	--	102.08	--	--	--	95,000	--	--	--	--	--	19,600E	12,000	2,070	10,800	--	--	--	30.6	--	--	--	--	
MW-4	01/97	--	102.08	--	--	--	88,000	--	--	--	--	--	12,900	12,400	1,400	10,600	--	--	--	36.5	--	--	--	--	
MW-4	04/97	--	102.08	--	--	--	100,000	--	--	--	--	--	14,300	14,500	1,700	11,000	--	--	--	20.7	--	--	--	--	
MW-4	07/97	--	102.08	--	--	--	120,000	--	--	--	--	--	19,600	19,700	2,100	13,100	--	--	--	19.5	--	--	--	--	
MW-4	11/97	--	102.08	--	--	--	89,000	--	--	--	--	--	17,500	16,000	1,900	12,200	--	--	--	16.2	--	--	--	--	
MW-4	12/15/99	--	102.08	--	--	--	73,300	--	3,340	--	<500	3,590	13,700	13,500	1,830	11,000	--	--	--	--	--	--	--	--	
MW-4	06/14/00	--	102.08	--	--	--	74,400	--	3,390	--	<1,240	4,010	14,400	9,440	1,840	10,800	--	--	--	--	--	--	--	--	
MW-4	07/24/02	--	102.07	11.18	--	90.89	83,000	--	10,000	--	680	10,680	11,000	9,900	1,800	11,000	--	--	--	15.5	--	31.0	500	360	
MW-4	10/17-18/02	--	102.07	11.98	--	90.09	110,000	--	9,860	--	697	10,557	14,500	11,600	2,630	15,200	--	--	--	10.7	--	--	--	--	
MW-4	10/17-18/02	Duplicate Sample	102.07	--	--	--	92,400	--	7,100	--	<500	7,350	12,400	9,980	2,090	12,200	--	--	--	9.61	--	--	--	--	
MW-4	01/21/03	--	102.07	11.81	--	90.26	80,000	--	2,540	--	<500	2,790	10,700	10,100	1,920	11,700	--	--	--	14.5	--	--	--	--	
MW-4	04/23-24/03	--	102.07	11.03	--	91.04	79,300	--	1,680	--	<500	1,930	8,990	7,350	1,780	10,300	--	--	--	5.74	--	--	--	--	
MW-4	06/30-07/01/03	--	102.07	11.55	--	90.52	108,000	--	3,910	--	<500	4,160	12,100	11,200	2,630	15,300	--	--	--	7.85	--	--	--	--	
MW-4	10/01-02/03	--	102.07	12.46	--	89.61	100,000	--	3,800	--	<500	4,050	9,700	11,000	2,000	12,000	--	--	--	7.1	--	--	--	--	
MW-4	01/21-23/04	--	102.07	11.59	--	90.48	93,000	--	62,000	--	2,800	64,800	11,000	10,000	1,800	12,000	--	--	--	6.7	--	--	--	--	
MW-4	04/29-30/04	--	102.07	11.48	--	90.59	80,000	--	13,000	--	610	13,610	8,900	8,200	1,600	11,000	--	--	--	14.3	--	--	--	--	
MW-4	07/15-16/04	--	102.07	11.88	--	90.19	100,000	--	943	--	<500	1,193	10,300	7,600	2,090	13,300	--	--	--	9.06	--	--	--	--	
MW-4	08/03/04	--	102.07	12.09	--	89.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	10/28-11/01/04	--	102.07	12.26	--	89.81	71,000	--	7,500	--	<1,000	8,000	9,000	5,900	2,000	12,000	--	--	--	--	--	--	--	--	
MW-4	01/24-31/05	--	102.07	11.68	--	90.39	56,000	--	1,500	--	<250	1,625	8,900	5,100	1,700	9,600	--	--	--	--	--	--	--	--	
MW-4	04/18-21/05	--	102.07	11.47	--	90.60	64,000	--	3,700	--	<510	3,955	9,200	6,800	2,000	12,000	--	--	--	--	--	--	--	--	
MW-4	07/27-28/05	--	102.07	11.73	--	90.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	11/08-10/05	--	102.07	12.12	--	89.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	02/22/06	--	102.07	10.38	--	91.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	04/17/06	--	102.07	11.59	--	90.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	08/08/06	--	102.07	13.37	--	88.70	23,000	--	--	--	--	--	1,500	870	750	4,400	--	--	--	--	--	--	--	--	
MW-4	08/19/06	--	102.07	13.78	0.06	88.34	NOT SAMPLED DUE TO THE PRESENCE OF NAPL																		
MW-4	10/17/06	--	102.07	13.92	--	88.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	04/17-18/07	--	102.07	15.65	--	86.42	650	--	210	--	<94	257	280	7.7	66	22	--	--	--	--	--	--	--	--	
MW-4	12/04/07	--	102.07	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER																		
MW-4	04/28/08	--	101.95	17.21	--	84.74	NOT SAMPLED DUE TO INSUFFICIENT WATER																		
MW-4	11/10/08	--	101.95	13.85	--	88.10	150	--	2,300	--	67	2,367	9	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	
MW-4	04/13-16/09	--	101.95	12.23	--	89.72	1,500	--	9,700	--	<340	9,870	22	0.7	0.6	4	--	--	--	--	--	--	--	--	
MW-4	10/12-15/09	--	101.95	12.48	--	89.47	3,100	--	11,000	--	<720	11,360	25	2	3	8	--	--	--	--	--	--	--	--	
MW-4	04/19-22/10	--	101.95	10.60	--	91.35	1,400	--	7,200	--	680	7,880	550	3	8	8	--	--	--	--	--	--	--	--	
MW-4	01/17-20/11	--	101.95	10.07	--	91.88	1,600	--	4,300	--	1,800	6,100	25	0.7	2	2	--	--	--	--	--	--	--	--	
MW-4	05/10-12/11	--	101.95	10.19	--	91.76	3,100	--	8,100	--	1,100	9,200	52	2	3	6	--	--	--	--	--	--	--	--	
MW-4	05/07-08/12	--	101.95	10.41	--	91.54	1,900	--	250	--	<68	284	25	0.8	2	3	--	--	--	--	--	--	--	--	
MW-4	11/12-14/12	--	101.95	11.65	--	90.30	2,700	--	290	--	<72	326	30	0.8	2	3	--	--	--	--	--	--	--	--	
MW-4	5/20-22/13	--	101.95	10.48	--	91.47	2,600	--	340	--	<67	373.5	16	0.6	2	3	--	--	--	--	--	--	--	--	
MW-4	11/11-13/13	--	101.95	11.96	--	89.99	1,400	--	180	--	<71	215.5	16	0.5	0.6	3	--	--	--	--	--	--	--	--	
MW-4	8/12/2020	--	134.76	12.17	--	122.59	550	2,940	906	799	141 J	3,739	4.11	0.32 J	<1.0	0.83 J	--	<0.02	--	<6.0	<6.0	--	<5.0 J0	--	
MW-5/VP-5	11/03/86	--	103.21	15.15	--	88.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5/VP-5	09/90	--	102.92	13.49	--	89.43	6,600	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5/VP-5	03/26-28/91	--	102.91	12.58	--	90.33	--	--	--	--	--	--	5,300	1,300	900	4,600	--	--	--	29	--	--	--	--	
MW-5/VP-5	07/07/93	--	102.91	12.29	--	90.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5/VP-5	12/15/99	--	102.91	--	--	--	23,400	--	2,490	--	<500	2,740	841	191	1,480	7,720	--	--	--	--	--	--	--	--	
MW-5/VP-5	06/13/00	--	102.91	--	--	--	25,600	--	1,340	--	<1,120	1,900	793	155	1,380	5,690	--	--	--	--	--	--	--	--	
MW-5/VP-5	07/24/02	--	102.63	--	--	--	INACCESSIBLE - VEHICLE PARKED OVER WELL																		
MW-5/VP-5	10/17-18/02	--	102.63	12.31	--	90.32	15,900	--	3,900	--	<500	4,150	318	49.3	880	1,870	--	--	--	2.29	--	--	--	--	
MW-5/VP-5	01/21/03	--	102.63	--	--	--	INACCESSIBLE - VEHICLE PARKED OVER WELL																		
MW-5/VP-5	04/23-24/03	--	102.63	--	--	--	INACCESSIBLE - VEHICLE PARKED OVER WELL																		
MW-5/VP-5	06/30-07/01/03	--	102.63	--	--	--	INACCESSIBLE - VEHICLE PARKED OVER WELL																		
MW-5/VP-5	10/01-02/03	--	102.63	12.81	--	89.82	22,000	--	1,500	--	270	1,770	330	76	1,000	2,200	--	--	--	2.4	--	--	--	--	
MW-5/VP-5	01/21-23/04	--	102.63	11.91	--	90.72	19,000	--	1,500	--	310	1,810	310	100	980	1,600	--	--	--	1.7	--	--	--	--	
MW-5/VP-5	04/29-30/04	--	102.63	11.80	--	90.83	3,500	--	1,400	--	400	1,800	61	13	190	180	--	--	--	<0.99	--	--	--	--	
MW-5/VP-5	07/15-16/04	--	102.63	12.22	--	90.41	7,900	--	<250	--	<500	375	58.3	18.4	384	475	--	--	--	<1.00	--	--	--	--	
MW-5/VP-5	08/03/04	--	102.63	12.52	--	90.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5/VP-5	10/28-11/01/04	--	102.63	12.57	--	90.06	19,000	--	710	--	<200	810	98	56	860	1,600	--	--	--	--	--	--	--	--	
MW-5/VP-5	01/24-31/05	--	102.63	11.96	--	90.67	1																		











**Table 5**  
**Off-Property Groundwater Gauging Data and Analytical Results**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**



Well ID	Date	Notes	TOC	DTW	NAPL Thickness	GWE	GRO	DRO - No Silica Gel	DRO - with Silica Gel	HO - No Silica Gel	HO - with Silica Gel	DRO + HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Dissolved Lead	Arsenic	Naphthalene Method 8270	Naphthalene Method 8260B		
<b>Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs) in µg/L</b>							<b>800/1,000</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>5</b>	<b>1,000</b>	<b>700</b>	<b>1,000</b>	<b>20</b>	<b>0.01</b>	<b>5</b>	<b>15</b>	<b>15</b>	<b>5</b>	<b>160</b>	<b>160</b>		
MW-18	10/12-15/09	--	101.52	12.13	--	89.39	310	--	590	--	<66	623	8	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-18	04/19-22/10	--	101.52	10.25	--	91.27	91	--	1,000	--	<75	1,038	3	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-18	01/17-20/11	--	101.52	9.73	--	91.79	<50	--	270	--	270	540	0.6	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-18	05/10-12/11	--	101.52	9.83	--	91.69	220	--	280	--	<71	315.5	11	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-18	05/07-08/12	--	101.52	10.00	--	91.52	<50	--	<30	--	<69	49.5	1	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-18	11/12-14/12	--	101.52	11.25	--	90.27	1,500	--	37	--	<71	72.5	48	<5	<5	<5	--	--	--	--	--	--	--	--		
MW-18	5/20-22/13	--	101.52	10.05	--	91.47	500	--	<30	--	<69	49.5	10	<5	0.6	0.7	--	--	--	--	--	--	--	--		
MW-18	11/11-13/13	--	101.52	11.58	--	89.94	610	--	<30	--	<70	50	13	<5	0.8	1.0	--	--	--	--	--	--	--	--		
MW-18	8/11/2020	--	134.36	11.81	--	122.55	1,750	1,030	659	316	<250	1,346	8.5	2.02	0.750 J	1.69 J	--	<0.02	--	4.89 J	<6.0	--	<5.0 J0	--		
MW-19	04/29-30/04	--	--	10.63	--	--	18,000	--	680	--	<250	805	1,700	1,700	470	2,400	--	--	--	--	<0.99	--	--	--		
MW-19	07/15-16/04	--	--	11.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-19	08/03/04	--	101.18	11.31	--	89.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-19	10/28-11/01/04	--	101.18	11.41	--	89.77	21,000	--	270	--	<100	320	1,900	1,400	880	3,500	--	--	--	--	--	--	--	--		
MW-19	01/24-31/05	--	101.18	10.78	--	90.40	25,000	--	280	--	<250	405	1,700	1,500	940	3,700	--	--	--	--	--	--	--	--		
MW-19	04/18-21/05	--	101.18	10.61	--	90.57	23,000	--	1,200	--	<250	1,325	1,900	1,400	1,000	3,800	--	--	--	--	--	--	--	--		
MW-19	07/27-28/05	--	101.18	10.92	--	90.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-19	11/08-10/05	--	101.18	11.25	--	89.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-19	02/22/06	--	101.18	9.55	--	91.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-19	04/17/06	--	101.18	10.61	--	90.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-19	10/17/06	--	101.18	12.93	--	88.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-19	04/17/07	--	101.18	15.27	--	85.91	130	--	<75	--	<94	84.5	3.2	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--		
MW-19	12/04/07	--	101.18	19.80	--	81.38	<50	--	<78	--	<98	88	3.0	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--		
MW-19	04/28-29/08	--	101.18	16.4516	--	84.73	90	--	<78	--	<98	88	2	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-19	11/03/08	--	101.18	13.14	--	88.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-19	04/13-16/09	--	101.18	11.50	--	89.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-19	10/12-15/09	--	101.18	11.83	--	89.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-19	04/19-22/10	--	101.18	10.06	--	91.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-19	01/17-20/11	--	101.18	9.45	--	91.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-19	05/10-12/11	--	101.18	9.56	--	91.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-19	05/07-08/12	--	101.18	9.70	--	91.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-19	11/12-14/12	--	101.18	10.92	--	90.26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-19	5/20-22/13	--	101.18	9.78	--	91.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-19	11/11-13/13	--	101.18	11.27	--	89.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-19	8/12/20	Obstruction in well	134.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-20	10/28-11/01/04	--	105.64	8.91	--	96.73	<50	--	<80	--	220	260	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--		
MW-20	01/24-31/05	--	105.64	5.94	--	99.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-20	04/18-21/05	--	105.64	6.39	--	99.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-20	07/27-28/05	--	105.64	7.88	--	97.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-20	11/08-10/05	--	105.64	8.08	--	97.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-20	02/22/06	--	105.64	6.56	--	99.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-20	04/17/06	--	105.64	6.64	--	99.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-20	08/08/06	--	105.64	8.00	--	97.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-20	10/17/06	--	105.64	8.32	--	97.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-20	04/17/07	--	105.64	6.93	--	98.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-20	12/04/07	--	105.64	5.46	--	100.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-20	04/28/08	--	105.64	7.07	--	98.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-20	11/03/08	--	105.64	8.10	--	97.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-20	04/13-16/09	--	105.64	6.51	--	99.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-20	10/12-15/09	--	105.64	8.13	--	97.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-20	04/19-22/10	--	105.64	7.10	--	98.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-20	01/17-20/11	--	105.64	5.39	--	100.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-20	05/10-12/11	--	105.64	6.98	--	98.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-20	05/07-08/12	--	105.64	6.52	--	99.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-20	11/12-14/12	--	105.64	7.92	--	97.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-20	5/20-22/13	--	105.64	7.50	--	98.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-20	11/11-13/13	--	105.64	7.94	--	97.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-20	8/12/2020	--	138.44	8.10	--	130.34	58.3 BJ	<200	<200	<250	<250	225	<1.0	<1.0	<1.0	<3.0	--	<0.02	--	<6.0	<6.0	--	<5.0 J0	--		
MW-21	08/03/04	--	94.76	25.89	--	68.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-21	08/12/04	--	94.76	25.89	--	68.87	120	--	140	--	160	300	360	<0.5	<0.5	3.1	--	--	--	--	<10	--	--	--		
MW-21	10/28-11/01/04	--	94.76	25.95	--	68.81	31,000	--	<800	--	<1,000	<900	5,200	730	1,300	4,500	--	--	--	--	--	--	--	--		
MW-21	01/24-31/05	--	94.76	25.85	--	68.91	130	--	<250	--	<250	250	230	0.6	<0.5	4.3	--	--	--	--	--	--	--	--		
MW-21	02/17/05	--	94.76	25.82	--	68.94	130	--	<85	--	<110	97.5	280	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--		
MW-21	04/18-21/05	--	94.76	25.94	--	68.82	110	--	<250	--	<250	250	230	<0.5	<0.5	3.9	--	--	--	--	--	--	--	--		
MW-21	07/27-28/05	--	94.76	25.75	--	69.01	79	--	<250	--	<250	250	220	<0.5	<0.5	<3.0	--	--	--	--	--	--	--	--		
MW-21	11/08-10/05	--	94.76	25.96	--	68.80	110	--	<78	--	<97	87.5	250	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--		



**Table 5**  
**Off-Property Groundwater Gauging Data and Analytical Results**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**



Well ID	Date	Notes	TOC	DTW	NAPL Thickness	GWE	GRO	DRO - No Silica Gel	DRO - with Silica Gel	HO - No Silica Gel	HO - with Silica Gel	DRO + HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Dissolved Lead	Arsenic	Naphthalene Method 8270	Naphthalene Method 8260B		
<b>Model Toxics Control Act (MTC) Method A Cleanup Levels (CULs) in µg/L</b>							<b>800/1,000</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>5</b>	<b>1,000</b>	<b>700</b>	<b>1,000</b>	<b>20</b>	<b>0.01</b>	<b>5</b>	<b>15</b>	<b>15</b>	<b>5</b>	<b>160</b>	<b>160</b>		
MW-23	05/07-08/12	--	107.82	7.20	--	100.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-23	11/12-14/12	--	107.82	9.09	--	98.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-23	5/20-22/13	--	107.82	7.02	--	100.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-23	11/11-13/13	--	107.82	8.14	--	99.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-23	8/10/2020	Inaccessible for sampling due to construction.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-23	8/16/2021	Located, well vault stuck.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-24	10/26-27/04	--	107.95	--	--	--	500	--	<800	--	<1,000	<900	--	--	--	--	--	--	--	--	--	--	--	--		
MW-24	10/28/04	--	107.95	6.41	--	101.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-24	10/28-11/01/04	--	107.95	14.20	--	93.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-24	01/24-31/05	--	107.95	5.58	--	102.37	<50	--	<250	--	<250	250	<0.5	0.6	<0.5	1.6	--	--	--	--	--	--	--	--		
MW-24	04/18-21/05	--	107.95	4.76	--	103.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-24	07/27-28/05	--	107.95	6.68	--	101.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-24	11/08-10/05	--	107.95	4.84	--	103.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-24	02/22/06	--	107.95	5.81	--	102.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-24	04/17/06	--	107.95	5.55	--	102.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-24	04/17/07	--	107.95	5.63	--	102.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-24	12/04/07	--	107.95	4.61	--	103.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-24	04/28/08	--	107.95	4.96	--	102.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-24	11/03/08	--	107.95	4.65	--	103.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-24	04/13-16/09	--	107.95	4.65	--	103.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-24	10/12-15/09	--	107.95	5.82	--	102.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-24	04/19-22/10	--	107.95	5.40	--	102.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-24	01/17-20/11	--	107.95	4.62	--	103.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-24	05/10-12/11	--	107.95	5.65	--	102.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-24	05/07-08/12	--	107.95	4.85	--	103.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-24	11/12-14/12	--	107.95	4.82	--	103.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-24	05/20-22/13	--	107.95	5.84	--	102.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-24	11/11-13/13	--	107.95	5.35	--	102.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-24	8/14/2020	Well damaged during construction	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-25	10/26-27/04	--	102.96	--	--	--	11,000	--	260	--	<99	309.5	--	--	--	--	--	--	--	--	--	--	--	--		
MW-25	10/28-11/01/04	--	102.96	12.36	--	90.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-25	01/24-31/05	--	102.96	11.81	--	91.15	7,400	--	440	--	<250	565	6.8	42	160	1,100	--	--	--	--	--	--	--	--		
MW-25	04/18-21/05	--	102.96	11.63	--	91.33	22,000	--	2,800	--	<250	2,925	17	300	750	3,900	--	--	--	--	--	--	--	--		
MW-25	07/27-28/05	--	102.96	11.73	--	91.23	22,000	--	2,400	--	<250	2,525	<20	210	630	3,100	--	--	--	--	--	--	--	--		
MW-25	11/08-10/05	--	102.96	12.23	--	90.73	14,000	--	870	--	<100	920	<20	59	450	1,600	--	--	--	--	--	--	--	--		
MW-25	02/22/06	--	102.96	10.50	--	92.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-25	04/17/06	--	102.96	11.65	--	91.31	780	--	520	--	<100	570	<2.0	2.9	14	49	--	--	--	--	--	--	--	--		
MW-25	08/08/06	--	102.96	13.39	--	89.57	6,300	--	1,100	--	210	1,310	19	31	240	650	--	--	--	--	--	--	--	--		
MW-25	10/17/06	--	102.96	14.06	--	88.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-25	04/17/07	--	102.96	16.00	--	86.96	1,900	--	1,200	--	<110	1,255	7	13	55	97	--	--	--	--	--	--	--	--		
MW-25	12/04/07	--	102.96	18.05	--	84.91	2,400	--	2,000	--	<100	2,050	10	2.9	73	47	--	--	--	--	--	--	--	--		
MW-25	04/28/08	--	102.96	17.34	--	85.62	250	--	120	--	<96	168	1	0.7	11	0.9	--	--	--	--	--	--	--	--		
MW-25	11/04/08	--	102.96	14.08	--	88.88	150	--	33	--	<72	69	2	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-25	04/13-16/09	--	102.96	12.44	--	90.52	190	--	340	--	<66	373	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-25	10/12-15/09	--	102.96	12.62	--	90.34	570	--	440	--	<70	475	<0.5	<0.5	3	0.7	--	--	--	--	--	--	--	--		
MW-25	04/19-22/10	--	102.96	10.80	--	92.16	<50	--	540	--	93	633	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-25	01/17-20/11	--	102.96	10.28	--	92.68	<50	--	670	--	180	850	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-25	05/10-12/11	--	102.96	10.20	--	92.76	<50	--	560	--	180	740	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-25	05/07-08/12	--	102.96	10.54	--	92.42	<50	--	<30	--	<70	50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-25	11/12-14/12	--	102.96	11.80	--	91.16	<50	--	<30	--	<70	50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-25	05/20-22/13	--	102.96	10.53	--	92.43	<50	--	<29	--	<67	48	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-25	11/11-13/13	--	102.96	12.10	--	90.86	<50	--	<31	--	<71	51	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-25	8/12/2020	--	134.80	11.90	--	122.90	54.3 BJ	374	88.9 J	377	93.6 J	751	<1.0	<1.0	<1.0	<3.0	--	<0.02	--	<6.0	<6.0	--	<5.0 J0	--		
MW-26	10/28-11/01/04	--	100.47	11.18	--	89.29	57,000	--	760	--	<200	860	8,300	4,300	1,600	8,700	--	--	--	--	--	--	--	--		
MW-26	01/24-31/05	--	100.47	10.59	--	89.88	3,100	--	<250	--	<250	250	310	190	54	510	--	--	--	--	--	--	--	--		
MW-26	02/17/05	--	100.47	10.56	--	89.91	27,000	--	310	--	<95	357.5	6,800	1,900	990	4,800	--	--	--	--	--	--	--	--		
MW-26	04/18-21/05	--	100.47	10.39	--	90.08	3,500	--	<250	--	<250	250	730	320	100	660	--	--	--	--	--	--	--	--		
MW-26	07/27-28/05	--	100.47	10.55	--	89.92	5,100	--	270	--	<250	395	1,200	370	130	880	--	--	--	--	--	--	--	--		
MW-26	11/08-10/05	--	100.47	11.02	--	89.45	15,000	--	1,200	--	<94	1,247	5,700	850	590	2,400	--	--	--	--	--	--	--	--		
MW-26	02/22/06	--	100.47	9.32	--	91.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-26	04/17/06	--	100.47	10.35	--	90.12	<48	--	<80	--	<100	90	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--		
MW-26	08/08/06	--	100.47	12.11	--	88.36	4,900	--	240	--	150	390	1,200	310	160	750	--	--	--	--	--	--	--	--		
MW-26	10/17/06	--	100.47	12.80	--	87.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-26	04/17-18/07	--	100.47	15.09	--	85.38	4,500	--	440	--	<100	490	730	63	230	660	--	--	--	--	--	--	--	--		
MW-26	12/04-05/07	--	100.47	18.05	--	82.42	3,400	--	400	--	<130	465	1,000	43	200	420	--	--	--	--	--	--	--	--		

**Table 5**  
**Off-Property Groundwater Gauging Data and Analytical Results**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**



Well ID	Date	Notes	TOC	DTW	NAPL Thickness	GWE	GRO	DRO - No Silica Gel	DRO - with Silica Gel	HO - No Silica Gel	HO - with Silica Gel	DRO + HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Dissolved Lead	Arsenic	Naphthalene Method 8270	Naphthalene Method 8260B		
<b>Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs) in µg/L</b>							<b>800/1,000</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>5</b>	<b>1,000</b>	<b>700</b>	<b>1,000</b>	<b>20</b>	<b>0.01</b>	<b>5</b>	<b>15</b>	<b>15</b>	<b>5</b>	<b>160</b>	<b>160</b>		
MW-26	04/28-05/01/08	--	100.47	16.31	--	84.16	130	--	280	--	<95	327.5	9	<0.5	4	<0.5	--	--	--	--	--	--	--	--		
MW-26	5/1/2008	DUP	100.47	16.31	--	84.16	140	--	630	--	<99	680	10	<0.5	5	<0.5	--	--	--	--	--	--	--	--		
MW-26	11/06/08	--	100.47	12.82	--	87.65	1,100	--	2,500	--	<66	2,533	450	1	110	3	--	--	--	--	--	--	--	--		
MW-26	04/13-16/09	--	100.47	11.23	--	89.24	<50	--	460	--	<66	493	26	<0.5	11	<0.5	--	--	--	--	--	--	--	--		
MW-26	10/12-15/09	--	100.47	11.41	--	89.06	<50	--	1,200	--	<69	1,235	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-26	04/19-22/10	--	100.47	9.64	--	90.83	<50	--	41	--	<74	78	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-26	01/17-20/11	--	100.47	9.08	--	91.39	<50	--	40	--	<71	75.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-26	05/10-12/11	--	100.47	9.08	--	91.39	<50	--	57	--	<68	91	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-26	05/07-08/12	--	100.47	9.35	--	91.12	<50	--	<29	--	<67	48	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-26	11/12-14/12	--	100.47	10.59	--	89.88	63	--	<28	--	<66	47	0.6	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-26	5/20-22/13	--	100.47	9.43	--	91.04	<50	--	<29	--	<67	48	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-26	11/11-13/13	--	100.47	10.91	--	89.56	<50	--	<29	--	<67	48	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-26	08/09/19	Sampled by PES Environmental, Inc.	133.28	10.96	--	122.32	<31.6	<66.7	--	<83.3	--	--	<0.0896	<0.412	--	--	--	--	--	--	--	<6.5	--	--		
MW-26	8/12/2020	--	133.28	10.94	--	122.34	58.5 BJ	<200	<200	<250	<250	225	<1.0	<1.0	<1.0	<3.0	--	<0.02	--	<6.0	<6.0	--	--	--		
MW-27	01/24-31/05	--	97.26	29.81	--	67.45	<50	--	<250	--	<250	250	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--		
MW-27	04/18-21/05	--	97.26	29.85	--	67.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-27	07/27-28/05	--	97.26	29.86	--	67.40	<50	--	<250	--	<250	250	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--		
MW-27	11/08-10/05	--	97.26	29.91	--	67.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-27	11/08-10/05	--	97.26	29.91	--	67.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-27	04/17/06	--	97.26	29.69	--	67.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-27	10/18/06	--	97.26	29.90	--	67.36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-27	8/11/2020	--	130.03	29.94	--	100.09	<100.0	<200	<200	138 J	138 J	238	<1.0	<1.0	<1.0	<3.0	--	<0.02	--	3.08 J	<6.0	--	<5.0 J0	--		
MW-28	01/24-31/05	--	87.78	21.18	--	66.60	<50	--	<250	--	<250	250	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--		
MW-28	02/10/05	--	87.78	21.17	--	66.61	<48	--	<79	--	<98	88.5	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--		
MW-28	04/18-21/05	--	87.78	21.22	--	66.56	<50	--	<250	--	<250	250	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--		
MW-28	07/27-28/05	--	87.78	21.26	--	66.52	<50	--	<250	--	<250	250	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--		
MW-28	11/08-10/05	--	87.78	21.32	--	66.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-28	04/17/06	--	87.78	21.19	--	66.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-28	10/18/06	--	87.78	21.28	--	66.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-28	8/11/2020	--	120.58	21.18	--	99.40	<100	<200	<200	111 J	111 J	211	<1.0	<1.0	<1.0	<3.0	--	<0.02	--	<6.0	<6.0	--	<5.0 J0	--		
MW-29	01/24-31/05	--	80.88	15.14	--	65.74	<50	--	<250	--	<250	250	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--		
MW-29	04/18-21/05	--	80.88	14.31	--	66.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-29	07/27-28/05	--	80.88	14.79	--	66.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-29	11/08-10/05	--	80.88	14.70	--	66.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-29	04/17/06	--	80.88	14.60	--	66.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-29	10/18/06	--	80.88	15.16	--	65.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-29	8/11/2020	--	113.73	14.35	--	99.38	<100	<200	<200	134 J	134 J	234	<1.0	<1.0	<1.0	<3.0	--	<0.02	--	5.72 J	4.01 J	--	<5.0 J0	--		
MW-30	02/10/05	--	91.81	24.70	--	67.11	<48	--	<77	--	<96	86.5	4.1	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--		
MW-30	04/18-21/05	--	91.81	24.76	--	67.05	<50	--	<250	--	<250	250	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--		
MW-30	07/27-28/05	--	91.81	24.72	--	67.09	<50	--	<250	--	<250	250	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--		
MW-30	11/08-10/05	--	91.81	24.82	--	66.99	<48	--	<83	--	<100	91.5	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--		
MW-30	04/17/06	--	91.81	24.68	--	67.13	<50	--	<80	--	<100	90	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--		
MW-30	10/17/06	--	91.81	24.80	--	67.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-30	04/17-18/07	--	91.81	24.72	--	67.09	<50	--	<76	--	<94	85	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--		
MW-30	12/04-05/07	--	91.81	24.84	--	66.97	<50	--	<75	--	<94	84.5	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--		
MW-30	04/28-30/08	--	91.81	24.81	--	67.00	<50	--	<77	--	<97	87	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-30	11/06/08	--	91.81	24.85	--	66.96	<50	--	<30	--	<71	50.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-30	11/6/2008	DUP	91.81	24.85	--	66.96	<50	--	<31	--	<71	51	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-30	04/13-16/09	--	91.81	24.81	--	67.00	<50	--	<29	--	<67	48	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-30	04/13-16/09	DUP	91.81	24.81	--	67.00	<50	--	--	--	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-30	10/12-15/09	--	91.81	24.77	--	67.04	<50	--	<29	--	<68	48.5	<0.5	0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-30	10/12-15/09	DUP	91.81	24.77	--	67.04	<50	--	--	--	--	--	<0.5	0.6	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-30	04/19-22/10	--	91.81	24.67	--	67.14	<50	--	<30	--	<71	50.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-30	04/19-22/10	DUP	91.81	24.67	--	67.14	<50	--	--	--	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-30	01/17-20/11	--	91.81	24.68	--	67.13	<50	--	67	--	<69															

**Table 5**  
**Off-Property Groundwater Gauging Data and Analytical Results**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**



Well ID	Date	Notes	TOC	DTW	NAPL Thickness	GWE	GRO	DRO - No Silica Gel	DRO - with Silica Gel	HO - No Silica Gel	HO - with Silica Gel	DRO + HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Dissolved Lead	Arsenic	Naphthalene Method 8270	Naphthalene Method 8260B		
<b>Model Toxics Control Act (MTC) Method A Cleanup Levels (CULs) in µg/L</b>							<b>800/1,000</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>5</b>	<b>1,000</b>	<b>700</b>	<b>1,000</b>	<b>20</b>	<b>0.01</b>	<b>5</b>	<b>15</b>	<b>15</b>	<b>5</b>	<b>160</b>	<b>160</b>		
MW-30	11/11-13/13	DUP	91.81	24.74	--	67.07	<50	--	--	--	--	--	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-30	8/11/2020	--	124.61	24.76	--	99.85	<100	74.3 J	74.3 J	136 J	136 J	210.3	<1.0	<1.0	<1.0	<3.0	--	<0.02	--	<6.0	<6.0	--	<5.0 J0	--		
MW-31	02/10/05	--	87.22	19.89	--	67.33	<48	--	<77	--	<96	86.5	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--		
MW-31	04/18-21/05	--	87.22	20.02	--	67.20	<50	--	<800	--	<1,000	<900	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--		
MW-31	07/27-28/05	--	87.22	19.89	--	67.33	<50	--	<250	--	<250	250	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--		
MW-31	11/08-10/05	--	87.22	20.12	--	67.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-31	04/17/06	--	87.22	19.94	--	67.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-31	10/17/06	--	87.22	20.14	--	67.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-31	04/17-18/07	--	87.22	19.78	--	67.44	<50	--	<75	--	<94	84.5	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--		
MW-31	12/04-05/07	--	87.22	20.14	--	67.08	<50	--	<75	--	<94	84.5	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--		
MW-31	04/28-30/08	--	87.22	20.06	--	67.16	<50	--	<81	--	<100	90.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-31	11/04/08	--	87.22	20.11	--	67.11	<50	--	<29	--	<69	49	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-31	04/13-16/09	--	87.22	20.04	--	67.18	<50	--	<29	--	<67	48	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-31	10/12-15/09	--	87.22	19.99	--	67.23	<50	--	<29	--	<68	48.5	<0.5	1	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-31	04/19-22/10	--	87.22	19.80	--	67.42	<50	--	<28	--	<66	47	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-31	01/17-20/11	--	87.22	19.79	--	67.43	<50	--	32	--	<70	67	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-31	05/10-12/11	--	87.22	19.70	--	67.52	<50	--	<31	--	<72	51.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-31	05/07-08/12	--	87.22	19.80	--	67.42	<50	--	<28	--	<66	47	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-31	11/12-14/12	--	87.22	20.00	--	67.22	<50	--	<28	--	<66	47	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-31	5/20-22/13	--	87.22	19.73	--	67.49	<50	--	<29	--	<67	48	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-31	11/11-13/13	--	87.22	19.93	--	67.29	<50	--	<29	--	<68	48.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-31	8/11/2020	--	120.07	19.98	--	100.09	<100	<200	<200	108 J	108 J	208	<1.0	<1.0	<1.0	<3.0	--	<0.02	--	3.93 J	<6.0	--	<5.0	--		
MW-32	07/27-28/05	--	101.09	11.43	--	89.66	17,000	--	1,200	--	<250	1,325	2,300	540	630	2,600	--	--	--	--	--	--	--	--		
MW-32	11/08-10/05	--	101.09	11.81	--	89.28	580	--	<80	--	<100	90	200	29	5.4	130	--	--	--	--	--	--	--	--		
MW-32	02/22/06	--	101.09	10.15	--	90.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-32	04/17/06	--	101.09	11.12	--	89.97	70	--	<81	--	<100	90.5	47	1.9	4.0	8.7	--	--	--	--	--	--	--	--		
MW-32	08/08/06	--	101.09	12.86	--	88.23	4,000	--	400	--	140	540	1,500	130	210	730	--	--	--	--	--	--	--	--		
MW-32	04/17-18/07	--	101.09	15.97	--	85.12	17,000	--	2,600	--	<940	3,070	2,400	170	830	2,400	--	--	--	--	--	--	--	--		
MW-32	12/04-05/07	--	101.09	18.42	--	82.67	670	--	<79	--	<98	88.5	310	6.6	57	73	--	--	--	--	--	--	--	--		
MW-32	04/29/08	--	101.09	17.0916	--	84.00	95	--	<79	--	<98	88.5	77	<0.5	9	2	--	--	--	--	--	--	--	--		
MW-32	11/04/08	--	101.09	13.56	--	87.53	130	--	41	--	<71	76.5	36	<0.5	2	<0.5	--	--	--	--	--	--	--	--		
MW-32	04/13-16/09	--	101.09	12.00	--	89.09	<50	--	330	--	<67	363.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-32	10/12-15/09	--	101.09	12.21	--	88.88	<50	--	74	--	<67	107.5	<0.5	0.7	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-32	04/19-22/10	--	101.09	10.44	--	90.65	<50	--	<31	--	<71	51	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-32	01/17-20/11	--	101.09	9.82	--	91.27	<50	--	34	--	<70	69	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-32	05/10-12/11	--	101.09	9.93	--	91.16	<50	--	34	--	<69	68.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-32	05/07-08/12	--	101.09	10.20	--	90.89	<50	--	<29	--	<69	49	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-32	11/12-14/12	--	101.09	11.38	--	89.71	<50	--	<29	--	<67	48	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-32	5/20-22/13	--	101.09	10.25	--	90.84	<50	--	<29	--	<68	48.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-32	11/11-13/13	--	101.09	19.90	--	81.19	<50	--	<29	--	<67	48	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-32	08/09/19	Sampled by PES Environmental, Inc.	133.91	11.82	--	122.09	<83.3	274	--	<83.3	--	--	<0.0896	<0.412	--	--	--	--	--	--	--	<6.5	--	--		
MW-32	8/12/2020	--	133.91	11.70	--	122.21	<100	<200	<250	<200	<250	200	<1.0	<1.0	<1.0	<3.0	--	<0.02	--	<6.0	<6.0	--	<5.0	--		
MW-33	07/27-28/05	--	100.31	28.33	--	71.98	2,200	--	630	--	<250	755	2,500	200	93	170	--	--	--	--	--	--	--	--		
MW-33	11/08-10/05	--	100.31	28.50	--	71.81	1,900	--	340	--	<100	390	4,800	180	110	170	--	--	--	--	--	--	--	--		
MW-33	04/17/06	--	100.36	27.95	--	72.41	1,900	--	250	--	<110	305	4,000	140	93	170	--	--	--	--	--	--	--	--		
MW-33	08/09/06	--	100.36	28.65	--	71.71	3,000	--	490	--	<98	539	4,100	220	180	290	--	--	--	--	--	--	--	--		
MW-33	10/17/06	--	100.36	28.96	--	71.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-33	04/17-18/07	--	100.36	29.65	--	70.71	1,600	--	400	--	<100	450	3,700	130	110	130	--	--	--	--	--	--	--	--		
MW-33	12/04-05/07	--	100.36	30.46	--	69.90	1,200	--	400	--	<94	447	3,300	110	76	86	--	--	--	--	--	--	--	--		
MW-33	04/28/08	--	100.36	30.4616	--	69.90	1,300	--	370	--	<100	420	2,400	86	75	76	--	--	--	--	--	--	--	--		
MW-33	11/04/08	--	100.36	29.62	--	70.74	1,200	--	270	--	<69	304.5	2,700	97	95	85	--	--	--	--	--	--	--	--		
MW-33	04/13-16/09	--	100.36	28.95	--	71.41	1,800	--	330	--	<68	364	2,500	73	110	76	--	--	--	--	--	--	--	--		
MW-33	10/12-15/09	--	100.36	28.63	--	71.73	1,200	--	210	--	<68	244	1,300	37	78	40	--	--	--	--	--	--	--	--		
MW-33	04/19-22/10	--	100.36	27.91	--	72.45	790	--	270	--	<72															

**Table 5**  
**Off-Property Groundwater Gauging Data and Analytical Results**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**



Well ID	Date	Notes	TOC	DTW	NAPL Thickness	GWE	GRO	DRO - No Silica Gel	DRO - with Silica Gel	HO - No Silica Gel	HO - with Silica Gel	DRO + HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Dissolved Lead	Arsenic	Naphthalene Method 8270	Naphthalene Method 8260B		
<b>Model Toxics Control Act (MTC) Method A Cleanup Levels (CULs) in µg/L</b>							<b>800/1,000</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>5</b>	<b>1,000</b>	<b>700</b>	<b>1,000</b>	<b>20</b>	<b>0.01</b>	<b>5</b>	<b>15</b>	<b>15</b>	<b>5</b>	<b>160</b>	<b>160</b>		
MW-34	04/17-18/07	--	94.35	27.06	--	67.29	<50	--	<81	--	<100	90.5	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--		
MW-34	12/04-05/07	--	94.35	27.22	--	67.13	60	--	<78	--	<98	88	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	--	--		
MW-34	04/28-30/08	--	94.35	27.15	--	67.20	<50	--	<80	--	<100	90	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-34	11/06/08	--	94.35	27.19	--	67.16	<50	--	<31	--	<73	52	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-34	04/13-16/09	--	94.35	27.15	--	67.20	<50	--	<29	--	<67	48	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-34	10/12-15/09	--	94.35	27.10	--	67.25	<50	--	<29	--	<67	48	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-34	04/19-22/10	--	94.35	26.96	--	67.39	<50	--	<30	--	<69	49.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-34	01/17-20/11	--	94.35	27.00	--	67.35	<50	--	39	--	<69	73.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-34	05/10-12/11	--	94.35	26.90	--	67.45	<50	--	<60	--	<140	100	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-34	05/07-08/12	--	94.35	27.00	--	67.35	<50	--	<28	--	<66	47	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-34	11/12-14/12	--	94.35	27.09	--	67.26	<50	--	<28	--	<66	47	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-34	5/20-22/13	--	94.35	26.99	--	67.36	<50	--	<29	--	<67	48	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-34	11/11-13/13	--	94.35	27.08	--	67.27	<50	--	<29	--	<68	48.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-34	8/11/2020	--	127.12	27.07	--	100.05	<100	<200	<200	139 J	139 J	239	<1.0	<1.0	<1.0	<3.0	--	<0.02	--	5.08 J	2.96 J	--	<5.0	--		
MW-35	11/28/05	--	100.52	--	--	--	250	--	280	--	180	460	--	--	--	--	<0.5	--	<0.5	--	--	--	--	--		
MW-35	02/22/06	--	100.52	30.32	--	70.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-35	04/17/06	--	100.52	30.41	--	70.11	370	--	270	--	<100	320	100	1.3	1.0	3.9	--	--	--	--	--	--	--	--		
MW-35	08/09/06	--	100.52	30.75	--	69.77	780	--	300	--	230	530	150	3.1	1.9	5.8	--	--	--	--	--	--	--	--		
MW-35	10/18/06	--	100.52	30.94	--	69.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-35	04/17/07	--	100.52	31.19	--	69.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-35	12/04/07	--	100.52	31.89	--	68.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-35	04/28-05/01/08	--	100.52	31.78	--	68.74	110	--	180	--	<100	230	45	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-35	11/05/08	--	100.52	31.48	--	69.04	180	--	110	--	<67	143.5	150	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-35	04/13-16/09	--	100.52	31.22	--	69.30	83	--	120	--	<68	154	100	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-35	10/12-15/09	--	100.52	30.98	--	69.54	<50	--	50	--	<68	84	58	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-35	04/19-22/10	--	100.52	30.45	--	70.07	<50	--	59	--	<71	94.5	66	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-35	01/17-20/11	--	100.52	30.43	--	70.09	<50	--	170	--	220	390	5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-35	05/10-12/11	--	100.52	30.00	--	70.52	<50	--	60	--	<70	95	4	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-35	05/07-08/12	--	100.52	30.30	--	70.22	<50	--	<30	--	<70	50	0.6	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-35	11/12-14/12	--	100.52	30.52	--	70.00	<50	--	<29	--	<67	48	1	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-35	5/20-22/13	--	100.52	30.06	--	70.46	<50	--	<29	--	<68	48.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-35	11/11-13/13	--	100.52	30.49	--	70.03	<50	--	<28	--	<66	47	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
MW-35	08/09/19	Sampled by PES Environmental, Inc. See note 1	133.33	30.51	--	102.82	<31.6	<66.7	--	<83.3	--	--	<0.0896	<0.412	--	--	--	--	--	--	--	40.4**	--	--		
MW-35	8/11/2020	Sampled by PES Environmental, Inc.	133.33	30.50	--	102.83	<100	<200	<200	133 J	133 J	233	<1.0	<1.0	<1.0	<3.0	--	<0.02	--	3.58 J	4.76 J	--	<5.0	--		
OTBMW-1	08/09/19	Sampled by PES Environmental, Inc.	134.93	12.50	--	122.43	<31.6	<66.7	--	<83.3	--	--	<0.0896	<0.412	--	--	--	--	--	--	--	<6.5	--	--		
OTBMW-2	08/09/19	Sampled by PES Environmental, Inc.	134.72	12.39	--	122.33	<31.6	330	--	<83.3	--	--	<0.0896	<0.412	--	--	--	--	--	--	--	<6.5	--	--		
QAAMW-1	08/09/19	Sampled by PES Environmental, Inc.	128.93	24.78	--	104.15	586	<66.7	--	278	--	--	<0.0896	<0.412	--	--	--	--	--	--	--	<6.5	--	--		
RW-2	09/90	--	104.54	12.68	0.04	91.89	NOT SAMPLED DUE TO THE PRESENCE OF NAPL																			
RW-2	03/91	--	104.54	10.13	0.08	94.47	4,100,000	--	--	--	--	--	19,000	46,000	2,500	120,000	--	--	--	250	--	--	--	--		
RW-2	07/93	--	104.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-2	10/95	--	104.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-2	01/97	--	104.54	--	--	--	390	--	--	--	--	--	31	14	6	49	--	--	--	11	--	--	--	--		
RW-2	04/97	--	104.54	--	--	--	11,000	--	--	--	--	--	189	243	99	743	--	--	--	18.2	--	--	--	--		
RW-2	07/97	--	104.54	--	--	--	24,000	--	--	--	--	--	4,230	2,490	398	2,732	--	--	--	47.5	--	--	--	--		
RW-2	11/97	--	--	--	--	--	4,400	--	--	--	--	--	3,140	1,200	338	2,265	--	--	--	15.4	--	--	--	--		
RW-2	07/24/02	UNABLE TO LOCATE	106.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-2	10/17-18/02	--	106.63	14.44	--	92.19	1,380	--	988	--	<500	1,238	90.5	8.05	29.2	31.5	--	--	--	2.23	--	--	--	--		
RW-2	01/21/03	--	106.63	10.61	--	96.02	126	--	<250	--	<500	375	33.5	0.859	1.28	4.11	--	--	--	<1.00	--	--	--	--		
RW-2	04/23-24/03	--	106.63	10.30	--	96.33	55.7	--	<250	--	<500	375	<0.500	<0.500	0.642	2.64	--	--	--	<1.00	--	--	--	--		
RW-2	06/30-07/01/03	--	106.63	13.72	--	92.91	2,380	--	505	--	<500	755	53.5	8.72	39.8	43.2	--	--	--	1.43	--	--	--	--		
RW-2	10/01-02/03	--	106.63	15.05	--	91.58	2,300	--	1,400	--	<250	1,525	75	7.3	29	33	--	--	--	4.9	--	--	--	--		
RW-2	01/21-23/04	--	106.63	10.22	--	96.41	53	--	<250	--	<250	250	1.2	0.7	1.3	8.9	--	--	--	<1.2	--	--	--	--		
RW-2	04/29-30/04	--	106.63	13.31	--	93.32	81	--	270	--	<250	395	11	0.9	2.0	1.9	--	--	--	<0.99	--	--	--	--		
RW-2	07/15-16/04	--	106.63	14.41	--	92.22	634	--	<250	--	<500	375	25.7	2.39	6.18	3.55	--	--	--	<1.00	--	--	--	--		
RW-2	08/03/04	--	106.63	14.90	--	91.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-2	10/28-11/01/04	--	106.63	14.68	--	91.95	26,000	--	280,000	--	<40,000	300,000	410	63	470	950	--	--	--	--	--	--	--	--		
RW-2	01/24-31/05	--	106.63	11.57	--	95.06	94	--	<250	--	<250	250	<0.5	<0.5	<2.0	2.5	--	--	--	--	--	--	--	--		
RW-2	04/18-21/05	--	106.63	9.18	--	97.45	130	--	260	--	<250	385	0.8	<0.5	2.3	6.1	--	--	--	--	--	--	--	--		
RW-2	07/27-28/05	--	106.63	14.16	--	92.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-2	11/08-10/05	--	106.63	9.99	--	96.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-2	04/17/06	--	106.63	10.80	--	95.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-2	10/18/06	--	106.63	17.96	--	88.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-2	04/17-18/07	--	106.63	17.12	--	89.51	650	--	15,000	--	<1,9															

**Table 5**  
**Off-Property Groundwater Gauging Data and Analytical Results**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**



Well ID	Date	Notes	TOC	DTW	NAPL Thickness	GWE	GRO	DRO - No Silica Gel	DRO - with Silica Gel	HO - No Silica Gel	HO - with Silica Gel	DRO + HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Dissolved Lead	Arsenic	Naphthalene Method 8270	Naphthalene Method 8260B		
<b>Model Toxics Control Act (MTC) Method A Cleanup Levels (CULs) in µg/L</b>							<b>800/1,000</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>5</b>	<b>1,000</b>	<b>700</b>	<b>1,000</b>	<b>20</b>	<b>0.01</b>	<b>5</b>	<b>15</b>	<b>15</b>	<b>5</b>	<b>160</b>	<b>160</b>		
RW-2	11/04/08	--	106.63	15.66	--	90.97	890	--	1,000	--	<66	1,033	82	9	14	6	--	--	--	--	--	--	--	--		
RW-2	04/13-16/09	--	106.63	13.80	--	92.83	340	--	840	--	<65	873	21	0.9	0.5	0.8	--	--	--	--	--	--	--	--		
RW-2	10/12-15/09	--	106.63	14.75	--	91.88	1,100	--	4,300	--	<680	4,640	35	4	7	11	--	--	--	--	--	--	--	--		
RW-2	04/19-22/10	--	106.63	12.56	--	94.07	160	--	430	--	240	670	9	0.7	<0.5	<0.5	--	--	--	--	--	--	--	--		
RW-2	01/17-20/11	--	106.63	9.70	--	96.93	150	--	270	--	190	460	<0.5	<0.5	8	16	--	--	--	--	--	--	--	--		
RW-2	05/10-12/11	--	106.63	11.96	--	94.67	<50	--	230	--	91	321	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
RW-2	05/07-08/12	--	106.63	11.40	--	95.23	<50	--	<30	--	<69	49.5	<0.5	<0.5	2	3	--	--	--	--	--	--	--	--		
RW-2	11/12-14/12	--	106.63	13.50	--	93.13	87	--	<29	--	<67	48	5	<0.5	<0.5	0.9	--	--	--	--	--	--	--	--		
RW-2	5/20-22/13	--	106.63	12.57	--	94.06	<50	--	<30	--	<69	49.5	1	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
RW-2	11/11-13/13	--	106.63	14.36	--	92.27	<50	--	<31	--	<73	52	2	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--		
RW-2	8/13/2020	Not accessible due to construction.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-2	6/18/2021	Could not be located	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-3	07/07/93	--	100.70	16.14	--	84.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-3	07/24/02	--	100.70	--	--	--	UNABLE TO LOCATE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-3	10/17-18/02	--	100.70	--	--	--	UNABLE TO LOCATE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-3	01/21/03	--	100.70	--	--	--	UNABLE TO LOCATE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-3	04/23-24/03	--	100.70	--	--	--	UNABLE TO LOCATE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-3	06/30-07/01/03	--	100.70	--	--	--	UNABLE TO LOCATE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-3	10/01-02/03	--	100.70	--	--	--	UNABLE TO LOCATE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-3	01/21-23/04	--	100.70	10.32	--	90.38	9,100	--	3,000	--	270	3,270	4,400	360	520	1,300	--	--	--	--	12.0	--	--	--		
RW-3	04/29-30/04	--	100.70	10.19	--	90.51	11,000	--	5,200	--	<250	5,325	5,000	750	550	1,600	--	--	--	--	10.6	--	--	--		
RW-3	07/15-16/04	--	100.70	10.59	--	90.11	18,900	--	1,300	--	1,330	2,630	5,350	341	554	1,350	--	--	--	--	2.32	--	--	--		
RW-3	10/28-11/01/04	--	100.70	10.98	--	89.72	10,000	--	680	--	<250	805	4,800	120	680	1,100	--	--	--	--	--	--	--	--		
RW-3	01/24-31/05	--	100.70	10.49	--	90.21	6,600	--	770	--	<250	895	3,000	170	460	940	--	--	--	--	--	--	--	--		
RW-3	04/18-21/05	--	100.70	10.17	--	90.53	8,200	--	3,700	--	<250	3,825	3,900	380	550	1,300	--	--	--	--	--	--	--	--		
RW-3	07/27-28/05	--	100.70	10.45	--	90.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-3	11/08-10/05	--	100.70	10.57	--	90.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-3	04/17/06	--	100.70	10.72	--	89.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-3	10/18/06	--	100.70	12.55	--	88.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-3	8/13/2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-3	6/18/2021	--	100.70	9.74	--	90.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-5	07/07/93	--	104.22	12.34	--	91.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-5	07/24/02	UNABLE TO LOCATE	104.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-5	10/17-18/02	--	104.22	12.63	--	91.59	3,370	--	84,900	--	3,650	88,550	--	67.2	63.0	408	--	--	--	--	3.91	--	--	--		
RW-5	01/21/03	--	104.22	11.81	--	92.41	493	--	1,860	--	<500	2,110	17.1	4.43	1.37	52.9	--	--	--	--	13.3	--	--	--		
RW-5	04/23-24/03	--	104.22	11.31	--	92.91	2,490	--	2,050	--	<500	2,300	9.73	13.4	<5.00	870	--	--	--	--	7.31	--	--	--		
RW-5	06/30-07/01/03	--	104.22	11.91	--	92.31	2,170	--	8,010	--	<500	8,260	34.6	20.3	8.10	1,050	--	--	--	--	1.98	--	--	--		
RW-5	10/01-02/03	--	104.22	13.29	--	90.93	NOT SAMPLED DUE TO INSUFFICIENT WATER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-5	01/21-23/04	--	104.22	11.52	--	92.70	470	--	1,800	--	<250	1,925	64	12	2.5	65	--	--	--	--	1.6	--	--	--		
RW-5	04/29-30/04	--	104.22	11.88	--	92.34	NOT SAMPLED DUE TO INSUFFICIENT WATER/OBSTRUCTION	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-5	07/15-16/04	--	104.22	13.32	--	90.90	NOT SAMPLED DUE TO INSUFFICIENT WATER/OBSTRUCTION	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-5	10/28-11/01/04	--	104.22	12.98	--	91.24	890	--	36,000	--	<10,000	41,000	120	12	11	58	--	--	--	--	--	--	--	--		
RW-5	01/24-31/05	--	104.22	11.31	--	92.91	880	--	3,200	--	360	3,560	45	13	6.6	190	--	--	--	--	--	--	--	--		
RW-5	04/18-21/05	--	104.22	11.40	--	92.82	150	--	1,900	--	400	2,300	1.3	<0.5	0.8	9.4	--	--	--	--	--	--	--	--		
RW-5	07/27-28/05	--	104.22	12.16	--	92.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-5	11/08-10/05	--	104.22	--	--	INACCESSIBLE - UNABLE TO MONITOR DUE TO CONSTRUCTION	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-5	04/17/06	--	104.22	12.41	--	91.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-5	10/18/06	--	104.22	14.38	--	89.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-5	8/13/2020	Not monitored	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RW-5	6/18/2021	Could not open well cap	104.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SS1-W1	12/6/2017	--	148.83	10.75	--	138.08	<100	<200	--	<400	--	300	<1.0	<2.0	<1.0	<3.0	--	--	--	--	--	--	--	--		
SS1-W1	11/13/2018	--	148.83	11.92	--	136.91	<100	<50	--	<250	--	150	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	--		
SS1-W1	8/13/2020	--	148.79	12.45	--	136.34	<100	<200	<200	<250	<250	225	<1.0	<1.0	<1.0	<3.0	--	--	<0.02	--	<6.0	<6.0	--	<5.0		
SS1-W2	12/6/2017	--	146.93	13.65	--	133.28	<100	<200	--	<400	--	300	<1.0	<2.0	<1.0	<3.0	--	--	--	--	--	--	--	--		
SS1-W2	11/13/2018	--	146.93	14.54	--	132.39	<100	<50	--	<250	--	150	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	--		
SS1-W2	8/13/2020	Inaccessible due to construction	146.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SS1-W2	8/16/2021	--	146.85	15.47	--	131.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
VP-1	6/14/2000	--	103.03	--	--	--	5,000	--	75,600	--	<12,500	81,850	21.6	14.4	32.8	435	--	--	--	--	--	--	--	--		
VP-1	7/24/2002	--	103.03	11.59	--	91.44	35,000	--	18,000	--	1,500	19,500	120	820	280	4,600	--	--	--	--	22.9	--	160	--		
VP-1	10/17-18/02	--	103.03	12.70	--	90.33	27,300	--	7,500	--	598	8,098	170	756	334	4,820	--	--	--	--	18.0	--	--	--		
VP-1	1/21/2003	--	103.03	12.70	--	90.33	36,700	--	14,200	--	807	15,007	90.5	801	500	6,630	--	--	--	--	47.1	--	--	--		
VP-1	04/23-24/03	--	103.03	11.63	--	91.40	24,200	--	2,830	--	<500	3,080	110	136	225	2,780	--	--	--	--	36.4	--	--	--		
VP-1	06/30-07/01/03	--	103.03	12.21	--	90.82	8,000	--	20,200	--	1,750	21,950	36.8	49.2	47.1	618	--	--	--	--	13.2	--	--	--		
VP-1	10/01-02/03	--	103.03	13.11	--	89.92	7,600	--	40,000	--	6,300	46,300	56	47	22	690	--	--	--	--	31.2	--	--	--		

**Table 5**  
**Off-Property Groundwater Gauging Data and Analytical Results**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**



Well ID	Date	Notes	TOC	DTW	NAPL Thickness	GWE	GRO	DRO - No Silica Gel	DRO - with Silica Gel	HO - No Silica Gel	HO - with Silica Gel	DRO + HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Dissolved Lead	Arsenic	Naphthalene Method 8270	Naphthalene Method 8260B		
<b>Model Toxics Control Act (MTC) Method A Cleanup Levels (CULs) in µg/L</b>							<b>800/1,000</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>5</b>	<b>1,000</b>	<b>700</b>	<b>1,000</b>	<b>20</b>	<b>0.01</b>	<b>5</b>	<b>15</b>	<b>15</b>	<b>5</b>	<b>160</b>	<b>160</b>		
VP-1	01/21-23/04	--	103.03	12.21	--	90.82	4,500	--	17,000	--	3,200	20,200	11	6.2	<20	85	--	--	--	--	4.2	--	--	--		
VP-1	04/29-30/04	--	103.03	11.87	--	91.16	4,200	--	3,600	--	1,100	4,700	24	3.6	9.8	85	--	--	--	--	2.6	--	--	--		
VP-1	07/15-16/04	--	103.03	13.41	--	89.62	1,880	--	1,050	--	<500	1,300	21.7	2.77	6.92	50.7	--	--	--	--	2.5	--	--	--		
VP-1	8/3/2004	--	103.03	12.71	--	90.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
VP-1	10/28-11/01/04	--	103.03	12.84	--	90.19	2,100	--	35,000	--	18,000	53,000	25	5.5	7.6	97	--	--	--	--	--	--	--	--		
VP-1	01/24-31/05	--	103.03	12.38	--	90.65	670	--	3,600	--	1,300	4,900	5.2	0.8	1.4	13	--	--	--	--	--	--	--	--		
VP-1	04/18-21/05	--	103.03	12.09	--	90.94	340	--	5,500	--	2,200	7,700	<1.0	<0.5	0.7	5.2	--	--	--	--	--	--	--	--		
VP-1	07/27-28/05	--	103.03	12.38	--	90.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
VP-1	11/08-10/05	--	103.03	13.48	--	89.55	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
VP-1	2/22/06	--	103.03	10.89	--	92.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
VP-1	4/17/06	--	103.03	12.10	--	90.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
VP-1	--	Decommissioned September 2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
VP-2	12/15/99	--	104.72	--	--	--	5,980	--	29,900	--	<2,500	31,150	935	345	43.8	305	--	--	--	--	--	--	--	--		
VP-2	06/14/00	--	104.72	--	--	--	2,030	2,810	2,810	--	<1,000	3,310	45.9	16.2	<3.00	196	--	--	--	--	--	--	--	--		
VP-2	07/24/02	--	104.72	--	--	--	UNABLE TO LOCATE																			
VP-2	10/17-18/02	--	104.72	13.60	--	91.12	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
VP-2	01/21/03	--	104.72	13.63	--	91.09	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
VP-2	04/23-24/03	--	104.72	12.15	--	92.57	6,230	--	12,100	--	<250	12,225	549	42.6	106	1,120	--	--	--	--	1.52	--	--	--		
VP-2	06/30-07/01/03	--	104.72	12.51	--	92.21	3,330	--	35,900	--	1,380	37,280	180	58.8	32.4	510	--	--	--	--	3.97	--	--	--		
VP-2	10/01-02/03	--	104.72	14.12	--	90.60	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
VP-2	01/21-23/04	--	104.72	13.06	--	91.66	1,700	--	480,000	--	<56,000	508,000	69	16	<10	210	--	--	--	--	5.3	--	--	--		
VP-2	04/29-30/04	--	104.72	10.53	--	94.19	6,400	--	850	--	2,200	3,050	1,500	94	68	760	--	--	--	--	2.1	--	--	--		
VP-2	07/15-16/04	--	104.72	13.52	--	91.20	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
VP-2	08/03/04	--	104.72	13.66	--	91.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
VP-2	10/28-11/01/04	--	105.11	14.18	--	90.93	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
VP-2	01/24-31/05	--	105.11	13.51	--	91.60	640	--	24,000	--	1,600	25,600	23	3.6	5.3	57	--	--	--	--	--	--	--	--		
VP-2	04/18-21/05	--	105.11	13.20	--	91.91	<50	--	120,000	--	8,700	128,700	2.1	<0.5	<0.5	3.6	--	--	--	--	--	--	--	--		
VP-2	07/27-28/05	--	105.11	13.75	--	91.36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
VP-2	11/08-10/05	--	105.11	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
VP-2	02/22/06	--	105.11	12.02	--	93.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
VP-2	04/17/06	--	105.11	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
VP-2	10/17/06	--	105.11	14.66	--	90.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
VP-2	04/17/07	--	105.11	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER																			
VP-2	12/04/07	--	105.11	14.70	--	90.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
VP-2	04/28/08	--	105.11	14.65	--	90.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
VP-2	11/03/08	--	105.11	14.76	--	90.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
VP-2	04/13-16/09	--	105.11	13.88	--	91.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
VP-2	10/12-15/09	--	105.11	14.47	--	90.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
VP-2	04/19-22/10	--	105.11	12.25	--	92.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
VP-2	01/17-20/11	--	105.11	11.58	--	93.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
VP-2	05/10-12/11	--	105.11	11.97	--	93.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
VP-2	05/07-08/12	--	105.11	12.12	--	92.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
VP-2	11/12-14/12	--	105.11	13.48	--	91.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
VP-2	5/20-22/13	--	105.11	12.15	--	92.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
VP-2	11/11-13/13	--	105.11	13.88	--	91.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
VP-2	8/13/2020	Insufficient water	137.97	14.78	--	123.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
VP-4	06/13/00	--	103.35	--	--	--	26,400	--	1,850	--	<552	2,126	1,020	3,270	809	6,160	--	--	--	--	--	--	--	--		
VP-4	07/24/02	--	103.35	11.89	--	91.46	89,000	--	78,000	--	<9,700	82,850	7,300	7,500	1,900	13,000	--	--	--	--	28.0	--	--	--		
VP-4	10/17-18/02	--	103.35	12.78	0.03	90.59	NOT SAMPLED DUE TO THE PRESENCE OF NAPL																			
VP-4	01/21/03	--	103.35	12.71	0.10	90.72	NOT SAMPLED DUE TO THE PRESENCE OF NAPL																			
VP-4	04/23-24/03	--	103.35	11.75	0.03	91.62	NOT SAMPLED DUE TO THE PRESENCE OF NAPL																			
VP-4	06/30-07/01/03	--	103.35	12.34	0.03	91.03	NOT SAMPLED DUE TO THE PRESENCE OF NAPL																			
VP-4	10/01-02/03	--	103.35	13.29	0.03	90.08	NOT SAMPLED DUE TO THE PRESENCE OF NAPL																			
VP-4	01/21-23/04	--	103.35	12.37	0.03	91.00	NOT SAMPLED DUE TO THE PRESENCE OF NAPL																			
VP-4	04/29-30/04	--	103.35	12.21	--	91.14	150	--	28,000	--	<2,300	29,150	1.7	2.6	1	20	--	--	--	--	4.0	--	--	--		
VP-4	07/15-16/04	--	103.35	12.62	--	90.73	32,200	--	18,600	--	789	19,389	2,230	746	212	3,710	--	--	--	--	8.9	--	--	--		
VP-4	08/03/04	--	103.35	12.91	--	90.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
VP-4	10/28-11/01/04	--	103.35	12.98	--	90.37	48,000	--	330,000	--	<100,000	380,000	2,500	1,400	560	5,400	--	--	--	--	--	--	--	--		
VP-4	01/24-31/05	--	103.35	12.38	--	90.97	19,000	--	110,000	--	<9,500	114,750	360	750	89	2,000	--	--	--	--	--	--	--	--		
VP-4	04/18-21/05	--	103.35	12.14	--	91.21	2,800	--	46,000	--	<10,000	51,000	23	30	6.8	270	--	--	--	--	--	--	--	--		
VP-4	07/27-28/05	--	103.35	12.51	--	90.84	--	--</																		

**Table 5**  
**Off-Property Groundwater Gauging Data and Analytical Results**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**



Well ID	Date	Notes	TOC	DTW	NAPL Thickness	GWE	GRO	DRO - No Silica Gel	DRO - with Silica Gel	HO - No Silica Gel	HO - with Silica Gel	DRO + HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Total Lead	Dissolved Lead	Arsenic	Naphthalene Method 8270	Naphthalene Method 8260B
<b>Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs) in µg/L</b>							<b>800/1,000</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>5</b>	<b>1,000</b>	<b>700</b>	<b>1,000</b>	<b>20</b>	<b>0.01</b>	<b>5</b>	<b>15</b>	<b>15</b>	<b>5</b>	<b>160</b>	<b>160</b>
VP-4	04/17/07	--	103.35	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER																	
VP-4	12/04/07	--	103.35	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER																	
VP-4	04/28/08	--	103.35	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER																	
VP-4	11/03/08	--	103.35	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER																	
VP-4	04/13-16/09	--	103.35	12.89	--	90.46	NOT SAMPLED DUE TO INSUFFICIENT WATER																	
VP-4	10/12-15/09	--	103.35	13.30	--	90.05	NOT SAMPLED DUE TO INSUFFICIENT WATER																	
VP-4	04/19-22/10	--	103.35	11.32	--	92.03	640	--	13,000	--	2,600	15,600	2	0.7	0.8	6	--	--	--	--	--	--	--	
VP-4	01/17-20/11	--	103.35	10.92	--	92.43	350	--	8,500	--	2,300	10,800	0.7	<0.5	<0.5	3	--	--	--	--	--	--	--	
VP-4	05/10-12/11	--	103.35	10.91	--	92.44	280	--	2,200	--	510	2,710	1	<0.5	0.6	7	--	--	--	--	--	--	--	
VP-4	05/07-08/12	--	103.35	11.15	--	92.20	430	--	19,000	--	3,200	22,200	1	0.6	1	2	--	--	--	--	--	--	--	
VP-4	11/12-14/12	--	103.35	12.42	--	90.93	350	--	26,000	--	3,300	29,300	1	0.6	0.5	2	--	--	--	--	--	--	--	
VP-4	5/20-22/13	--	103.35	11.21	--	92.14	1,100	--	2,800	--	430	3,230	2	1.0	2	5	--	--	--	--	--	--	--	
VP-4	11/11-13/13	--	103.35	12.78	--	90.57	560	--	8,400	--	1,500	9,900	0.8	0.6	<0.5	1	--	--	--	--	--	--	--	
VP-4	8/12/2020	--	136.13	13.12	--	123.01	918	829	208	179 J	<250	1,008	0.652 J	1.14	1.21	10.9	--	<0.02	--	<6.0	<6.0	--	5.79 J0	
<b>GROUNDWATER GRAB SAMPLE</b>																								
DVP-1	09/12/02	Groundwater Grab Sample	--	--	--	--	98,100	--	--	--	--	--	7,640	18,600	2,660	15,000	--	--	--	--	--	--	--	--
DVP-2	09/12/02	Groundwater Grab Sample	--	--	--	--	107,000	--	--	--	--	--	13,500	19,100	2,140	12,400	--	--	--	--	--	--	--	--
DVP-4	09/12/02	Groundwater Grab Sample - DVP-2 Duplicate	--	--	--	--	102,000	--	--	--	--	--	12,300	17,400	1,980	11,500	--	--	--	--	--	--	--	--
SB-4	08/07/19	Grab Sample by PES Environmental, Inc.	--	--	--	--	551	559	--	<83.3	--	--	6.1	0.986	--	--	--	--	--	--	--	12.4	--	--
SS1-P1	12/2/2017	Groundwater Grab Sample	--	--	--	--	ND<100	ND<200	--	ND<400	--	--	ND<1.0	ND<2.0	ND<1.0	ND<2.0	--	--	--	--	--	--	--	--
SS1-P2	12/2/2017	Groundwater Grab Sample	--	--	--	--	ND<100	ND<200	--	ND<400	--	--	ND<1.0	ND<2.0	ND<1.0	ND<2.0	--	--	--	--	--	--	--	--
Station 5	04/05/91	Groundwater sample collected from vapor point 5	--	--	--	--	7,400	--	--	--	--	--	5,040	12.3	42.1	41.2	--	--	--	--	--	--	--	--
Station 5	04/05/91	Groundwater sample collected from vapor point (duplicate)	--	--	--	--	7,030	--	--	--	--	--	3,850	15.0	51.8	50.9	--	--	--	--	--	--	--	--
Station 5	04/19/91	Groundwater sample collected from vapor point 5	--	--	--	--	<0.05	--	--	--	--	--	<0.5	<1.0	<1.0	1.4 J	--	--	--	--	--	--	--	--
Station 25	04/05/91	Groundwater sample collected from vapor point 25	--	--	--	--	3,000	--	--	--	--	--	0.9 J	13.8	10.2	134	--	--	--	--	--	--	--	--

**Notes:**  
 Results reported in micrograms per liter (µg/L).  
 1. A filtered sample was also analyzed for dissolved arsenic; which is below the method reporting limit.

**Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs)**  
 800/1,000 = GRO MTCA Method A CUL with benzene present is 800 µg/L and without is 1,000 µg/L  
**BOLD and highlighted** values are greater than their respective MTCA Method A CUL.  
**BOLD** values are non-detect below the laboratory method detection limit (MDL), but the MDL is greater than the MTCA Method A CUL.

**Abbreviations:**  
 DTW = Depth to water; DTW in feet below TOC  
 NAPL = Non-aqueous phase liquid; NAPL thickness in feet  
 GWE = Groundwater elevation; GWE in feet based on Washington State Plane, North Zone, NAD 83 (2011)  
 GRO = Gasoline Range Organics analyzed by Ecology Method NWTPH-Gx  
 DRO = Diesel Range Organics analyzed by Ecology Method NWTPH-Dx  
 HO = Heavy Oil Range Organics analyzed by Ecology Method NWTPH-Dx  
 MTBE = Methyl tertiary-butyl ether

EDB = Ethylene dibromide  
 EDC = 1,2-Dichloroethane  
 -- = Not analyzed/not applicable  
 < = Analytical result is less than reporting limit shown  
 DUP = Duplicate sample  
 TOC = Top of casing; TOC elevation surveyed in feet on 8/12 - 8/13/2020 based on Washington State Plane, North Zone, NAD 83 (2011).  
 Prior to 2020, the TOC elevation was based on an arbitrary benchmark. (Leidos. 2013. Second Annual GWM Report)

**Methods:**  
 GRO, DRO, HO analyzed by Ecology Northwest Methods  
 Benzene, toluene, ethylbenzene, and total xylenes (BTEX), naphthalene, MTBE, and EDC analyzed by United States Environmental Protection Agency (USEPA) Method 8260B  
 Naphthalene also analyzed by United States Environmental Protection Agency (USEPA) Method 8270  
 Lead by USEPA Method 6010C  
 EDB by USEPA Method 8011

**Laboratory qualifiers:**  
 J = estimated value - The result is greater than or equal to the MDL and less than the Limit of Quantitation (LOQ)  
 J0 = estimated value - The calibration method criteria.  
 B = Compound was found in the blank and sample  
 P = The analyte was detected above the instrument detection limit but below the established minimum quantitation limit  
 \* = RPD of the LCS and LCSD exceeds the control limits  
 \*\* = A filtered sample was analyzed for dissolved arsenic and found to be below the Method Reporting Limit.

**Table 6**  
**Off-Property Groundwater Gauging Data and Analytical Results - Chlorinated VOCs**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**



Well ID	Date	Notes	TOC	DTW	NAPL	GWE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	PCE	TCE	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
<b>Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs) in µg/L</b>							<b>16</b>	<b>--</b>	<b>0.2</b>	<b>5</b>	<b>5</b>	<b>--</b>	<b>--</b>
DPE-1/VP-6	8/14/2020	Decomissioned	--	--	--	--	--	--	--	--	--	--	--
DPE-2	8/12/2020	--	135.67	12.53	--	123.14	17.6	--	--	0.542 J	1.54	0.561 J	0.926 J
DPE-3	8/14/2020	Inaccessible for Sampling - Dumpster on well	136.88	--	--	--	--	--	--	--	--	--	--
DPE-4	8/14/2020	--	135.11	12.50	--	122.61	--	--	--	--	--	--	--
DPE-9	8/12/2020	--	136.17	13.38	--	122.79	<1.0	--	--	<1.0	<1.0	<1.0	<1.0
DPE-9	8/12/2020	DUP	136.17	13.38	--	122.79	<1.0	--	--	<1.0	<1.0	0.479 J	0.494 J
MP-1	8/13/2020	Not monitored	--	--	--	--	--	--	--	--	--	--	--
MP-2	8/13/2020	Not monitored	--	116.45	--	--	--	--	--	--	--	--	--
MW-2/VP-3	--	Decommissioned September 2006	--	--	--	--	--	--	--	--	--	--	--
MW-3/VP-7	3/26-28/91	--	--	--	--	--	--	--	--	29 J	67 J	--	--
MW-3/VP-7	07/93	--	--	--	--	--	--	--	--	--	--	--	--
MW-3/VP-7	8/10/2020	Obstruction in well	133.22	10.82	--	122.40	--	--	--	--	--	--	--
MW-4	07/93	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	7/24/2002	--	--	--	--	--	<8.0	--	--	<8.0	<10	1,800	500
MW-4	8/12/2020	--	134.76	12.17	--	122.59	<1.0	--	--	<1.0	<1.0	<1.0	<1.0
MW-5/VP-5	8/12/2020	--	135.44	12.78	--	122.66	124	--	--	11	35.3	<1.0	<1.0
MW-7/VP-8	3/26-28/91	--	--	--	--	--	--	--	--	140	170	--	--
MW-7/VP-8	07/93	--	--	--	--	--	--	--	--	--	--	--	--
MW-7/VP-8	10/95	--	--	--	--	--	26	--	--	167	69	19	6.2
MW-7/VP-8	01/97	--	--	--	--	--	<10	--	--	<10	<10	109	111
MW-7/VP-8	04/97	--	--	--	--	--	5.1	--	--	<10	<10	290	170
MW-7/VP-8	07/97	--	--	--	--	--	483	--	--	53	80	282	143
MW-7/VP-8	11/97	--	--	--	--	--	135	--	--	120	106	27	15
MW-7/VP-8	8/12/2020	--	137.73	14.34	--	123.39	185	--	--	13.1	39	<1.0	<1.0
MW-11	7/24/2002	--	--	--	--	--	<1	--	--	<1	<1	<1	<1
MW-11	8/14/2020	Obstruction in well	130.19	--	--	--	--	--	--	--	--	--	--
MW-12	10/17-18/02	--	130.19	--	--	--	9.07	--	--	9.58	2.75	<1.00	<1.00
MW-12	8/14/2020	Not accessible for sampling in 2020 due to construction. Damaged during construction in 2021.	--	--	--	--	--	--	--	--	--	--	--
MW-14	8/14/2020	Inaccessible for Sampling - Vehicle Parked on well	--	--	--	--	--	--	--	--	--	--	--
MW-15	8/14/2020	Inaccessible for Sampling - Vehicle Parked on well	--	--	--	--	--	--	--	--	--	--	--
MW-16	8/9/2019	Sampled by PES Environmental, Inc.	134.58	12.11	--	122.47	<0.0933	<0.152	<0.118	<0.199	<0.153	--	--
MW-16	8/12/2020	--	134.58	12.03	--	122.55	<1.0	--	--	<1.0	<1.0	<1.0	<1.0
MW-17	8/9/2019	Sampled by PES Environmental, Inc.	132.70	9.99	--	122.71	<0.0933	<0.152	<0.118	<0.199	<0.153	--	--
MW-17	8/11/2020	--	--	9.81	--	--	<1.0	--	--	<1.0	<1.0	<1.0	<1.0
MW-17	8/11/2020	DUP	--	9.81	--	--	<1.0	--	--	<1.0	<1.0	<1.0	<1.0
MW-18	8/11/2020	--	134.36	11.81	--	122.55	24.7	--	--	<1.0	<1.0	1.7	0.194 J
MW-19	8/12/2020	Obstruction in well	134.02	--	--	--	--	--	--	--	--	--	--

Table 6  
Off-Property Groundwater Gauging Data and Analytical Results - Chlorinated VOCs  
Former Texaco Service Station No. 211577  
631 Queen Anne Avenue North, Seattle, WA 98109



Well ID	Date	Notes	TOC	DTW	NAPL	GWE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	PCE	TCE	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
MW-20	10/28-11/01/04	--	--	--	--	--	<0.8	--	--	<0.8	<1	--	--
MW-20	8/12/2020	--	138.44	8.10	--	130.34	<1.0	--	--	<1.0	<1.0	<1.0	<1.0
MW-21	8/13/2020	--	127.58	25.75	--	101.83	<b>87.5</b>	--	--	<b>13.5</b>	<b>31.9</b>	<1.0	<1.0
MW-22/DPE-8	10/26-27/04	--	--	--	--	--	8	--	--	4	<b>9</b>	--	--
MW-22/DPE-8	8/14/2020	Not sampled, cap off of well	137.25	14.11	--	123.14	--	--	--	--	--	--	--
MW-23	10/26-27/04	--	--	--	--	--	<8	--	--	<8	<10	--	--
MW-23	8/10/2020	Inaccessible for sampling due to construction	--	--	--	--	--	--	--	--	--	--	--
MW-24	10/26-27/04	--	--	--	--	--	<0.8	--	--	<0.8	<1	--	--
MW-24	8/14/2020	Well damaged during construction	--	--	--	--	--	--	--	--	--	--	--
MW-25	10/26-27/04	--	--	--	--	--	<4	--	--	<4	<5	--	--
MW-25	8/12/2020	--	134.80	11.90	--	122.90	<1.0	--	--	<1.0	<1.0	<1.0	<1.0
MW-26	10/28-11/01/04	--	--	--	--	--	<4	--	--	<4	<5	--	--
MW-26	8/9/2019	Sampled by PES Environmental, Inc.	133.28	10.96	--	122.32	<0.0933	<0.152	<0.118	<0.199	<0.153	--	--
MW-26	8/12/2020	--	133.28	10.94	--	122.34	<1.0	--	--	<1.0	<1.0	<1.0	<1.0
MW-27	8/11/2020	--	130.03	29.94	--	100.09	<1.0	--	--	<1.0	<1.0	<1.0	<1.0
MW-28	8/11/2020	--	120.58	21.18	--	99.40	<1.0	--	--	<1.0	<1.0	<1.0	<1.0
MW-29	8/11/2020	--	113.73	14.35	--	99.38	<1.0	--	--	<1.0	<1.0	<1.0	<1.0
MW-30	8/11/2020	--	124.61	24.76	--	99.85	0.510 J	--	--	<b>8.85</b>	<b>5.28</b>	<1.0	<1.0
MW-31	8/11/2020	--	120.07	19.98	--	100.09	<1.0	--	--	<1.0	<1.0	<1.0	<1.0
MW-32	07/27-28/05	--	--	--	--	--	<3	--	--	<3	<4	--	--
MW-32	8/9/2019	Sampled by PES Environmental, Inc.	133.91	11.82	--	122.09	<0.0933	<0.152	<0.118	<0.199	<0.153	--	--
MW-32	8/13/2020	--	133.91	11.70	--	122.21	<1.0	--	--	<1.0	<1.0	<1.0	<1.0
MW-33	07/27-28/05	--	--	--	--	--	<3	--	--	<3	<4	--	--
MW-33	8/9/2019	Sampled by PES Environmental, Inc.	133.12	28.16	--	104.96	<0.0933	<0.152	<0.118	<0.199	<0.153	--	--
MW-33	8/12/2020	--	133.12	27.98	--	105.14	<1.0	--	--	<1.0	<1.0	<1.0	<1.0
MW-34	11/28/2005	--	--	--	--	--	<0.8	--	--	1	<1	--	--
MW-34	8/11/2020	--	127.12	27.07	--	100.05	<1.0	--	--	3.03	0.360 J	<1.0	<1.0
MW-35	11/28/2005	--	--	--	--	--	<0.8	--	--	<0.8	<1	--	--
MW-35	8/9/2019	Sampled by PES Environmental, Inc.	133.33	30.51	--	102.82	<0.0933	<0.152	<0.118	<0.199	<0.153	--	--
MW-35	8/11/2020	--	133.33	30.50	--	102.83	<1.0	--	--	<1.0	<1.0	<1.0	<1.0
OTBMW-1	8/9/2019	Sampled by PES Environmental, Inc.	134.93	12.50	--	122.43	<0.0933	<0.152	<0.118	<0.199	<0.153	--	--
OTBMW-2	8/9/2019	Sampled by PES Environmental, Inc.	134.72	12.39	--	122.33	<0.0933	<0.152	<0.118	<0.199	<0.153	--	--
QAAMW-1	8/9/2019	Sampled by PES Environmental, Inc.	128.93	24.78	--	104.15	<b>93.7</b>	0.872	<0.118	<b>51.2</b>	<b>33.9</b>	--	--
RW-2	09/1990	Not sampled	104.55	12.72	0.04	91.86	Not sampled due to presence of LNAPL						
RW-2	3/26-28/91	--	104.55	10.21	0.08	94.40	--	--	--	--	--	--	--
RW-2	01/97	--	--	--	--	--	<1	--	--	<1	<1	7.6	17
RW-2	04/97	--	--	--	--	--	<1	--	--	<1	<1	364	150
RW-2	07/97	--	--	--	--	--	<b>&lt;50</b>	--	--	<25	<25	681	255
RW-2	11/97	--	--	--	--	--	<1	--	--	<1	<1	371	246
RW-2	10/17-18/02	--	106.64	14.44	--	92.20	--	--	--	--	--	--	--
RW-2	1/21/2003	--	106.64	10.61	--	96.03	--	--	--	--	--	--	--

**Table 6**  
**Off-Property Groundwater Gauging Data and Analytical Results - Chlorinated VOCs**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**



Well ID	Date	Notes	TOC	DTW	NAPL	GWE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	PCE	TCE	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
RW-2	04/23-24/03	--	106.64	10.30	--	96.34	--	--	--	--	--	--	--
RW-2	06/30-07/01/03	--	106.64	13.72	--	92.92	--	--	--	--	--	--	--
RW-2	10/01-02/03	--	106.64	15.05	--	91.59	--	--	--	--	--	--	--
RW-2	01/21-23/04	--	106.64	10.22	--	96.42	--	--	--	--	--	--	--
RW-2	04/29-30/04	--	106.64	13.31	--	93.33	--	--	--	--	--	--	--
RW-2	07/15-16/04	--	106.64	14.41	--	92.23	--	--	--	--	--	--	--
RW-2	10/28-11/01/04	--	106.64	14.68	--	91.96	--	--	--	--	--	--	--
RW-2	01/24-31/05	--	106.64	11.57	--	95.07	--	--	--	--	--	--	--
RW-2	04/18-21/05	--	106.64	9.18	--	97.46	--	--	--	--	--	--	--
RW-2	04/17-18/07	--	106.64	17.12	--	89.52	--	--	--	--	--	--	--
RW-2	12/04-06/07	--	106.64	15.21	--	91.43	--	--	--	--	--	--	--
RW-2	04/28-29/08	--	106.64	15.84	--	90.80	--	--	--	--	--	--	--
RW-2	11/4/2008	--	106.64	15.66	--	90.98	--	--	--	--	--	--	--
RW-2	4/13-16/09	--	106.64	13.80	--	92.84	--	--	--	--	--	--	--
RW-2	10/12-15/09	--	106.64	14.75	--	91.89	--	--	--	--	--	--	--
RW-2	04/19-22/10	--	106.64	12.56	--	94.08	--	--	--	--	--	--	--
RW-2	01/17-20/11	--	106.64	9.70	--	96.94	--	--	--	--	--	--	--
RW-2	05/10-12/11	--	106.64	11.96	--	94.68	--	--	--	--	--	--	--
RW-2	05/07-08/12	--	106.64	11.40	--	95.24	--	--	--	--	--	--	--
RW-2	11/12-14/12	--	106.64	13.50	--	93.14	--	--	--	--	--	--	--
RW-2	5/20-22/13	--	106.64	12.57	--	94.07	--	--	--	--	--	--	--
RW-2	11/11-13/13	--	106.64	14.36	--	92.28	--	--	--	--	--	--	--
RW-5	8/13/2020	Not monitored	--	--	--	--	--	--	--	--	--	--	--
SS1-W1	8/13/2020	--	148.79	12.45	--	136.34	<1.0	--	--	<1.0	<1.0	<1.0	<1.0
SS1-W2	--	Inaccessible for sampling due to construction	146.85	--	--	--	--	--	--	--	--	--	--
VP-1	--	Decommissioned September 2006					--	--	--	--	--	--	--
VP-2	8/13/2020	Insufficient water	137.97	14.78	--	123.19	--	--	--	--	--	--	--
VP-4	8/12/2020	--	136.13	13.12	--	123.01	7.54	--	--	<1.0	0.225 J	49	53.9
<b>GROUNDWATER GRAB SAMPLE</b>													
SB-4	8/7/2019	Grab Sampled by PES Environmental, Inc.	--	--	--	--	<b>23.2</b>	0.15	<b>9.06</b>	<0.119	0.52	--	--

**Notes:**

Results reported in micrograms per liter (µg/L)

**MTCA Method A CULs**

**BOLD and highlighted** values are greater than their respective MTCA Method A CUL.

**BOLD** values are non-detect below the laboratory method detection limit (MDL), but the MDL is greater than the MTCA Method A CUL.

**Abbreviations:**

TOC = Top of casing; TOC elevation surveyed in feet on 8/12 - 8/13/2020 based on Washington State Plane, North Zone, NAD 83 (2011). Prior to 2020 the TOC elevation was based on an arbitrary benchmark. (Leidos. 2013. Second Annual GWM Report)

DTW = Depth to water in feet below TOC

NAPL = Non-aqueous phase liquid thickness in feet

GWE = Groundwater elevation

MTBE = Methyl tertiary-butyl ether

EDB = Ethylene dibromide

EDC = 1,2-Dichloroethane

GRO = Gasoline Range Organics analyzed by Ecology Method NWTPH-Gx

DRO = Diesel Range Organics analyzed by Ecology Method NWTPH-Dx

HO = Heavy Oil Range Organics analyzed by Ecology Method NWTPH-Dx

800/1,000 = GRO MTCA Method A CUL with benzene present is 800 µg/L and without is 1,000 µg/L

-- = Not analyzed/not applicable

< = Analytical result is less than reporting limit shown

DUP = Duplicate sample

J = estimated value – The result is greater than or equal to the Method Detection Limit (MDL) and less than the Limit of Quantitation (LOQ)

**Table 7**  
**Property Groundwater Gauging Data and Analytical Results**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**  
*All analytical results are presented in micrograms per liter (µg/L)*

Well ID	Date	Notes	TOC	DTW	NAPL	GWE	GRO	DRO	HO	DRO + HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Arsenic	Total Lead	Dissolved Lead	
Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs) in µg/L							800/1,000	500	500	500	5	1,000	700	1,000	20	0.01	5	5	15	15	
DPE-5	11/28/05	--	113.82	--	--	--	36,000	5,300	<1,000	5,800	--	--	--	--	<0.5	--	<0.5	--	--	--	
DPE-5	01/23/06	--	113.82	16.75	0.05	96.61	Not sampled due to the presence of LNAPL														
DPE-5	04/17/06	--	113.82	--	--	--	19,000	4,800	<190	4,895	1,100	1,400	160	2,900	--	--	--	--	--	--	
DPE-5	04/17-19/07	--	113.82	23.78	--	90.04	200	4,600	<470	4,835	17	2.6	1.6	11	--	--	--	--	--	--	
DPE-5	12/04-06/07	--	113.82	23.72	--	90.10	180	4,000	<470	4,235	0.6	0.5	0.6	4.3	--	--	--	--	--	--	
DPE-5	04/29-29/08 <sup>3</sup>	--	113.82	18.93	--	94.89	<250	11,000	<2,500	12,250	32	4	3	22	--	--	--	--	--	--	
DPE-5	11/03/08	--	113.82	22.45	--	91.37	460	2,000	<3,500	3,750	77	7	4	17	--	--	--	--	--	--	
DPE-5	04/13-16/09	--	113.82	14.63	--	99.19	110	690	83	773	2	<0.5	1	3	--	--	--	--	--	--	
DPE-5	10/12-15/09	--	113.82	18.60	--	95.22	490	25,000	<1,400	25,700	22	2	19	10	--	--	--	--	--	--	
DPE-5	04/19-22/10	--	113.82	15.92	--	97.90	78	530	95	578	2	<0.5	<0.5	0.5	--	--	--	--	--	--	
DPE-5	01/17-20/11	--	113.82	13.99	--	99.83	<50	540	230	645	<0.5	<0.5	2	1	--	--	--	--	--	--	
DPE-5	05/10-12/11	--	113.82	16.16	--	97.66	520	1,900	270	2,035	18	4	30	63	--	--	--	--	--	--	
DPE-5	5/7-8/12	--	113.82	14.08	--	99.74	<50	<29	<67	48	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	
DPE-5	11/12-14/12	--	113.82	15.35	--	98.47	580	260	<72	296	5	2	56	46	--	--	--	--	--	--	
DPE-5	5/20-22/13	--	113.82	16.65	--	97.17	5,700	120	<67	153.5	41	22	620	550	--	--	--	--	--	--	
DPE-5	11/11-13/13	--	113.82	16.68	--	97.14	5,400	150	<72	186	44	20	690	290	--	--	--	--	--	--	
DPE-5	04/06/17	--	113.82	13.37	--	100.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
DPE-5	11/21/18	--	113.82	17.28	--	96.54	<100	1,300 x	420 x	1,720	1.6	<1	<1	<3	<1	<1	<1	--	--	1.37	
DPE-5	Decommissioned 1/30/2020																				
DPE-6	11/28/05	--	--	--	--	--	280	170	<100	220	--	--	--	--	<0.5	--	<0.5	--	--	--	
DPE-6	04/17/06	--	113.33	--	--	--	38,000	--	--	--	3,000	5,400	690	4,900	--	--	--	--	--	--	
DPE-6	04/17/07	--	113.33	29.83	--	83.50	5,400	110,000	<9,300	114,650	27	39	35	350	--	--	--	--	--	--	
DPE-6	12/04-05/07	--	113.33	28.51	--	84.82	160	1,100	<190	1,195	<2.0	0.6	<2.0	3.8	--	--	--	--	--	--	
DPE-6	04/28-29/08 <sup>3</sup>	--	114.15	22.81	--	91.34	460	8,500	<480	8,740	1	6	2	32	--	--	--	--	--	--	
DPE-6	11/4/08	--	114.15	21.30	--	92.85	870	11,000	<1,300	11,650	16	12	7	63	--	--	--	--	--	--	
DPE-6	04/13-16/09	--	114.15	20.60	--	93.55	900	16,000	880	16,880	100	6	16	24	--	--	--	--	--	--	
DPE-6	10/12-15/09	--	114.15	20.51	--	93.64	490	3,600	<680	3,940	18	3	8	9	--	--	--	--	--	--	
DPE-6	04/19-22/10	--	114.15	19.02	--	95.13	680	10,000	2,000	12,000	44	3	13	13	--	--	--	--	--	--	
DPE-6	01/17-20/11	--	114.15	18.61	--	95.54	520	16,000	27,000	43,000	42	2	4	6	--	--	--	--	--	--	
DPE-6	05/10-12/11	--	114.15	18.44	--	95.71	510	8,300	1,300	9,600	16	2	5	14	--	--	--	--	--	--	
DPE-6	5/7-8/12	--	114.14	18.80	--	95.34	360	1,000	<66	1,033	9	1	1	4	--	--	--	--	--	--	
DPE-6	11/12-14/12	--	114.14	19.90	--	94.24	220	94	<71	129.5	4	<0.5	<0.5	1	--	--	--	--	--	--	
DPE-6	5/20-22/13	--	114.14	18.62	--	95.52	570	170	<71	205.5	3	2	2	8	--	--	--	--	--	--	
DPE-6	11/11-13/13	--	114.14	20.04	--	94.10	140	1,100	<70	1,135	7	<0.5	<0.5	<0.5	--	--	--	--	--	--	
DPE-6	04/06/17	--	113.33	17.75	--	95.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
DPE-6	11/13/18	--	113.33	20.93	--	92.40	<100	5,300	<1,000	5,800	<1	1.1	<1	<3	<0.5	--	<0.5	--	--	--	
DPE-6	Decommissioned 1/30/2020																				
DPE-7	11/28/05	--	--	--	--	--	17,000	6,200	<1,000	6,700	--	--	--	--	<0.5	--	<0.5	--	--	--	
DPE-7	4/17/06	--	113.16	--	--	--	29,000	8,600	<500	8,850	4,500	1,800	470	4,200	--	--	--	--	--	--	
DPE-7	04/17/07	--	113.16	27.00	--	86.16	3,800	22,000	<4,700	24,350	78	40	97	180	--	--	--	--	--	--	
DPE-7	12/04-05/07	--	113.16	27.52	--	85.64	760	120,000	<9,900	124,950	44	1.7	28	15	--	--	--	--	--	--	
DPE-7	04/28-29/08	--	113.16	22.26	--	90.90	<250	6,300	<980	6,790	7	2	2	6	--	--	--	--	--	--	
DPE-7	11/3/08	--	113.16	20.96	0.01	92.20	Not sampled due to the presence of LNAPL														
DPE-7	5/7-8/12	NS	113.13	18.40	--	94.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
DPE-7	11/12-14/12	NS	113.13	19.50	--	93.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
DPE-7	5/20-22/13	NS	113.13	18.27	--	94.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
DPE-7	11/11-13/13	NS	113.13	19.72	--	93.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
DPE-7	04/06/17	NS	113.16	17.28	--	95.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
DPE-7	11/13/18	--	113.16	20.52	--	92.64	700	4,100 x	850 x	4,950	3.3	8.1	2.3	30	--	--	--	--	--	<2	
DPE-7	Decommissioned 1/30/2020																				
MW-6	11/3/86	--	113.72	24.29	2.26	91.23	Not sampled due to the presence of LNAPL														
MW-6	09/1990	--	113.39	21.95	0.81	92.08	Not sampled due to the presence of LNAPL														
MW-6	03/26-28/91	--	113.39	21.22	0.67	92.70	--	--	--	--	25,000	29,000	2,500	19,000	--	--	--	--	--	--	
MW-6	07/07/93	--	113.386	22.30	1.60	92.37	Not sampled due to the presence of LNAPL														
MW-6	10/1995	--	113.386	--	--	--	62,000	--	--	--	12,000	13,800	920	5,690	--	--	--	--	--	33.3	

**Table 7**  
**Property Groundwater Gauging Data and Analytical Results**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**  
*All analytical results are presented in micrograms per liter (µg/L)*

Well ID	Date	Notes	TOC	DTW	NAPL	GWE	GRO	DRO	HO	DRO + HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Arsenic	Total Lead	Dissolved Lead	
MW-6	01/1997	--	113.386	--	--	--	54,000	--	--	--	7,290	12,400	2,340	19,800	--	--	--	--	--	61.9	
MW-6	07/24/02	--	113.326	19.76	--	93.57	31,000	29,000	<10,000	34,000	8,900	1,600	820	4,200	--	--	--	--	--	5.1	
MW-6	10/17-18/02	--	113.33	20.69	0.05	92.68	Not sampled due to the presence of LNAPL														
MW-6	01/21/03	--	113.326	21.74	0.03	91.61	Not sampled due to the presence of LNAPL														
MW-6	4/23-24/03	--	113.326	20.91	0.03	92.44	Not sampled due to the presence of LNAPL														
MW-6	06/30-07/01/03	--	113.326	21.41	0.03	91.94	Not sampled due to the presence of LNAPL														
MW-6	10/01-02/03	--	113.326	23.07	0.03	90.28	Not sampled due to the presence of LNAPL														
MW-6	4/29-30/04	--	113.326	20.22	0.02	93.12	Not sampled due to the presence of LNAPL														
MW-6	7/15-16/04	--	113.326	20.48	--	92.85	46,600	3,800	<500	4,050	9,610	3,190	758	3,060	--	--	--	--	--	1.69	
MW-6	10/28-11/01/04	--	113.33	20.93	--	92.40	24,000	9,200	<96	9,248	8,600	2,800	690	3,100	--	--	--	--	--	--	
MW-6	01/24-31/05	--	113.326	20.38	--	92.95	5,600	11,000	<480	11,240	220	60	110	310	--	--	--	--	--	--	
MW-6	04/18-21/05	--	113.326	20.31	--	93.02	3,600	7,700	<1,000	8,200	1,000	120	110	360	--	--	--	--	--	--	
MW-6	08/09/06	--	113.326	25.85	--	87.48	15,000	14,000	<2,300	15,150	1,900	1,000	590	1,700	--	--	--	--	--	--	
MW-6	04/28-05/01/08	--	146.05	22.28	--	123.77	360	8,600	1,200	9,800	3	0.7	5	3	--	--	--	--	--	--	
MW-6	11/10/08 <sup>3</sup>	--	146.05	20.93	--	125.12	<50.0	3,200	<660	3,530	0.6	<0.5	<0.5	<0.5	--	--	--	--	--	--	
MW-6	04/13-16/09 <sup>3</sup>	--	146.05	20.18	--	125.87	1,100	26,000	3,000	29,000	31	0.8	2	3	--	--	--	--	--	--	
MW-6	10/12-15/09 <sup>3</sup>	--	146.05	20.28	--	125.77	1,200	5,100	<660	5,430	16	1	0.5	2	--	--	--	--	--	--	
MW-6	04/19-22/10 <sup>3</sup>	--	146.05	18.83	--	127.22	650	--	--	--	24	0.9	0.6	1	--	--	--	--	--	--	
MW-6	01/17-20/11 <sup>3</sup>	--	146.05	18.24	--	127.81	130	12,000	4,600	16,600	4	<0.5	<0.5	<0.5	--	--	--	--	--	--	
MW-6	05/10-12/11 <sup>3</sup>	--	146.05	18.32	--	127.73	600	12,000	1,500	13,500	12	0.7	1	0.9	--	--	--	--	--	--	
MW-6	5/7-8/12	--	113.32	18.50	--	94.82	250	540	<70	575	1	<0.5	<0.5	<0.5	--	--	--	--	--	--	
MW-6	5/7-8/12	DUP	113.32	18.50	--	94.82	<50	--	--	--	0.7	1	<0.5	<0.5	--	--	--	--	--	--	
MW-6	11/12-14/12	--	113.32	19.74	--	93.58	370	1,600	190	1,790	9	<0.5	2	3	--	--	--	--	--	--	
MW-6	11/12-14/12	DUP	113.32	19.74	--	93.58	100	--	--	--	4	<0.5	0.7	0.7	--	--	--	--	--	--	
MW-6	5/20-22/13	--	113.32	18.47	--	94.85	220	600	<71	635.5	5	<0.5	0.5	0.6	--	--	--	--	--	--	
MW-6	5/20-22/13	DUP	113.32	18.47	--	94.85	280	--	--	--	5	<0.5	0.5	0.6	--	--	--	--	--	--	
MW-6	11/11-13/13	--	113.32	19.87	--	93.45	94	340	<70	375	2	<0.5	0.5	0.5	--	--	--	--	--	--	
MW-6	11/11-13/13	DUP	113.32	19.87	--	93.45	97	--	--	--	3	<0.5	0.6	0.5	--	--	--	--	--	--	
MW-6	Decommissioned 5/15/2020																				
MW-9	03/26-28/91	--	114.66	20.44	0.17	94.35	--	--	--	--	1,600	2,900	250	3,100	--	--	--	--	--	1.03	
MW-9	10/1/1995	--	147.18	--	--	--	3,400	--	--	--	3,520	70 J	<200	312 J	--	--	--	--	--	--	
MW-9	1/1/1997	--	147.18	--	--	--	4,400	--	--	--	2,600	53	310	285	--	--	--	--	--	--	
MW-9	4/1/1997	--	147.18	--	--	--	9,100	--	--	--	2,980	173	413	674	--	--	--	--	--	--	
MW-9	7/1/1997	--	147.18	--	--	--	2,200 J	--	--	--	2,680	127	460	620 J	--	--	--	--	--	--	
MW-9	11/1/1997	--	147.18	--	--	--	5,000	--	--	--	2,010	80	334	400	--	--	--	--	--	--	
MW-9	12/15/1999	--	147.18	--	--	--	4,460	8,510	<500	8,760	831	22.4	274	138	--	--	--	--	--	1.03	
MW-9	6/14/2000	--	147.18	--	--	--	4,740	6,070	<500	6,320	786	26.0	274	156	--	--	--	--	--	1.59	
MW-9	10/17-18/02	--	147.18	20.88	--	126.30	6,380	43,600	671	43,936	493	13.0	230	107	--	--	--	--	--	2.66	
MW-9	4/23-24/03	--	147.18	20.04	--	127.14	6,760	3,680	<500	3,930	388	15.9	277	105	--	--	--	--	--	1.31	
MW-9	10/1-02/03	--	147.18	21.26	--	125.92	3,500	33,000	<5,000	35,500	110	30	100	<100	--	--	--	--	--	3.9	
MW-9	1/21-23/04	--	147.18	20.36	--	126.82	2,300	100,000	<5,100	102,550	7.2	2.4	45	19	--	--	--	--	--	5.5	
MW-9	4/29-30/04	--	147.18	20.38	--	126.80	1,200	92,000	<5,000	94,500	2	1.2	10	7.8	--	--	--	--	--	4.8	
MW-9	7/15-16/04	--	147.18	20.71	--	126.47	9,540	2,540	<500	2,790	3.84	10.4	25.9	31.6	--	--	--	--	--	2.54	
MW-9	10/28-11/01/04	--	147.18	21.22	--	125.96	300	3,900	420	4,320	1.4	0.5	1.9	<3.0	--	--	--	--	--	--	
MW-9	01/24-31/05	--	147.18	20.66	--	126.52	730	140,000	<5,300	142,650	1.7	<1.0	2.7	<6.0	--	--	--	--	--	--	
MW-9	08/09/06	--	147.18	22.80	--	124.38	450	2,700	<540	2,970	66	1.9	0.8	47	--	--	--	--	--	--	
MW-9	12/04-05/07	--	147.18	23.15	--	124.03	<50.0	2,200	280	2,480	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--	
MW-9	11/10/08	--	147.18	21.29	--	125.89	130	2,000	97	2,097	0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	
MW-9	04/13-16/09	--	147.18	24.60	--	122.58	160	1,100	69	1,169	0.7	<0.5	<0.5	<0.5	--	--	--	--	--	--	
MW-9	10/12-15/09	--	147.18	20.67	--	126.51	83	960	<66	993	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	
MW-9	04/19-22/10	--	147.18	19.04	--	128.14	130	1,200	190	1,390	1	<0.5	<0.5	<0.5	--	--	--	--	--	--	
MW-9	01/17-20/11	--	147.18	18.65	--	128.53	280	6,400	1,400	7,800	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	
MW-9	05/10-12/11	--	147.18	18.68	--	128.50	160	2,200	260	2,460	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	
MW-9	5/7-8/12	--	114.27	18.88	--	95.39	230	1,500	<67	1,534	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	
MW-9	11/12-14/12	--	114.27	20.09	--	94.18	190	2,700	150	2,850	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	
MW-9	5/20-22/13	--	114.27	18.19	--	96.08	240	1,400	<68	1,434	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	

**Table 7**  
**Property Groundwater Gauging Data and Analytical Results**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**  
*All analytical results are presented in micrograms per liter (µg/L)*

Well ID	Date	Notes	TOC	DTW	NAPL	GWE	GRO	DRO	HO	DRO + HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Arsenic	Total Lead	Dissolved Lead
MW-9	11/11-13/13	--	114.27	20.21	--	94.06	180	400	<71	435.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--
MW-9	04/06/17	--	147.18	17.93	--	129.25	480	--	--	--	<1	2.2	1.8	3.4	--	--	--	--	--	--
MW-9	08/15/17	--	147.18	19.63	--	127.55	--	1,500 x	490 x	1,990	--	--	--	--	--	--	--	--	--	--
MW-9	11/13/18	--	147.18	21.17	--	126.01	<100	440 x	<250	565	<1	<1	<1	<3	--	--	--	--	--	--
MW-9	Decommissioned 5/15/2020																			
MW-13	5/7-8/12	--	114.80	16.87	--	97.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13	11/12-14/12	--	114.80	17.98	--	96.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13	5/20-22/13	--	114.80	16.94	--	97.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13	11/11-13/13	--	114.80	17.97	--	96.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13	2002-2013	--	147.88	--	--	--	Not Sampled		--	--	--	--	--	--	--	--	--	--	--	--
MW-13	04/06/17	--	147.88	16.26	--	131.62	--	--	--	--	<1	<1	<1	<3	--	--	--	--	--	--
MW-13	08/15/17	--	147.88	18.04	--	129.84	--	60 x	<250	--	--	--	--	--	--	--	--	--	--	--
MW-13	11/12/18	--	147.88	--	--	--	Dry Well		--	--	--	--	--	--	--	--	--	--	--	--
MW-13	Decommissioned 1/30/2020																			
RW-1	Decommissioned prior to 1989																			
RW-4	NOT MONITORED/SAMPLED																			
RW-4	07/07/93	--	110.82	21.65	--	89.17	14,000	--	--	--	6,500	2,800	370	2,000	--	--	--	--	--	--
RW-4	07/24/02	--	110.82	18.30	--	92.52	990	15,000	<2,000	16,000	62	1.3	32	7.0	<2	--	<2	6.1	--	3.3
RW-4	10/17-18/02	--	110.82	19.29	--	91.53	3,160	8,930	939	--	--	--	--	--	--	--	--	--	--	1.23
RW-4	01/21/03	--	110.82	17.88	--	92.94	689	2,830	<500	3,080	0.991	<0.500	2.37	7.03	--	--	--	--	--	<1.00
RW-4	07/15-16/04	--	110.82	18.20	0.22	92.84	Not sampled due to the presence of LNAPL		--	--	--	--	--	--	--	--	--	--	--	--
RW-4	10/18/06	--	110.82	--	--	--	Dry well		--	--	--	--	--	--	--	--	--	--	--	--
RW-4	Decommissioned 6/15/2020																			
VP-9	12/15/99	--	145.22	--	--	--	118	<250	<500	375	<0.500	<0.500	<0.500	<1.00	--	--	--	--	5.72	<1.00
VP-9	6/14/00	--	145.22	--	--	--	474	1,420	<1,130	1,985	4.97	<1.30	55.60	4.48	--	--	--	--	15.20	<1.00
VP-9	10/17-18/02	--	145.22	11.90	--	133.32	1,910	13,200	7,864	21,064	11.3	2.62	8.86	14.7	--	--	8.86	--	--	<1.00
VP-9	4/23-24/03	--	145.22	8.28	--	136.94	<50.0	<250	<500	375	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	<1.00
VP-9	6/30-07/01/03	--	145.22	9.74	--	135.48	681	<250	<500	375	1.22	0.735	5.07	3.28	--	--	--	--	--	<1.00
VP-9	10/01-02/03	--	145.22	11.72	--	133.50	1,600	5,400	1,300	6,700	5.3	1.4	2.3	<10	--	--	--	--	--	--
VP-9	4/29-30/04	--	145.22	9.58	--	135.64	750	1,500	<1,000	2,000	0.80	<0.500	13	<1.5	--	--	--	--	--	<0.99
VP-9	7/15-16/04	--	145.22	11.15	--	134.07	1,270	259	<500	509	1.67	0.699	2.79	5.77	--	--	--	--	--	<1.00
VP-9	10/28-11/01/04	--	145.22	9.82	--	135.40	610	<800	<1,000	900	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--
VP-9	01/24-31/05	--	145.22	10.30	--	134.92	100	<250	<250	250	<0.5	<0.5	<0.5	<1.5	--	--	--	--	--	--
VP-9	11/13/18	--	145.22	9.54	--	135.68	<100	<250	<250	250	<1	<1	<1	<3	--	--	--	--	--	--
VP-9	5/7-8/12	--	112.35	8.87	--	103.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-9	11/12-14/12	--	112.35	8.75	--	103.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-9	5/20-22/13	--	112.35	8.88	--	103.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-9	11/11-13/13	NS	112.35	DRY	--	--	NOT SAMPLED DUE TO INSUFFICIENT WATER		--	--	--	--	--	--	--	--	--	--	--	--
VP-9	Decommissioned 5/20/2020																			
<b>GROUNDWATER GRAB SAMPLE</b>																				
P1	5/22/2017	Groundwater Grab Sample	--	13.00	--	--	7,100	110,000 ve	3,800 x	113,800	< 5.0	12	5.4	27	--	--	--	--	--	--
P2	5/22/2017	Groundwater Grab Sample	--	14.00	--	--	< 100	<60	<300	80	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	--
P3	5/22/2017	Groundwater Grab Sample	--	13.00	--	--	1,200	1,400	<300	1,550	< 5.0	< 5.0	8.2	19	--	--	--	--	--	--

**Table 7**  
**Property Groundwater Gauging Data and Analytical Results**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**  
*All analytical results are presented in micrograms per liter (µg/L)*

Well ID	Date	Notes	TOC	DTW	NAPL	GWE	GRO	DRO	HO	DRO + HO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	Arsenic	Total Lead	Dissolved Lead
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**Notes:**

TOC = Top of casing; TOC elevation surveyed in feet based on an arbitrary benchmark. (Leidos. 2013. Second Annual GWM Report)

DTW = Depth to water in feet below TOC

NAPL = Non-aqueous phase liquid thickness in feet

GWE = Groundwater elevation

GRO = Gasoline Range Organics analyzed by Ecology Method NWTPH-Gx

DRO = Diesel Range Organics analyzed by Ecology Method NWTPH-Dx

HO = Heavy Oil Range Organics analyzed by Ecology Method NWTPH-Dx

MTBE = Methyl tertiary-butyl ether

EDB = Ethylene dibromide

EDC = 1,2-Dichloroethane

800/1,000 = GRO MTCA Method A CUL with benzene present is 800 µg/L and without is 1,000 µg/L

-- = Not analyzed/not applicable

< = Analytical result is less than reporting limit shown

LFP = Low flow purge sample

DUP = Duplicate sample

J = estimated value – The result is greater than or equal to the Method Detection Limit (MDL) and less than the Limit of Quantitation (LOQ)

B = Compound was found in the blank and sample

ve = The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

\* = RPD of the LCS and LCSD exceeds the control limits

GRO, DRO, HO analyzed by Ecology Northwest Methods; Benzene, toluene, ethylbenzene, and total xylenes (BTEX), MTBE, and EDC by 8260B; Lead by U.S. Environmental Protection Agency (USEPA) 6010C; EDB by EPA 8011

**Table 8**  
**Historical Soil Analytical Data -- GRO, DRO, HO, BTEX**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**  
*All concentrations are in milligrams per kilograms (mg/kg)*



Location ID	Alternate ID	Depth	Date	Location	GRO	DRO	HO	DRO + HO	Benzene <sup>1</sup>	Benzene <sup>2</sup>	Toluene <sup>1</sup>	Toluene <sup>2</sup>	Ethylbenzene <sup>1</sup>	Ethylbenzene <sup>2</sup>	Total Xylenes <sup>1</sup>	Total Xylenes <sup>2</sup>	MTBE	EDB	EDC	Total Lead <sup>4</sup>
MTCA Method A Soil Cleanup Levels					30/100	2,000	2,000	2,000	0.03	0.03	7.0	7.0	6.0	6.0	9.0	9.0	0.1	0.005	--	250
DVP-1	DVP-1	1.0	09/12/02	Monterey Apartments	1,640	333	--	333.0	0.554	<0.200	--	2.42	13.3	50.6	49.7	211	<0.00200	<0.0100	<0.200	6.00
DVP-1	DVP-1 Duplicate	1.0 - DUP1	09/12/02	Monterey Apartments	--	--	--	--	--	<2.00	--	<2.00	--	41.3	--	229	<0.0200	<1.00	<2.00	--
DVP-1	DVP-1 Duplicate	1.0 - DUP2	09/12/02	Monterey Apartments	--	--	--	--	<10.0	--	--	<10	--	58.0	--	330	<0.100	<0.500	<10.0	--
DVP-1	DVP-1	6.0	09/12/02	Monterey Apartments	4,600	1,360	31.8	1391.8	7.72	--	84.6	--	41.9	--	175	--	--	--	--	--
DVP-2	DVP-2	1.0	09/12/02	Monterey Apartments	<5.0	<10	<25.0	17.5	<0.030	<0.00150	<0.500	0.00176	<0.500	<0.004	<0.100	<0.1	<0.00100	<0.00500	<0.00125	2.91
DVP-2	DVP-2	6.0	09/12/02	Monterey Apartments	8,850	2,030	52.4	2,082	14.0	--	157	--	112	--	523	--	--	--	--	5.04
DVP-4 <sup>7</sup>	DVP-2 Duplicate	6.0	09/12/02	Monterey Apartments	5,860	2,170	65.0	2,235	10.7	--	101	--	75.4	--	370	--	--	--	--	4.35
DP-1	DP-1	16.0	09/18/02	Property--excavated 2020	<5.0	<10	<25.0	17.5	<0.300	0.00336	<0.0500	<0.005	0.0568	<0.004	0.121	<0.01	<0.00100	<0.00500	<0.00200	1.92
DP-2	DP-2	14.0	09/18/02	Property--excavated 2020	<5.0	<10	<25.0	17.5	0.0571	<0.1	<0.0500	<0.1	<0.500	<0.1	<0.100	<0.01	<0.00100	<0.00500	<0.100	2.39
DP-2	DP-2	20.0	09/18/02	Property--excavated 2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.85
DP-3	DP-3	12.0	09/20/02	Property--excavated 2020	1,140	1,060	<25.0	1072.5	2.39	<0.1	2.01	<0.1	10.3	<0.1	20.3	0.193	<0.00100	<0.00500	<0.100	4.15
DP-4	DP-4	18.0	09/20/02	Property--excavated 2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.36
DP-4	DP-4	20.0	09/20/02	Property--excavated 2020	90.9	18.4	<25.0	30.9	0.131	<0.1	0.248	<0.1	0.851	0.233	3.34	1.17	<0.00100	<0.00500	<0.100	1.78
DP-5	DP-5	14.0	09/20/02	Property--excavated 2020	8,160	1,200	<25.0	1212.5	17.4	5.35	98.2	59.5	97.2	32.3	569	137	<0.00100	<0.00500	<0.100	3.53
DP-5	DP-5	14 - DUP	09/20/02	Property--excavated 2020	--	--	--	--	--	5.23	--	69.1	--	34.6	--	214	<0.400	<0.200	<4.00	--
DP-6	DP-6	14.0	09/20/02	Property--excavated 2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.13
DP-6	DP-6	22.0	09/20/02	Property--excavated 2020	7,750	88.7	<25.0	101.2	33	52.2	242	423	83.7	112	369	568	<0.0100	<0.0500	<1.00	4.74
DP-6	DP-6	22.0 - DUP	09/20/02	Property--excavated 2020	--	--	--	--	--	51.8	--	448	--	110	--	629	<0.200	<1.00	<20.0	--
DP-7	DP-7	10.0	09/20/02	Property--excavated 2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.40
DP-7	DP-7	20.0	09/20/02	Property--excavated 2020	329	788	<25.0	800.5	0.844	1.39	4.25	9.49	2.61	4.83	10.3	26.8	<0.00100	<0.00500	<0.100	9.48
DP-7	DP-7	20.0 - DUP	09/20/02	Property--excavated 2020	--	--	--	--	--	<2.00	--	8.67	--	4.77	--	27.9	<0.020	<0.100	<2.00	--
MW-12	DB-1	16.0	09/26/02	Bungalows Apartments	<5.00	<10	<25.0	17.5	<0.030	--	<0.050	--	<0.050	--	<0.100	--	--	--	--	--
MW-13	DB-2	14.0	09/24/02	Property--excavated 2020	<5.00	<10	<25.0	17.5	<0.030	<0.0015	<0.050	<0.0015	<0.050	<0.004	<0.100	<0.01	--	--	--	2.61
MW-13	DB-2	16.5	09/24/02	Property--excavated 2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.56
DB-3	DB-3	11.0	09/26/02	Property--excavated 2020	8.30	10.5	<25.0	23.0	<0.030	<0.0015	<0.050	<0.0015	0.0602	<0.004	0.176	<0.01	--	--	--	6.89
DB-3	DB-3	31.5	09/26/02	Property--excavated 2020	5.74	<10	<25.0	17.5	0.0544	--	0.309	--	0.16	--	0.840	--	--	--	--	6.46
DB-4	DB-4	9.0	09/25/02	Bungalows Apartments	1,740	802	<125	864.5	<0.300	<0.5	2.56	<0.5	10.2	1.09	20.4	--	--	--	--	--
DB-4	DB-4	11.5	09/25/02	Bungalows Apartments	728	100	<25.0	112.5	<0.300	--	1.31	--	11.0	--	56.3	--	--	--	--	3.78
DB-4	DB-4	21.5	09/25/02	Bungalows Apartments	<5.00	42.6	<25.0	55.1	0.820	--	0.0674	--	<0.500	--	<0.100	--	--	--	--	2.00
DB-5	DB-5	13.0	09/23/02	Monterey Apartments	10,200	3,060	<500	3,310	23.0	29.2	145	339	105	180	445	1,050	--	--	--	8.72
DB-5	DB-5	24.0	09/23/02	Monterey Apartments	<5.00	<10	<25.0	17.5	<0.030	--	<0.0500	--	<0.0500	--	<0.100	--	--	--	--	1.29
MW-14	DB-6	16.5	09/25/02	Del Roy Apartments	<5.00	<10	<25.0	17.5	<0.030	0.0171	<0.0500	0.0266	0.0516	0.0129	0.216	0.118	--	--	--	2.44
MW-14	DB-6	26.5	09/25/02	Del Roy Apartments	<5.00	<10	<25.0	17.5	<0.030	--	<0.0500	--	<0.0500	--	<0.100	--	--	--	--	3.32
DB-7	DB-7	11.5	09/24/02	Monterey Apartments	<5.00	<10	<25.0	17.5	<0.030	<0.0015	<0.0500	<0.0015	<0.0500	<0.004	<0.100	<0.1	--	--	--	2.04
DB-7	DB-7	33.5	09/24/02	Monterey Apartments	<5.00	<10	<25.0	17.5	0.117	--	<0.0500	--	<0.0500	--	<0.100	--	--	--	--	10.5
MW-15	DB-8	16.5	09/25/02	Alvena Vista Apartments	<5.00	<10	<25.0	17.5	<0.030	<0.0015	<0.0500	<0.0015	<0.0500	<0.005	<0.100	<0.1	--	--	--	1.62
MW-16	DB-9	16.0	09/24/02	U-Park Lot	<5.00	<10	<25.0	17.5	<0.030	--	<0.0500	--	<0.0500	--	<0.100	--	--	--	--	1.82
MW-17	DB-10	11.0	09/23/02	Queen Anne Arms Apartments	<5.00	<10	<25.0	17.5	<0.030	--	<0.0500	--	<0.0500	--	<0.100	--	--	--	--	3.41
DB-11	DB-11	10.5	09/26/02	Bank of America	<5.00	18.4	41.4	59.8	<0.030	--	<0.0500	--	<0.0500	--	<0.100	--	--	--	--	--
SP-1	SP-1	19.0	03/12/04	Property--excavated 2020	100	88	<10	93.0	0.09	--	0.3	--	0.6	--	3.6	--	--	--	--	--
SP-2	SP-2	11.0	03/12/04	Monterey Apartments	2.9	14	<10	19.0	0.008	--	0.03	--	0.03	--	0.2	--	--	--	--	--
DPE-2	SP-3	13.0	03/12/04	Monterey Apartments	24,000	3,000	<500	3,250	93	--	390	--	200	--	1,000	--	--	--	--	--
SP-4	SP-4	9.0	03/12/04	Monterey Apartments	1.2	<3.0	<10	6.5	0.007	--	0.04	--	0.02	--	0.1	--	--	--	--	--
MW-20	SB-20	8.0	08/05/04	Shah Safari	<1.0	<3.0	<10	6.5	<0.005	--	<0.005	--	<0.005	--	<0.02	--	--	--	--	--
MW-21	SB-21	25.0	08/09/04	Bank of America	<1.0	<3.0	<10	6.5	<0.005	--	<0.005	--	<0.005	--	<0.02	--	<0.05	--	--	--
MW-21	SB-21	35.0	08/09/04	Bank of America	<1.0	<3.0	<10	6.5	0.07	--	<0.005	--	<0.005	--	<0.02	--	<0.05	--	--	--
MW-22/DPE-8	SB-22	12.0	10/04/04	Del Roy Apartments	<40	1,900	3,400	5,300	0.10	--	0.20	--	0.84	--	2.0	--	<0.002	--	--	--
MW-22/DPE-8	SB-22	15.0	10/04/04	Del Roy Apartments	6.8	<3.0	<10	6.5	0.004	--	0.001	--	0.01	--	0.06	--	<0.0005	--	--	--
MW-22/DPE-8	SB-22	19.0	10/04/04	Del Roy Apartments	2.3	<3.0	<10	6.5	0.007	--	0.011	--	0.015	--	0.057	--	<0.0005	--	--	--
MW-23	SB-23	10.0	10/04/04	Bungalows Apartments	1,200	310	<50	335.0	0.12	--	9.7	--	21	--	117	--	<0.063	--	--	--
MW-23	SB-23	14.0	10/04/04	Bungalows Apartments	<1.0	<3.0	<10	6.5	<0.0005	--	0.002	--	0.002	--	0.040	--	<0.0005	--	--	--
MW-23	SB-23	20.0	10/04/04	Bungalows Apartments	12	20	<10	25.0	<0.062	--	<0.12	--	0.71	--	2.7	--	<0.062	--	--	--
MW-24	SB-24	9.0	10/05/04	Del Roy Apartments	<1.0	<3.0	<10	6.5	<0.0005	--	<0.001	--	<0.001	--	<0.001	--	<0.0005	--	--	--
MW-24	SB-24	16.0	10/05/04	Del Roy Apartments	11	6.3	<10	11.3	0.060	--	0.082	--	0.077	--	0.4	--	<0.062	--	--	--
MW-24	SB-24	18.5	10/05/04	Del Roy Apartments	3,100	64	<10	69.0	1.1	--	11	--	6.0	--	40	--	<0.0005	--	--	--
MW-25	MW-25	12.5	10/25/04	Del Roy Apartments	8,100	23	<20	33.0	<2.0	--	<4.5	--	47	--	210	--	--	--	--	--
MW-25	MW-25	17.5	10/25/04	Del Roy Apartments	7	<3.0	<10	6.5	<0.005	--	<0.005	--	0.04	--	0.1	--	--	--	--	--

**Table 8**  
**Historical Soil Analytical Data -- GRO, DRO, HO, BTEX**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**  
*All concentrations are in milligrams per kilograms (mg/kg)*



Location ID	Alternate ID	Depth	Date	Location	GRO	DRO	HO	DRO + HO	Benzene <sup>1</sup>	Benzene <sup>2</sup>	Toluene <sup>1</sup>	Toluene <sup>2</sup>	Ethylbenzene <sup>1</sup>	Ethylbenzene <sup>2</sup>	Total Xylenes <sup>1</sup>	Total Xylenes <sup>2</sup>	MTBE	EDB	EDC	Total Lead <sup>4</sup>
<b>MTCA Method A Soil Cleanup Levels</b>					<b>30/100</b>	<b>2,000</b>	<b>2,000</b>	<b>2,000</b>	<b>0.03</b>	<b>0.03</b>	<b>7.0</b>	<b>7.0</b>	<b>6.0</b>	<b>6.0</b>	<b>9.0</b>	<b>9.0</b>	<b>0.1</b>	<b>0.005</b>	<b>--</b>	<b>250</b>
MW-25	MW-25	23.0	10/25/04	Del Roy Apartments	11	<3.0	<10	6.5	<0.005	--	<0.005	--	0.01	--	0.05	--	--	--	--	--
MW-26	MW-26	12.5	10/27/04	U-Park Lot	4.1	<3.0	<10	6.5	<b>0.2</b>	--	0.3	--	0.09	--	0.6	--	--	--	--	--
MW-26	MW-26	20.0	10/27/04	U-Park Lot	2.6	<3.0	<10	6.5	<b>0.4</b>	--	0.06	--	0.09	--	0.4	--	--	--	--	--
MW-32	SB-32	10.0	07/05/05	U-Park Lot	<1.0	<3.4	13	14.7	<0.0006	--	<0.001	--	<0.001	--	<0.001	--	--	--	--	17.6
MW-33	SB-33	25.0	07/06/05	U-Park Lot	<1.1	4.3	<10	9.3	<0.0005	--	<0.001	--	<0.001	--	<0.001	--	--	--	--	--
MW-35	SB-35	27.5	11/22/05	U-Park Lot	<1.0	<3.0	<10	6.5	<0.005	--	<0.005	--	<0.005	--	<0.02	--	--	--	--	1.54
DPE-3	DPE-3	10.0	09/15/06	Monterey Apartments	<1.0	<3.0	<10	6.5	0.014	--	0.006	--	0.006	--	0.13	--	--	--	--	--
DPE-3	DPE-3	12.5	09/15/06	Monterey Apartments	<1.0	<3.0	<10	6.5	<b>0.036</b>	--	0.029	--	0.51 <sup>6</sup>	--	1.5 <sup>6</sup>	--	--	--	--	--
DPE-3	DPE-3	15.0	09/15/06	Monterey Apartments	<b>210</b>	190	52	242.0	<b>0.13</b>	--	0.37	--	<b>7.2</b>	--	<b>25</b>	--	--	--	--	--
DPE-4	DPE-4	13.0	10/24/06	Monterey Apartments	<b>13,000</b>	480	<500	730.0	<b>7</b>	--	<b>130</b>	--	<b>44</b>	--	<b>400</b>	--	--	--	--	--
DPE-4	DPE-4	16.0	10/24/06	Monterey Apartments	<b>62</b>	400	<500	650.0	<b>0.12</b>	--	0.26	--	0.15	--	0.89	--	--	--	--	--
DPE-5	DPE-5	14.0	10/31/05	Property--excavated 2020	460	2,800	<200	2900	<0.3	--	<0.3	--	5.3	--	<1.5	--	--	--	--	--
DPE-5	DPE-5	17.0	10/31/05	Property--excavated 2020	250	870	<100	920.0	<0.5	--	<1.0	--	4.8	--	24	--	--	--	--	--
DPE-6	DPE-6	17.5	10/17/05	Property--excavated 2020	140	420	<50	445.0	<1.0	--	1.8	--	2.4	--	13	--	--	--	--	--
DPE-6	DPE-6	20.0	10/17/05	Property--excavated 2020	96	360	<50	385.0	<0.5	--	0.5	--	0.4	--	2.1	--	--	--	--	--
DPE-7	DPE-7	11.0	10/21/05	Property--excavated 2020	440	2,000	<120	2060	<0.2	--	0.5	--	1.6	--	6	--	--	--	--	--
DPE-7	DPE-7	20.0	10/21/05	Property--excavated 2020	1,400	--	--	--	0.093	<0.100	0.771	0.771	9.9	7.3	16	15.25	<0.022	<0.043	--	--
DPE-9	DPE-9	13.5	09/18/06	Monterey Apartments	<b>10,000</b>	1,400	<200	1500.0	--	<b>17.3</b>	--	<b>38</b>	--	<b>80</b>	--	<b>343</b>	<b>&lt;0.23</b>	<b>&lt;0.45</b>	<b>&lt;0.45</b>	--
P01-04	P01-04	4.0	05/02/12	Property--excavated 2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P01-06	P01-06	6.0	05/02/12	Property--excavated 2020	ND<2	ND<50	ND<250	150.0	ND<0.02	--	ND<0.02	--	ND<0.02	--	ND<0.06	--	--	--	--	--
P01-11	P01-11	11.0	05/02/12	Property--excavated 2020	ND<2	ND<50	ND<250	150.0	ND<0.02	--	ND<0.02	--	ND<0.02	--	ND<0.06	--	--	--	--	--
P01-14	P01-14	14.0	05/02/12	Property--excavated 2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P01-20	P01-20	20.0	05/02/12	Property--excavated 2020	ND<2	ND<50	ND<250	150.0	ND<0.02	--	ND<0.02	--	ND<0.02	--	ND<0.06	--	--	--	--	--
P01-24	P01-24	24.0	05/02/12	Property--excavated 2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P02-04	P02-04	4.0	05/02/12	Property--excavated 2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P02-08	P02-08	8.0	05/02/12	Property--excavated 2020	ND<2	ND<50	ND<250	150.0	ND<0.02	--	ND<0.02	--	ND<0.02	--	ND<0.06	--	--	--	--	--
P02-11	P02-11	11.0	05/02/12	Property--excavated 2020	52	120	ND<250	245.0	ND<0.02	--	0.18	--	0.37	--	0.53	--	--	--	--	--
P02-16	P02-16	16.0	05/02/12	Property--excavated 2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P02-20	P02-20	20.0	05/02/12	Property--excavated 2020	ND<2	ND<50	ND<250	150.0	ND<0.02	--	ND<0.02	--	ND<0.02	--	ND<0.06	--	--	--	--	--
P02-24	P02-24	24.0	05/02/12	Property--excavated 2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P03-04	P03-04	4.0	05/02/12	Property--excavated 2020	17	67 x	ND<250	158.5	ND<0.02	--	ND<0.02	--	ND<0.02	--	ND<0.06	--	--	--	--	--
P03-08	P03-08	8.0	05/02/12	Property--excavated 2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P03-11	P03-11	11.0	05/02/12	Property--excavated 2020	110	1,800	ND<250	1925.0	ND<0.02	--	ND<0.02	--	0.026	--	0.09	--	--	--	--	--
P03-15	P03-15	15.0	05/02/12	Property--excavated 2020	590	1,500	ND<250	1625.0	ND<0.02	--	ND<0.02	--	ND<0.02	--	ND<0.06	--	--	--	--	--
P03-20	P03-20	20.0	05/02/12	Property--excavated 2020	ND<2	ND<50	ND<250	150.0	ND<0.02	--	ND<0.02	--	ND<0.02	--	ND<0.06	--	--	--	--	--
P03-24	P03-24	24.0	05/02/12	Property--excavated 2020	ND<2	ND<50	ND<250	150.0	ND<0.02	--	ND<0.02	--	ND<0.02	--	ND<0.06	--	--	--	--	--
P04-04	P04-04	4.0	05/02/12	Property--excavated 2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P04-08	P04-08	8.0	05/02/12	Property--excavated 2020	ND<2	ND<50	ND<250	150.0	ND<0.02	--	ND<0.02	--	ND<0.02	--	ND<0.06	--	--	--	--	--
P04-11	P04-11	11.0	05/02/12	Property--excavated 2020	590	2,600	ND<250	2,725	0.6	--	1.8	--	2	--	4.6	--	--	--	--	--
P04-15	P04-15	15.0	05/02/12	Property--excavated 2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P04-20	P04-20	20.0	05/02/12	Property--excavated 2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P04-24	P04-24	24.0	05/02/12	Property--excavated 2020	ND<2	ND<50	ND<250	150.0	ND<0.02	--	ND<0.02	--	ND<0.02	--	ND<0.06	--	--	--	--	--
P05-04	P05-04	4.0	05/02/12	Property--excavated 2020	380	530	360	890.0	0.12	--	0.82	--	3.1	--	3.1	--	--	--	--	--
P05-08	P05-08	8.0	05/02/12	Property--excavated 2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P05-11	P05-11	11.0	05/02/12	Property--excavated 2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P05-15	P05-15	15.0	05/02/12	Property--excavated 2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P05-20	P05-20	20.0	05/02/12	Property--excavated 2020	2.5	ND<50	ND<250	150.0	ND<0.02	--	ND<0.02	--	ND<0.02	--	ND<0.06	--	--	--	--	--
P05-24	P05-24	24.0	05/02/12	Property--excavated 2020	ND<2	ND<50	ND<250	150.0	ND<0.02	--	ND<0.02	--	ND<0.02	--	ND<0.06	--	--	--	--	--
P06-04	P06-04	4.0	05/02/12	Property--excavated 2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P06-07	P06-07	7.0	05/02/12	Property--excavated 2020	ND<2	ND<50	ND<250	150.0	ND<0.02	--	ND<0.02	--	ND<0.02	--	ND<0.06	--	--	--	--	--
P06-11	P06-11	11.0	05/02/12	Property--excavated 2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P06-14	P06-14	14.0	05/02/12	Property--excavated 2020	65	1,000	ND<250	1125.0	0.036	--	0.22	--	0.64	--	1.5	--	--	--	--	--
P06-19	P06-19	19.0	05/02/12	Property--excavated 2020	ND<2	ND<50	ND<250	150.0	ND<0.02	--	ND<0.02	--	ND<0.02	--	ND<0.06	--	--	--	--	--
P06-24	P06-24	24.0	05/02/12	Property--excavated 2020	ND<2	ND<50	ND<250	150.0	ND<0.02	--	ND<0.02	--	ND<0.02	--	ND<0.06	--	--	--	--	--
P07-04	P07-04	4.0	05/02/12	Property--excavated 2020	370	350	ND<250	475.0	0.13	--	0.77	--	3	--	2.7	--	--	--	--	--
P07-08	P07-08	8.0	05/02/12	Property--excavated 2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P07-11	P07-11	11.0	05/02/12	Property--excavated 2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**Table 8**  
**Historical Soil Analytical Data -- GRO, DRO, HO, BTEX**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**  
*All concentrations are in milligrams per kilograms (mg/kg)*

Location ID	Alternate ID	Depth	Date	Location	GRO	DRO	HO	DRO + HO	Benzene <sup>1</sup>	Benzene <sup>2</sup>	Toluene <sup>1</sup>	Toluene <sup>2</sup>	Ethylbenzene <sup>1</sup>	Ethylbenzene <sup>2</sup>	Total Xylenes <sup>1</sup>	Total Xylenes <sup>2</sup>	MTBE	EDB	EDC	Total Lead <sup>4</sup>
MTCA Method A Soil Cleanup Levels					30/100	2,000	2,000	2,000	0.03	0.03	7.0	7.0	6.0	6.0	9.0	9.0	0.1	0.005	--	250
P07-14	P07-14	14.0	05/02/12	Property--excavated 2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P07-20	P07-20	20.0	05/02/12	Property--excavated 2020	ND<2	3,300	ND<250	3,425	ND<0.02	--	ND<0.02	--	ND<0.02	--	ND<0.06	--	--	--	--	--
P07-24	P07-24	24.0	05/02/12	Property--excavated 2020	3	ND<50	ND<250	150.0	ND<0.02	--	ND<0.02	--	ND<0.02	--	ND<0.06	--	--	--	--	--
P08-08	P08-08	8.0	05/02/12	Property--excavated 2020	ND<2	ND<50	ND<250	150.0	ND<0.02	--	ND<0.02	--	ND<0.02	--	ND<0.06	--	--	--	--	--
P08-11	P08-11	11.0	05/02/12	Property--excavated 2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P08-14	P08-14	14.0	05/02/12	Property--excavated 2020	2,500	2,600	ND<250	2,725	2.5	--	6.4	--	26	--	160	--	--	--	--	--
P08-16	P08-16	16.0	05/02/12	Property--excavated 2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P08-19	P08-19	19.0	05/02/12	Property--excavated 2020	7.5	ND<50	ND<250	150.0	0.035	--	ND<0.02	--	ND<0.02	--	ND<0.06	--	--	--	--	--
P08-28	P08-28	28.0	05/02/12	Property--excavated 2020	ND<2	0.14	ND<250	125.1	ND<0.02	--	ND<0.02	--	ND<0.02	--	ND<0.06	--	--	--	--	--
P09-03	P09-03	3.0	05/02/12	Property--excavated 2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P09-08	P09-08	8.0	05/02/12	Property--excavated 2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P09-12	P09-12	12.0	05/02/12	Property--excavated 2020	ND<2	ND<50	ND<250	150.0	ND<0.02	--	ND<0.02	--	ND<0.02	--	ND<0.06	--	--	--	--	--
P09-15	P09-15	15.0	05/02/12	Property--excavated 2020	2,300	ND<50	ND<250	150.0	ND<0.02	--	18	--	16	--	27	--	--	--	--	--
P09-20	P09-20	20.0	05/02/12	Property--excavated 2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P09-24	P09-24	24.0	05/02/12	Property--excavated 2020	25	210	ND<250	335.0	ND<0.02	--	ND<0.02	--	ND<0.02	--	ND<0.06	--	--	--	--	--
P1	P1	5.0	05/22/17	Property--excavated 2020	--	--	--	--	ND<0.02	--	ND<0.02	--	ND<0.02	--	ND<0.06	--	--	--	--	--
P1	P1	10.0	05/22/17	Property--excavated 2020	--	--	--	--	ND<0.02	--	ND<0.02	--	ND<0.02	--	ND<0.06	--	--	--	--	--
P1	P1	13.0	05/22/17	Property--excavated 2020	100	--	--	--	ND<0.02	--	ND<0.02	--	0.078	--	0.39	--	--	--	--	--
P1	P1	20.0	05/22/17	Property--excavated 2020	26	--	--	--	ND<0.02	--	0.055	--	0.13	--	0.19	--	--	--	--	--
P2	P2	4.0	05/22/17	Property--excavated 2020	250	--	--	--	0.025	--	1.4	--	1.3	--	2.1	--	--	--	--	--
P2	P2	7.5	05/22/17	Property--excavated 2020	ND<2	--	--	--	ND<0.02	--	ND<0.02	--	ND<0.02	--	ND<0.06	--	--	--	--	--
P2	P2	14.0	05/22/17	Property--excavated 2020	ND<2	--	--	--	ND<0.02	--	ND<0.02	--	ND<0.02	--	ND<0.06	--	--	--	--	--
P2	P2	17.0	05/22/17	Property--excavated 2020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P2	P2	20.0	05/22/17	Property--excavated 2020	ND<2	--	--	--	ND<0.02	--	ND<0.02	--	ND<0.02	--	ND<0.06	--	--	--	--	--
P3	P3	5.0	05/22/17	Property--excavated 2020	220	--	--	--	0.047	--	0.54	--	0.84	--	1.3	--	--	--	--	--
P3	P3	8.0	05/22/17	Property--excavated 2020	--	--	--	--	ND<0.02	--	ND<0.02	--	ND<0.02	--	ND<0.02	--	--	--	--	--
P3	P3	13.0	05/22/17	Property--excavated 2020	2.7	--	--	--	ND<0.02	--	ND<0.02	--	ND<0.02	--	ND<0.02	--	--	--	--	--
P3	P3	20.0	05/22/17	Property--excavated 2020	--	--	--	--	ND<0.02	--	ND<0.02	--	ND<0.02	--	ND<0.02	--	--	--	--	--
SS1-P1	SS1-P1	5.0	12/02/17	Property--right of way	<10	<50	<250	150.0	<0.02	--	0.17	--	<0.05	--	<0.15	--	--	--	--	--
SS1-P1	SS1-P1	9.0	12/02/17	Property--right of way	<10	<50	<250	150.0	<0.02	--	<0.10	--	<0.05	--	<0.15	--	--	--	--	--
SS1-P2	SS1-P2	7.5	12/03/17	Property--right of way	<10	<50	<250	150.0	<0.02	--	<0.10	--	<0.05	--	<0.15	--	--	--	--	--
SS1-P2	SS1-P2	10.0	12/03/17	Property--right of way	<10	<50	<250	150.0	<0.02	--	<0.10	--	<0.05	--	<0.15	--	--	--	--	--
SS1-P3	SS1-P3	22.0	12/04/17	Property--excavated 2020	<10	<50	<250	150.0	<0.02	--	<0.10	--	<0.15	--	<0.15	--	--	--	--	--
SS1-P3	SS1-P3	31.0	12/04/17	Property--excavated 2020	<10	<50	<250	150.0	<0.02	--	<0.10	--	<0.05	--	<0.15	--	--	--	--	--
SS1-P3	SS1-P3	34.0	12/04/17	Property--excavated 2020	<10	<50	<250	150.0	<0.02	--	<0.10	--	<0.05	--	<0.15	--	--	--	--	--
SS1-P4	SS1-P4	22.0	12/04/17	Property--excavated 2020	504	843	<250	968.0	<0.02	--	<0.10	--	<0.05	--	<0.15	--	--	--	--	--
SS1-P4	SS1-P4	30.0	12/04/17	Property--excavated 2020	<10	<50	<250	150.0	<0.02	--	<0.10	--	<0.05	--	<0.15	--	--	--	--	--
SS1-P4	SS1-P4	37.0	12/04/17	Property--excavated 2020	<10	<50	<250	150.0	<0.02	--	<0.10	--	<0.05	--	<0.15	--	--	--	--	--
SS1-P5	SS1-P5	23.0	12/04/17	Property--excavated 2020	99	<50	<250	150.0	4.4	--	7.8	--	0.29	--	1.0	--	--	--	--	--
SS1-P5	SS1-P5	28.0	12/04/17	Property--excavated 2020	<10	<50	<250	150.0	<0.02	--	<0.10	--	<0.05	--	<0.15	--	--	--	--	--
SS1-W1	SS1-W1	8	12/02/17	Property--right of way	<10	<50	<250	150.0	<0.02	--	<0.10	--	<0.05	--	<0.15	--	--	--	--	--
SS1-W1	SS1-W1	15	12/02/17	Property--right of way	<10	<50	<250	150.0	<0.02	--	<0.10	--	<0.05	--	<0.15	--	--	--	--	--
SS1-W2	SS1-W2	9	12/02/17	Property--right of way	<10	<50	<250	150.0	<0.02	--	<0.10	--	<0.05	--	<0.15	--	--	--	--	--
SS1-W2	SS1-W2	12.5	12/02/17	Property--right of way	69	266	<250	391.0	<0.02	--	0.12	--	0.56	--	0.84	--	--	--	--	--
SS1-W2	SS1-W2	16	12/02/17	Property--right of way	<10	<50	<250	150.0	<0.02	--	<0.10	--	<0.05	--	<0.15	--	--	--	--	--
SS1-W2	SS1-W2	19.5	12/02/17	Property--right of way	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OTBMW-1	OTBMW-1	1 - 5	08/06/19	U-Park Lot	< 0.986	< 1.55	< 3.87	2.7	--	< 0.000465	--	0.00725	--	--	< 0.00556	--	--	--	--	1.41
OTBMW-1	OTBMW-1	1 - 8.5	08/06/19	U-Park Lot	< 0.993	< 1.56	< 3.90	2.7	--	< 0.000468	--	0.0142	--	--	< 0.00560	--	--	--	--	2.24
OTBMW-1	OTBMW-1	1 - 12.5	08/06/19	U-Park Lot	< 0.977	< 1.53	< 3.84	2.7	--	< 0.000461	--	< 0.00144	--	--	< 0.00551	--	--	--	--	--
OTBMW-1	OTBMW-1	1 - 16	08/06/19	U-Park Lot	< 1.03	< 1.62	< 4.04	2.8	--	< 0.000486	--	< 0.00152	--	--	< 0.00581	--	--	--	--	--
OTBMW-2	OTBMW-2	2 - 6	08/06/19	U-Park Lot	< 0.954	< 1.50	< 3.74	2.6	--	< 0.000450	--	0.0089	--	--	< 0.00538	--	--	--	--	--
OTBMW-2	OTBMW-2	2 - 7.5	08/06/19	U-Park Lot	< 1.09	< 1.71	< 4.29	3.0	--	< 0.000516	--	0.00858	--	--	< 0.00616	--	--	--	--	1.67
OTBMW-2	OTBMW-2	2 - 15	08/06/19	U-Park Lot	< 1.01	< 1.58	< 3.97	2.8	--	< 0.000496	--	0.0216	--	--	0.00859	--	--	--	--	--
OTBMW-2	OTBMW-2	2 - 20	08/06/19	U-Park Lot	< 1.07	< 1.64	< 4.10	2.9	--	< 0.000492	--	< 0.00154	--	--	< 0.00588	--	--	--	--	--
SB-1	SB-1	2.5	08/06/19	U-Park Lot	< 0.922	< 1.45	< 3.62	2.5	--	< 0.000435	--	0.0164	--	--	< 0.00520	--	--	--	--	4.04
SB-1	SB-1	10.5	08/06/19	U-Park Lot	< 1.00	< 1.57	< 3.93	2.8	--	< 0.000472	--	0.00756	--	--	< 0.00564	--	--	--	--	--
SB-1	SB-1	13.5	08/06/19	U-Park Lot	< 1.08	< 1.41	< 3.52	2.5	--	< 0.000423	--	0.00825	--	--	< 0.00506	--	--	--	--	--

**Table 8**  
**Historical Soil Analytical Data -- GRO, DRO, HO, BTEX**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**  
*All concentrations are in milligrams per kilograms (mg/kg)*

Location ID	Alternate ID	Depth	Date	Location	GRO	DRO	HO	DRO + HO	Benzene <sup>1</sup>	Benzene <sup>2</sup>	Toluene <sup>1</sup>	Toluene <sup>2</sup>	Ethylbenzene <sup>1</sup>	Ethylbenzene <sup>2</sup>	Total Xylenes <sup>1</sup>	Total Xylenes <sup>2</sup>	MTBE	EDB	EDC	Total Lead <sup>4</sup>
<b>MTCA Method A Soil Cleanup Levels</b>					<b>30/100</b>	<b>2,000</b>	<b>2,000</b>	<b>2,000</b>	<b>0.03</b>	<b>0.03</b>	<b>7.0</b>	<b>7.0</b>	<b>6.0</b>	<b>6.0</b>	<b>9.0</b>	<b>9.0</b>	<b>0.1</b>	<b>0.005</b>	<b>--</b>	<b>250</b>
SB-1	SB-1	18	08/06/19	U-Park Lot	< 0.902	< 1.39	< 3.48	2.4	--	< 0.000418	--	0.00586	--	--	--	< 0.00499	--	--	--	--
SB-2	SB-2	5	08/06/19	U-Park Lot	< 0.954	< 7.48	< 18.7	13.1	--	0.0191	--	0.0194	--	--	--	< 0.00538	--	--	--	--
SB-2	SB-2	8.5	08/06/19	U-Park Lot	< 0.963	< 1.51	< 3.78	2.6	--	< 0.000486	--	0.0208	--	--	--	< 0.00580	--	--	--	2.1
SB-2	SB-2	13	08/06/19	U-Park Lot	< 1.18	< 1.58	< 3.97	2.8	--	< 0.000510	--	0.0272	--	--	--	< 0.00609	--	--	--	--
SB-2	SB-2	15.5	08/06/19	U-Park Lot	< 0.885	< 1.39	< 3.47	2.4	--	< 0.000417	--	0.00619	--	--	--	< 0.00499	--	--	--	--
QAAMW-1	QAAMW-1	5.5	08/07/19	Queen Anne Arms Apartments	< 0.920	< 1.44	< 3.61	2.5	--	< 0.000434	--	< 0.00136	--	--	--	< 0.00518	--	--	--	1.8
QAAMW-1	QAAMW-1	10.5	08/07/19	Queen Anne Arms Apartments	< 1.01	< 1.59	< 3.97	2.8	--	< 0.000477	--	< 0.00149	--	--	--	< 0.00570	--	--	--	--
QAAMW-1	QAAMW-1	15.5	08/07/19	Queen Anne Arms Apartments	< 1.00	< 1.57	< 3.93	2.8	--	< 0.000472	--	< 0.00147	--	--	--	< 0.00564	--	--	--	--
QAAMW-1	QAAMW-1	26	08/07/19	Queen Anne Arms Apartments	< 1.04	< 1.63	< 4.09	2.9	--	< 0.000491	--	< 0.00153	--	--	--	< 0.00587	--	--	--	--
SB-3	SB-3	6	08/07/19	Queen Anne Arms Apartments	< 1.05	< 1.65	< 4.13	2.9	--	< 0.000497	--	0.0069	--	--	--	< 0.00593	--	--	--	--
SB-3	SB-3	10.5	08/07/19	Queen Anne Arms Apartments	< 1.08	< 1.58	< 3.95	2.8	--	< 0.000540	--	< 0.00168	--	--	--	< 0.00646	--	--	--	1.32
SB-3	SB-3	15.5	08/07/19	Queen Anne Arms Apartments	< 1.00	< 1.57	< 3.94	2.8	--	< 0.000474	--	0.00613	--	--	--	< 0.00566	--	--	--	--
SB-4	SB-4	5.5	08/07/19	Queen Anne Arms Apartments	< 1.20	< 1.88	< 4.70	3.3	--	< 0.000565	--	0.00865	--	--	--	< 0.00675	--	--	--	--
SB-4	SB-4	11	08/07/19	Queen Anne Arms Apartments	< 0.992	< 1.56	< 3.90	2.7	--	< 0.000468	--	< 0.00146	--	--	--	< 0.00559	--	--	--	--
SB-4	SB-4	18	08/07/19	Queen Anne Arms Apartments	< 1.03	< 1.62	< 4.05	2.8	--	0.00207	--	< 0.00152	--	--	--	< 0.00582	--	--	--	--
SB-4	SB-4	20	08/07/19	Queen Anne Arms Apartments	< 1.01	< 1.59	< 3.97	2.8	--	0.00183	--	< 0.00161	--	--	--	< 0.00615	--	--	--	1.18
SB-4	SB-4	23	08/07/19	Queen Anne Arms Apartments	< 1.03	< 1.62	< 4.06	2.8	--	< 0.000488	--	< 0.00152	--	--	--	< 0.00583	--	--	--	--
SB-5	SB-5	5.5	08/07/19	Queen Anne Arms Apartments	< 1.08	< 1.70	< 4.25	3.0	--	< 0.000510	--	0.00868	--	--	--	< 0.00610	--	--	--	--
SB-5	SB-5	10.5	08/07/19	Queen Anne Arms Apartments	< 0.989	5.04	24.8	29.8	--	< 0.000466	--	0.0127	--	--	--	< 0.00557	--	--	--	--
SB-5	SB-5	18	08/07/19	Queen Anne Arms Apartments	< 1.03	< 1.61	< 4.04	2.8	--	0.0127	--	0.0117	--	--	--	0.0112	--	--	--	1.05
SB-5	SB-5	20.5	08/07/19	Queen Anne Arms Apartments	7.62	< 1.63	< 4.09	2.9	--	0.0124	--	< 0.00154	--	--	--	< 0.00587	--	--	--	--
SB-5	SB-5	23	08/07/19	Queen Anne Arms Apartments	< 1.02	< 1.60	< 4.00	2.8	--	< 0.000480	--	< 0.00150	--	--	--	< 0.00574	--	--	--	--

**Notes:**

E-9-13.5, which were analyzed by Washington Department of Ecology Method WA VPH (2007 Final RI).  
 ed by USEPA Method 8260B (2007 Final RI).  
 nalysis not noted in the 2003 Remedial Investigation.  
 d by the USEPA Method 6000/7000 series.  
 ion limits. Laboratory detection limits not available or reported.  
 according to the 2007 Final Remedial Investigation and Site Summary Report.  
 P-4 is a duplicate of DVP-2.

**MTCA Method A CULS**

lenes are less than 1% of the gasoline mixture is 100 mg/kg. For all other gasoline mixtures, the GRO Soil Cleanup Level is 30 mg/kg.  
**reater than their respective MTCA Method A cleanup level**  
 , however the reporting limit is greater than the cleanup level  
 eanup Levels for Unrestricted Land Uses, WAC Chapter 173-340-900, Table 740-1

**reiations and Acronyms**

<sup>1</sup> - Diesel Range Organics analyzed by Ecology Method NWTPH-Dx  
<sup>2</sup> - Organics analyzed by Ecology Method NWTPH-Gx  
<sup>3</sup> - Organics analyzed by Ecology Method NWTPH-Dx  
 e, ethylbenzene, and total xylenes - collectively  
 = Methyl Tertiary-Butyl Ether  
 DB = Ethylene dibromide  
 DC = 1,2-Dichloroethane  
 sample in feet below ground surface (bgs)  
 ot applicable or not analyzed  
 od detection limit (MDL) for the given analysis, value shown is MDL  
 DUP = duplicate

**Table 9**  
**Historical Soil Analytical Data - Polycyclic Aromatic Hydrocarbons**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**  
*All concentrations are in milligrams per kilograms (mg/kg)*

Location ID	Alternate ID	Depth	Date	Location	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluorene	Indeno(1,2,3-cd)pyrene	Total cPAHs	1-Methylnaphthalene <sup>1</sup>	2-Methylnaphthalene <sup>1</sup>	Naphthalene <sup>1</sup>	Naphthalene <sup>2</sup>	Total Naphthalenes <sup>1</sup>	Phenanthrene
<b>MTCA Method A Soil Cleanup Levels</b>					--	<b>0.1</b>	--	--	--	--	--	--	<b>0.1</b>	--	--	--	<b>5</b>	<b>5</b>	--
DVP-1	DVP-1	1.0	09/12/02	Monterey Apartments	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.00755	1.92	3.86	1.82	<b>23.0</b>	<b>7.60</b>	--
DVP-1	DVP-1 Duplicate	1.0 - DUP1	09/12/02	Monterey Apartments	--	--	--	--	--	--	--	--	--	--	--	--	<b>16.7</b>	--	--
DVP-1	DVP-1 Duplicate	1.0 - DUP2	09/12/02	Monterey Apartments	--	--	--	--	--	--	--	--	--	--	--	--	<b>26.8</b>	--	--
DVP-2	DVP-2	1.0	09/12/02	Monterey Apartments	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.330	<0.01	<0.00755	<0.01	<0.01	<0.01	<0.005	<0.015	--
DP-1	DP-1	16.0	09/18/02	Property--excavated 2020	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.330	<0.01	<0.00755	<0.01	<0.01	<0.01	<0.005	<0.0150	<0.330
DP-2	DP-2	14.0	09/18/02	Property--excavated 2020	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.330	<0.01	<0.00755	<0.01	<0.01	<0.01	<0.1	<0.0150	<0.330
DP-3	DP-3	12.0	09/20/02	Property--excavated 2020	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.330	<0.01	<0.00755	1.96	3.20	0.207	<0.1	<b>5.367</b>	2.56
DP-4	DP-4	20.0	09/20/02	Property--excavated 2020	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1.8	<0.01	<0.00755	0.0354	0.068	0.0231	0.421	0.1265	<0.330
DP-5	DP-5	14.0	09/20/02	Property--excavated 2020	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.00755	0.744	1.28	0.210	13.4	2.234	2.92
DP-5	DP-5	14.0 - DUP	09/20/02	Property--excavated 2020	--	--	--	--	--	--	<0.330	--	--	--	--	--	13.7	--	--
DP-6	DP-6	22.0	09/20/02	Property--excavated 2020	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.00755	1.86	3.70	0.863	40.2	<b>6.423</b>	1.37
DP-6	DP-6	22.0 - DUP	09/20/02	Property--excavated 2020	--	--	--	--	--	--	<0.330	--	--	--	--	--	42.7	--	--
DP-7	DP-7	20.0	09/20/02	Property--excavated 2020	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.00755	7.50	14.1	4.99	2.81	<b>26.59</b>	0.827
DP-7	DP-7	20.0 - DUP	09/20/02	Property--excavated 2020	--	--	--	--	--	--	--	--	--	--	--	--	2.88	--	--
MW-13	DB-2	14.0	09/24/02	Property--excavated 2020	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.00755	<0.01	<0.01	0.0106	<0.005	<0.0206	--
DB-3	DB-3	11.0	09/26/02	Property--excavated 2020	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.00755	0.0206	<0.01	<0.01	<0.005	<0.0306	--
DB-4	DB-4	9.0	09/25/02	Monterey Apartments	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.00755	2.53	6.03	2.42	1.70	<b>10.98</b>	--
DB-5	DB-5	13.0	09/23/02	Monterey Apartments	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.00755	16.3	31.5	25.9	<b>66.0</b>	<b>73.7</b>	--
MW-14	DB-6	16.5	09/25/02	Del Roy Apartments	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.00755	<0.01	0.0106	0.0179	0.0431	<0.0335	--
DB-7	DB-7	11.5	09/24/02	Monterey Apartments	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.00755	<0.01	<0.01	<0.01	<0.005	<0.015	--
MW-15	DB-8	16.5	09/25/02	Alvena Vista Apartments	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.00755	<0.01	<0.01	<0.01	<0.005	<0.015	--
DPE-5	DPE-5	14	10/31/05	Property--excavated 2020	--	--	--	--	--	--	--	--	--	19	30	18	--	<b>67.00</b>	--
DPE-5	DPE-5	17	10/31/05	Property--excavated 2020	--	--	--	--	--	--	--	--	--	1.7	2.9	1.5	--	<b>6.10</b>	--
DPE-6	DPE-6	17.0	10/17/05	Property--excavated 2020	--	--	--	--	--	--	--	--	--	0.52	0.97	0.6	--	2.09	--
DPE-6	DPE-6	20.0	10/17/05	Property--excavated 2020	--	--	--	--	--	--	--	--	--	0.46	0.83	0.6	--	1.89	--
DPE-7	DPE-7	11.0	10/21/05	Property--excavated 2020	--	--	--	--	--	--	--	--	--	3.2	2.3	2.4	--	<b>7.90</b>	--
DPE-7	DPE-7	20.0	10/21/05	Property--excavated 2020	<0.17	<0.17	<0.17	<0.17	<0.17	--	--	<0.17	<0.119	9.9	17	13	--	<b>39.9</b>	--
DPE-9	DPE-9	13.5	09/18/06	Monterey Apartments	0.0059	0.0027	0.0026	0.001	0.0093	--	--	0.0014	<0.00388	8.1	18.00	18.0	--	<b>44.1</b>	--

**Notes:**

<sup>1</sup> Analyzed in the 2007 Final Remedial Investigation as SVOCs by USEPA Method 8270C.

<sup>2</sup> Analyzed in the 2007 Final Remedial Investigation as VOCs by USEPA Method 8260B.

**MTCA Method A CULs**

Total cPAHs are derived according to MTCA Cleanup Regulation Table 740-1 [d].

cPAHs adjusted for toxicity according to Washington State Administrative Code 173-340-708(8). If one or more adjusted cPAH constituents were reported as Non-Detect, half of the reporting limit was used in calculations.

Total Naphthalenes is a sum total of 1-methyl-naphthalene, 2-methyl-naphthalene, and naphthalene. If one or more constituents were reported as Non-Detect, half of the reporting limit was used in calculations.

**BOLD** and highlighted values are greater than their respective MTCA Method A cleanup level

Ecology Model Toxics Control Act (MTCA) Method A Soil Cleanup Levels (CULs) for Unrestricted Land Uses, WAC Chapter 173-340-900, Table 740-1.

**Abbreviations and Acronyms**

cPAHs = Carcinogenic Polycyclic Aromatic Hydrocarbons

-- = Not applicable or not analyzed

Depth = Depth of sample in feet below ground surface (bgs)

DUP = duplicate

**Laboratory Qualifiers**

< = Not detected greater than laboratory detection limit

Table 10  
 Historical Soil Analytical Data - Total Metals  
 Former Texaco Service Station No. 211577  
 631 Queen Anne Avenue North, Seattle, WA 98109  
 All concentrations are in milligrams per kilograms (mg/kg)

Location ID	Alternate ID	Depth	Date	Location	Silver	Arsenic	Barium	Cadmium	Chromium	Mercury	Selenium
<b>MTCA Method A Soil Cleanup Levels</b>											
DVP-1	DVP-1	1.0	09/12/02	Monterey Apartments	<0.658	3.72	88.6	<0.658	41.1	<0.2	<0.658
DVP-2	DVP-2	1.0	09/12/02	Monterey Apartments	<0.5	2.28	81.6	<0.5	37.5	<0.2	<0.5
DVP-2	DVP-2	6.0	09/12/02	Monterey Apartments	<0.694	2.46	46.1	<0.694	27.1	<0.2	<0.694
DVP-4 <sup>1</sup>	DVP-2 Duplicate	6.0	09/12/02	Monterey Apartments	<0.5	2.45	47.8	<0.5	31.6	<0.2	<0.5
DP-1	DP-1	16.0	09/18/02	Property--excavated 2020	<0.5	2.33	57.1	<0.5	30.5	<0.2	<0.5
DP-2	DP-2	14.0	09/18/02	Property--excavated 2020	<0.5	3.58	83.9	<0.5	36.2	<0.2	<0.5
DP-2	DP-2	20.0	09/18/02	Property--excavated 2020	--	--	--	--	--	--	--
DP-3	DP-3	12.0	09/20/02	Property--excavated 2020	<0.5	2.66	79.0	0.572	29.5	<0.2	<0.5
DP-4	DP-4	18.0	09/20/02	Property--excavated 2020	--	--	--	--	--	--	--
DP-4	DP-4	20.0	09/20/02	Property--excavated 2020	<0.5	1.69	29.0	<0.5	12.0	<0.2	<0.5
DP-5	DP-5	14.0	09/20/02	Property--excavated 2020	--	--	--	--	--	--	--
DP-6	DP-6	14.0	09/20/02	Property--excavated 2020	--	--	--	--	--	--	--
DP-6	DP-6	22.0	09/20/02	Property--excavated 2020	<0.5	1.65	60.4	0.873	22.6	<0.2	<0.5
DP-7	DP-7	10.0	09/20/02	Property--excavated 2020	--	--	--	--	--	--	--
DP-7	DP-7	20.0	09/20/02	Property--excavated 2020	<0.5	2.14	74.9	<0.5	29.6	<0.2	<0.5
MW-13	DB-2	14.0	09/24/02	Property--excavated 2020	<0.5	4.53	80.2	<0.5	48.6	<0.2	0.935
MW-13	DB-2	16.5	09/24/02	Property--excavated 2020	--	--	--	--	--	--	--
DB-3	DB-3	11.0	09/26/02	Property--excavated 2020	<0.5	2.27	49.6	<0.5	29.2	<0.2	<0.5
DB-3	DB-3	31.5	09/26/02	Property--excavated 2020	--	--	--	--	--	--	--
DB-4	DB-4	11.5	09/25/02	Monterey Apartments	<0.5	3.18	82.1	<0.5	33.1	<0.2	<0.5
DB-4	DB-4	21.5	09/25/02	Monterey Apartments	--	--	--	--	--	--	--
DB-5	DB-5	13.0	09/23/02	Monterey Apartments	<0.5	1.73	49.9	<0.5	30.4	<0.2	<0.5
DB-5	DB-5	24.0	09/23/02	Monterey Apartments	--	--	--	--	--	--	--
MW-14	DB-6	16.5	09/25/02	Del Roy Apartments	<0.5	1.87	52.0	<0.5	25.7	<0.2	<0.5
MW-14	DB-6	26.5	09/25/02	Del Roy Apartments	--	--	--	--	--	--	--
DB-7	DB-7	11.5	09/24/02	Monterey Apartments	<0.5	3.18	58.4	<0.5	25.8	<0.2	<0.5
DB-7	DB-7	33.5	09/24/02	Monterey Apartments	--	--	--	--	--	--	--
MW-15	DB-8	16.5	09/25/02	Alvena Vista Apartments	<0.5	1.19	33.6	<0.5	22.8	<0.2	<0.5
MW-16	DB-9	16.0	09/24/02	U-Park Lot	--	--	--	--	--	--	--
MW-17	DB-10	11.0	09/23/02	Queen Anne Arms Apartments	--	--	--	--	--	--	--
OTBMW-1	OTBMW-1	1 - 5	8/6/2019	U-Park Lot	--	< 0.535	56.4	< 0.0814	48.3	--	--
OTBMW-1	OTBMW-1	1 - 8.5	8/6/2019	U-Park Lot	--	< 0.539	76.6	< 0.0820	35.4	--	--
OTBMW-1	OTBMW-1	1 - 12.5	8/6/2019	U-Park Lot	--	--	--	--	--	--	--
OTBMW-1	OTBMW-1	1 - 16	8/6/2019	U-Park Lot	--	--	--	--	--	--	--
OTBMW-2	OTBMW-2	2 - 6	8/6/2019	U-Park Lot	--	--	--	--	--	--	--
OTBMW-2	OTBMW-2	2 - 7.5	8/6/2019	U-Park Lot	--	< 0.539	74.5	< 0.0902	37.1	--	--
OTBMW-2	OTBMW-2	2 - 15	8/6/2019	U-Park Lot	--	--	--	--	--	--	--
OTBMW-2	OTBMW-2	2 - 20	8/6/2019	U-Park Lot	--	--	--	--	--	--	--
SB-1	SB-1	2.5	8/6/2019	U-Park Lot	--	< 0.500	90.6	< 0.0761	35.8	--	--
SB-1	SB-1	10.5	8/6/2019	U-Park Lot	--	--	--	--	--	--	--
SB-1	SB-1	13.5	8/6/2019	U-Park Lot	--	--	--	--	--	--	--
SB-1	SB-1	18	8/6/2019	U-Park Lot	--	--	--	--	--	--	--
SB-2	SB-2	5	8/6/2019	U-Park Lot	--	--	--	--	--	--	--
SB-2	SB-2	8.5	8/6/2019	U-Park Lot	--	< 0.522	67.2	< 0.0795	24.9	--	--
SB-2	SB-2	13	8/6/2019	U-Park Lot	--	--	--	--	--	--	--
SB-2	SB-2	15.5	8/6/2019	U-Park Lot	--	--	--	--	--	--	--
QAAMW-1	QAAMW-1	5.5	8/7/2019	Queen Anne Arms Apartments	--	2.8	81.8	< 0.0759	39.6	--	--
QAAMW-1	QAAMW-1	10.5	8/7/2019	Queen Anne Arms Apartments	--	--	--	--	--	--	--
QAAMW-1	QAAMW-1	15.5	8/7/2019	Queen Anne Arms Apartments	--	--	--	--	--	--	--
QAAMW-1	QAAMW-1	26	8/7/2019	Queen Anne Arms Apartments	--	--	--	--	--	--	--
SB-3	SB-3	6	8/7/2019	Queen Anne Arms Apartments	--	--	--	--	--	--	--
SB-3	SB-3	10.5	8/7/2019	Queen Anne Arms Apartments	--	< 0.545	37.2	< 0.0830	25.2	--	--
SB-3	SB-3	15.5	8/7/2019	Queen Anne Arms Apartments	--	--	--	--	--	--	--
SB-4	SB-4	5.5	8/7/2019	Queen Anne Arms Apartments	--	--	--	--	--	--	--
SB-4	SB-4	11	8/7/2019	Queen Anne Arms Apartments	--	--	--	--	--	--	--
SB-4	SB-4	18	8/7/2019	Queen Anne Arms Apartments	--	--	--	--	--	--	--
SB-4	SB-4	20	8/7/2019	Queen Anne Arms Apartments	--	< 0.548	47	< 0.0835	23	--	--
SB-4	SB-4	23	8/7/2019	Queen Anne Arms Apartments	--	--	--	--	--	--	--
SB-5	SB-5	5.5	8/7/2019	Queen Anne Arms Apartments	--	--	--	--	--	--	--
SB-5	SB-5	10.5	8/7/2019	Queen Anne Arms Apartments	--	--	--	--	--	--	--
SB-5	SB-5	18	8/7/2019	Queen Anne Arms Apartments	--	< 0.558	48.7	< 0.0849	26.5	--	--
SB-5	SB-5	20.5	8/7/2019	Queen Anne Arms Apartments	--	--	--	--	--	--	--
SB-5	SB-5	23	8/7/2019	Queen Anne Arms Apartments	--	--	--	--	--	--	--

Notes:  
<sup>1</sup> DVP-4 is a duplicate of DVP-2.

**MTCA Method A CULS**  
**BOLD** and highlighted values are greater than their respective MTCA Method A CULs.  
**BOLD** = Concentration is non-detect; however, the reporting limit is greater than the cleanup level.  
 Ecology Model Toxics Control Act (MTCA) Method A Soil Cleanup Levels (CULs) for Unrestricted Land Uses, WAC Chapter 173-340-900, Table 740-1.

**Abbreviations and Acronyms**  
 -- = Not applicable or not analyzed  
 Depth = Depth of sample in feet below ground surface (bgs)  
 <= Not detected at or above laboratory method detection limit (MDL) for the given analysis, value shown is MDL

**Table 11**  
**Historical Soil Analytical Data - Volatile and Semi-volatile Organic Compounds**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**  
*All concentrations are in milligrams per kilogram (mg/kg)*

Location ID	Alternate ID	Date	Depth	Location	Acetone	n-Butylbenzene	sec-Butylbenzene	Benzoic Acid	Benzyl alcohol	Di-n-octyl phthalate	Isophorone	Isopropylbenzene	p-Isopropylbenzene	Methylene Chloride	m-Propylbenzene	Phenol	1,2,4-Trimethylbenzene	1,2,5-Trimethylbenzene	Other VOCs <sup>1</sup>
<b>MTCA Method A Soil Cleanup Levels</b>					--	--	--	--	--	--	--	--	--	<b>0.02</b>	--	--	--	--	--
DVP-1	DVP-1	09/12/02	1.0	Monterey Apartments	<2.00	33.7	5.74	--	--	--	--	7.60	14.3	<2.00	47.1	--	149	64.2	--
DVP-1	DVP-1 Duplicate	09/12/02	1.0 - DUP1	Monterey Apartments	<20	23.7	4.53	--	--	--	--	6.06	8.94	<20	29.9	--	189	58.3	--
DVP-1	DVP-1 Duplicate	09/12/02	1.0 - DUP2	Monterey Apartments	<100	36.8	<10	--	--	--	--	<10	13.1	<100	42.1	--	276	79.2	--
DVP-2	DVP-2	09/12/02	1.0	Monterey Apartments	<0.300	<0.005	<0.005	--	--	--	--	<0.005	<0.005	<0.0035	<0.005		<0.005	<0.005	--
DP-1	DP-1	09/18/02	16.0	Property--excavated 2020	<0.0300	<0.005	<0.005	<1	--	<0.33	<0.33	<0.005	<0.005	<0.00350	<0.005	0.515	<0.005	<0.005	--
DP-2	DP-2	09/18/02	14.0	Property--excavated 2020	<1.00	<0.1	<0.1	1.01	--	<0.33	<0.33	<0.1	<0.1	<1.00	<0.1	1.05	<0.1	<0.1	--
DP-3	DP-3	09/20/02	12.0	Property--excavated 2020	<1.00	0.170	<0.1	<1	--	0.575	<0.33	<0.1	<0.1	<1.00	<0.1	2.15	0.587	0.184	--
DP-4	DP-4	09/20/02	20.0	Property--excavated 2020	<1.00	0.813	<0.1	<1	--	<0.33	<0.33	<0.1	0.281	<1.00	0.395	<0.33	3.09	0.947	--
DP-5	DP-5	09/20/02	14.0	Property--excavated 2020	<1.00	14.5	3.35	<1	--	<0.33	0.666	3.86	6.74	<1.00	22.0	<0.33	65.2	27.9	--
DP-5	DP-5	09/20/02	14.0 - DUP	Property--excavated 2020	<40.0	13.3	<4.00	--	--	--	--	<4.00	5.33	<40.0	17.6	--	94.6	28.5	--
DP-6	DP-6	09/20/02	22.0	Property--excavated 2020	<10.0	28.7	<1.00	<1	--	0.339	<0.33	8.03	9.96	<10.0	39.0	0.653	214	68.0	--
DP-6	DP-6	09/20/02	22.0 - DUP	Property--excavated 2020	<200	30.4	<20.0	--	--	--	--	<20.0	<20.0	<200	37.7	--	236	60.9	--
DP-7	DP-7	09/20/02	20.0	Property--excavated 2020	<1.00	2.75	<0.100	<1	--	<0.33	<0.33	0.503	0.985	<1.00	2.64	1.41	15.4	4.57	--
DP-7	DP-7	09/20/02	20.0 - DUP	Property--excavated 2020	<20.0	2.82	<2.00	--	--	--	--	<2.00	<2.00	<20.0	2.49	--	16.1	4.92	--
MW-13	DB-2	09/24/02	14.0	Property--excavated 2020	0.0507	<0.005	--	--	4.99	--	--	<0.005	<0.005	0.00469	<0.005	--	0.00879	<0.005	--
DB-3	DB-3	09/26/02	11.0	Property--excavated 2020	<0.030	<0.005	--	--	6.34	--	--	<0.005	<0.005	<0.0035	<0.005	--	<0.005	<0.005	--
DB-4	DB-4	09/25/02	9.0	Monterey Apartments	<5	0.963	--	--	<0.33	--	--	<0.5	<0.5	<5.00	1.22	--	9.39	2.84	--
DB-5	DB-5	09/23/02	13.0	Monterey Apartments	<100	48.6	--	--	9.27	--	--	16.3	15.3	<100	68.5	--	472	158	--
MW-14	DB-6	09/25/02	16.5	Del Roy Apartments	0.0625	<0.005	--	--	<0.33	--	--	<0.005	<0.005	<0.0035	<0.005	--	0.0586	0.0117	--
DB-7	DB-7	09/24/02	11.5	Monterey Apartments	<0.03	<0.005	--	--	7.71	--	--	<0.005	<0.005	0.00488	<0.005	--	<0.005	<0.005	--
MW-15	DB-8	09/25/02	16.5	Alvena Vista Apartments	<0.03	<0.005	--	--	<0.33	--	--	<0.005	<0.005	<0.0035	<0.005	--	<0.005	<0.005	--
MW-16	DB-9	09/24/02	16.0	U-Park Lot	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-17	DB-10	09/23/02	11.0	Queen Anne Arms Apartments	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DB-11	DB-11	09/26/02	10.5	Bank of America	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-22	SB-22	10/04/04	12.0	Del Roy Apartments	--	--	--	--	--	--	--	--	--	0.011	--	--	--	--	--
MW-22	SB-22	10/04/04	15.0	Del Roy Apartments	--	--	--	--	--	--	--	--	--	0.004	--	--	--	--	--
MW-22	SB-22	10/04/04	19.0	Del Roy Apartments	--	--	--	--	--	--	--	--	--	0.003	--	--	--	--	--
MW-23	SB-23	10/04/04	10.0	Bungalows Apartments	--	--	--	--	--	--	--	--	--	<0.25	--	--	--	--	--
MW-23	SB-23	10/04/04	14.0	Bungalows Apartments	--	--	--	--	--	--	--	--	--	0.003	--	--	--	--	--
MW-23	SB-23	10/04/04	20.0	Bungalows Apartments	--	--	--	--	--	--	--	--	--	<0.25	--	--	--	--	--
MW-24	SB-24	10/05/04	16.0	Del Roy Apartments	--	--	--	--	--	--	--	--	--	<0.002	--	--	--	--	--
MW-24	SB-24	10/05/04	18.5	Del Roy Apartments	--	--	--	--	--	--	--	--	--	<2.5	--	--	--	--	--
MW-24	SB-24	10/05/04	9.0	Del Roy Apartments	--	--	--	--	--	--	--	--	--	0.004	--	--	--	--	--
MW-32	SB-32	07/05/05	10.0	U-Park Lot	--	--	--	--	--	--	--	--	--	0.01	--	--	--	--	--
MW-33	SB-33	07/06/05	25.0	U-Park Lot	--	--	--	--	--	--	--	--	--	<0.002	--	--	--	--	--
P4	P4	05/22/17	2.0	Property--right of way	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND <sup>2</sup>
P4	P4	05/22/17	4.0	Property--right of way	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND <sup>2</sup>
P4	P4	05/22/17	5.5	Property--right of way	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND <sup>2</sup>
P5	P5	05/22/17	2.0	Property--right of way	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND <sup>2</sup>
P5	P5	05/22/17	4.0	Property--right of way	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND <sup>2</sup>
P6	P6	05/22/17	1.0	Property--right of way	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND <sup>2</sup>
P6	P6	05/22/17	4.0	Property--right of way	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND <sup>2</sup>
P7	P7	05/22/17	2.0	Property--right of way	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND <sup>2</sup>

**Table 11**  
**Historical Soil Analytical Data - Volatile and Semi-volatile Organic Compounds**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**  
*All concentrations are in milligrams per kilogram (mg/kg)*

Location ID	Alternate ID	Date	Depth	Location	Acetone	n-Butylbenzene	sec-Butylbenzene	Benzoic Acid	Benzyl alcohol	Di-n-octyl phthalate	Isophorone	Isopropylbenzene	p-Isopropylbenzene	Methylene Chloride	m-Propylbenzene	Phenol	1,2,4-Trimethylbenzene	1,2,5-Trimethylbenzene	Other VOCs <sup>1</sup>
<b>MTCA Method A Soil Cleanup Levels</b>					--	--	--	--	--	--	--	--	--	<b>0.02</b>	--	--	--	--	--
P7	P7	05/22/17	4.0	Property--right of way	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND <sup>2</sup>
P7	P7	05/22/17	6.0	Property--right of way	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND <sup>2</sup>

**Notes**

<sup>1</sup> The 2019 Final Draft Interim Action Work Plan notes that "Other VOCs do not include petroleum-related VOCs that were not assessed independently due to the fact that they are factored into the MTCA Method A TPH Cleanup Levels." Other VOCs were analyzed by USEPA Method 8260.

<sup>2</sup> Reporting limit not available due to multiple analytes.

**Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs)**

**BOLD** and highlighted values are greater than their respective MTCA Method A CUL.

**BOLD** = Concentration is non-detect; however, the reporting limit is greater than the CUL.

Ecology Model Toxics Control Act (MTCA) Method A Soil Cleanup Levels (CULs) for Unrestricted Land Uses, WAC Chapter 173-340-900, Table 740-1

**Abbreviations and Acronyms**

-- = Not applicable or not analyzed

Depth = Depth of sample in feet below ground surface (bgs)

DUP = duplicate

**Laboratory Qualifiers**

< = Not detected greater than laboratory detection limit

**Table 12**  
**Historical Soil Analytical Data - Chlorinated Volatile Organic Compounds**  
**Former Texaco Service Station No. 211577**  
**631 Queen Anne Avenue North, Seattle, WA 98109**  
*All concentrations are in milligrams per kilogram (mg/kg)*

Location ID	Alternate ID	Date	Depth	Location	PCE	TCE	cis-1,2-DCE
<b>MTCA Method A Soil Cleanup Levels</b>					<b>0.05</b>	<b>0.03</b>	<b>--</b>
OTBMW-1	OTBMW-1	08/06/19	1 - 5	U-Park Lot	< 0.000814	< 0.000465	< 0.000802
OTBMW-1	OTBMW-1	08/06/19	1 - 8.5	U-Park Lot	< 0.000820	< 0.000468	< 0.000808
OTBMW-1	OTBMW-1	08/06/19	1 - 12.5	U-Park Lot	< 0.000807	< 0.000461	< 0.000795
OTBMW-1	OTBMW-1	08/06/19	1 - 16	U-Park Lot	< 0.000850	< 0.000486	< 0.000838
OTBMW-2	OTBMW-2	08/06/19	2 - 6	U-Park Lot	< 0.000787	< 0.000450	< 0.000776
OTBMW-2	OTBMW-2	08/06/19	2 - 7.5	U-Park Lot	< 0.000902	< 0.000516	< 0.000889
OTBMW-2	OTBMW-2	08/06/19	2 - 15	U-Park Lot	< 0.000867	< 0.000496	< 0.000856
OTBMW-2	OTBMW-2	08/06/19	2 - 20	U-Park Lot	< 0.000861	< 0.000492	< 0.000849
QAAMW-1	QAAMW-1	08/07/19	5.5	Queen Anne Arms Apartments	< 0.000759	< 0.000434	< 0.000748
QAAMW-1	QAAMW-1	08/07/19	10.5	Queen Anne Arms Apartments	< 0.000835	< 0.000477	0.01
QAAMW-1	QAAMW-1	08/07/19	15.5	Queen Anne Arms Apartments	< 0.000825	< 0.000472	< 0.000814
QAAMW-1	QAAMW-1	08/07/19	26	Queen Anne Arms Apartments	< 0.000859	< 0.000491	0.00417
SB-1	SB-1	08/06/19	2.5	U-Park Lot	< 0.000761	< 0.000435	< 0.000750
SB-1	SB-1	08/06/19	10.5	U-Park Lot	< 0.000827	< 0.000472	< 0.000815
SB-1	SB-1	08/06/19	13.5	U-Park Lot	< 0.000741	< 0.000423	< 0.000730
SB-1	SB-1	08/06/19	18	U-Park Lot	< 0.000731	< 0.000418	< 0.000720
SB-2	SB-2	08/06/19	5	U-Park Lot	< 0.000787	< 0.000450	< 0.000776
SB-2	SB-2	08/06/19	8.5	U-Park Lot	< 0.000851	< 0.000486	< 0.000838
SB-2	SB-2	08/06/19	13	U-Park Lot	< 0.000892	< 0.000510	< 0.000879
SB-2	SB-2	08/06/19	15.5	U-Park Lot	< 0.000730	< 0.000417	< 0.000720
SB-3	SB-3	08/07/19	6	Queen Anne Arms Apartments	< 0.000869	< 0.000497	< 0.000857
SB-3	SB-3	08/07/19	10.5	Queen Anne Arms Apartments	< 0.000946	< 0.000540	< 0.000933
SB-3	SB-3	08/07/19	15.5	Queen Anne Arms Apartments	< 0.000829	< 0.000474	< 0.000817
SB-4	SB-4	08/07/19	5.5	Queen Anne Arms Apartments	< 0.000989	< 0.000565	< 0.000975
SB-4	SB-4	08/07/19	11	Queen Anne Arms Apartments	0.00832	< 0.000468	< 0.000808
SB-4	SB-4	08/07/19	18	Queen Anne Arms Apartments	< 0.000852	< 0.000487	0.00657
SB-4	SB-4	08/07/19	20	Queen Anne Arms Apartments	< 0.000901	< 0.000515	0.00422
SB-4	SB-4	08/07/19	23	Queen Anne Arms Apartments	0.00809	0.00312	0.0172
SB-5	SB-5	08/07/19	5.5	Queen Anne Arms Apartments	< 0.000893	< 0.000510	< 0.000881
SB-5	SB-5	08/07/19	10.5	Queen Anne Arms Apartments	< 0.000816	< 0.000466	< 0.000805
SB-5	SB-5	08/07/19	18	Queen Anne Arms Apartments	< 0.000849	< 0.000485	< 0.000837
SB-5	SB-5	08/07/19	20.5	Queen Anne Arms Apartments	< 0.000860	< 0.000491	< 0.000848
SB-5	SB-5	08/07/19	23	Queen Anne Arms Apartments	< 0.000840	0.00122	0.0235

**Model Toxics Control Act (MTCA) Method A Cleanup Levels (CULs)**

**BOLD** and highlighted values are greater than their respective MTCA Method A CUL.

**BOLD** = Concentration is non-detect; however, the reporting limit is greater than the CUL.

Ecology Model Toxics Control Act (MTCA) Method A Soil Cleanup Levels (CULs) for Unrestricted Land Uses, WAC Chapter 173-340-900, Table 740-1

**Abbreviations and Acronyms**

-- = Not applicable or not analyzed

Depth = Depth of sample in feet below ground surface (bgs)

DUP = duplicate

**Laboratory Qualifiers**

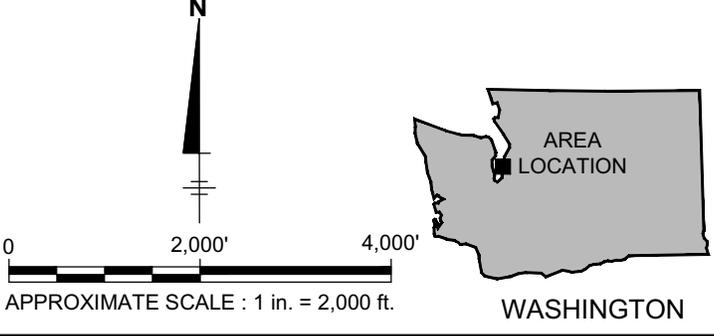
< = Not detected greater than laboratory detection limit

# FIGURES

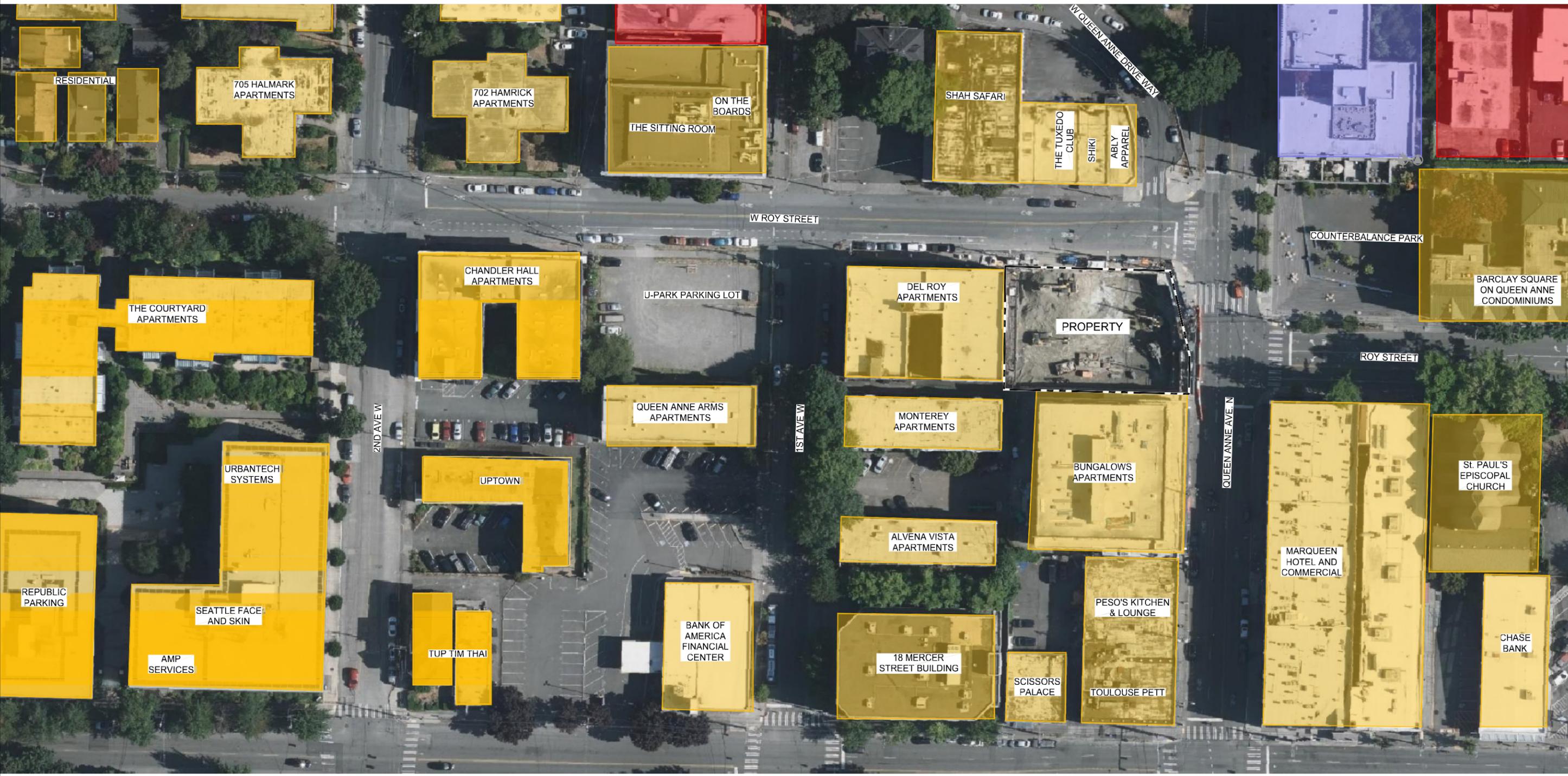




SOURCE: BASE MAP USGS 7.5. MIN. TOPO. SEATTLE NORTH, WA, 2017 AND SEATTLE SOUTH, WA, 2017



FORMER CHEVRON FACILITY #211577 631 QUEEN ANNE AVENUE NORTH SEATTLE, WA 98109	
<b>SITE LOCATION MAP</b>	
	Design & Consultancy for natural and built assets
FIGURE	<b>1</b>



**LEGEND:**

--- APPROXIMATE PROPERTY BOUNDARY

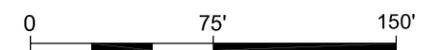
**NOTE:**

1. THE PROPERTY WAS ENTIRELY EXCAVATED IN 2020/2021 AND IS UNDER REDEVELOPMENT AS OF 2021.

**ZONING:**

- MIXED USE - SM - UP (MI)
- MULTIFAMILY RESIDENTIAL - MR (M)
- MULTIFAMILY RESIDENTIAL - LR3 (M)

N



APPROXIMATE SCALE : 1 in. = 75 ft.

SOURCE: © 2019 MICROSOFT CORPORATION © 2019 DIGITALGLOBE © CNES (2019) DISTRIBUTION AIRBUS DS

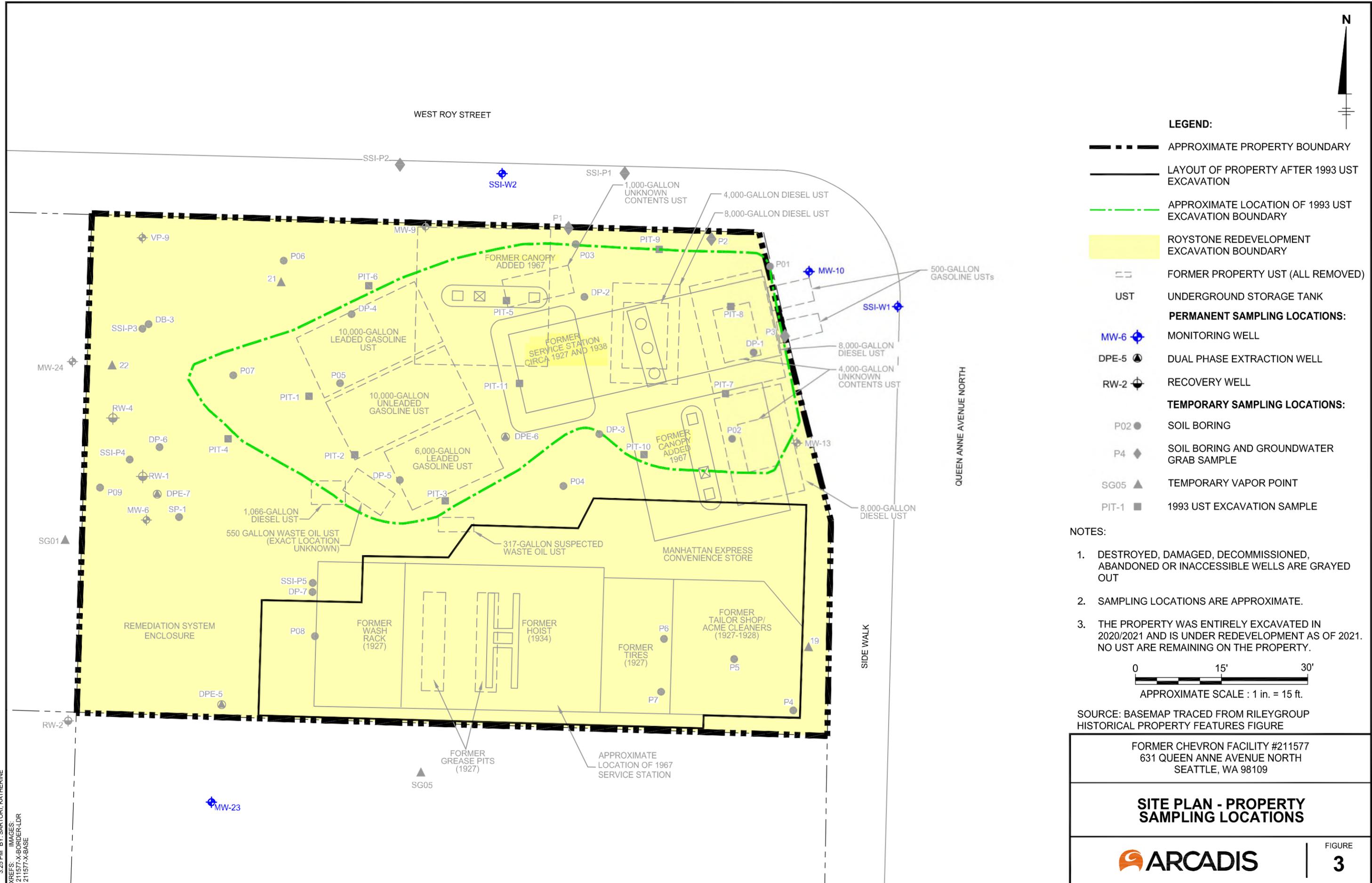
FORMER CHEVRON FACILITY #211577  
631 QUEEN ANNE AVENUE NORTH  
SEATTLE, WASHINGTON 98109

**SITE AERIAL MAP**



FIGURE

**2**

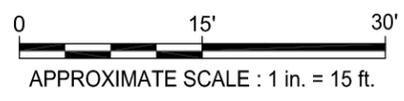


**LEGEND:**

- APPROXIMATE PROPERTY BOUNDARY
- LAYOUT OF PROPERTY AFTER 1993 UST EXCAVATION
- APPROXIMATE LOCATION OF 1993 UST EXCAVATION BOUNDARY
- ROYSTONE REDEVELOPMENT EXCAVATION BOUNDARY
- FORMER PROPERTY UST (ALL REMOVED)
- UST UNDERGROUND STORAGE TANK
- PERMANENT SAMPLING LOCATIONS:**
- ◆ MW-6 MONITORING WELL
- DPE-5 DUAL PHASE EXTRACTION WELL
- ⊕ RW-2 RECOVERY WELL
- TEMPORARY SAMPLING LOCATIONS:**
- P02 SOIL BORING
- ◆ P4 SOIL BORING AND GROUNDWATER GRAB SAMPLE
- ▲ SG05 TEMPORARY VAPOR POINT
- PIT-1 1993 UST EXCAVATION SAMPLE

**NOTES:**

1. DESTROYED, DAMAGED, DECOMMISSIONED, ABANDONED OR INACCESSIBLE WELLS ARE GRAYED OUT
2. SAMPLING LOCATIONS ARE APPROXIMATE.
3. THE PROPERTY WAS ENTIRELY EXCAVATED IN 2020/2021 AND IS UNDER REDEVELOPMENT AS OF 2021. NO UST ARE REMAINING ON THE PROPERTY.

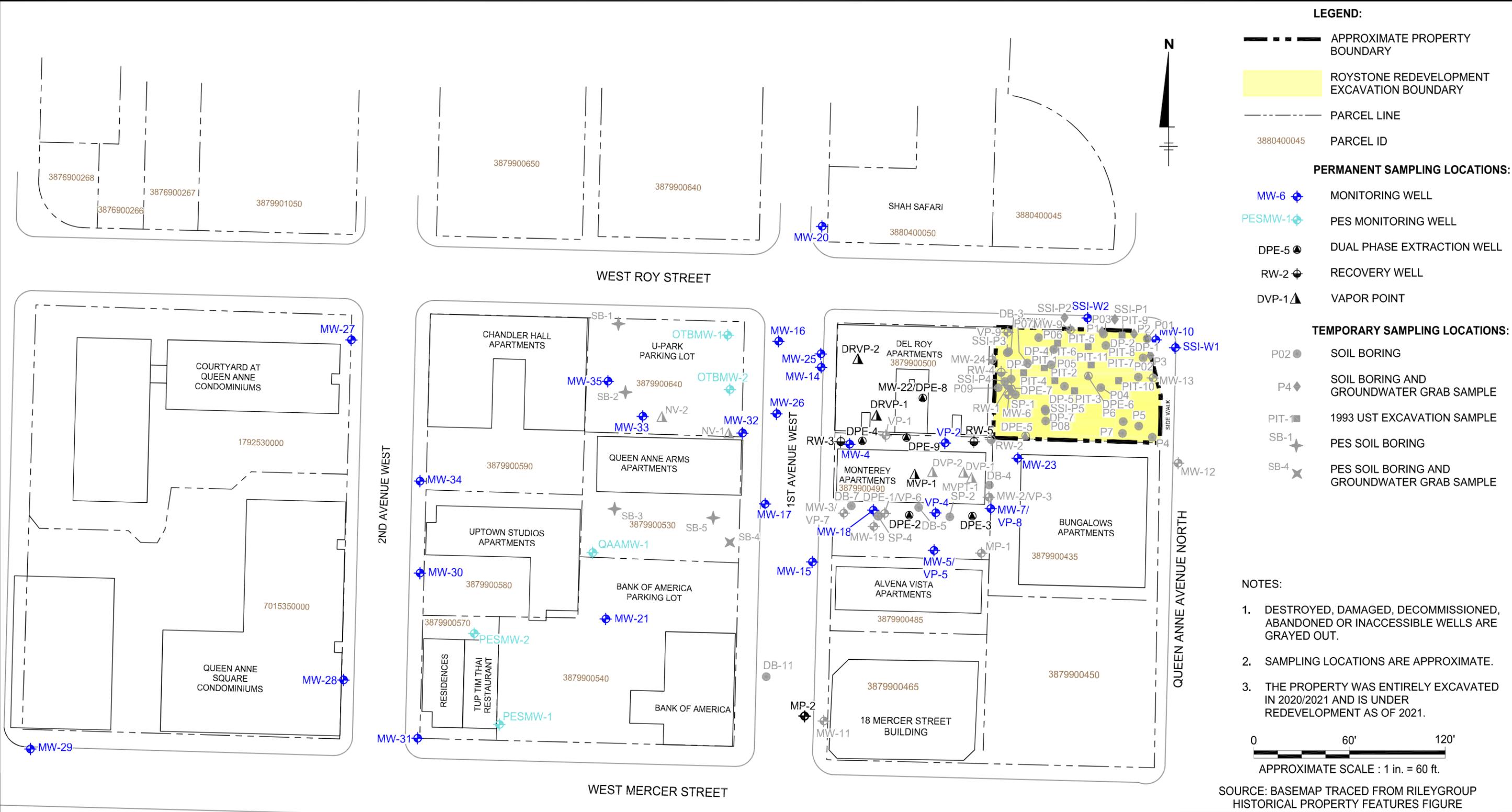


SOURCE: BASEMAP TRACED FROM RILEYGROUP HISTORICAL PROPERTY FEATURES FIGURE

FORMER CHEVRON FACILITY #211577 631 QUEEN ANNE AVENUE NORTH SEATTLE, WA 98109	
<b>SITE PLAN - PROPERTY SAMPLING LOCATIONS</b>	
	FIGURE <b>3</b>



CITY:EMERYVILLE, CA DIV:GROUP:ENVCAD, DR:AREYES  
 C:\Users\oberlander\ArcGIS\Projects\20210101-In-Progress\01-DWG\GWMON-302021-FIG05-OFF-PROPERTY WELLS.dwg LAYOUT:5, SAVED: 11/15/2021 3:38 PM, ACAD:VER:23.1S (LMS TECH), PAGES:SETUP:----, PLOT:STYLE:TABLE:----  
 PLOTTED: 11/15/2021 3:33 PM BY: OBERLANDER, ROSSEANNE  
 XREFS: IMAGES:  
 211577-X-BASE  
 211577-X-BORDER-LDR  
 211577-X-SP-LOC



**LEGEND:**

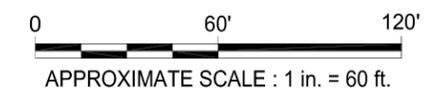
- APPROXIMATE PROPERTY BOUNDARY
- ROYSTONE REDEVELOPMENT EXCAVATION BOUNDARY
- PARCEL LINE
- 3880400045 PARCEL ID
- PERMANENT SAMPLING LOCATIONS:**
- MW-6 MONITORING WELL
- PESMW-1 PES MONITORING WELL
- DPE-5 DUAL PHASE EXTRACTION WELL
- RW-2 RECOVERY WELL
- DVP-1 VAPOR POINT

**TEMPORARY SAMPLING LOCATIONS:**

- P02 SOIL BORING
- P4 SOIL BORING AND GROUNDWATER GRAB SAMPLE
- PIT-1 1993 UST EXCAVATION SAMPLE
- SB-1 PES SOIL BORING
- SB-4 PES SOIL BORING AND GROUNDWATER GRAB SAMPLE

**NOTES:**

1. DESTROYED, DAMAGED, DECOMMISSIONED, ABANDONED OR INACCESSIBLE WELLS ARE GRAYED OUT.
2. SAMPLING LOCATIONS ARE APPROXIMATE.
3. THE PROPERTY WAS ENTIRELY EXCAVATED IN 2020/2021 AND IS UNDER REDEVELOPMENT AS OF 2021.



SOURCE: BASEMAP TRACED FROM RILEYGROUP HISTORICAL PROPERTY FEATURES FIGURE

FORMER CHEVRON FACILITY #211577  
 631 QUEEN ANNE AVENUE NORTH  
 SEATTLE, WA 98109

**SITE PLAN - OFF-PROPERTY WELL AND SOIL BORING LOCATIONS**

**ARCADIS**

FIGURE **5**

CITY:EMERYVILLE,CA\_DIV:GROUP:ENVCAD\_DRA:REYES  
 C:\Users\roberlandr\ArcGIS\ArcCatalog\Projects\20210101-In-Progress\01-DWIG\GWMON-302021-FIG06-OFF-PROP.VP.dwg LAYOUT:6\_SAVED:11/12/2021 8:37 AM ACADVER:23.1S (LMS TECH) PAGESETUP:---- PLOTSTYLETABLE:---- PLOTTED:  
 11/12/2021 8:54 AM BY:OBERLANDR,ROSEANNE  
 XREFS: IMAGES:  
 211577-X-BASE  
 211577-X-BORDER-LDR  
 211577-X-SP-LOC



- LEGEND:**
- APPROXIMATE PROPERTY BOUNDARY
  - ROYSTONE REDEVELOPMENT EXCAVATION BOUNDARY
  - PARCEL LINE
  - 3880400045 PARCEL ID
- PERMANENT SAMPLING LOCATIONS:**
- NV-2 ▲ VAPOR POINT
- TEMPORARY SAMPLING LOCATIONS:**
- SG05 ▲ TEMPORARY VAPOR POINT
  - 25 ▼ TEMPORARY VAPOR POINT AND GROUNDWATER GRAB SAMPLE

- NOTES:**
1. DESTROYED, DAMAGED, DECOMMISSIONED, ABANDONED OR INACCESSIBLE WELLS ARE GRAYED OUT.
  2. SAMPLING LOCATIONS ARE APPROXIMATE.
  3. THE PROPERTY WAS ENTIRELY EXCAVATED IN 2020/2021 AND IS UNDER REDEVELOPMENT AS OF 2021.
- 0 60' 120'  
 APPROXIMATE SCALE : 1 in. = 60 ft.

SOURCE: BASEMAP TRACED FROM RILEYGROUP HISTORICAL PROPERTY FEATURES FIGURE

FORMER CHEVRON FACILITY #211577  
 631 QUEEN ANNE AVENUE NORTH  
 SEATTLE, WA 98109

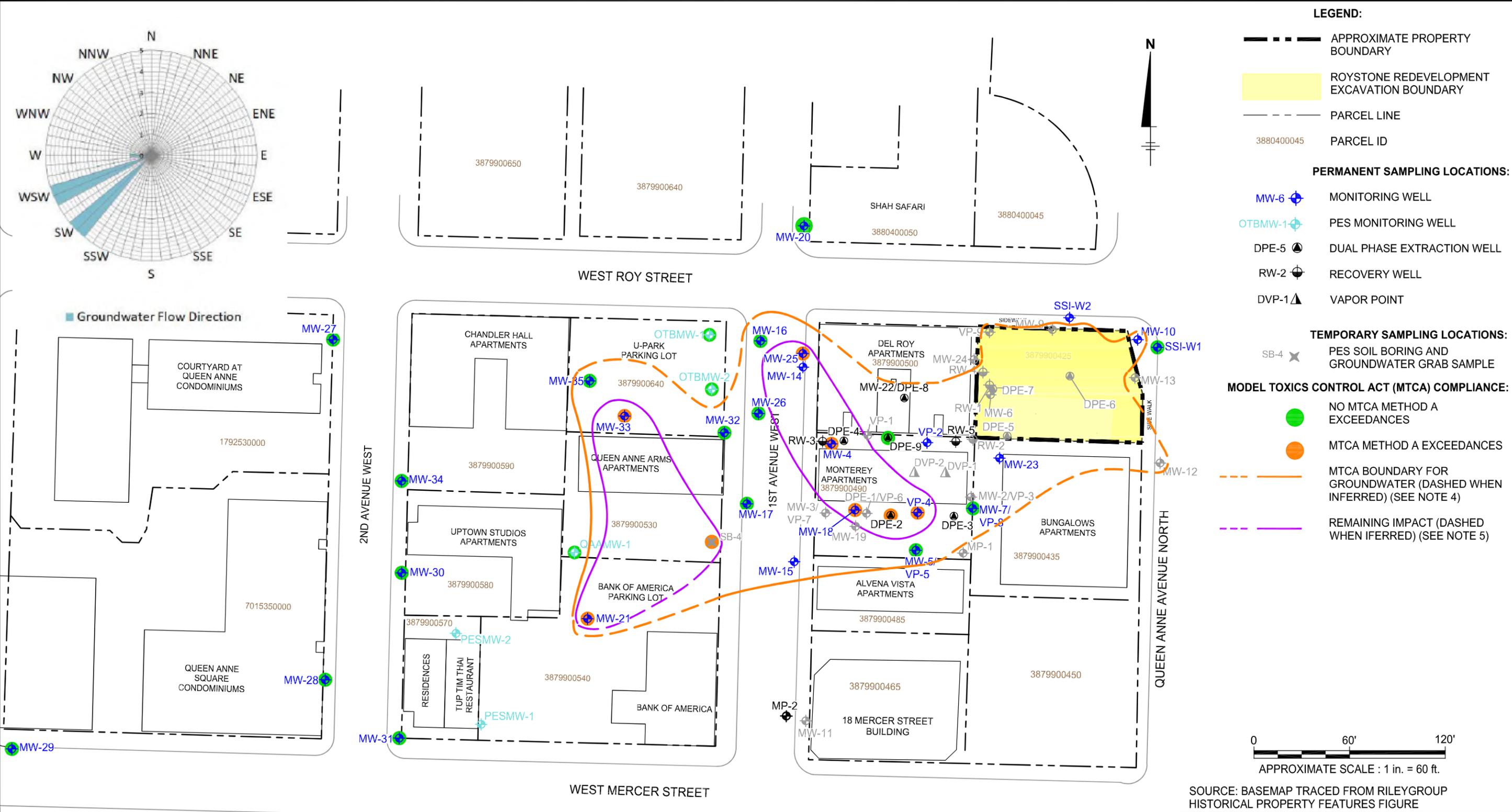
**SOIL VAPOR SAMPLE LOCATIONS**

FIGURE  
**6**





CITY:EMERYVILLE, CA DIV:GROUP:ENVCAD DBA:REYES  
 C:\Users\roberta\ArcGIS\ArcCatalog\Projects\20210101-In Progress\01-DWIG\GWMON-302024-FIG08-CURRENT.GW.dwg LAYOUT: 8 SAVED: 11/15/2021 3:42 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED:  
 11/15/2021 3:42 PM BY: OBERLANDER, ROSEANNE  
 XREFS: IMAGES: 211577-X-BORDER-LDR  
 211577-X-BASE  
 211577-X-SP-LOC



**LEGEND:**

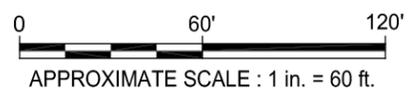
- APPROXIMATE PROPERTY BOUNDARY
  - ROYSTONE REDEVELOPMENT EXCAVATION BOUNDARY
  - PARCEL LINE
  - PARCEL ID
- PERMANENT SAMPLING LOCATIONS:**
- MW-6 MONITORING WELL
  - OTBMW-1 PES MONITORING WELL
  - DPE-5 DUAL PHASE EXTRACTION WELL
  - RW-2 RECOVERY WELL
  - DVP-1 VAPOR POINT

**TEMPORARY SAMPLING LOCATIONS:**

- SB-4 PES SOIL BORING AND GROUNDWATER GRAB SAMPLE

**MODEL TOXICS CONTROL ACT (MTCA) COMPLIANCE:**

- NO MTCA METHOD A EXCEEDANCES
- MTCA METHOD A EXCEEDANCES
- MTCA BOUNDARY FOR GROUNDWATER (DASHED WHEN INFERRRED) (SEE NOTE 4)
- REMAINING IMPACT (DASHED WHEN INFERRRED) (SEE NOTE 5)



SOURCE: BASEMAP TRACED FROM RILEYGROUP HISTORICAL PROPERTY FEATURES FIGURE

**NOTES:**

1. DESTROYED, DAMAGED, DECOMMISSIONED, ABANDONED OR INACCESSIBLE WELLS ARE GRAYED OUT.
2. SAMPLING LOCATIONS ARE APPROXIMATE.
3. THE PROPERTY WAS ENTIRELY EXCAVATED IN 2020/2021 AND IS UNDER REDEVELOPMENT AS OF 2021.
4. DATA CONSIDERED FOR MTCA BOUNDARY EVALUATION FROM 1986 TO 2018 AND DOES NOT INCLUDE CHLORINATED SOLVENTS.
5. DATA CONSIDERED FOR REMAINING IMPACT EVALUATION FROM 2019 TO 2020 AND DOES NOT INCLUDE CHLORINATED SOLVENTS.
6. DISSOLVED METALS CONSIDERED FOR REMAINING IMPACT EVALUATION.

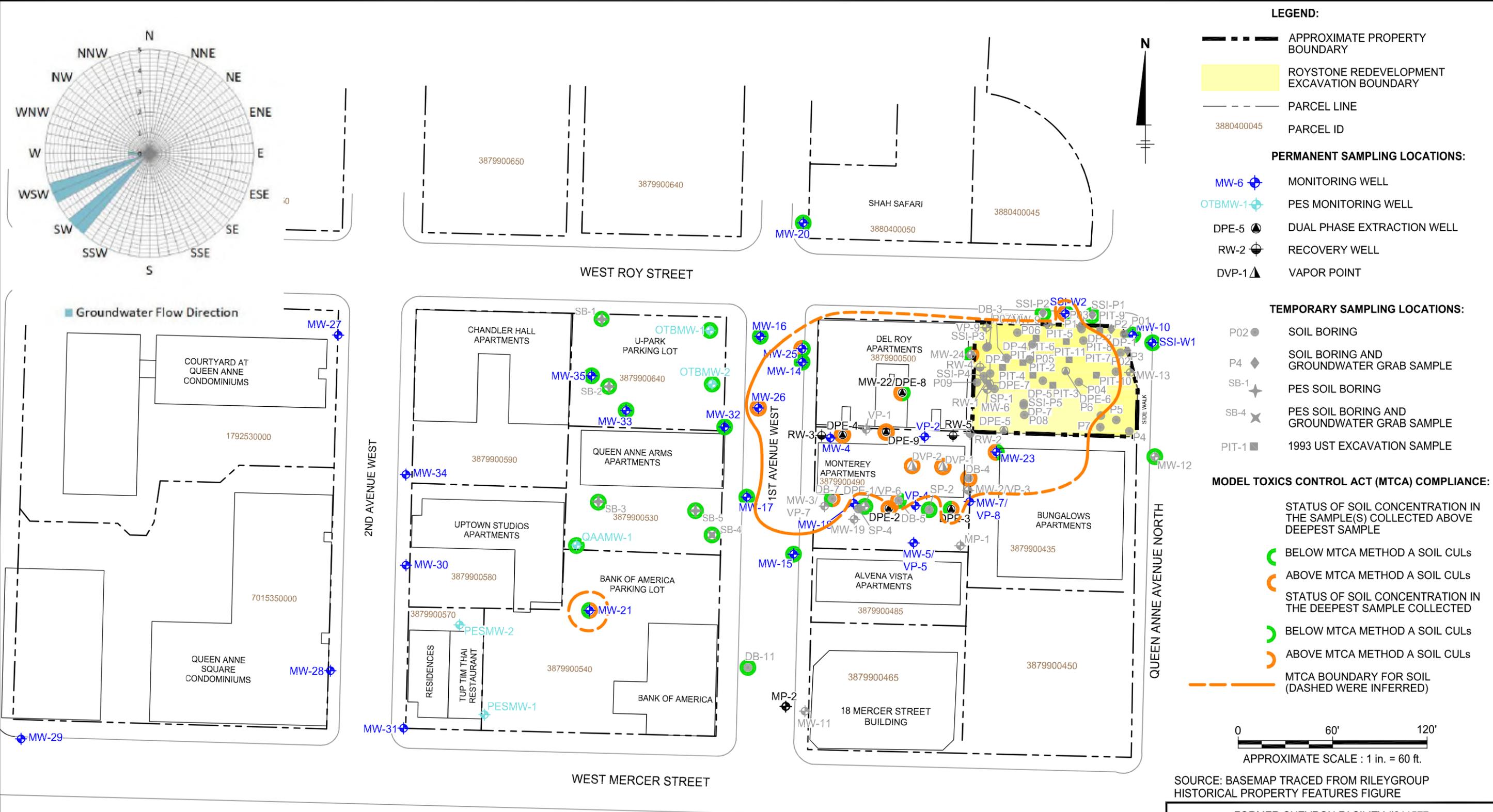
FORMER CHEVRON FACILITY #211577  
 631 QUEEN ANNE AVENUE NORTH  
 SEATTLE, WA 98109

**CURRENT  
 GROUNDWATER IMPACT**

**ARCADIS**

FIGURE  
**8**

CITY:EMERYVILLE, CA DIV:GROUP:ENVCAD\_DRA:REYES  
 C:\Users\roberlandr\OneDrive\Documents\ArcGIS\Projects\2021\1577-SEATTLE-WASHINGTON\Project Files\2021\101-In Progress\01-DWG\GWMON-302021-FIG09-HISTORICAL SOIL.dwg LAYOUT: 9 - SAVED: 11/15/2021 3:45 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 11/15/2021 3:48 PM BY: OBERLANDER, ROSEANNE  
 XREFS: IMAGES: 211577-X-BORDER-LDR 211577-X-BASE 211577-X-SP-LOC



**NOTES:**

- DESTROYED, DAMAGED, DECOMMISSIONED, ABANDONED OR INACCESSIBLE WELLS ARE GRAYED OUT.
- SAMPLING LOCATIONS ARE APPROXIMATE.
- THE PROPERTY WAS ENTIRELY EXCAVATED IN 2020/2021 AND IS UNDER REDEVELOPMENT AS OF 2021.

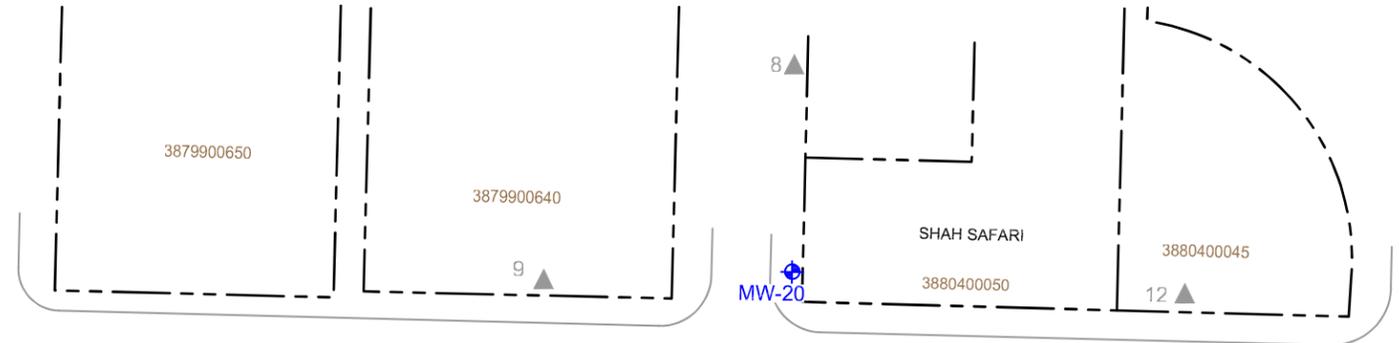
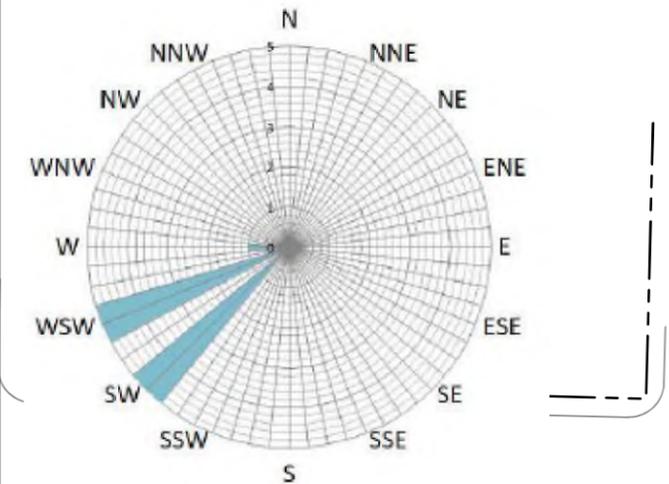
FORMER CHEVRON FACILITY #211577  
 631 QUEEN ANNE AVENUE NORTH  
 SEATTLE, WA 98109

**HISTORICAL SOIL IMPACT**

ARCADIS

FIGURE 9

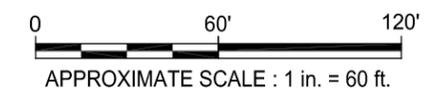
CITY:EMERYVILLE, CA DIV:GROUP:ENVCAD\_DR:AREVES  
 C:\Users\robert@arcadis.com\ArcGIS\AUS-CHEVRON-211577-SEATTLE-WASHINGTON\Project Files\2021\101-In Progress\01-DWG\GWMON-302021-FIG010-P-OFF PROP.dwg LAYOUT:10 SAVED:11/15/2021 9:34 AM ACADVER:23.1S (LMS TECH) PAGESETUP:---- PLOTTED:  
 11/15/2021 3:19 PM BY: OBERLANDER, ROSEANNE  
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 211577-X-BASE  
 211577-X-SP-LOC



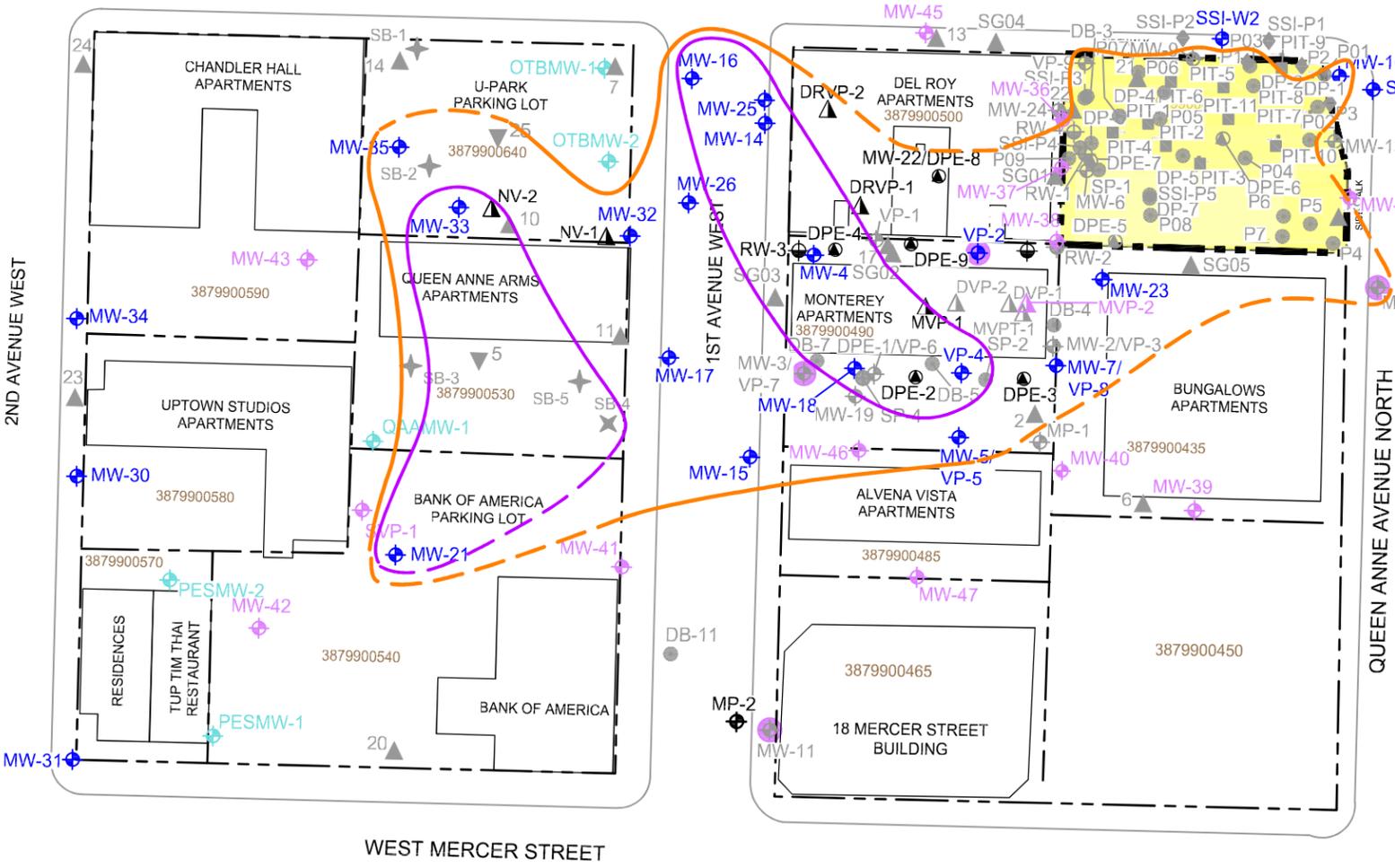
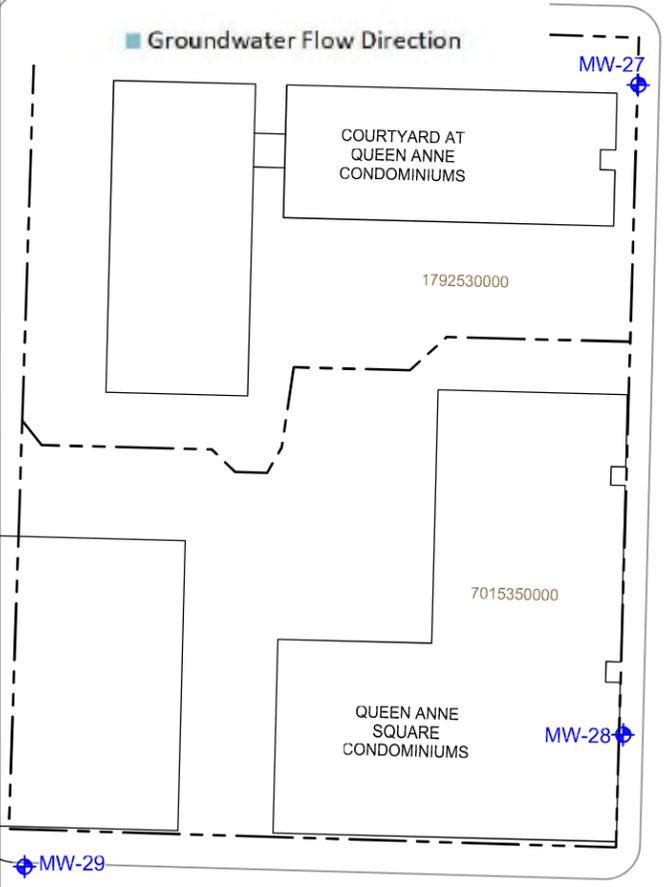
- LEGEND:**
- APPROXIMATE PROPERTY BOUNDARY
  - ROYSTONE REDEVELOPMENT EXCAVATION BOUNDARY
  - PARCEL LINE
  - 3880400045 PARCEL ID
- PERMANENT SAMPLING LOCATIONS:**
- MW-6 MONITORING WELL
  - OTBMW-1 PES MONITORING WELL
  - DPE-5 DUAL PHASE EXTRACTION WELL
  - RW-2 RECOVERY WELL
  - NV-2 VAPOR POINT

- TEMPORARY SAMPLING LOCATIONS:**
- P02 SOIL BORING
  - P4 SOIL BORING AND GROUNDWATER GRAB SAMPLE
  - SB-1 PES SOIL BORING
  - SB-4 PES SOIL BORING AND GROUNDWATER GRAB SAMPLE
  - SG05 TEMPORARY VAPOR POINT
  - 25 TEMPORARY VAPOR POINT AND GROUNDWATER GRAB SAMPLE
  - PIT-1 1993 UST EXCAVATION SAMPLE

- PROPOSED SAMPLING LOCATIONS:**
- MW-11 MONITORING WELL TO BE REPLACED
  - MW-39 PROPOSED WELL
  - MVP-2 PROPOSED VAPOR POINT
  - MTCA BOUNDARY FOR GROUNDWATER (DASHED WHEN INFERRED) (SEE NOTE 4)
  - REMAINING IMPACT (DASHED WHEN INFERRED) (SEE NOTE 5)



SOURCE: BASEMAP TRACED FROM RILEYGROUP HISTORICAL PROPERTY FEATURES FIGURE



- NOTES:**
1. DESTROYED, DAMAGED, DECOMMISSIONED, ABANDONED OR INACCESSIBLE WELLS ARE GRAYED OUT.
  2. SAMPLING LOCATIONS ARE APPROXIMATE.
  3. THE PROPERTY WAS ENTIRELY EXCAVATED IN 2020/2021 AND IS UNDER REDEVELOPMENT AS OF 2021.
  4. PROPOSED SAMPLING LOCATIONS ARE APPROXIMATE AND MAY CHANGE PENDING FIELD CONDITIONS.

FORMER CHEVRON FACILITY #211577  
 631 QUEEN ANNE AVENUE NORTH  
 SEATTLE, WA 98109

**SITE PLAN - PROPOSED OFF-PROPERTY SAMPLING LOCATIONS**

**ARCADIS** | FIGURE 10

# APPENDIX A

## Pertinent Site Information



NW0911



18912 North Creek Parkway, Suite 101, Bothell, Washington 98011  
(425) 482-3325 Fax (425) 485-5566

August 27, 2006

Parties Interested in the Cleanup Action  
Former Texaco Service Station No. 211577  
631 Queen Anne Avenue North  
Seattle, Washington

**Re: Construction Plan and Schedule for Environmental Cleanup Activities  
on the Monterey Apartments and Del Roy Apartments Properties**

Interested Parties:

This letter describes construction activities planned to take place on the Monterey Apartments and Del Roy Apartments properties. These activities are associated with the ongoing environmental cleanup action at 631 Queen Anne Avenue North, which is the current site of the Manhattan Express convenience store. Work associated with these construction activities is scheduled to begin on September 13, 2006, and is anticipated to be completed by mid-October.

Science Applications International Corporation, on behalf of Chevron Environmental Management Company, is performing this cleanup action to address historic releases of petroleum hydrocarbons to soil and groundwater, resulting from former operations of a gasoline service station at the Queen Anne site. Petroleum contamination is known to have migrated into the soil below the Del Roy Apartments and Monterey Apartments properties, and expansion of the currently operating environmental cleanup system will be necessary to address petroleum in these areas.

Construction activities to be performed to complete the system expansion will include:

- Drilling and installing four new groundwater wells and removal of two old wells
- Trenching and installation of pipe to connect these new wells to the existing system equipment area located on the Manhattan Express property
- Restoration of all disturbed areas to match conditions similar to those currently existing

The attached figure shows the approximate location for each of the new wells and includes the anticipated location where trenching activities will take place. Following completion of construction activities, system operating noise is not expected to increase above the current level.

## **Project Schedule and Task Implementation**

The following sections provide details and schedule on each of the anticipated construction tasks.

### **Task 1: Del Roy Apartments Courtyard Fence Removal**

To allow for drilling equipment access into the courtyard of the Del Roy Apartments, the existing wrought-iron fencing and gate currently enclosing the courtyard will be temporarily removed and stored for replacement following construction activities. Once the fence has been removed, temporary fencing will be placed to control public access to the area. The original fence will be replaced after Task 3.

Scheduled Date: Week of September 11, 2006

Location: Del Roy Apartments Courtyard

Work Hours: Between 9:00am and 6:00pm

### **Task 2: Drilling and Well Installation**

At each new well location, a thorough utility check will first be performed using a high-pressure air and vacuum system to excavate an approximately 12-inch diameter hole to a depth of 8 feet below the ground surface. If no utility lines are encountered, a truck-mounted drill rig will then be used to complete installation of the well to a depth of approximately 25 feet. Drilling activities will include the installation of four wells at the approximate locations shown in the attached figure. All new wells will be completed with traffic-rated flush well vaults installed to match the existing surface grade, similar to wells previously installed on these properties. In addition, two old wells will be decommissioned and removed.

Scheduled Dates: September 14 – 16, 2006, and possibly later in September

Location: North side of Monterey Apartments parking lot,  
Alley between Monterey Apartments and Del Roy Apartments,  
Courtyard of Del Roy Apartments

\*Onsite Work Hours: Weekdays 7:00am – 6:00pm  
Saturday (Del Roy) 8:00am – 7:00pm

\*Heavy Equipment  
Work Hours: Weekdays 9:00am – 6:00pm  
Saturday (Del Roy) 9:00am – 7:00pm

\*Onsite work hours in the morning include light work, such as hand tools usage and digging. Weekday hours may also extend to 7:00pm only when required by construction logistics, but is not anticipated.

### **Task 3: Trenching and Pipe Installation**

Piping used to connect each of the new wells to the existing cleanup system will be buried in subsurface trenches. The attached figure shows the approximate trench layout that will be required to complete construction. Trenching will be performed with the use of concrete/asphalt sawing equipment, small backhoes, and by hand digging and/or with the use of light-duty equipment such as electric jack-hammers, depending on location. Once completed, trenches will

be finished with asphalt or concrete similar to existing conditions. Trenches installed in landscaped or other non-capped surfaces will be restored to conditions similar to those currently existing.

Scheduled Dates: September 18 – October 5, 2006

Location: North side of Monterey Apartments parking lot,  
Alley between Monterey Apartments and Del Roy Apartments,  
Del Roy Apartments courtyard

\*Onsite Work Hours: Weekdays 7:00am – 6:00pm  
Saturday 8:00am – 6:00pm

\*Heavy Equipment  
Work Hours: Weekdays 9:00am – 6:00pm  
Saturday 10:00am – 6:00pm

### **Monterey Apartments Tenant Parking Relocation**

Due to the activities planned for the north side of the Monterey Apartments parking lot, residents with reserved spaces in this area will be temporarily relocated to allow for construction access. Chevron will provide each of these residents with a 3-week parking pass for the U-Park parking lot located across 1<sup>st</sup> Ave West, on the southwest corner of 1<sup>st</sup> Ave and Roy St. One pass will be provided for each parking space requiring relocation. Passes will be effective beginning September 13<sup>th</sup>, and tenants are asked to vacate the Monterey lot beginning on this date. Passes will expire at the end of the day on October 5<sup>th</sup>.

### **Site Control, Access and Emergency Exits**

During construction activities, an exclusion (safety) zone will be maintained around construction activities and equipment throughout the duration of the project, and public access to these areas will be restricted with temporary fencing and cordoning tape. SAIC and the construction contractor will attempt to minimize any disturbances to the residents of the Monterey and Del Roy Apartments. When necessary, traffic flaggers or spotters will be used to direct vehicle and pedestrian traffic in and out of the project area.

At least one emergency access/egress point from the buildings will be open at all times, compliant with city fire codes. At no time during construction will the main entrances to either building be blocked by construction activities. Signs will be placed at exit doors directing apartment residents around the construction area in case an emergency evacuation is required. The back door on the eastern side of the Monterey building will remain accessible, with signs directing pedestrians outside the building away to the north or south. Due to the location of trenching near the Del Roy exit doors in the alleyway, only one of the two alley exit doors will be accessible at a time. Signs will be placed directing residents as to which door will be available for emergency access during the different stages of construction.

### **Possible Schedule Extension**

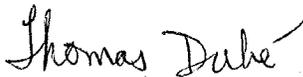
Construction-related activities described in this letter are scheduled to begin September 14, 2006, and be completed by approximately October 5, 2006. Some work near the Del Roy Apartments or in the alley may continue after this date. After that time, a limited crew will be onsite for

trouble shooting and performance optimization of the newly modified system. All construction activities in the Monterey-Apartment parking lot must be completed by October 5<sup>th</sup>, as this is the last date that temporary parking in the U-Park parking lot is available. Extended work hours and possible weekend work may be required to ensure this deadline is met.

A brief informational flyer will be e-mailed to apartment managers within a few days, for potential distribution to tenants. If you have any further questions or comments on the information provided in this letter, please contact me at (425) 482-3325. Please distribute this letter to other parties that may be interested.

Sincerely,

**SCIENCE APPLICATIONS INTERNATIONAL CORPORATION**



Thomas Dubé  
Project Manager

Attachment: Figure 1 – Proposed Well Locations and Trench Alignment

Distribution List:

Mr. Michael Banks, DARCO  
Ms. Nancy Darlington, Yates-Wood  
Mr. Mark Edens, Washington Dept of Ecology  
Mr. Brett Hunter, Chevron EMC  
Mr. Berthin Hyde, Sound Environmental  
Mr. Kevin Koh, Manhattan Express  
Mr. David Land, Spencer & Loescher  
Mr. Thomas Morin, Environmental Partners  
Mr. Pat Paulich, Thorsrud Cane & Paulich  
Ms. Sarah Wilke, On the Boards  
Mr. Yuba, Del Roy, DARCO

**Myers, Dale R. (ECY-TCP)**

---

**From:** Sato, Brian  
**Sent:** Friday, March 10, 2006 10:24 AM  
**To:** Myers, Dale R. (ECY-TCP)  
**Subject:** FW: Queen Anne remediation status update

Dale-

Here's the original message with attachment.

I don't think this site needs immediate attention but a new Site Manager should be assigned now. They have just activated the remedial system and I expect it will operate for some time. They will likely need to engage Ecology during the remedial action phase and since this site has a long history with Ecology, the new Site Manager will likely need some time to get up to speed. Assigning someone now would provide an opportunity to get up to speed while the remedial system is in operation.

Please let me know if you have any questions or if I can help in any way.

Regards,

Brian

-----Original Message-----

**From:** THOMAS.E.DUBE@saic.com [mailto:THOMAS.E.DUBE@saic.com]  
**Sent:** Thursday, March 09, 2006 8:03 PM  
**To:** Sato, Brian; 'Thomas Morin (E-mail)'; 'BqHyde@soundenvironmental.com'; 'Patrick Paulich'; 'delroy@darcoapts.com'; 'Hunter, Brett (BLHU)'; 'Robbins, Jon (JONR)'  
**Cc:** King, Megan M.; Shropshire, Russell S.; Watts, David; Santos, Ronald [RA]; Brimmer, Lynn  
**Subject:** Queen Anne remediation status update

Queen Anne team members:

Attached is an updated summary of construction/operation activities over the last several months at the Queen Anne former Texaco site (631 Queen Anne Ave N). The dual-phase extraction (DPE) system is now operational, although some testing and noise-reduction activities are still taking place. The system is currently utilizing three new DPE wells on the Arnold/Manhattan property, in addition to utilizing existing SVE wells and horizontal vent lines from the old installation. The final configuration will depend on results of ongoing optimization.

The groundwater extraction system was started full-time on February 22, and the soil vapor extraction (SVE) system was started on February 27. Estimates based on system performance monitoring measurements indicate that the SVE system is currently removing approximately 200 pounds of hydrocarbons per day. The majority of hydrocarbon mass presently being removed is from the three new DPE wells on the Arnold/Manhattan property, which is due to the system's ability to draw down the water table in this area. Installation of additional groundwater pumping (DPE) wells in the vicinity of the Monterey Apartment building is considered necessary to maximize hydrocarbon removal in that area, in the future.

An access/settlement agreement for the Monterey property is still being negotiated, and further installation or redrilling of wells for DPE purposes may take place this summer. In the

meantime, existing well RW-2 near the Del Roy Apartments will likely be plumbed in as an additional DPE well. The operation of the system in this partial configuration is expected to aid us in refining the locations of future wells in the downgradient area.

Thank-you  
Tom

Thomas Dubé, R.G.  
Project Manager  
Science Applications International Corp.  
18912 North Creek Parkway, #101  
Bothell, WA 98011-8016  
voice mail: (425) 482-3325  
cell phone: (425) 422-0480

<<Installation summary thru 03-03-06.doc>>

**Summary of Weekly Activities for Installation of DPE System  
Former Texaco Station Site #211577  
631 Queen Anne Avenue North, Seattle**

***Week of October 10:***

- Locate wells and conduct subsurface utilities

***Week of October 17:***

- Install remediation wells DPE-6 and DPE-7 in Manhattan parking lot
- Abandon recovery well RW-1
- Deliver working equipment to site
- Begin dismantling SVE system components and transport offsite (tray stripper, catalytic oxidizer and sound enclosure, blower and sound enclosure, system control panels, other miscellaneous materials)

***Week of October 24:***

- Core, cut, and remove concrete/asphalt in enclosure and trenches in parking lot
- Begin work on enclosure fencing and canopy support
- Begin trenching inside and outside enclosure
- SVE system components and debris transported offsite
- Electrical power drop disconnected

***Week of October 31:***

- Install remediation well DPE-6 inside enclosure
- Electrical components and panels dismantled
- Retaining wall cored for additional pipe runs
- Begin installing new control panel
- Additional trenching in enclosure
- Transport trench soil offsite
- Repair canopy and storm drain lines
- Begin installing containment sump in enclosure
- Begin laying air/water/vapor lines in trenches to wells
- Trenches bedded in enclosure
- Connect new lines to manifold header

***Week of November 7:***

- Water and air lines and valves set to final levels at wellheads
- Continue piping in trenches, repairing old pipes in trenches
- Conduct pressure test on air lines, and leak test on SVE and water lines
- Set manifold pipe locations in final configuration
- Trenches bedded with pea gravel and controlled-density fill
- Transport trench soil and construction debris offsite
- Begin installation of containment berm
- Pour concrete inside enclosure
- Develop remediation wells
- Upgrade canopy and drainage

***Week of November 14:***

- Continue upgrading canopy and drainage
- New gate added and fence upgraded around portion of enclosure
- Concrete poured for containment berm
- Electrical floats placed at wellheads
- Electrical main and control panels added in enclosure

***Week of November 21:***

- Major DPE system components delivered to site (thermal oxidizer, blower, air/water separator, oil/water separator, carbon units) and all but oxidizer placed inside enclosure
- Transport construction debris offsite
- Wellhead vaults concreted in
- Air and water lines connected to wells
- Pneumatic pump installed in DPE-5

***Week of November 28:***

- Thermal oxidizer placed inside enclosure
- Asphalt patch placed over trenches outside enclosure
- Air compressor delivered to site
- Begin construction of large shed for air compressor and storage
- Attempt to clear blockage in storm drain in Manhattan lot
- Install new electrical utility pole outside enclosure
- Begin adding strip-drain inside containment pad
- Pneumatic pump installed in DPE-7
- Begin piping for system components and manifold

***Week of December 5:***

- Transport construction debris offsite
- Strip-drain in enclosure completed
- Hole cut in canopy and oxidizer stack is set and secured
- Power drop from pole to box set
- Continue working on air compressor/storage shed
- System components leveled
- Pneumatic pump installed in DPE-6
- Phone line installed for auto-dialer
- Most system piping completed (except air compressor and gas line to oxidizer)
- Final underground electrical inspection performed

***Week of December 12:***

- Heavy working equipment removed from site
- System components cleaned
- Transport construction debris offsite
- Air compressor shed roof completed
- System manifold completed
- Construct control panel overhang
- Jersey barrier next to enclosure transported offsite
- Finish leveling carbons and filling with water

**Week of December 19:**

- Ramp constructed in walkway over containment berm and 4" oxidizer piping
- Gauges added to VES system manifold
- Site walk performed by Puget Sound Energy for natural gas line installation
- Began placement of conduit for system electrical connections and setting location of system control panels

**Week of December 26:**

- Continued electrical work, including constructing conduit rack on canopy, wiring control box, and terminations at system components
- Installed air supply line from compressor to well connections
- New natural gas line installed from main to location of meter
- Bollards installed in front of meter location for protection
- Installed natural gas supply line from meter location to Oxidizer

**Week of January 2:**

- Natural gas line from meter to oxidizer pressure tested, and inspected (final, approved)
- Began pulling electrical wire through conduit
- Broken storm drain line encountered during gas line installation repaired
- Gas meter installed, connected to underground line and system line
- Leaks in canopy repaired
- All tanks (batch, oil/water separator, air/water separator) filled with tap water

**Week of January 9:**

- Completed system electrical connections
- Temporary fencing removed from area outside the system compound
- Motors tested for function and rotation (AWS pump, Filter feed pump, blower, blower enclosure fan, and pad sump pump)
- Final connections on air supply line completed
- Plumber attempted to clear clogged storm drain in NW corner of Manhattan Express Lot

**Week of January 16:**

- System measurements collected for as-built drawings
- Canopy and Compressor shed painted
- Equipment startup and O&M training conducted on air compressor by the manufacturer's technician
- Pressure vessel inspection performed on air compressor (passed)

**Week of January 23:**

- Health and Safety equipment mounted throughout compound
- System shakedown performed by manufacturer's technician on all system components
- Initial startup activities performed, small adjustments made to system (replaced valves, etc.)
- Roofing over control panel completed
- Shelving inside compressor shed built
- Site cleared of all construction materials

**Week of January 30:**

- System shakedown and noise measurements

***Week of February 6:***

- Final electrical inspection (approved)
- Completed installation of electrical seal-offs and heat trace on the air/water separator pump
- System shakedown and evaluation of possible noise abatement strategies

***Week of February 13:***

- Modified carbon adsorber outlet piping to include a bypass line for gravity drainage to the sewer system
- Began air inlet piping modifications, blower recirculation line piping modifications, and started construction of air inlet filter sound enclosure

***Week of February 20:***

- Completed air inlet piping modifications, blower recirculation line piping modifications, and construction of air inlet filter sound enclosure
- Collected baseline (pre-pumping) groundwater elevation measurements and started groundwater extraction system on 2/22/06
- Performed additional shakedown testing of SVE system after installation of new air inlet/dilution air piping system

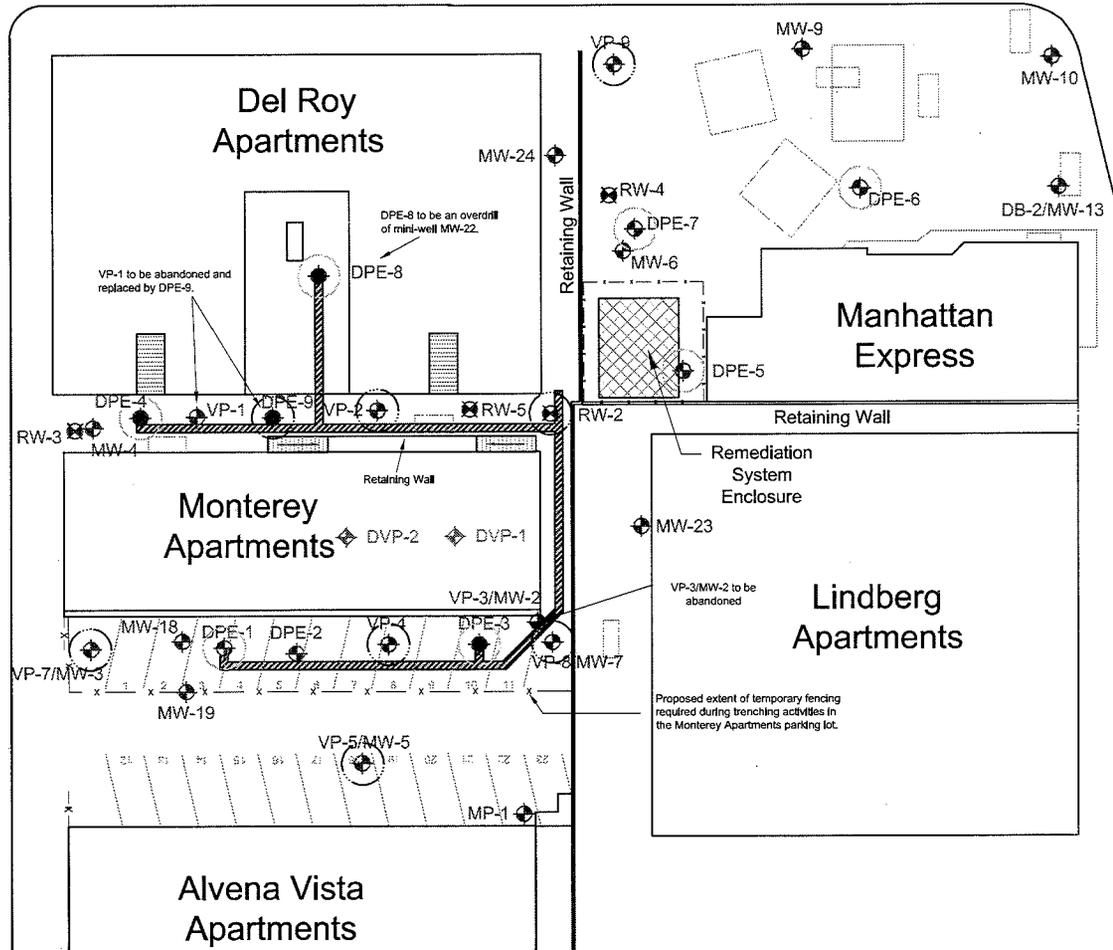
***Week of February 27:***

- Collected February compliance samples for groundwater treatment system
- Site inspection by Seattle Fire Marshall's Office on 2/27/06
- SVE system started on 2/27/06
- Performed five daily checks of system operation

WEST ROY STREET

QUEEN ANNE AVENUE NORTH

1ST AVENUE WEST

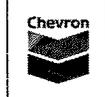
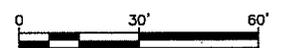


NOTES:

- 1 - ACTUAL TRENCH AND REMEDIATION WELL LAYOUT TO BE DETERMINED IN THE FIELD BASED ON THE LOCATION OF UNDERGROUND UTILITIES, AND APPROVED BY THE PROJECT ENGINEER.
- 2 - TRENCH INSTALLATION ALONG RETAINING WALL NORTH OF MONTEREY APARTMENTS TO BE PERFORMED BY "HAND-DIGGING" IN ORDER TO LIMIT ADDITIONAL LOAD STRESS TO THE RETAINING WALL.

LEGEND:

- MW-26 EXISTING 1" or 2" WELL LOCATION
- DPE-1 EXISTING 4" DIA. WELL LOCATION
- DVP-1 EXISTING 1/4" DIA. VAPOR POINT
- DPE-8 PROPOSED 4" DIA. EXTRACTION WELL LOCATION
- RW-2 EXISTING 6" or 8" DIA. RECOVERY WELL LOCATION
- PROPOSED TRENCH ALIGNMENT (Not To Scale)
- STREET CENTER LINE
- FENCE
- VAPOR EXTRACTION WELL
- GROUNDWATER / VAPOR EXTRACTION WELL



FORMER TEXACO STATION  
NO. 211577  
631 QUEEN ANNE AVENUE NORTH  
SEATTLE, WASHINGTON

**FIGURE 1**  
PROPOSED WELL LOCATIONS AND  
TRENCH ALIGNMENT

FILE NAME: 211577_BaseMap_G2.dwg	DATE: 08/25/2006
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2/10/06/1:00pm/chevron/water/Portland/0311577/Queen Anne/0311577\_BaseMap\_G2.dwg, Dwg, Dwg  
15/0006, 12/01/2006 PM, 11/01/06, 11/01/06

**Table 4-11**  
**Dissolved Metals and Inorganic Compounds**  
Former Texaco Service Station / Chevron Site No. 211577  
631 Queen Anne Avenue North  
Seattle, Washington

Well Identification	Sample Date	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Calcium (ppb)	Chromium (ppb)	Copper (ppb)	Iron (ppb)	Lead (total) (ppb)	Lead (dissolved) (ppb)	Magnesium (ppb)	Manganese (ppb)	Mercury (ppb)	Potassium (ppb)	Selenium (ppb)	Silicon (ppb)	Silver (ppb)	Sodium (ppb)	Zinc (ppb)	Ferrous Iron (mg/L)	Nitrate-Nitrogen (mg/L)	Sulfate (mg/L)	Comments
VP-1	06/14/00	--	--	--	--	--	--	--	33.4	33.9	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-1	07/24/02	--	--	--	--	--	--	--	--	22.9	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-1	10/17-18/02	--	--	--	--	--	--	--	<300 <sup>1</sup>	18.0	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-1	01/21/03	--	--	--	--	--	--	--	--	47.1	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-1	04/23-24/03	--	--	--	--	--	--	--	--	36.4	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-1	06/30-07/01/03	--	--	--	--	--	--	--	--	13.2	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-1	10/01-02/03	--	--	--	--	--	--	--	--	31.2	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-1	01/21-23/04	--	--	--	--	--	--	--	--	4.2	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-1	04/29-30/04	--	--	--	--	--	--	--	--	2.6	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-1	07/15-16/04	--	--	--	--	--	--	--	--	2.46	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-2	12/15/99	--	--	--	--	--	--	--	262	61.7	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-2	06/14/00	--	--	--	--	--	--	--	37.8	9.87	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-2	10/17-18/02	--	--	--	--	--	--	--	<300 <sup>1</sup>	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-2	04/23-24/03	--	--	--	--	--	--	--	--	1.52	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-2	06/30-07/01/03	--	--	--	--	--	--	--	--	3.97	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-2	01/21-23/04	--	--	--	--	--	--	--	--	5.3	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-2	04/29-30/04	--	--	--	--	--	--	--	--	2.1	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-4	06/13/00	--	--	--	--	--	--	--	9.12	4.66	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-4	07/24/02	--	--	--	--	--	--	--	--	28.0	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-4	04/29-30/04	--	--	--	--	--	--	--	--	4.0	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-4	07/15-16/04	--	--	--	--	--	--	--	--	8.90	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-5/MW-5	12/15/99	--	--	--	--	--	--	--	6.76	2.75	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-5/MW-5	06/13/00	--	--	--	--	--	--	--	3.75	2.66	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-5/MW-5	10/17-18/02	--	--	--	--	--	--	--	<300 <sup>1</sup>	2.29	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-5/MW-5	10/01-02/03	--	--	--	--	--	--	--	--	2.4	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-5/MW-5	01/21-23/04	--	--	--	--	--	--	--	--	1.7	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-5/MW-5	04/29-30/04	--	--	--	--	--	--	--	--	<0.99	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-5/MW-5	07/15-16/04	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-7/MW-3	03/26-28/91	92	250	13	100,000	77	180	50,000	--	74 J	66,000	8,600	0.55	7,400	--	69,000	<10	37,000	170	--	<0.010	--	--
VP-7/MW-3	07/07/93	--	--	--	--	4.0	--	--	8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-7/MW-3	10/95	--	--	--	--	--	--	--	5.6 P	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-7/MW-3	01/97	--	--	--	--	--	--	--	9.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-7/MW-3	04/97	--	--	--	--	--	--	--	3.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-7/MW-3	07/97	--	--	--	--	--	--	--	4.3 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-7/MW-3	11/97	--	--	--	--	--	--	--	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-7/MW-3	12/14/99	--	--	--	--	--	--	--	5.91	2.11	--	7.76	--	--	--	--	--	--	--	--	11.7	<0.10	13.4
VP-7/MW-3	06/14/00	--	--	--	--	--	--	--	--	2.13	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-7/MW-3	07/24/02	97.3	33.6	<0.080	--	2.2	--	--	--	25.0	--	--	<0.079	--	<1.1	--	0.068	--	--	--	--	--	--
VP-7/MW-3	10/17-18/02	--	--	--	--	--	--	--	--	2.40	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-7/MW-3	01/21/03	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-7/MW-3	10/01-02/03	--	--	--	--	--	--	--	--	1.8	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-7/MW-3	01/21-23/04	--	--	--	--	--	--	--	--	<1.2	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-7/MW-3	04/29-30/04	--	--	--	--	--	--	--	--	<0.99	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-7/MW-3	07/15-16/04	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-8/MW-7	07/07/93	--	--	--	--	3.0	--	--	8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-8/MW-7	10/95	--	--	--	--	--	--	--	3.4 P	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-8/MW-7	01/97	--	--	--	--	--	--	--	37	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-8/MW-7	04/97	--	--	--	--	--	--	--	24.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-8/MW-7	07/97	--	--	--	--	--	--	--	23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-8/MW-7	11/97	--	--	--	--	--	--	--	12.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-8/MW-7	12/15/99	--	--	--	--	--	--	--	40.6	5.02	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-8/MW-7	06/13/00	--	--	--	--	--	--	--	17.7	7.95	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-8/MW-7	07/24/02	2.1	49.6	0.13	--	0.82	--	--	--	11.4	--	--	<0.079	--	<1.1	--	<0.050	--	--	--	--	--	--
VP-8/MW-7	04/23-24/03	--	--	--	--	--	--	--	--	3.73	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-8/MW-7	06/30-07/01/03	--	--	--	--	--	--	--	--	2.06	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-8/MW-7	10/01-02/03	--	--	--	--	--	--	--	--	2.4	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-8/MW-7	01/21-23/04	--	--	--	--	--	--	--	--	3.2	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-8/MW-7	04/29-30/04	--	--	--	--	--	--	--	--	<0.99	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-8/MW-7	07/15-16/04	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-9	12/15/99	--	--	--	--	--	--	--	5.72	<1.00	--	420	--	--	--	--	--	--	--	9,400	9,200	34,000	--

**Table 4-11**  
**Dissolved Metals and Inorganic Compounds**  
Former Texaco Service Station / Chevron Site No. 211577  
631 Queen Anne Avenue North  
Seattle, Washington

Well Identification	Sample Date	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Calcium (ppb)	Chromium (ppb)	Copper (ppb)	Iron (ppb)	Lead (total) (ppb)	Lead (dissolved) (ppb)	Magnesium (ppb)	Manganese (ppb)	Mercury (ppb)	Potassium (ppb)	Selenium (ppb)	Silicon (ppb)	Silver (ppb)	Sodium (ppb)	Zinc (ppb)	Ferrous Iron (mg/L)	Nitrate-Nitrogen (mg/L)	Sulfate (mg/L)	Comments
VP-9	06/14/00	--	--	--	--	--	--	--	15.2	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-9	10/17-18/02	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-9	04/23-24/03	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-9	06/30-07/01/03	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-9	04/29-30/04	--	--	--	--	--	--	--	--	<0.99	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-9	07/15-16/04	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	10/95	--	--	--	--	--	--	--	30.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	01/97	--	--	--	--	--	--	--	36.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	04/97	--	--	--	--	--	--	--	20.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	07/97	--	--	--	--	--	--	--	19.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	11/97	--	--	--	--	--	--	--	16.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	12/15/99	--	--	--	--	--	--	--	19.8	9.86	--	10.5	--	--	--	--	--	--	--	6.15	<0.10	<0.20	--
MW-4	06/14/00	--	--	--	--	--	--	--	21.4	9.72	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	07/24/02	31.0	63.8	<0.080	--	<0.28	--	--	--	15.5	--	--	<0.079	--	<1.1	--	<0.050	--	--	--	--	--	--
MW-4	10/17-18/02	--	--	--	--	--	--	--	<300 <sup>1</sup>	10.7	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	10/17-18/02	--	--	--	--	--	--	--	--	9.61	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	01/21/03	--	--	--	--	--	--	--	--	14.5	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	04/23-24/03	--	--	--	--	--	--	--	--	5.74	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	06/30-07/01/03	--	--	--	--	--	--	--	--	7.85	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	10/01-02/03	--	--	--	--	--	--	--	--	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	01/21-23/04	--	--	--	--	--	--	--	--	6.7	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	04/29-30/04	--	--	--	--	--	--	--	--	14.3	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	07/15-16/04	--	--	--	--	--	--	--	--	9.06	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	10/95	--	--	--	--	--	--	--	--	33.3	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	01/97	--	--	--	--	--	--	--	--	61.9	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	07/24/02	--	--	--	--	--	--	--	--	5.1	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	07/15-16/04	--	--	--	--	--	--	--	--	1.69	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	10/95	--	--	--	--	--	--	--	4.6 P	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	04/97	--	--	--	--	--	--	--	6.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	07/97	--	--	--	--	--	--	--	8.6 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	11/97	--	--	--	--	--	--	--	3.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	12/15/99	--	--	--	--	--	--	--	15.0	1.03	--	10.5	--	--	--	--	--	--	--	6.15	--	--	--
MW-9	06/14/00	--	--	--	--	--	--	--	7.86	1.59	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	10/17-18/02	--	--	--	--	--	--	--	--	2.66	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	04/23-24/03	--	--	--	--	--	--	--	--	1.31	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	10/01-02/03	--	--	--	--	--	--	--	--	3.9	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	01/21-23/04	--	--	--	--	--	--	--	--	5.5	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	04/29-30/04	--	--	--	--	--	--	--	--	4.8	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-9	07/15-16/04	--	--	--	--	--	--	--	--	2.54	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	03/26-28/91	21	98	<5.0	120,000	17	16	15,000	--	12 J	46,000	3,200	<0.20	6,400	--	23,000	<10	63,000	80	--	0.243	--	Duplicate sample
MW-10	03/26-28/91	<5.0	88	<5.0	120,000	<10	13	10,000	--	<5	44,000	3,400	<0.20	6,400	--	22,000	<10	65,000	72	--	0.243	--	Duplicate sample
MW-10	07/07/93	--	--	--	--	<1.0	--	--	8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	10/95	--	--	--	--	--	--	--	<1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	04/97	--	--	--	--	--	--	--	<1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	07/97	--	--	--	--	--	--	--	1.2 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	11/97	--	--	--	--	--	--	--	4.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	12/15/99	--	--	--	--	--	--	--	<1.00	<1.00	--	5.12	--	--	--	--	--	--	--	<2.00	0.72	70.6	--
MW-10	06/14/00	--	--	--	--	--	--	--	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	07/24/02	4.1	52.1	0.17	--	0.38	--	--	--	1.3	--	--	<0.079	--	<1.1	--	<0.050	--	--	--	--	--	--
MW-10	10/17-18/02	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	01/21/03	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	04/23-24/03	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	06/30-07/01/03	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	10/01-02/03	--	--	--	--	--	--	--	--	<1.2	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	01/21-23/04	--	--	--	--	--	--	--	--	<1.2	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	04/29-30/04	--	--	--	--	--	--	--	--	<0.99	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-10	07/15-16/04	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11	03/26-28/91	--	--	--	--	--	--	--	--	11 J	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11	07/24/02	--	--	--	--	--	--	--	--	<1.2	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11	10/17-18/02	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11	01/21/03	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--

**Table 4-11**  
**Dissolved Metals and Inorganic Compounds**  
Former Texaco Service Station / Chevron Site No. 211577  
631 Queen Anne Avenue North  
Seattle, Washington

Well Identification	Sample Date	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Calcium (ppb)	Chromium (ppb)	Copper (ppb)	Iron (ppb)	Lead (total) (ppb)	Lead (dissolved) (ppb)	Magnesium (ppb)	Manganese (ppb)	Mercury (ppb)	Potassium (ppb)	Selenium (ppb)	Silicon (ppb)	Silver (ppb)	Sodium (ppb)	Zinc (ppb)	Ferrous Iron (mg/L)	Nitrate-Nitrogen (mg/L)	Sulfate (mg/L)	Comments		
MW-11	04/23-24/03	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-11	06/30-07/01/03	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11	10/01-02/03	--	--	--	--	--	--	--	--	<1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11	01/21-23/04	--	--	--	--	--	--	--	--	<1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11	04/29-30/04	--	--	--	--	--	--	--	--	<0.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11	07/15-16/04	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-12	01/21/03	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-12	04/23-24/03	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-12	06/30-07/01/03	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-12	10/01-02/03	--	--	--	--	--	--	--	--	<1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-12	01/21-23/04	--	--	--	--	--	--	--	--	<1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-12	04/29-30/04	--	--	--	--	--	--	--	--	<0.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-12	07/15-16/04	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-14	11/14/02	17.0	18.4	<1.00	--	<1.00	--	--	--	1.82	--	--	<1.00	--	1.48	--	<1.00	--	--	--	--	--	--	--	--
MW-14	04/29-30/04	--	--	--	--	--	--	--	--	<0.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-14	07/15-16/04	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-15	11/14/02	1.33	<10.0	<1.00	--	<1.00	--	--	--	1.04	--	--	<1.00	--	<1.00	--	<1.00	--	--	--	--	--	--	--	--
MW-15	01/21/03	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-15	10/01-02/03	--	--	--	--	--	--	--	--	<1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-15	01/21-23/04	--	--	--	--	--	--	--	--	<1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-15	04/29-30/04	--	--	--	--	--	--	--	--	<0.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16	11/14/02	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16	01/21/03	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16	07/15-16/04	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-17	11/14/02	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-17	01/21/03	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-17	10/01-02/03	--	--	--	--	--	--	--	--	<1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-17	01/21-23/04	--	--	--	--	--	--	--	--	<1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-17	07/15-16/04	--	--	--	--	--	--	--	--	23.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-18	04/29-30/04	--	--	--	--	--	--	--	--	<0.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-19	04/29-30/04	--	--	--	--	--	--	--	--	<0.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW-2	01/97	--	--	--	--	--	--	--	--	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW-2	04/97	--	--	--	--	--	--	--	--	18.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW-2	07/97	--	--	--	--	--	--	--	--	47.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW-2	11/97	--	--	--	--	--	--	--	--	15.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW-2	10/17-18/02	--	--	--	--	--	--	--	--	2.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW-2	01/21/03	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW-2	04/23-24/03	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW-2	06/30-07/01/03	--	--	--	--	--	--	--	--	1.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW-2	10/01-02/03	--	--	--	--	--	--	--	--	4.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW-2	01/21-23/04	--	--	--	--	--	--	--	--	<1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW-2	04/29-30/04	--	--	--	--	--	--	--	--	<0.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW-2	07/15-16/04	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW-3	01/21-23/04	--	--	--	--	--	--	--	--	12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW-3	04/29-30/04	--	--	--	--	--	--	--	--	10.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW-3	07/15-16/04	--	--	--	--	--	--	--	--	2.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW-4	07/07/93	--	--	--	--	4.0	--	--	45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW-4	07/24/02	6.1	66.9	<0.080	--	1.2	--	--	--	3.3	--	--	<0.079	--	<1.1	--	<0.050	--	--	--	--	--	--	--	--
RW-4	10/17-18/02	--	--	--	--	--	--	--	--	1.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW-4	01/21/03	--	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW-5	10/17-18/02	--	--	--	--	--	--	--	--	3.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW-5	01/21/03	--	--	--	--	--	--	--	--	13.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW-5	04/23-24/03	--	--	--	--	--	--	--	--	7.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW-5	06/30-07/01/03	--	--	--	--	--	--	--	--	19.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW-5	01/21-23/04	--	--	--	--	--	--	--	--	1.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**Table 4-11**  
**Dissolved Metals and Inorganic Compounds**  
 Former Texaco Service Station / Chevron Site No. 211577  
 631 Queen Anne Avenue North  
 Seattle, Washington

Well Identification	Sample Date	Arsenic (ppb)	Barium (ppb)	Cadmium (ppb)	Calcium (ppb)	Chromium (ppb)	Copper (ppb)	Iron (ppb)	Lead (total) (ppb)	Lead (dissolved) (ppb)	Magnesium (ppb)	Manganese (ppb)	Mercury (ppb)	Potassium (ppb)	Selenium (ppb)	Silicon (ppb)	Silver (ppb)	Sodium (ppb)	Zinc (ppb)	Ferrous Iron (mg/L)	Nitrate-Nitrogen (mg/L)	Sulfate (mg/L)	Comments	
MTCA Method A Cleanup Levels:		5	NA	5	NA	50	NA	NA	15	15	NA	NA	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Notes:

All analytes analyzed by U.S. Environmental Protection Agency (EPA) 6000/7000 Series Methods.

(ppb) = Parts per billion

(mg/L) = milligrams per liter

-- = Sample not analyzed.

J = Analyte was positively identified. The associated numerical result is an estimate.

P = The analyte was detected above the instrument detection limit but below the established minimum quantitation limit.

< = Analyte not detected at or above the laboratory reporting limit. Number represents reporting limit

ND = Not detected and reporting limit not available.

<sup>1</sup> = Organic lead by Method DHS LUFT

NA = Not applicable

MTCA = Model Toxics Control Act Cleanup Regulations [WAC 173-340-720(2)(a)(I), as amended 02/01].

Bold results exceed MTCA Method A Cleanup Levels.

**Table 4-3**  
**Soil Analytical Results - Total Metals**  
Former Texaco Service Station / Chevron Site No. 211577  
631 Queen Anne Avenue North  
Seattle, Washington

Boring/Well Identification	Sample Identification <sup>1</sup>	Sample Date	Silver (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Mercury (mg/kg)	Selenium (mg/kg)	Lead (mg/kg)
DVP-1 <sup>2</sup>	DVP-1-1	9/12/02	<0.658	3.72	88.6	<0.658	41.1	<0.2	<0.658	6.00
DVP-2 <sup>2</sup>	DVP-2-1	9/12/02	<0.5	2.28	81.6	<0.5	37.5	<0.2	<0.5	2.91
	DVP-2-6	9/12/02	<0.694	2.46	46.1	<0.694	27.1	<0.2	<0.694	5.04
	DVP-4-6 <sup>2</sup>	9/12/02	<0.5	2.45	47.8	<0.5	31.6	<0.2	<0.5	4.35
DP-1	DP-1-16	9/18/02	<0.5	2.33	57.1	<0.5	30.5	<0.2	<0.5	1.92
DP-2	DP-2-14	9/18/02	<0.5	3.58	83.9	<0.5	36.2	<0.2	<0.5	2.39
	DP-2-20	9/20/02	--	--	--	--	--	--	--	1.85
DP-3	DP-3-12	9/20/02	<0.5	2.66	79.0	0.572	29.5	<0.2	<0.5	4.15
DP-4	DP-4-18	9/20/02	--	--	--	--	--	--	--	3.36
	DP-4-20	9/20/02	<0.5	1.69	29.0	<0.5	12.0	<0.2	<0.5	1.78
DP-5	DP-5-14	9/20/02	--	--	--	--	--	--	--	3.53
DP-6	DP-6-14	9/20/02	--	--	--	--	--	--	--	5.13
	DP-6-22	9/20/02	<0.5	1.65	60.4	0.873	22.6	<0.2	<0.5	4.74
DP-7	DP-7-10	9/20/02	--	--	--	--	--	--	--	5.40
	DP-7-20	9/20/02	<0.5	2.14	74.9	<0.5	29.6	<0.2	<0.5	9.48
DB-2	DB-2-14	9/24/02	<0.5	4.53	80.2	<0.5	48.6	<0.2	0.935	2.61
	DB-2-16.5	9/24/02	--	--	--	--	--	--	--	2.56
DB-3	DB-3-11	9/26/02	<0.5	2.27	49.6	<0.5	29.2	<0.2	<0.5	6.89
	DB-3-31.5	9/26/02	--	--	--	--	--	--	--	6.46
DB-4	DB-4-11.5	9/25/02	<0.5	3.18	82.1	<0.5	33.1	<0.2	<0.5	3.78
	DB-4-21.5	9/25/02	--	--	--	--	--	--	--	2.00
DB-5	DB-5-13	9/23/02	<0.5	1.73	49.9	<0.5	30.4	<0.2	<0.5	8.72
	DB-5-24	9/23/02	--	--	--	--	--	--	--	1.29
DB-6/MW-14	DB-6-16.5	9/25/02	<0.5	1.87	52.0	<0.5	25.7	<0.2	<0.5	2.44
	DB-6-26.5	9/25/02	--	--	--	--	--	--	--	3.32
DB-7	DB-7-11.5	9/24/02	<0.5	3.18	58.4	<0.5	25.8	<0.2	<0.5	2.04
	DB-7-33.5	9/24/02	--	--	--	--	--	--	--	10.5
DB-8/MW-15	DB-8-16.5	9/25/02	<0.5	1.19	33.6	<0.5	22.8	<0.2	<0.5	1.62
DB-9/MW-16	DB-9-16	9/24/02	--	--	--	--	--	--	--	1.82
DB-10/MW-17	DB-10-11	9/23/02	--	--	--	--	--	--	--	3.41

**Table 4-3**  
**Soil Analytical Results - Total Metals**  
Former Texaco Service Station / Chevron Site No. 211577  
631 Queen Anne Avenue North  
Seattle, Washington

Boring/Well Identification	Sample Identification <sup>1</sup>	Sample Date	Silver (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Mercury (mg/kg)	Selenium (mg/kg)	Lead (mg/kg)
SB-32/MW-32	SB-32-10	7/5/05	--	--	--	--	--	--	--	17.6
MW-35	MW-35-27	11/22/05	--	--	--	--	--	--	--	1.54
MTCA Method A Cleanup Levels:			NA	<b>20</b>	NA	<b>2</b>	<b>19</b>	<b>2</b>	NA	<b>250</b>
MTCA Method B Cleanup Levels:			NA	<b>24</b>	NA	<b>80</b>	<b>240/120,000</b>	<b>24</b>	NA	NA

Notes:

All analytes analyzed by U.S. Environmental Protection Agency (EPA) 6000/7000 Series Methods.

<sup>1</sup> = The last number in the sample identification is depth below ground surface (bgs) in feet for the top of the sample.

<sup>2</sup> = DVP-1 and DVP-2 samples were collected in the Monterey Apartments basement at 1 foot below the top of the basement slab. The top of the slab is approximately 9 feet bgs.

<sup>3</sup> = Laboratory duplicate

mg/kg = milligrams per kilogram

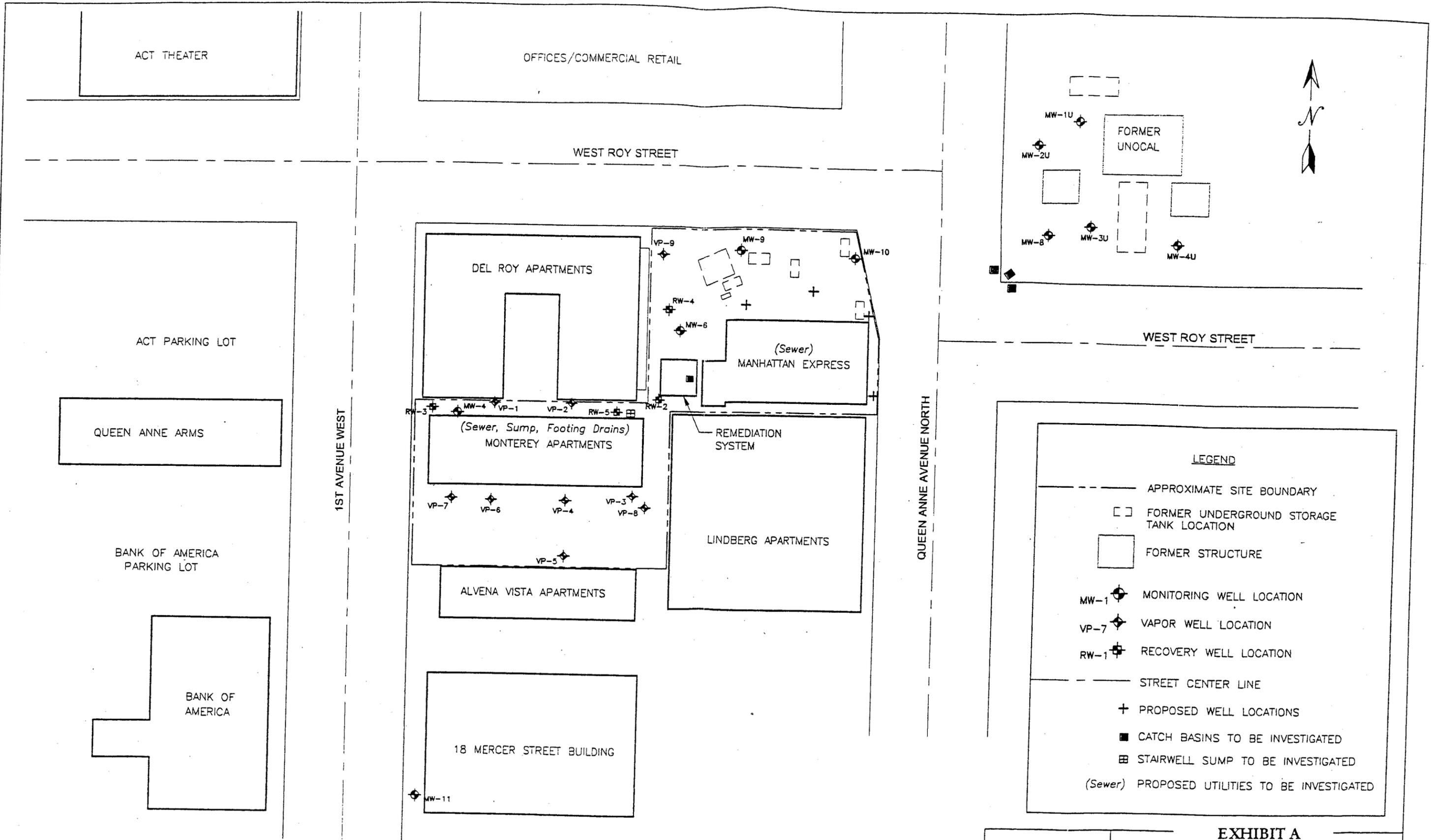
< = Analyte not detected at or above the laboratory reporting limit. Number represents the reporting limit.

-- = Sample not analyzed.

Bold results are between Washington Department of Ecology (WDOE) Model Toxics Control Act (MTCA) Method A Cleanup Levels and MTCA Method B Cleanup Levels.

Bold and italicized results exceed MTCA Method B Cleanup Levels.





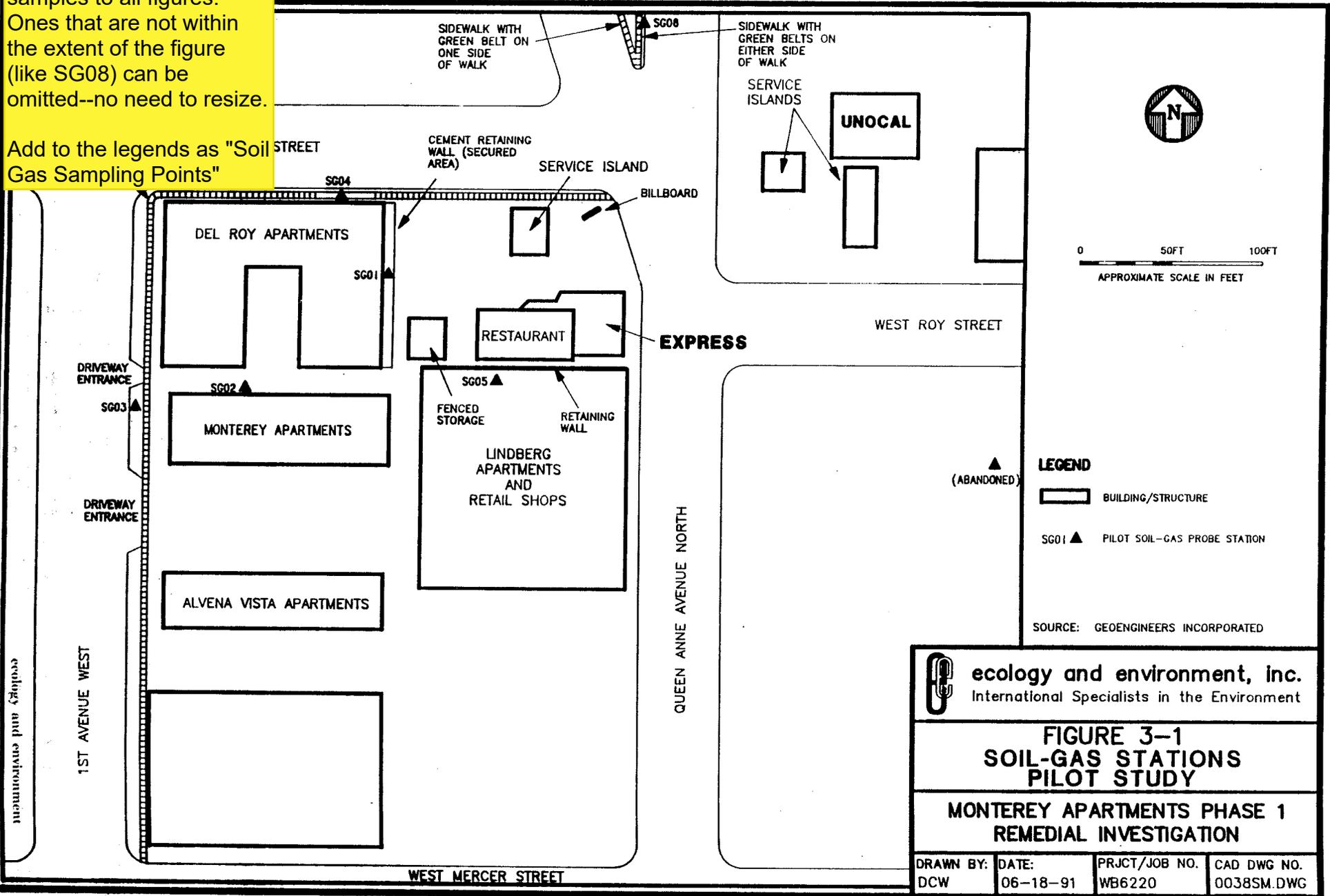
BASE MAP REFERENCE: City of Seattle Department of Engineering  
 SE 1/4 & NE 1/4 Section 25-TS. 25 N., R 3 E., W.M.  
 Revised 9/90

**FARALLON CONSULTING**  
 320 3rd Avenue NE Suite 200

**EXHIBIT A**  
 SITE MAP SHOWING PROPOSED WELL  
 LOCATIONS AND UTILITIES TO BE EXPLORED  
 QUEEN ANNE TEXACO  
 631 QUEEN ANNE AVE. NORTH  
 SEATTLE, WASHINGTON

Please add these soil gas samples to all figures. Ones that are not within the extent of the figure (like SG08) can be omitted--no need to resize.

Add to the legends as "Soil Gas Sampling Points"



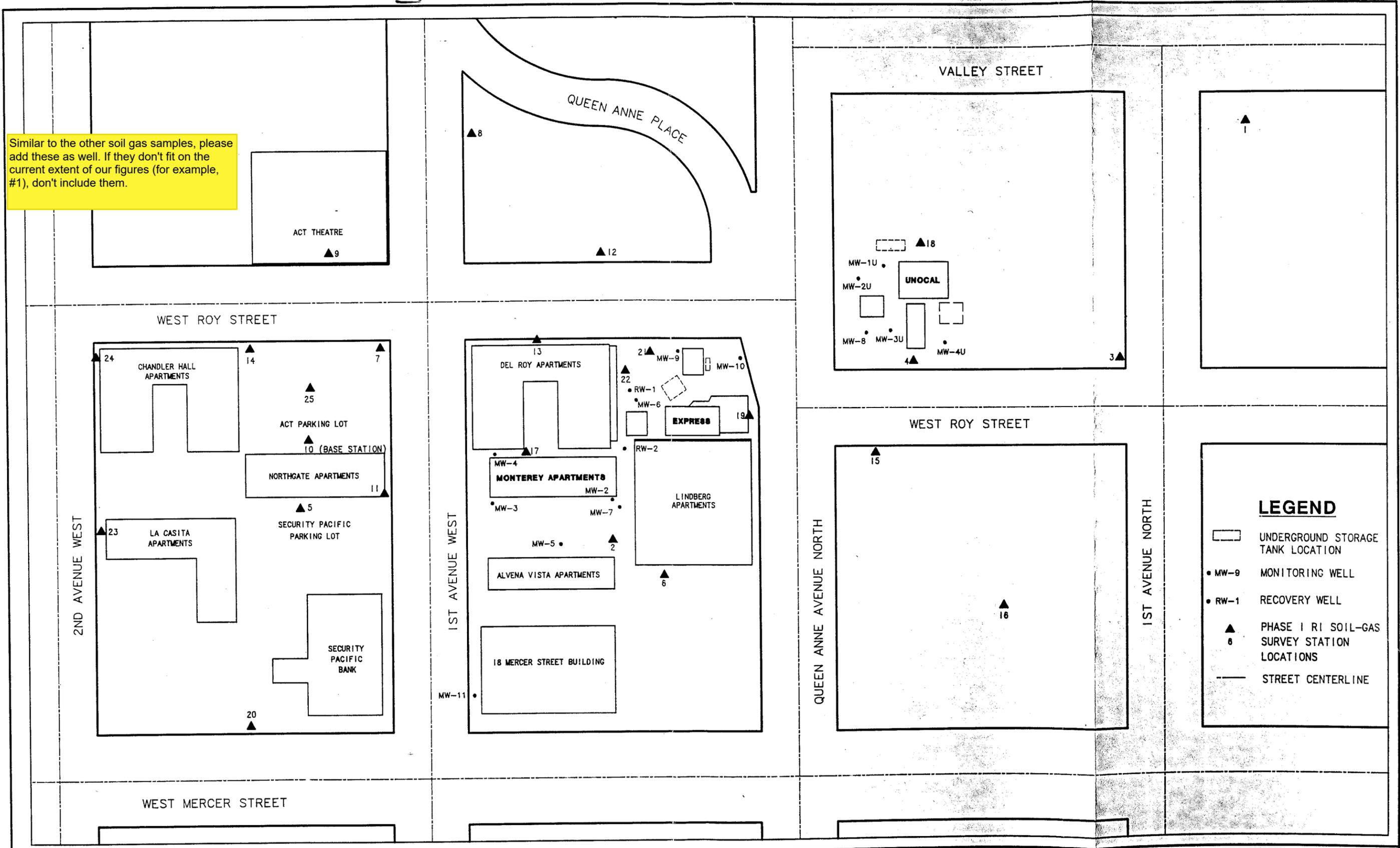
**ecology and environment, inc.**  
International Specialists in the Environment

**FIGURE 3-1  
SOIL-GAS STATIONS  
PILOT STUDY**

**MONTEREY APARTMENTS PHASE 1  
REMEDIAL INVESTIGATION**

<b>DRAWN BY:</b> DCW	<b>DATE:</b> 06-18-91	<b>PRJCT/JOB NO.:</b> WB6220	<b>CAD DWG NO.:</b> 0038SM.DWG
-------------------------	--------------------------	---------------------------------	-----------------------------------

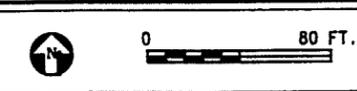
Similar to the other soil gas samples, please add these as well. If they don't fit on the current extent of our figures (for example, #1), don't include them.



**LEGEND**

- UNDERGROUND STORAGE TANK LOCATION
- MW-9 MONITORING WELL
- RW-1 RECOVERY WELL
- PHASE I RI SOIL-GAS SURVEY STATION LOCATIONS
- STREET CENTERLINE

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Seattle, Washington



BASE MAP REFERENCE:  
City of Seattle Department of Engineering  
SE 1/4 & NE 1/4 Section 25 - TS. 25 N., R 3 E., W.M.  
Revised 9/90 - Scale 1"=100'

Monterey Apartments  
Seattle, Washington  
DRAWN BY: DCW    DATE: 07-15-91    PRJCT/JOB NO. W6220    CAD DWG NO. 03509M.DWG

**FIGURE 3-2**  
**PHASE 1 RI SOIL-GAS SURVEY STATION LOCATIONS**

# CONTRACT DRAWINGS FOR: CONSTRUCTION OF REMEDIAL TREATMENT SYSTEM MONTEREY APARTMENTS SEATTLE, WASHINGTON

342-5389



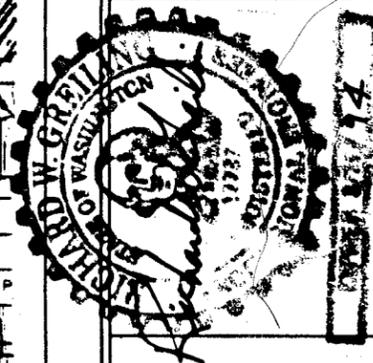
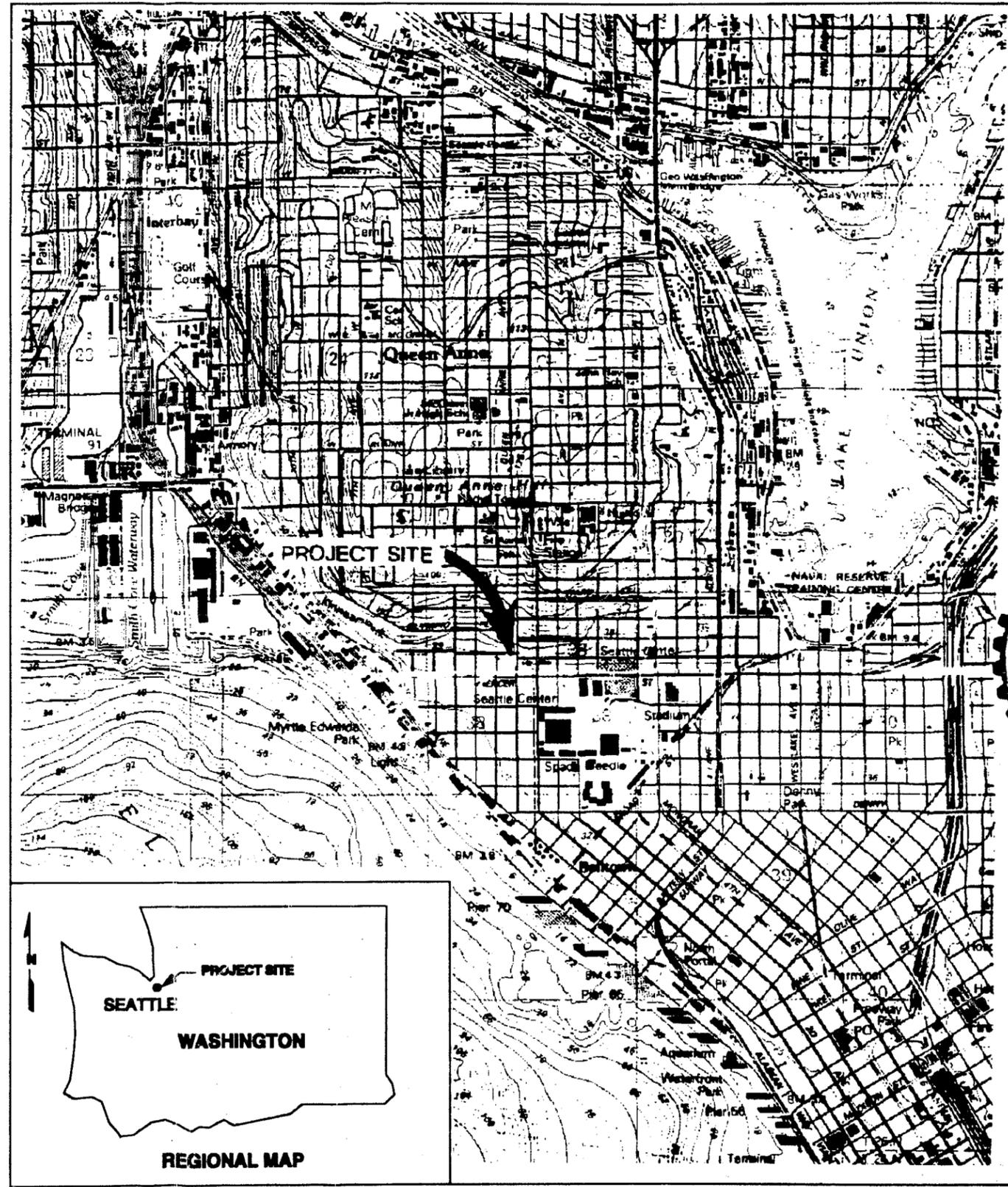
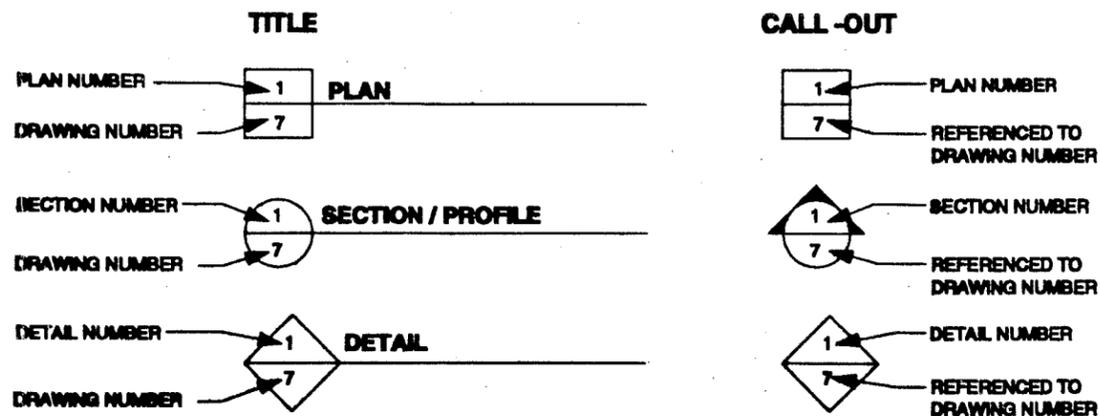
Prepared for:  
**WASHINGTON STATE  
DEPARTMENT OF  
ECOLOGY**

CONTRACT NO.: ..... C0089066  
WORK ASSIGNMENT: ..... 60  
SAIC PROJECT NO.: ..... 01-0817-03-1805



DRAWING SCHEDULE	
DRAWING NO.	TITLE
1 of 10	DRAWING SCHEDULE, REGIONAL MAP, & SITE LOCATION MAP
2 of 10	DEMOLITION PLAN
3 of 10	RECOVERY SYSTEM CONSTRUCTION PLAN
4 of 10	REMEDIATION SYSTEM EQUIPMENT LAYOUT PLAN
5 of 10	HORIZONTAL VAPOR EXTRACTION SYSTEM PLAN & PROFILE
6 of 10	RECOVERY WELL & VAPOR PORT DETAILS
7 of 10	DISCHARGE LINE PROFILES
8 of 10	PROCESS SCHEMATICS
9 of 10	SECTIONS & DETAILS
10 of 10	SECTIONS

## PLAN, SECTION AND DETAIL LEGEND



DRAWING SCHEDULE,  
REGIONAL MAP & SITE  
LOCATION MAP

MONTEREY APARTMENTS  
SEATTLE, WASHINGTON

DATE: NOVEMBER 10, 1992  
DRAWING NUMBER: 1 of 10

**SAIC**  
An Employee-Owned Company

**DPRA**  
PROJECT NUMBER: 8781.878

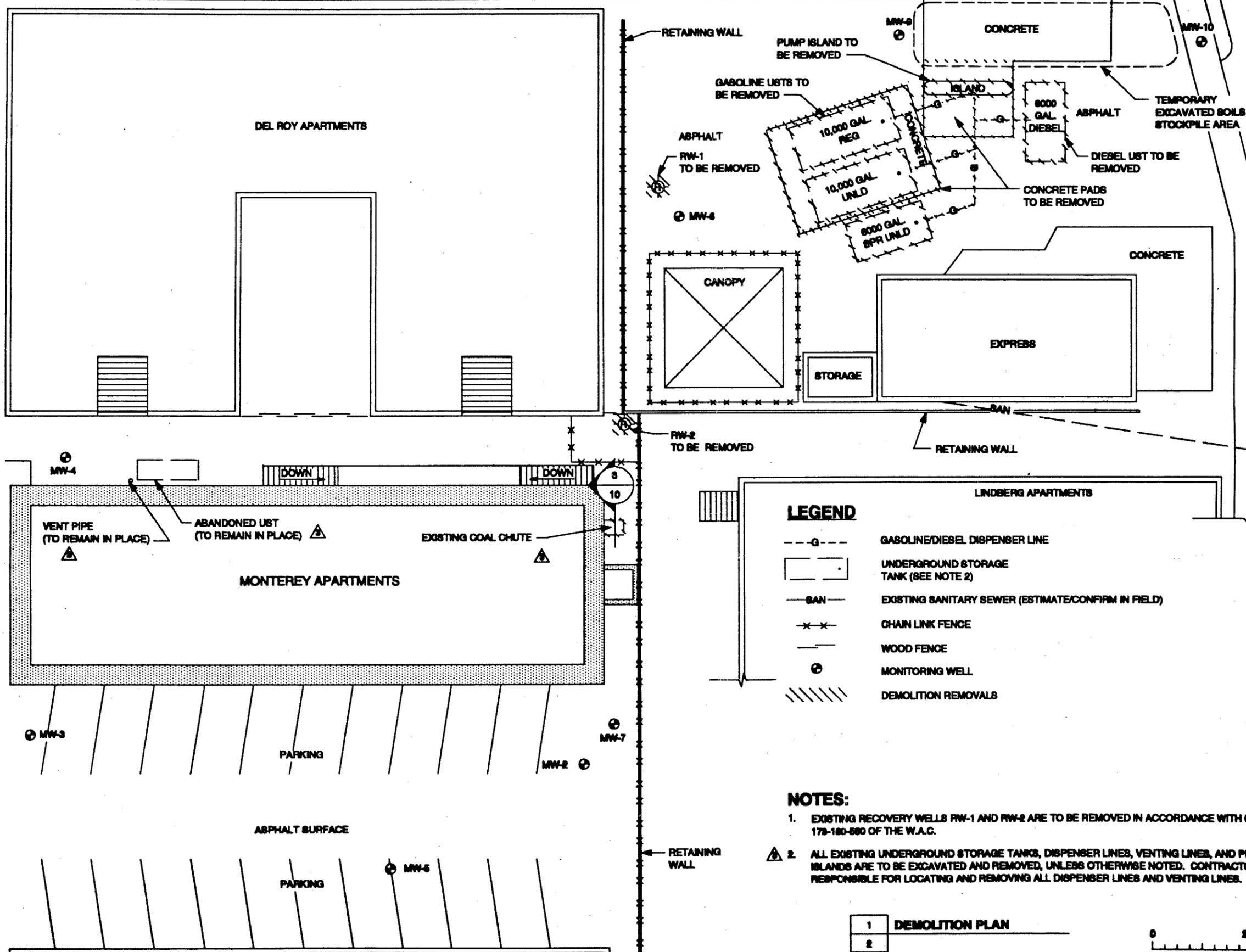
REV. NO.	REVISION DESCRIPTION	DRAWN BY	CHECKED BY	DATE
1	ORIGINAL DRAWINGS	DLH	MSJ	
2	EDITS	FWB	DLH	

WEST ROY STREET

1ST AVENUE WEST

QUEEN ANNE AVENUE NORTH

71704



**LEGEND**

- g- GASOLINE/DIESEL DISPENSER LINE
- UNDERGROUND STORAGE TANK (SEE NOTE 2)
- SAN- EXISTING SANITARY SEWER (ESTIMATE/CONFIRM IN FIELD)
- x x CHAIN LINK FENCE
- WOOD FENCE
- ⊕ MONITORING WELL
- DEMOLITION REMOVALS

**NOTES:**

1. EXISTING RECOVERY WELLS RW-1 AND RW-2 ARE TO BE REMOVED IN ACCORDANCE WITH CHAPTER 17B-180-590 OF THE W.A.C.
2. ALL EXISTING UNDERGROUND STORAGE TANKS, DISPENSER LINES, VENTING LINES, AND PUMP ISLANDS ARE TO BE EXCAVATED AND REMOVED, UNLESS OTHERWISE NOTED. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND REMOVING ALL DISPENSER LINES AND VENTING LINES.

1	DEMOLITION PLAN
2	



DEMOLITION PLAN

MONTEREY APARTMENTS  
SEATTLE, WASHINGTON

DATE: MARCH 6, 1998  
 DRAWING NUMBER: 2 of 10  
**SAC**  
 An Employee-Owned Company  
**DPRA**  
 PROJECT NUMBER: 8751.013

REV. NO.	DESCRIPTION	DATE	CHECKED BY	DATE
1	ORIGINAL DRAWINGS			
2	EDITS			
3	ASSIGNED LIT. COAL CHUTE			

WEST ROY STREET

18T AVENUE WEST

QUEEN ANNE AVENUE NORTH

DEL ROY APARTMENTS

REMEDATION SYSTEM EQUIPMENT LAYOUT (UNDER CANOPY), SEE PLAN

RETAINING WALL

1 HORIZONTAL EXTRACTION SCREENS, SEE PLAN

CONCRETE

MW-10

ASPHALT

ASPHALT

RW-4

MW-8

CANOPY

CONCRETE

EXPRESS

STORAGE

SAN

RETAINING WALL

RW-8

VP-1

VP-2

RW-5

MW-4

DOWN

DOWN

SYSTEM DISCHARGE LINE ALIGNMENT TO AVOID ABANDONED UST

MONTEREY APARTMENTS

LINDBERG APARTMENTS

LEGEND

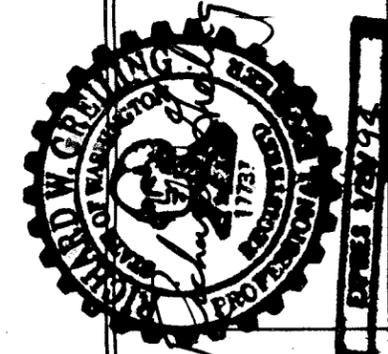
NEW CONSTRUCTION

- LIMITS OF CONSTRUCTION
- RECOVERY WELL, SEE DETAIL
- R- GROUNDWATER RECOVERY PIPING, SEE DRAWING NUMBER 7 of 10.
- VAPOR EXTRACTION PORT, SEE DETAIL
- ⊠ VAPOR EXTRACTION PIPING CONNECTION TO EXIST. MONITORING WELL, SEE DETAIL
- V- VAPOR EXTRACTION PIPING, SEE PROFILE
- +++V+++ VAPOR EXTRACTION SCREEN
- △-SD- SYSTEM DISCHARGE PIPING, SEE PROFILE

NOTES:

1. NOTIFY LOCAL UTILITY OPERATORS TO LOCATE ALL UTILITIES BEFORE STARTING ANY SUBSURFACE CONSTRUCTION.
2. ALL FENCE DISTURBED DURING CONSTRUCTION IS TO BE REPLACED.
3. CONTRACTOR SHOULD PROVIDE VAPOR EXTRACTION SYSTEM FOR DIESEL TANK PIT, SHOWN ON ALL DRAWINGS IN GREEN, AS A SEPARATE BID ITEM. (OPTIONAL CONSTRUCTION ITEM)

1 RECOVERY SYSTEM PLAN



RECOVERY SYSTEM CONSTRUCTION PLAN

MONTEREY APARTMENTS SEATTLE, WASHINGTON

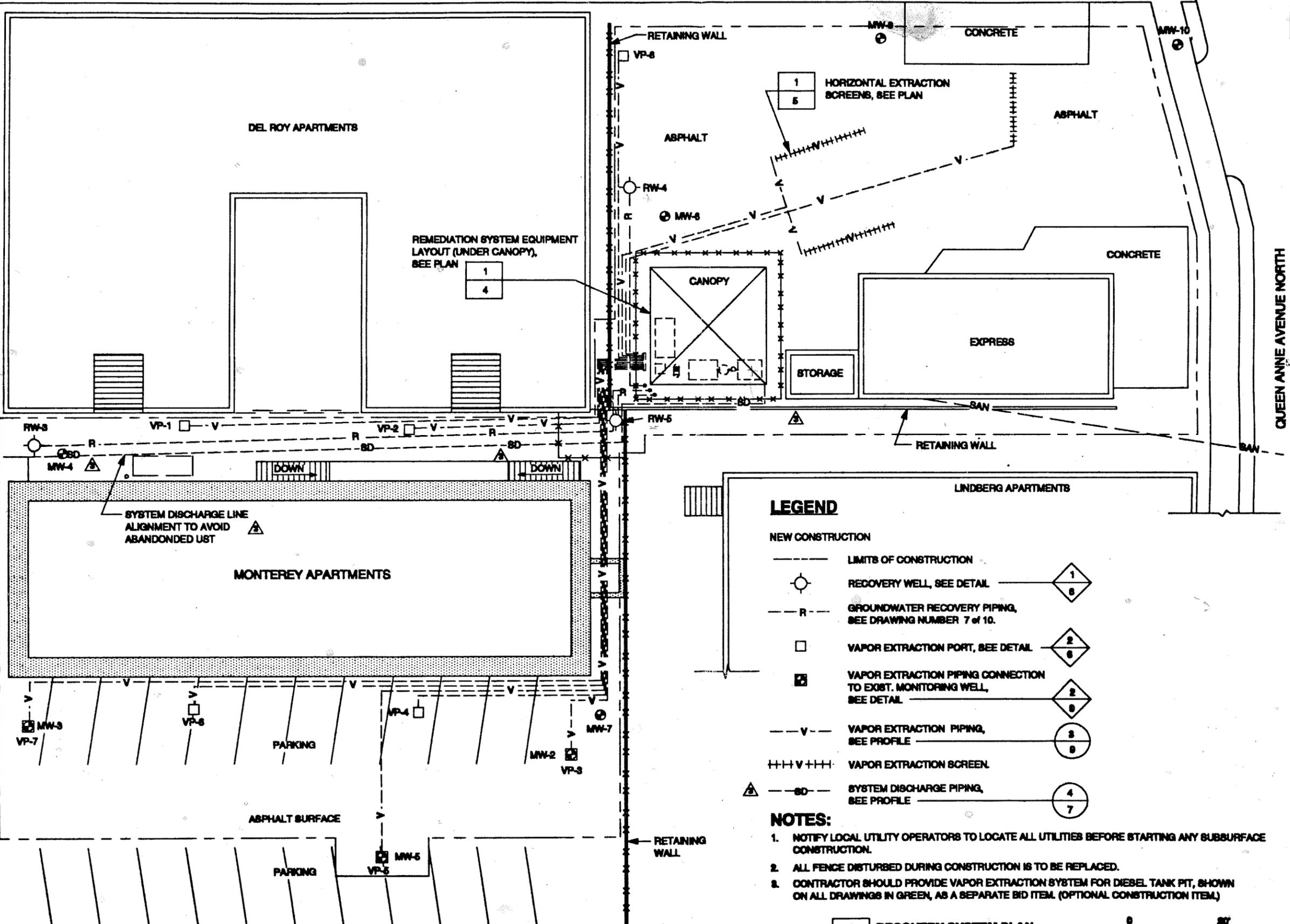
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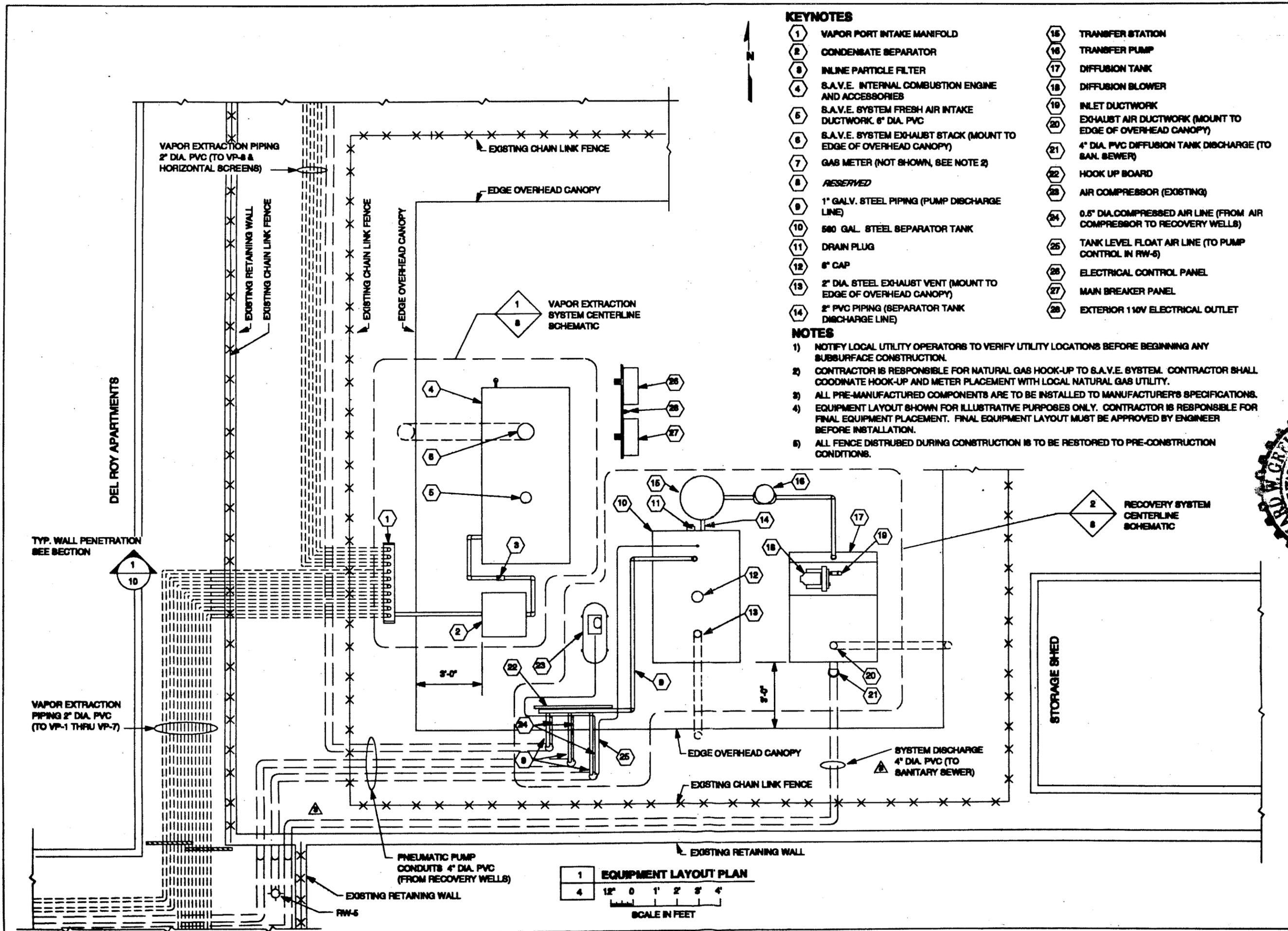
DRAWING NUMBER: 8 of 10



DPRA PROJECT NUMBER: 8751.018

NO.	DATE	BY	CHECKED BY	DATE
1	03/05/98	DLH	DLH	
2	03/05/98	RWB	DLH	
3	03/05/98	DLH	DLH	





**KEYNOTES**

- 1 VAPOR PORT INTAKE MANIFOLD
- 2 CONDENSATE SEPARATOR
- 3 INLINE PARTICLE FILTER
- 4 S.A.V.E. INTERNAL COMBUSTION ENGINE AND ACCESSORIES
- 5 S.A.V.E. SYSTEM FRESH AIR INTAKE DUCTWORK, 6" DIA. PVC
- 6 S.A.V.E. SYSTEM EXHAUST STACK (MOUNT TO EDGE OF OVERHEAD CANOPY)
- 7 GAS METER (NOT SHOWN, SEE NOTE 2)
- 8 RESERVED
- 9 1" GALV. STEEL PIPING (PUMP DISCHARGE LINE)
- 10 580 GAL. STEEL SEPARATOR TANK
- 11 DRAIN PLUG
- 12 6" CAP
- 13 2" DIA. STEEL EXHAUST VENT (MOUNT TO EDGE OF OVERHEAD CANOPY)
- 14 2" PVC PIPING (SEPARATOR TANK DISCHARGE LINE)
- 15 TRANSFER STATION
- 16 TRANSFER PUMP
- 17 DIFFUSION TANK
- 18 DIFFUSION BLOWER
- 19 INLET DUCTWORK
- 20 EXHAUST AIR DUCTWORK (MOUNT TO EDGE OF OVERHEAD CANOPY)
- 21 4" DIA. PVC DIFFUSION TANK DISCHARGE (TO SAN. SEWER)
- 22 HOOK UP BOARD
- 23 AIR COMPRESSOR (EXISTING)
- 24 0.5" DIA. COMPRESSED AIR LINE (FROM AIR COMPRESSOR TO RECOVERY WELLS)
- 25 TANK LEVEL FLOAT AIR LINE (TO PUMP CONTROL IN RW-5)
- 26 ELECTRICAL CONTROL PANEL
- 27 MAIN BREAKER PANEL
- 28 EXTERIOR 110V ELECTRICAL OUTLET

**NOTES**

- 1) NOTIFY LOCAL UTILITY OPERATORS TO VERIFY UTILITY LOCATIONS BEFORE BEGINNING ANY SUBSURFACE CONSTRUCTION.
- 2) CONTRACTOR IS RESPONSIBLE FOR NATURAL GAS HOOK-UP TO S.A.V.E. SYSTEM. CONTRACTOR SHALL COORDINATE HOOK-UP AND METER PLACEMENT WITH LOCAL NATURAL GAS UTILITY.
- 3) ALL PRE-MANUFACTURED COMPONENTS ARE TO BE INSTALLED TO MANUFACTURER'S SPECIFICATIONS.
- 4) EQUIPMENT LAYOUT SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR FINAL EQUIPMENT PLACEMENT. FINAL EQUIPMENT LAYOUT MUST BE APPROVED BY ENGINEER BEFORE INSTALLATION.
- 5) ALL FENCE DISTURBED DURING CONSTRUCTION IS TO BE RESTORED TO PRE-CONSTRUCTION CONDITIONS.

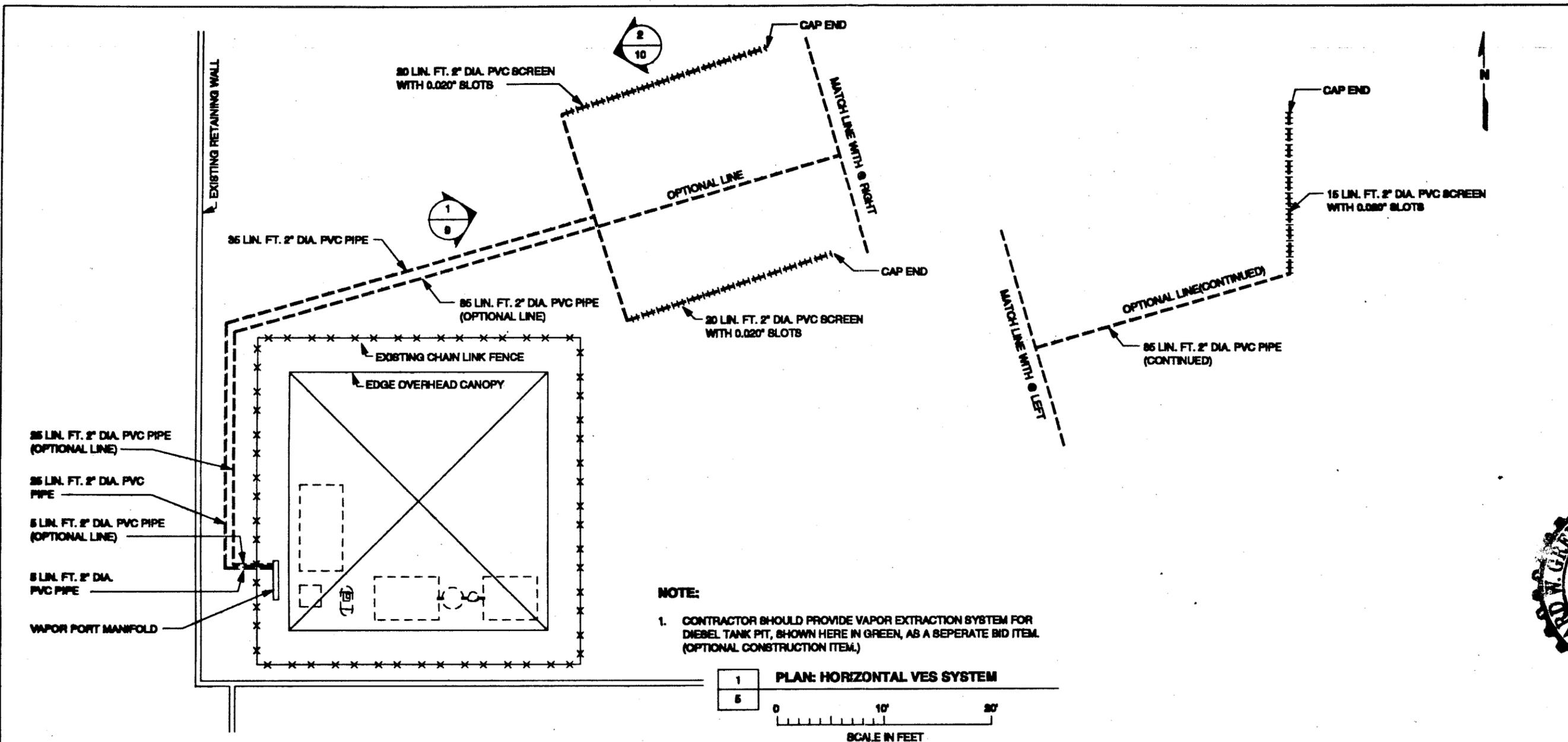
1 EQUIPMENT LAYOUT PLAN  
 4 12" 0' 1' 2' 3' 4'  
 SCALE IN FEET



REMEDATION SYSTEM  
 EQUIPMENT LAYOUT PLAN  
 MONTEREY APARTMENTS  
 SEATTLE, WASHINGTON

DATE:	MARCH 5, 1988
DRAWING NUMBER:	4 of 10
<b>SAE</b> An Employee-Owned Company	
<b>DPRA</b> PROJECT NUMBER: 8751.018	

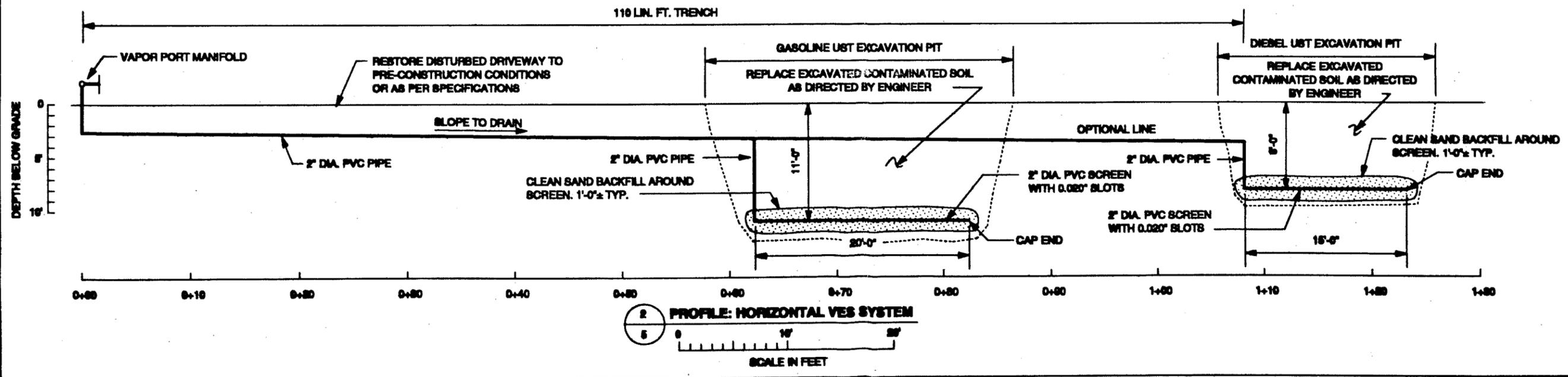
NO.	DATE	BY	DESCRIPTION
1			REVISION DESCRIPTION
2			REV. NO.
3			ORIGINAL DRAWING
4			SYSTEM DISCHARGE
5			EDITS
6			DATE
7			BY
8			DATE
9			BY
10			DATE
11			BY
12			DATE
13			BY
14			DATE
15			BY
16			DATE
17			BY
18			DATE
19			BY
20			DATE
21			BY
22			DATE
23			BY
24			DATE
25			BY
26			DATE
27			BY
28			DATE



**NOTE:**

1. CONTRACTOR SHOULD PROVIDE VAPOR EXTRACTION SYSTEM FOR DIESEL TANK PIT, SHOWN HERE IN GREEN, AS A SEPERATE BID ITEM. (OPTIONAL CONSTRUCTION ITEM.)

1  
5  
**PLAN: HORIZONTAL VES SYSTEM**  
0 10' 20'  
SCALE IN FEET



2  
5  
**PROFILE: HORIZONTAL VES SYSTEM**  
0 10' 20'  
SCALE IN FEET



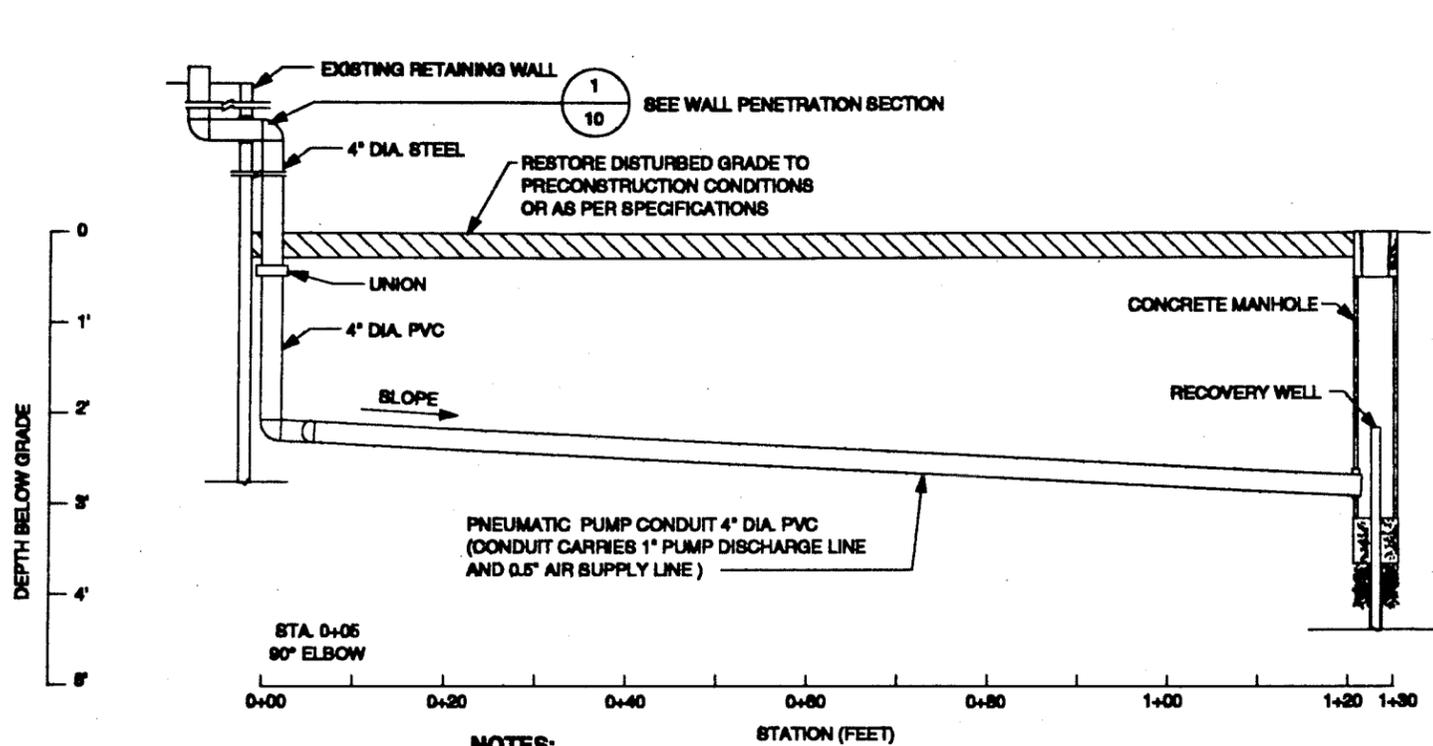
REV. NO.	REVISION DESCRIPTION	DRAWN BY	CHECKED BY	DATE
2	SETTS	FWB	DAJ	11/10/82
1	ORIGINAL DRAWING	DAJ	MDR	10/7/82

**HORIZONTAL VES SYSTEM  
PLAN AND PROFILES**  
MONTEREY APARTMENTS  
SEATTLE, WASHINGTON

DATE: NOVEMBER 10, 1982  
DRAWING NUMBER: 5 of 10

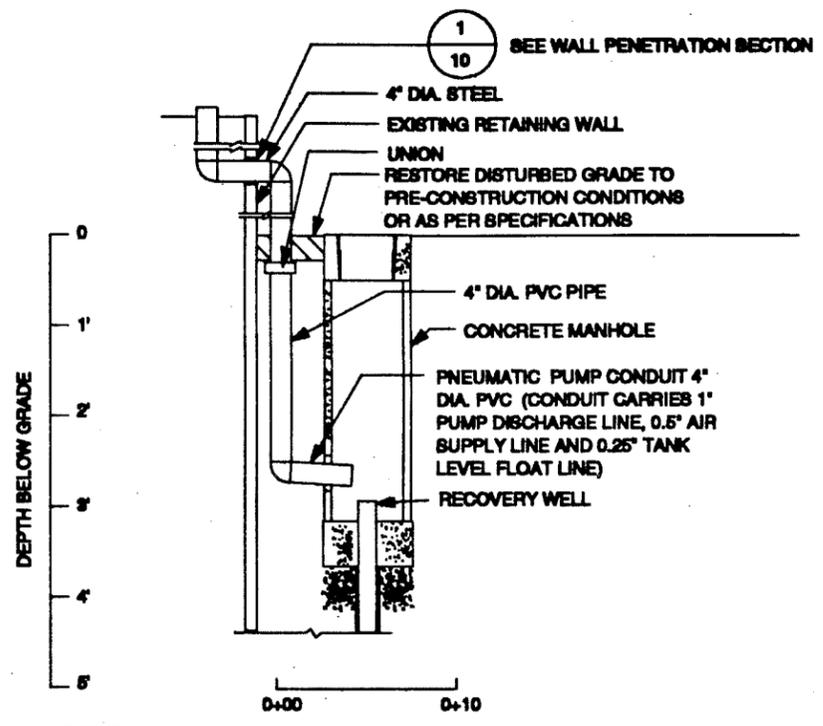






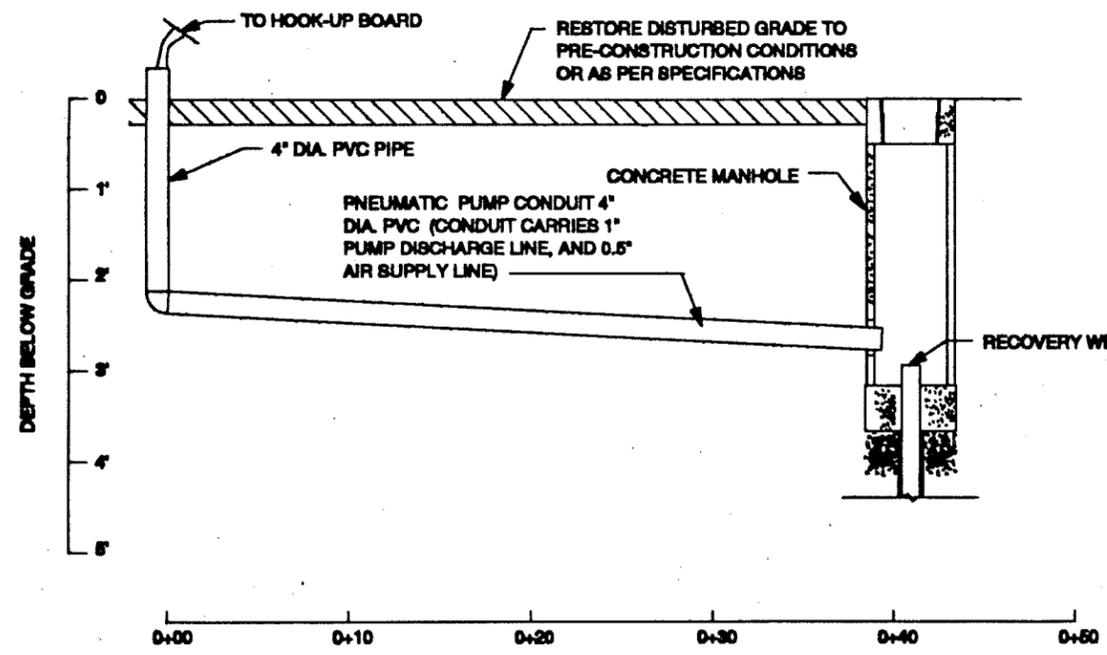
- NOTES:**
- 1.) NOTIFY LOCAL UTILITY OPERATORS TO VERIFY UTILITY LOCATIONS BEFORE BEGINNING ANY SUBSURFACE CONSTRUCTION.
  - 2.) CONTRACTOR IS RESPONSIBLE FOR PIPING ROUTE BETWEEN RETAINING WALL AND SYSTEM HOOK-UP.

1 PROFILE: RECOVERY WELL DISCHARGE LINE(RW-3)  
7 SCALE AS SHOWN



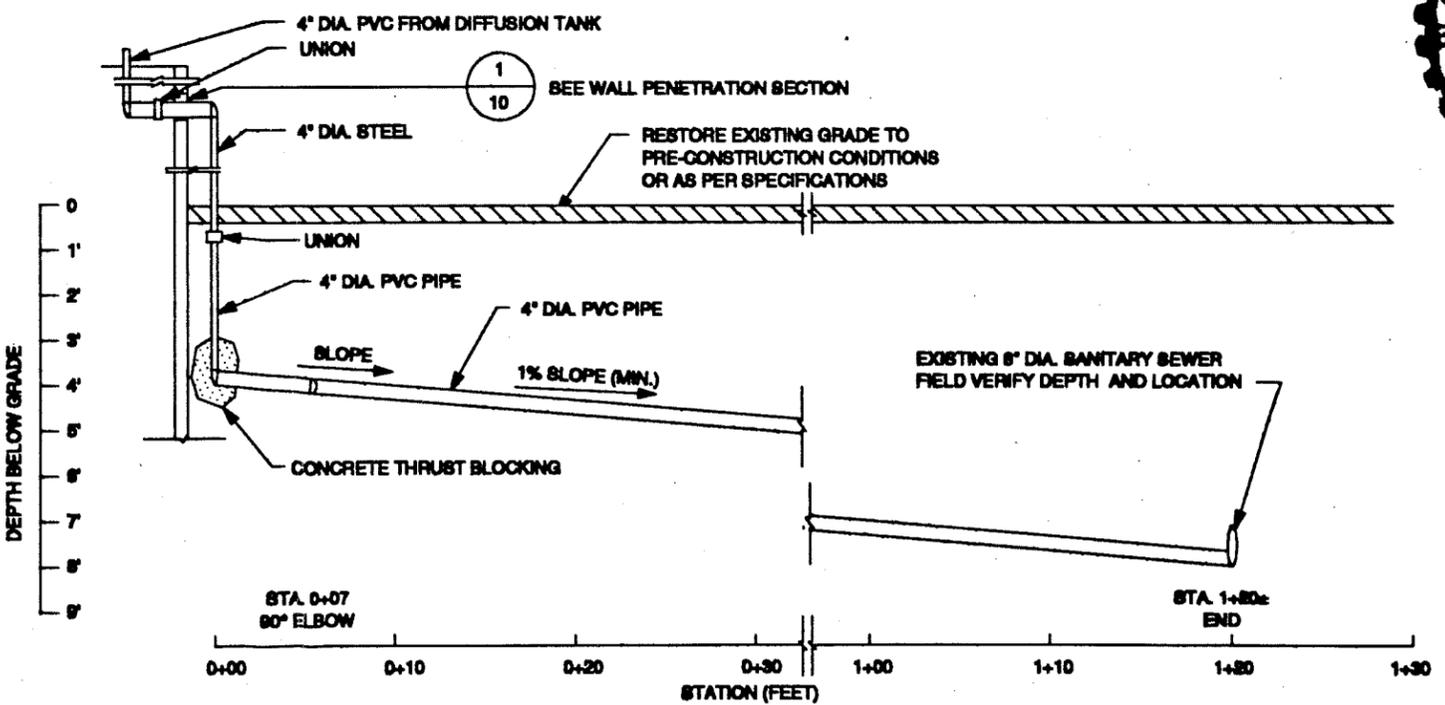
- NOTES:**
- 1.) NOTIFY LOCAL UTILITY OPERATORS TO VERIFY UTILITY LOCATIONS BEFORE BEGINNING ANY SUBSURFACE CONSTRUCTION.
  - 2.) CONTRACTOR IS RESPONSIBLE FOR PIPING ROUTE BETWEEN RETAINING WALL AND SYSTEM HOOK-UP.

2 PROFILE: RECOVERY WELL DISCHARGE LINE(RW-5)  
7 SCALE AS SHOWN



- NOTES:**
- 1.) NOTIFY LOCAL UTILITY OPERATORS TO VERIFY UTILITY LOCATIONS BEFORE BEGINNING ANY SUBSURFACE CONSTRUCTION.

3 RECOVERY WELL DISCHARGE LINE(RW-4)  
7 SCALE AS SHOWN



- NOTES:**
- 1.) NOTIFY LOCAL UTILITY OPERATORS TO VERIFY UTILITY LOCATIONS BEFORE BEGINNING ANY SUBSURFACE CONSTRUCTION.
  - 2.) PROVIDE THRUST BLOCKING AT ALL WYES, BENDS AND TEEs.

4 PROFILE: SYSTEM DISCHARGE LINE TO SEWER  
7 SCALE AS SHOWN

NO.	DATE	CHECKED BY	DRAWN BY	DESIGNED BY	REVISION DESCRIPTION
1	11/08	MOS	DLH	RWG	
2	10/08	MOS	DLH	RWG	
3	08/08	MOS	DLH	RWG	
4	07/08	MOS	DLH	RWG	
5	06/08	MOS	DLH	RWG	
6	05/08	MOS	DLH	RWG	
7	04/08	MOS	DLH	RWG	
8	03/08	MOS	DLH	RWG	
9	02/08	MOS	DLH	RWG	
10	01/08	MOS	DLH	RWG	



**DISCHARGE LINE PROFILES**

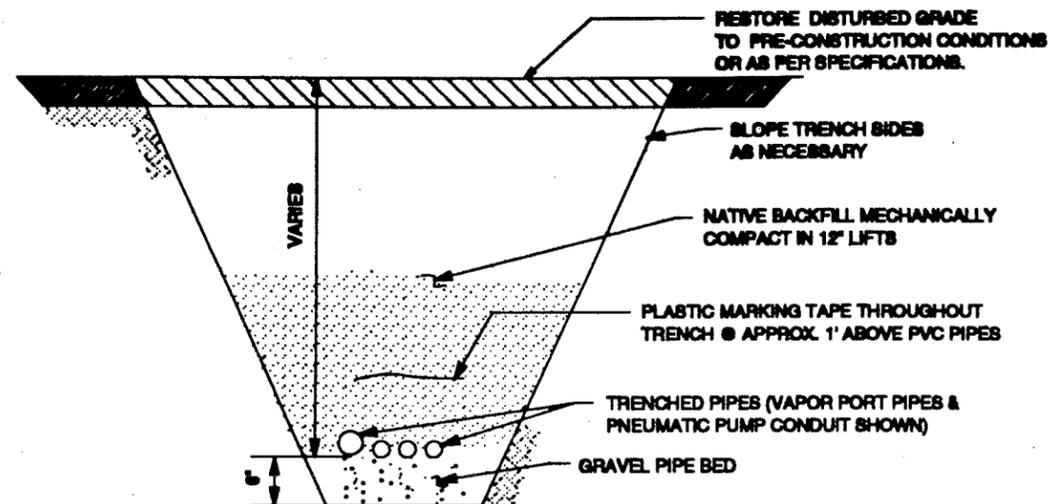
MONTEREY APARTMENTS  
SEATTLE, WASHINGTON

DATE: MARCH 5, 2008  
DRAWING NUMBER: 7 of 10

**SAC**  
An Employee-Owned Company

**DPRA**  
PROJECT NUMBER: 2751.013

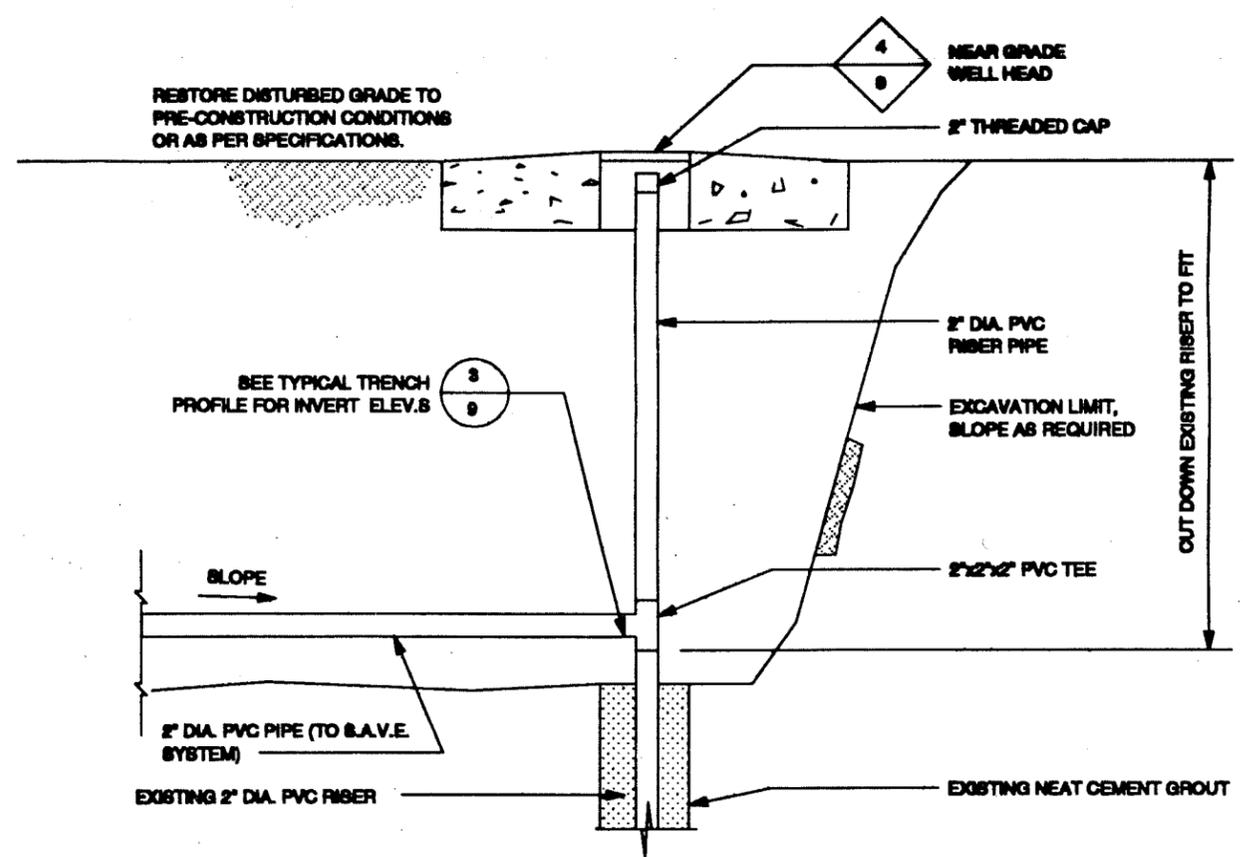




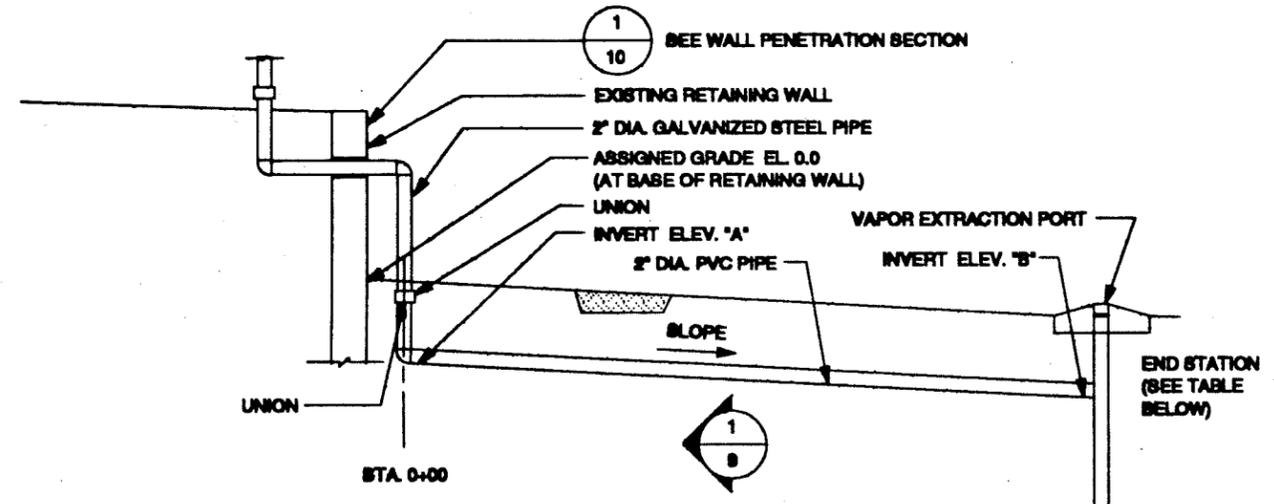
**NOTES:**

1. CONTRACTOR MAY CONSOLIDATE VAPOR EXTRACTION & PNEUMATIC PUMP CONDUIT INTO A SINGLE TRENCH WHERE POSSIBLE.
2. CONTRACTOR MAY ALTER TRENCHING ALIGNMENT FROM THAT SHOWN ON PLANS. ALTERATIONS FROM PLANS MUST BE SUBMITTED TO ENGINEER FOR APPROVAL.

1 SECTION: TRENCH (TYPICAL)  
NO SCALE



2 DETAIL: VAPOR PORT CONNECTION  
SCALE: 12" 6" 0 1"

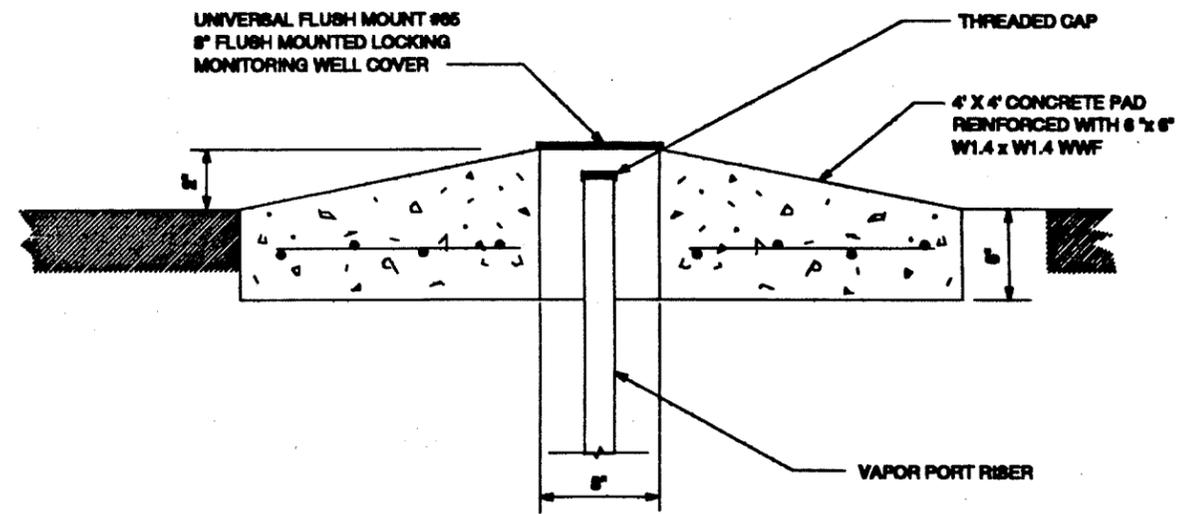


PORT	INVERT ELEV. "A"	INVERT ELEV. "B"	END STATION	APPROX. SLOPE
VP-1	-2.5	-3.5	0+88	1.1%
VP-2	-2.5	-3.5	0+44	2.2%
VP-3	-2.5	-3.5	0+70	1.4%
VP-4	-2.5	-3.5	0+90	1.1%
VP-5	-2.5	-3.5	1+22	0.8%
VP-6	-2.5	-3.5	1+44	0.7%
VP-7	-2.5	-3.5	1+77	0.8%
VP-8	-2.5	-3.5	0+88	1.4%

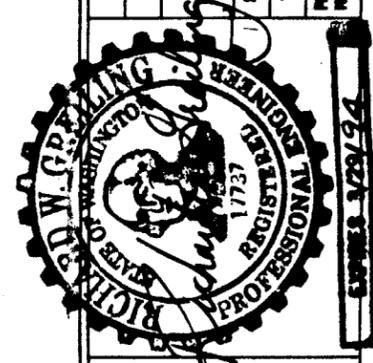
**NOTE:**

1. INVERT ELEVATIONS RELATIVE TO ASSIGNED GRADE ELEVATION.
2. THE PIPING FOR VAPOR PORT VP-8 DOES NOT EXTEND THROUGH RETAINING WALL.
3. RESTORE DISTURBED GRADE TO PRE-CONSTRUCTION CONDITIONS OR AS PER SPECIFICATIONS.

3 PROFILE: TRENCH (TYPICAL)  
NO SCALE



4 DETAIL: NEAR GRADE WELL HEAD  
SCALE: 12" 6" 0 1"



DETAILS  
NEAR GRADE WELL HEAD, TYPICAL  
TRENCH SECTION, TYPICAL  
TRENCH PROFILE AND VAPOR  
PORT CONNECTION

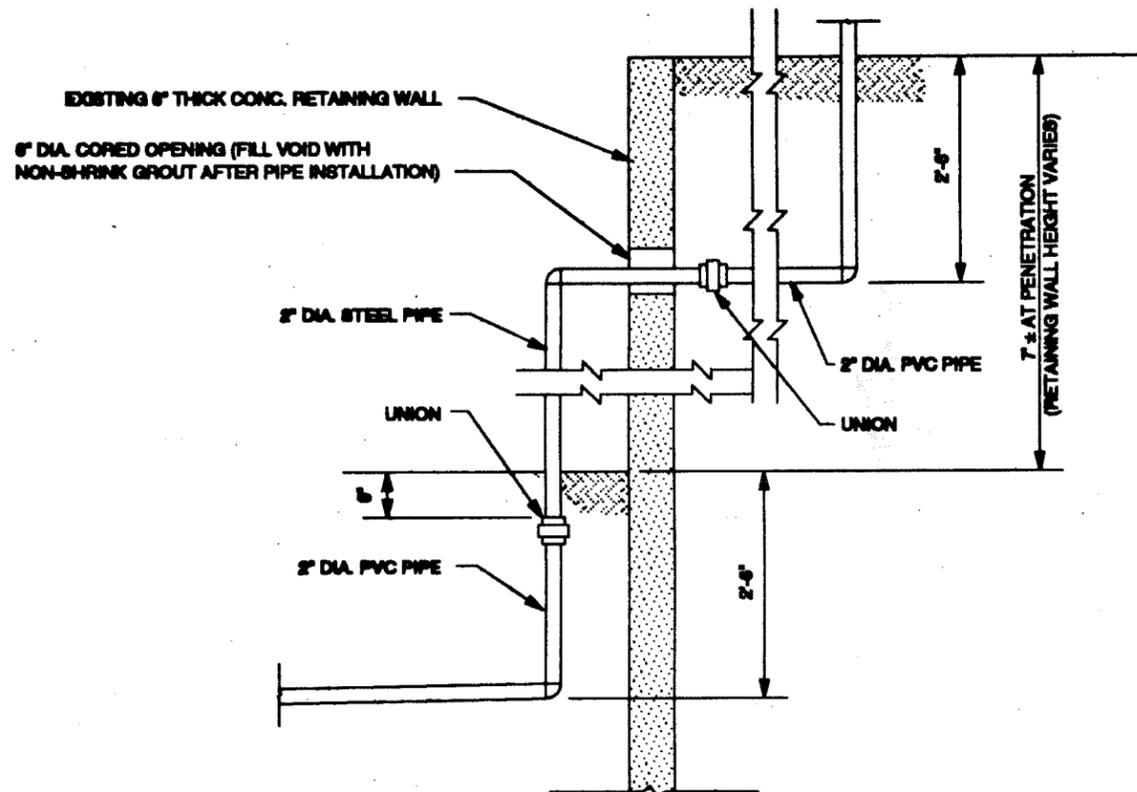
MONTEREY APARTMENTS  
SEATTLE, WASHINGTON

DATE: NOVEMBER 10, 1982

DRAWING NUMBER: 8 of 10

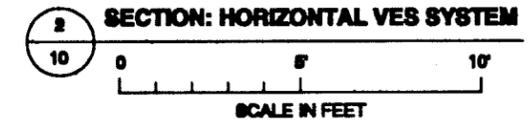
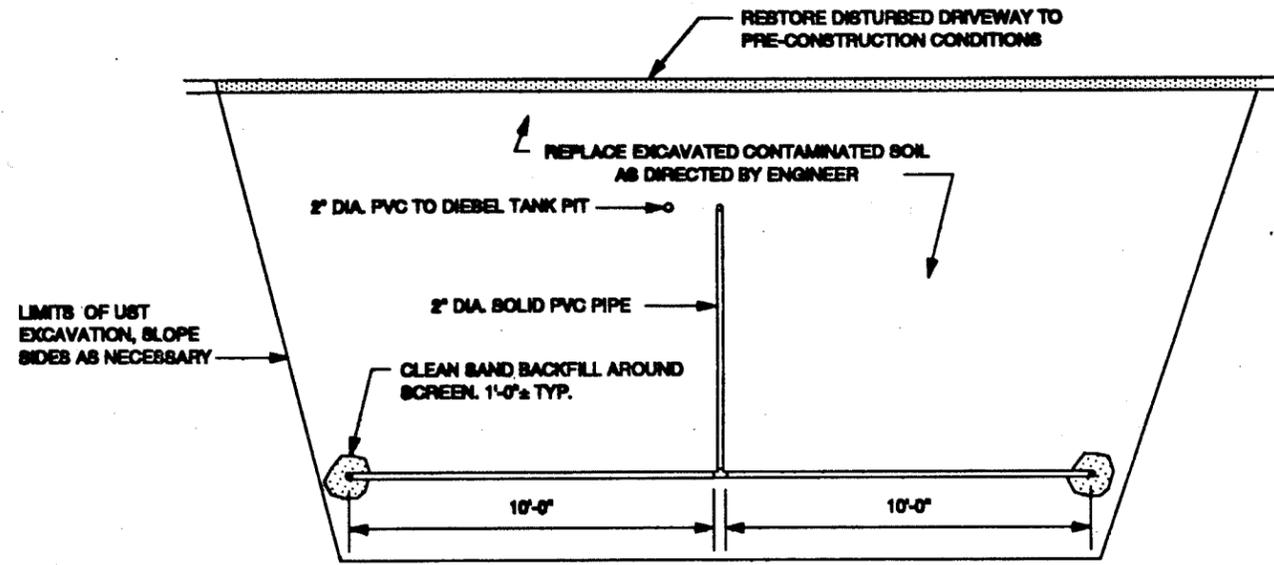
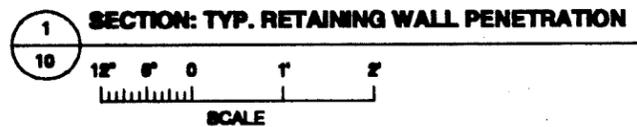


REV. NO.	REVISION DESCRIPTION	DESIGNED BY	DRAWN BY	CHECKED BY	DATE
1	ORIGINAL DRAWING	DLH	DLH	MDR	10/19/82
2	EDITS	MYE	DLH	MDR	11/10/82



**NOTES:**

1. NOTIFY LOCAL UTILITY OPERATORS TO VERIFY UTILITY LOCATIONS BEFORE BEGINNING ANY SUBSURFACE CONSTRUCTION.
2. VAPOR EXTRACTION PIPING SHOWN. GROUNDWATER RECOVERY PIPING AND SYSTEM DISCHARGE PIPING WALL PENETRATIONS WILL BE SIMILAR.
3. CONTRACTOR IS RESPONSIBLE FOR PIPING ROUTE BETWEEN RETAINING WALL AND SYSTEM HOOK-UP.



REV. NO.	REVISION DESCRIPTION	DESIGNED BY	DRAWN BY	CHECKED BY	DATE
2	EDITS	PWG	SLR	MSB	11/10/92
1	ORIGINAL DRAWING	DLH	SLR	MSB	10/19/92



SECTIONS:  
TYPICAL WALL PENETRATION &  
HORIZONTAL VES SYSTEM

MONTEREY APARTMENTS  
SEATTLE, WASHINGTON

DATE: NOVEMBER 10, 1992

DRAWING NUMBER: 10 of 10



PROJECT NUMBER: 3751.013

<b>Site Name: YOUNG H YOO</b>			<a href="#">Glossary</a>
-------------------------------	--	--	--------------------------

<b>UST ID:</b> 100599	<b>Facility/Site ID:</b> 77774779	<b>Latitude:</b> 47.62546	<b>Active Tag(s):</b> N/A
<b>Address:</b> 631 QUEEN ANNE AVE NORTH SEATTLE, WA 98109		<b>Longitude:</b> -122.35709	<b>Responsible Unit:</b> Northwest
		<b>County:</b> King	

### Tank Summary

Tank Name	Tank Status	Tank Install Date
2 SUL	Removed	1/1/1979
1 DF2	Removed	1/1/1979
4 UL	Removed	1/1/1979
3 REG	Removed	1/1/1979

<b>Tank Name:</b> 2 SUL	<b>Tank Status:</b> Removed
-------------------------	-----------------------------

<b>Tank Installation:</b> 1/1/1979	<b>Tank Upgrade:</b>	<b>Business License Endorsement Expiration:</b> 7/1/1993
<b>Tank Status Date:</b> 12/31/1993	<b>Piping Installation:</b>	<b>Tank Permanently Closed Date:</b> 12/31/1993

Tank Information		Piping Information	
<b>Material:</b>	Steel	<b>Material:</b>	Fiberglass
<b>Construction:</b>	Single Wall Tank	<b>Construction:</b>	Single Wall Pipe
<b>Corrosion Protection:</b>	Interior Lining	<b>Corrosion Protection:</b>	Corrosion Resistant
<b>Manifolded Tank:</b>		<b>SFC* at Tank:</b>	
<b>Release Detection:</b>	Manual Inventory Control (daily)	<b>SFC* at Dispenser/Pump:</b>	
<b>Tightness Test:</b>		<b>Primary Release Detection:</b>	Vapor Monitoring
<b>Spill Prevention:</b>	None	<b>Secondary Release Detection:</b>	
<b>Overfill Prevention:</b>	None	<b>Pumping System:</b>	Pressurized System
<b>Actual Capacity:</b>		<b>Turbine Sump Construction:</b>	
<b>Capacity Range:</b>	5,000 to 9,999 Gallons	*SFC = Steel Flex Connector	
<b>Compartment</b>	<b>Substance Stored</b>	<b>Substance Used</b>	<b>Capacity</b>
1	Unleaded Gasoline	Motor Fuel for Vehicles	

<b>Tank Name:</b> 1 DF2		<b>Tank Status:</b> Removed	
<b>Tank Installation:</b> 1/1/1979	<b>Tank Upgrade:</b>	<b>Business License Endorsement Expiration:</b> 7/1/1993	
<b>Tank Status Date:</b> 12/31/1993	<b>Piping Installation:</b>	<b>Tank Permanently Closed Date:</b> 12/31/1993	
Tank Information		Piping Information	
<b>Material:</b> Steel		<b>Material:</b> Fiberglass	
<b>Construction:</b> Single Wall Tank		<b>Construction:</b> Single Wall Pipe	
<b>Corrosion Protection:</b> Interior Lining		<b>Corrosion Protection:</b> Corrosion Resistant	
<b>Manifolded Tank:</b>		<b>SFC* at Tank:</b>	
<b>Release Detection:</b> Manual Inventory Control (daily)		<b>SFC* at Dispenser/Pump:</b>	
<b>Tightness Test:</b>		<b>Primary Release Detection:</b> Vapor Monitoring	
<b>Spill Prevention:</b> None		<b>Secondary Release Detection:</b>	
<b>Overfill Prevention:</b> None		<b>Pumping System:</b> Pressurized System	
<b>Actual Capacity:</b>		<b>Turbine Sump Construction:</b>	
<b>Capacity Range:</b> 5,000 to 9,999 Gallons		*SFC = Steel Flex Connector	
Compartment	Substance Stored	Substance Used	Capacity
1	Diesel	Motor Fuel for Vehicles	

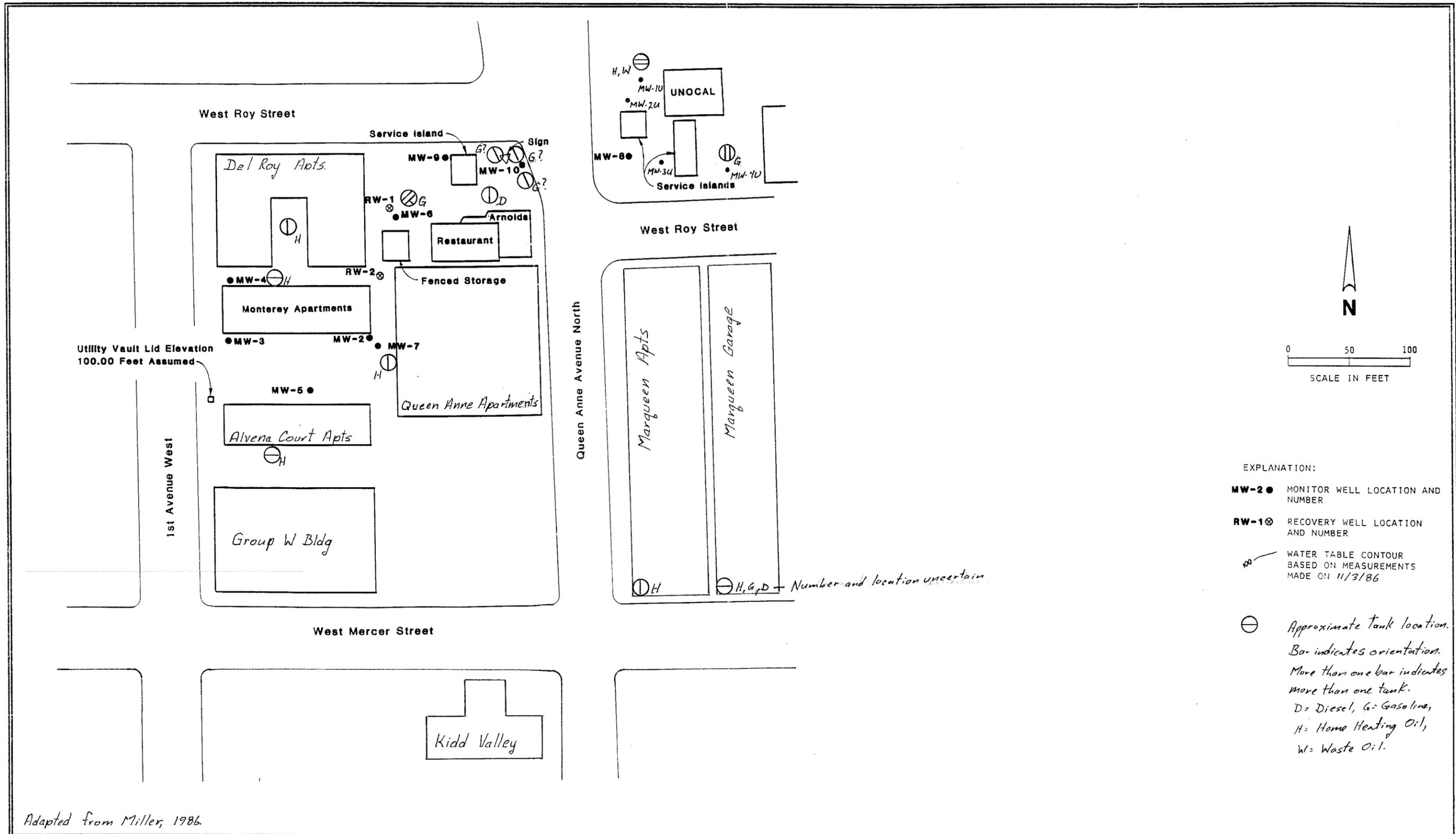
<b>Tank Name:</b> 4 UL		<b>Tank Status:</b> Removed	
<b>Tank Installation:</b> 1/1/1979	<b>Tank Upgrade:</b>	<b>Business License Endorsement Expiration:</b>	
<b>Tank Status Date:</b> 12/31/1993	<b>Piping Installation:</b>	<b>Tank Permanently Closed Date:</b> 12/31/1993	
Tank Information		Piping Information	
<b>Material:</b> Steel		<b>Material:</b> Fiberglass	
<b>Construction:</b> Single Wall Tank		<b>Construction:</b> Single Wall Pipe	
<b>Corrosion Protection:</b> Interior Lining		<b>Corrosion Protection:</b> Corrosion Resistant	
<b>Manifolded Tank:</b>		<b>SFC* at Tank:</b>	
<b>Release Detection:</b> Manual Inventory Control (daily)		<b>SFC* at Dispenser/Pump:</b>	
<b>Tightness Test:</b>		<b>Primary Release Detection:</b> Vapor Monitoring	
<b>Spill Prevention:</b> None		<b>Secondary Release Detection:</b>	
<b>Overfill Prevention:</b> None		<b>Pumping System:</b> Pressurized System	
<b>Actual Capacity:</b>		<b>Turbine Sump Construction:</b>	
<b>Capacity Range:</b> 10,000 to 19,999 Gallons		*SFC = Steel Flex Connector	
Compartment	Substance Stored	Substance Used	Capacity
1	Unleaded Gasoline	Motor Fuel for Vehicles	

<b>Tank Name:</b> 3 REG		<b>Tank Status:</b> Removed	
<b>Tank Installation:</b> 1/1/1979	<b>Tank Upgrade:</b>	<b>Business License Endorsement Expiration:</b>	
<b>Tank Status Date:</b> 12/31/1993	<b>Piping Installation:</b>	<b>Tank Permanently Closed Date:</b>	12/31/1993
Tank Information		Piping Information	
<b>Material:</b> Steel		<b>Material:</b> Fiberglass	
<b>Construction:</b> Single Wall Tank		<b>Construction:</b> Single Wall Pipe	
<b>Corrosion Protection:</b> Interior Lining		<b>Corrosion Protection:</b> Corrosion Resistant	
<b>Manifolded Tank:</b>		<b>SFC* at Tank:</b>	
<b>Release Detection:</b> Manual Inventory Control (daily)		<b>SFC* at Dispenser/Pump:</b>	
<b>Tightness Test:</b>		<b>Primary Release Detection:</b> Vapor Monitoring	
<b>Spill Prevention:</b> None		<b>Secondary Release Detection:</b>	
<b>Overfill Prevention:</b> None		<b>Pumping System:</b> Pressurized System	
<b>Actual Capacity:</b>		<b>Turbine Sump Construction:</b>	
<b>Capacity Range:</b> 10,000 to 19,999 Gallons		*SFC = Steel Flex Connector	
Compartment	Substance Stored	Substance Used	Capacity
1	Leaded Gasoline	Motor Fuel for Vehicles	

# APPENDIX B

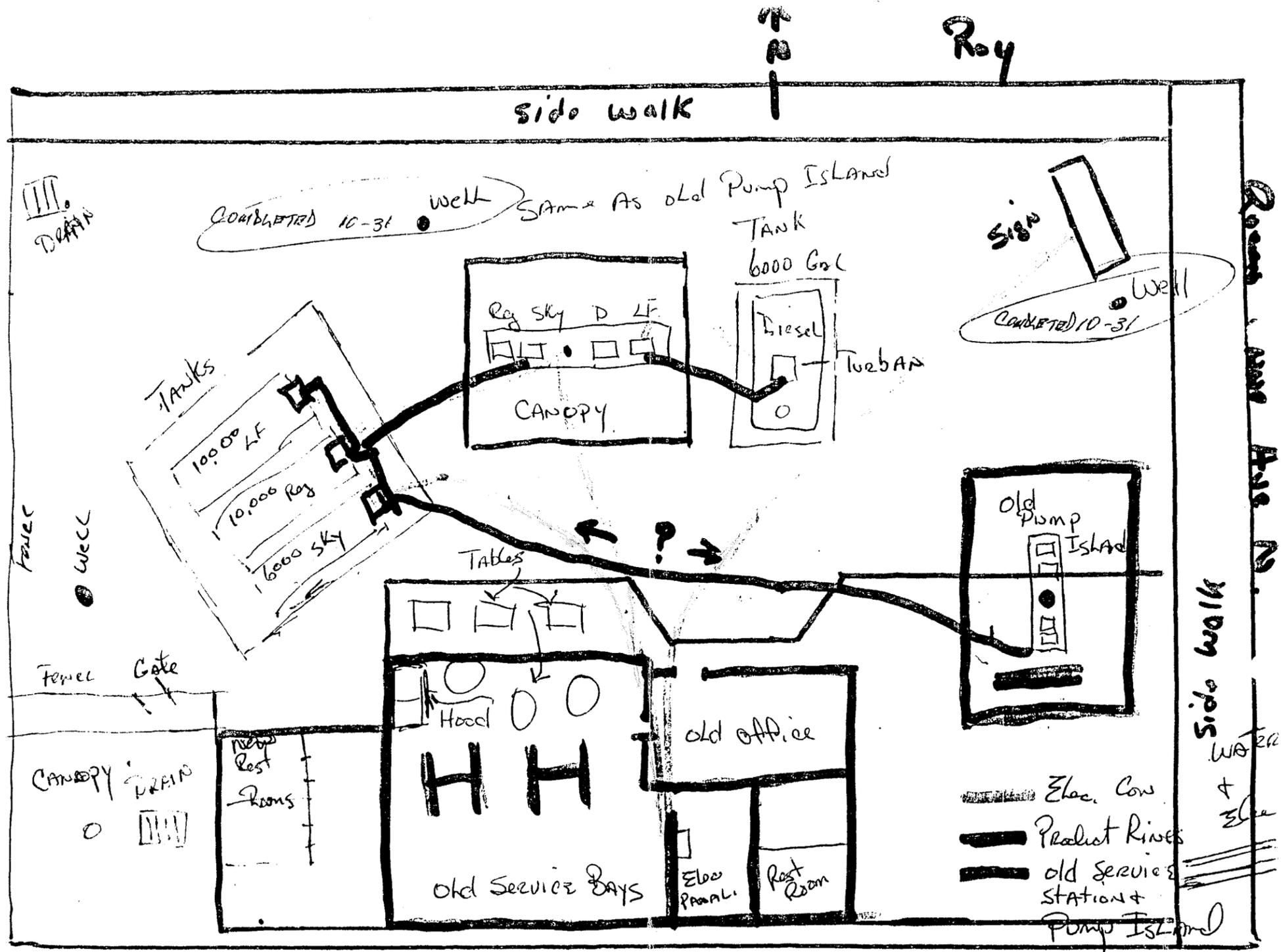
Selected Data from Historical Reports





Adapted from Miller, 1986.

Monterey Apartments Vicinity Map

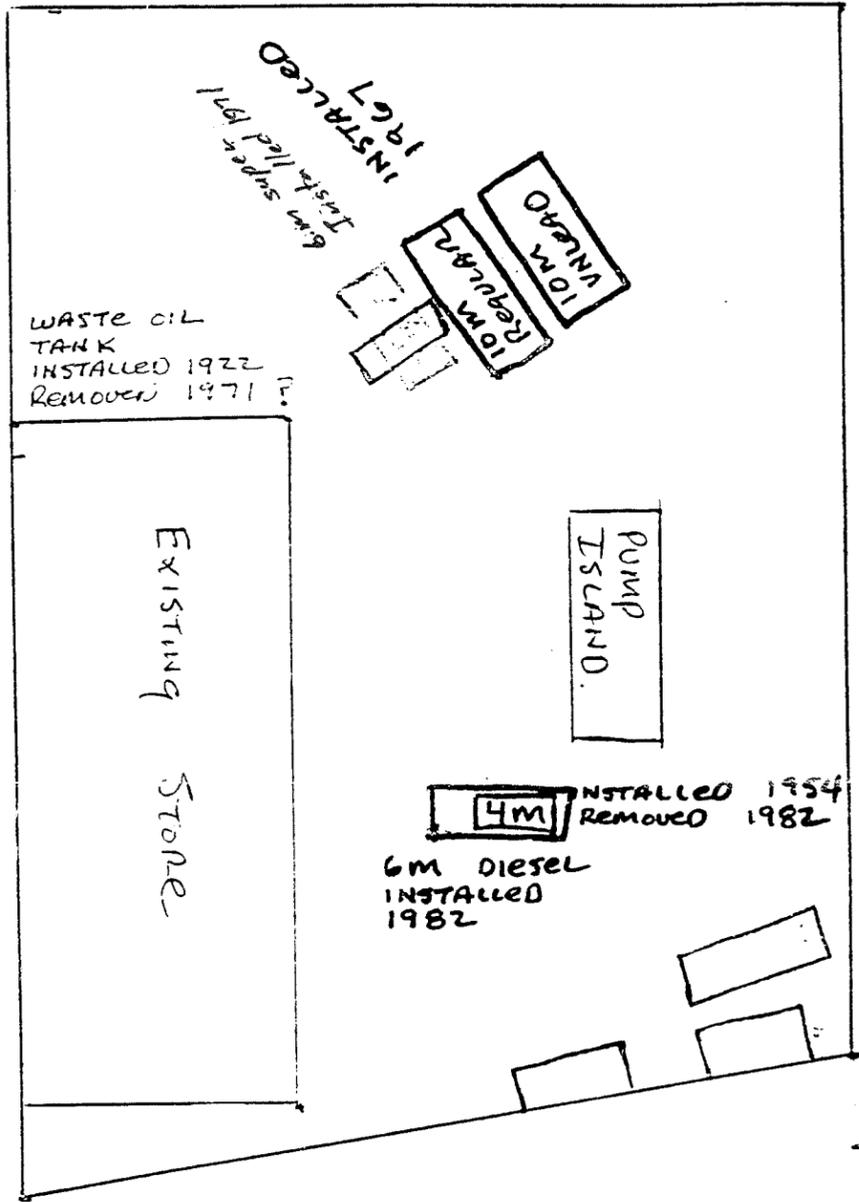


From: Ecology Files

Arnold's Mini-Mart Site Plan

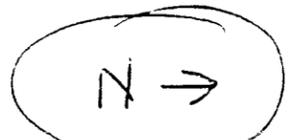
HILNOLUJ ~~MINI~~ MART 1 651 Queen H

# TANK HISTORY



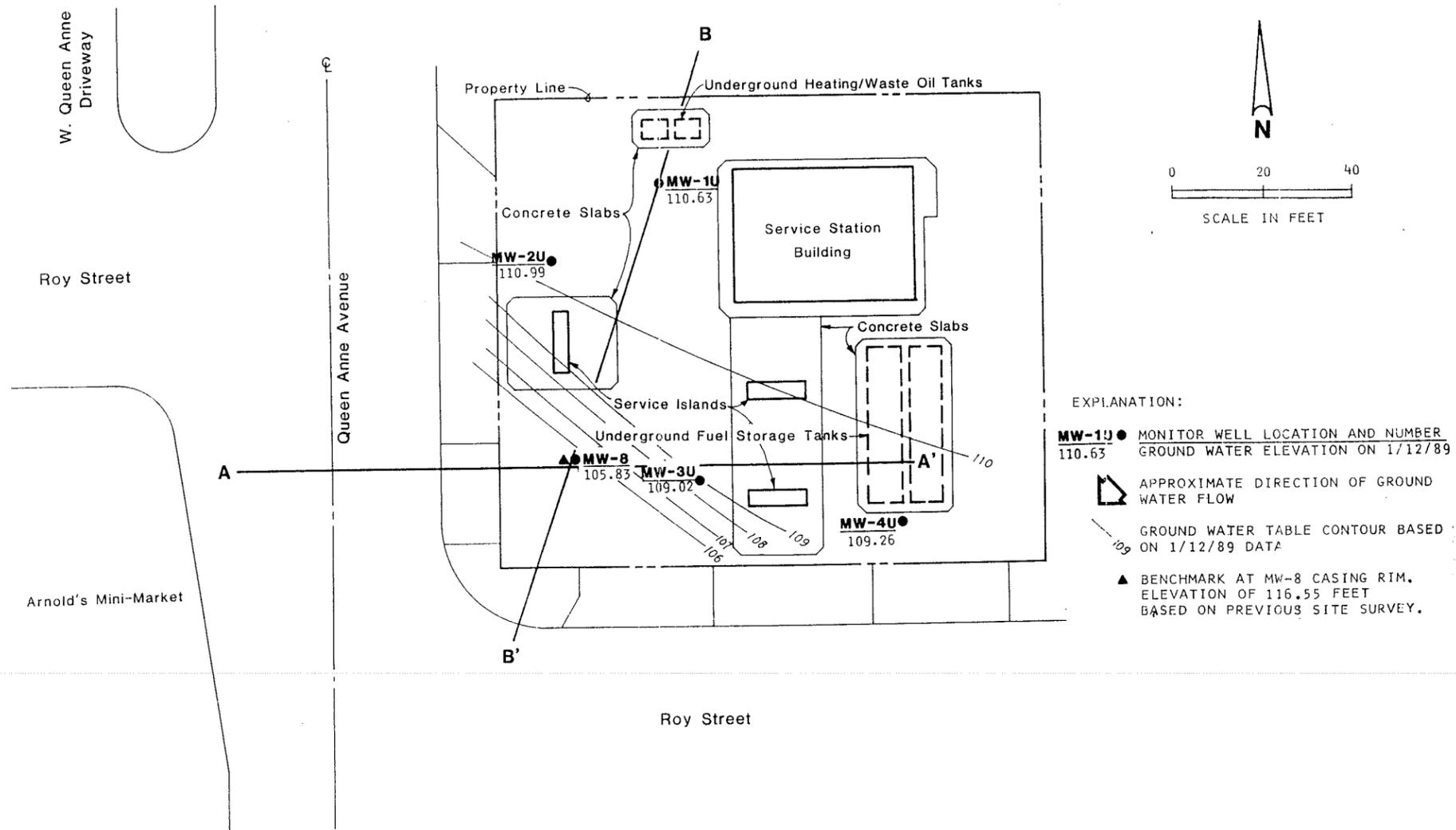
West. Roy Street

Queen Anne Ave. N.



From: Ecology Files

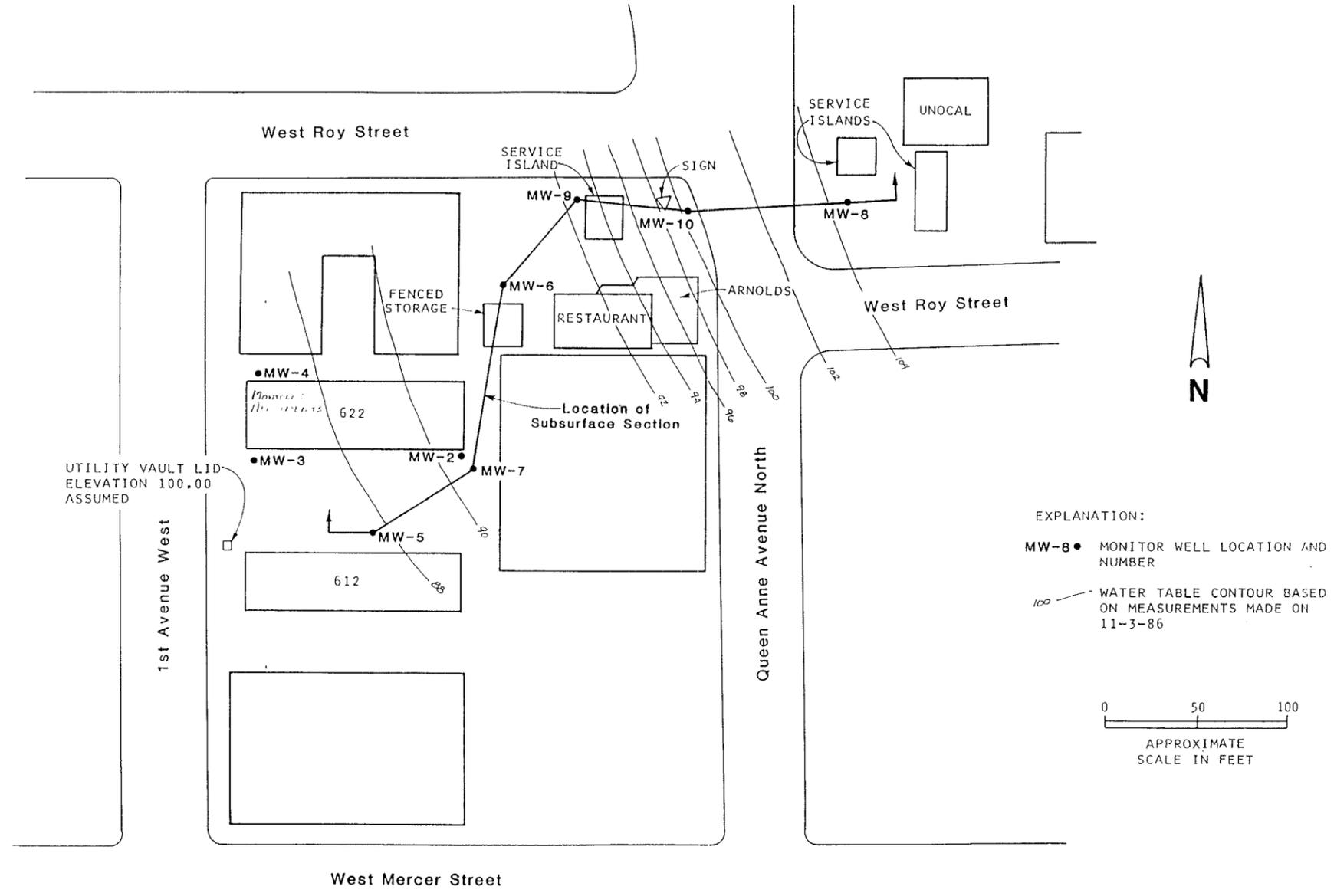
Arnold's Mini-Mart Tank History



REFERENCE: DRAWING ENTITLED "SERVICE STATION NO. 255 @ QUEEN ANNE AVENUE & ROY STREET, SEATTLE, WA.", PROVIDED BY UNOCAL.

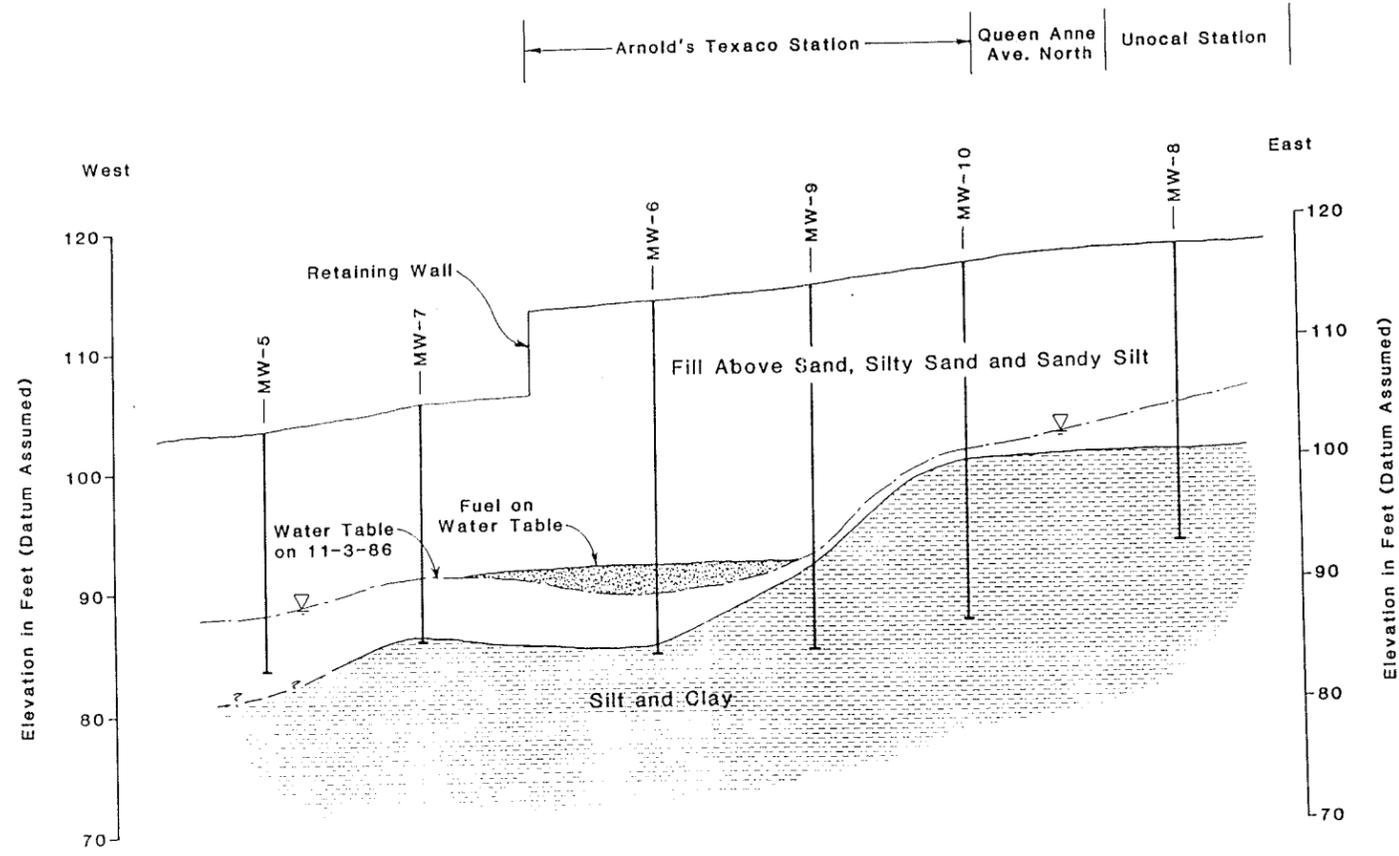
From: Miller, 1989

Unocal Site Plan



From: Miller, 1986

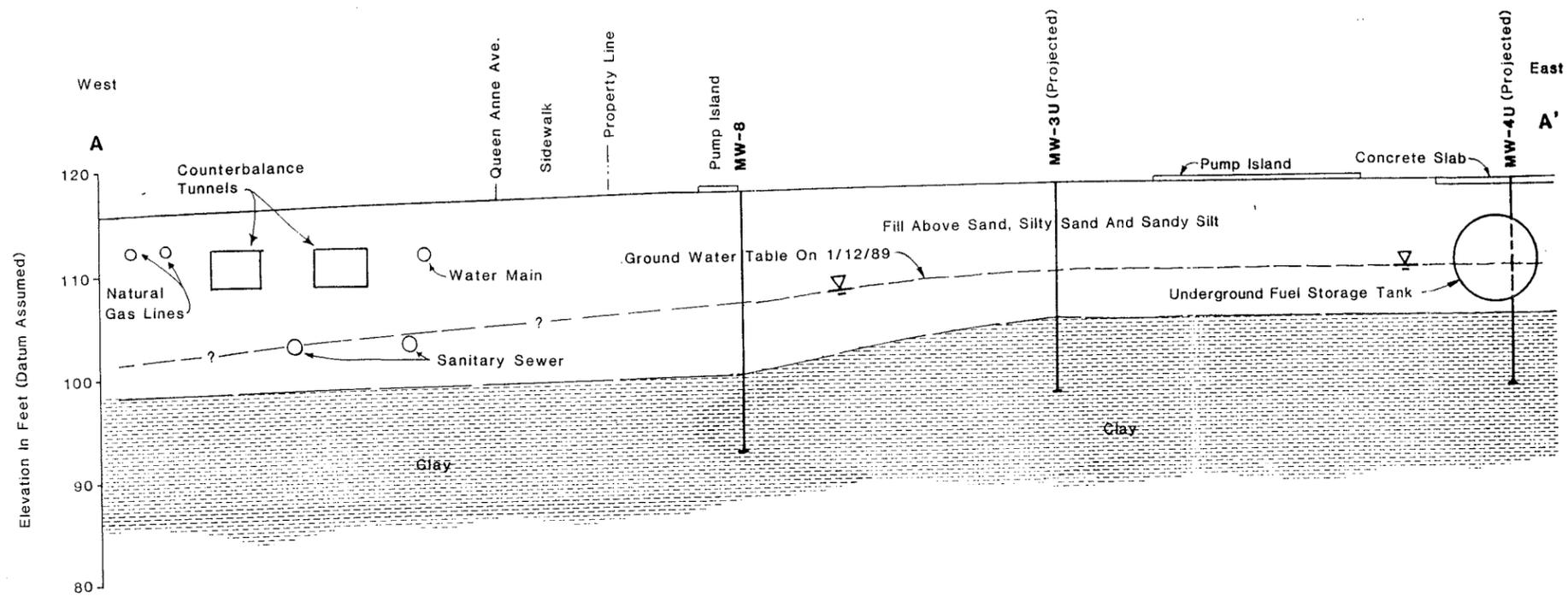
Monterey Apartments Monitoring Well Locations and Ground-Water Table Contours



NOTE: THE SUBSURFACE CONDITIONS SHOWN ON THE SECTION ARE BASED ON INTERPOLATION BETWEEN WIDELY SPACED EXPLORATIONS AND SHOULD BE CONSIDERED TO BE APPROXIMATE.

From: Miller, 1986

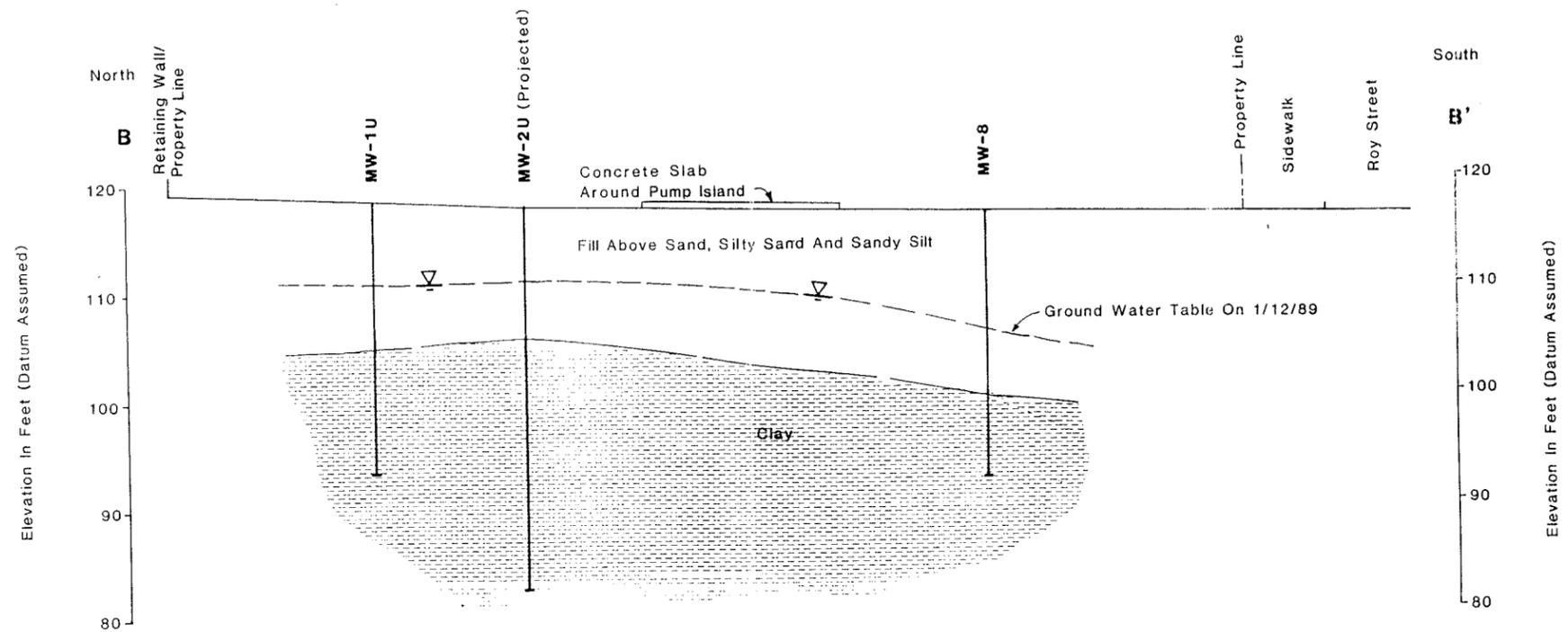
Monterey Apartments Subsurface Section



NOTE: THE SUBSURFACE CONDITIONS SHOWN ON THE SECTION ARE BASED ON INTERPOLATION BETWEEN WIDELY SPACED EXPLORATIONS, AND PREVIOUS STUDIES CONDUCTED FOR THE DEPARTMENT OF ECOLOGY. THEY SHOULD BE CONSIDERED TO BE APPROXIMATE.

From: Miller, 1989

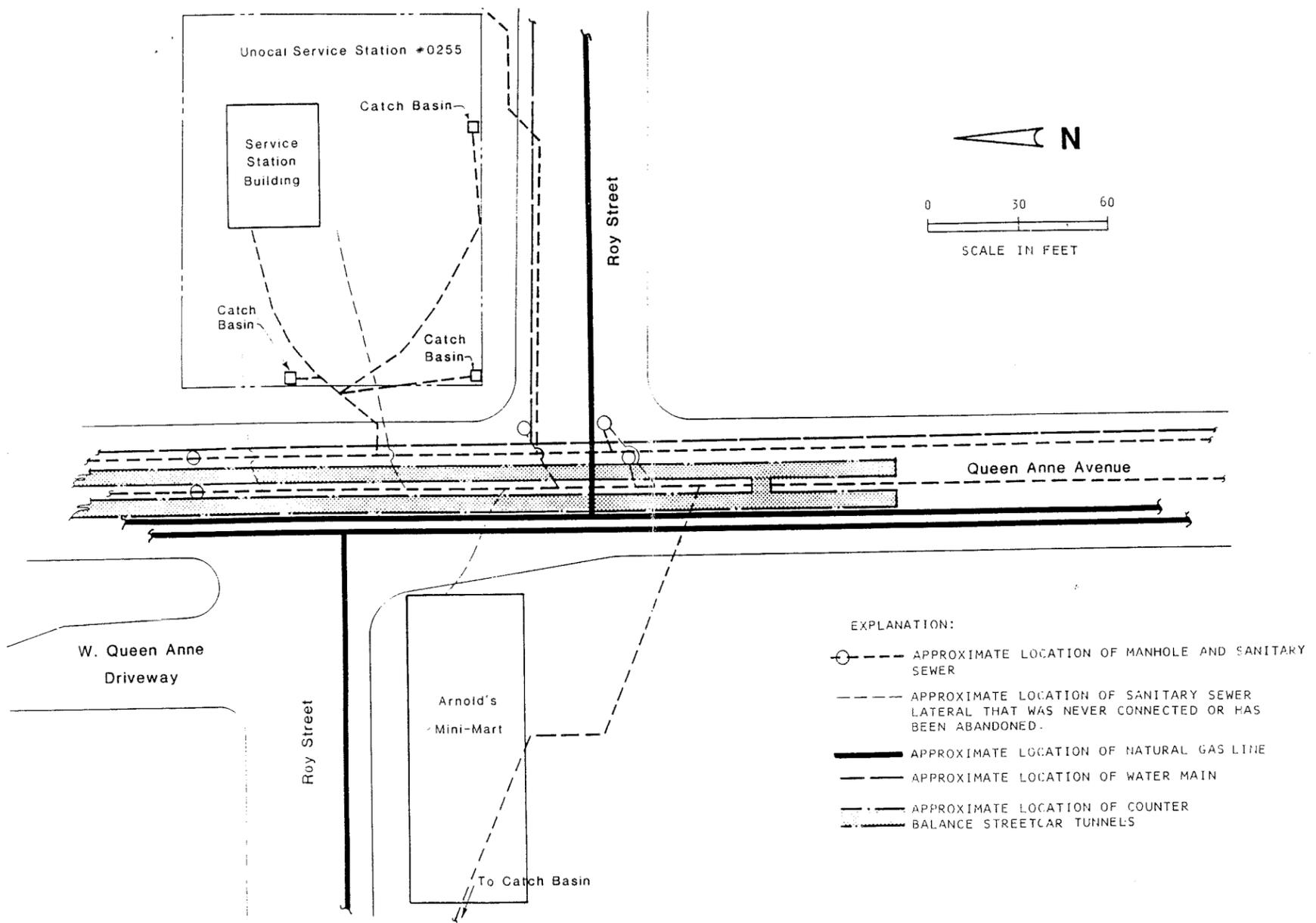
Unocal Subsurface Section A-A'



NOTE: THE SUBSURFACE CONDITIONS SHOWN ON THE SECTION ARE BASED ON INTERPOLATION BETWEEN WIDELY SPACED EXPLORATIONS AND SHOULD BE CONSIDERED TO BE APPROXIMATE.

From: Miller, 1989

Unocal Subsurface Section B-B'



- EXPLANATION:
- --- APPROXIMATE LOCATION OF MANHOLE AND SANITARY SEWER
  - APPROXIMATE LOCATION OF SANITARY SEWER LATERAL THAT WAS NEVER CONNECTED OR HAS BEEN ABANDONED.
  - APPROXIMATE LOCATION OF NATURAL GAS LINE
  - APPROXIMATE LOCATION OF WATER MAIN
  - APPROXIMATE LOCATION OF COUNTER BALANCE STREETCAR TUNNELS

From: Miller, 1989

*Underground Utility Locations*

TABLE 2  
SUMMARY OF SUBSURFACE CONTAMINATION DATA

Boring Number	Soil Odor During Drilling	Hydrocarbon Vapor Levels(1)		Water Table Conditions	Depth of Soil Sample Tested	Total Petroleum Hydrocarbons (ppm) (EPA Method 418.1)	BETX in Soil (ppm)(2)			
		ppm	%LEL				B	E	T	X
MW-1U <sup>(3)</sup>	No	200	2.0	No sheen	9 feet	<1.0	<0.025	<0.025	<0.025	<0.025
MW-2U	No	200	2.0	No sheen	9 feet	--	<0.025	<0.025	<0.025	<0.025
MW-3U	Yes	>10,000	>91	No sheen	9 feet	--	<0.5	27	12	26
MW-4U	Yes	6,000	55	No sheen	8.5 feet	--	1.5	15	9.1	79
MW-8 <sup>(4)</sup>	Yes	>10,000	>91	Slight sheen	--	--	--	--	--	--

Notes:

"--" indicates not tested

- (1) Measurements obtained on 1/12/89 using a Bacharach TLV Sniffer calibrated to hexane (110 ppm = 1% LEL of hexane).
- (2) B = benzene, E = ethylbenzene, T = toluene, X = sum of m, p, o xylenes.
- (3) The soil sample from Boring MW-1U was also analyzed for solvent-related hydrocarbon compounds. These compounds were not detected in this sample. Detection limits are given in the laboratory reports (Appendix B).
- (4) Well MW-8 installed on 10/29/86 as part of Monterey Apartments study.

From: Miller, 1989

# Cleanup Site Details

Cleanup Site ID: 6663

Cleanup Site ID: 6663      Facility/Site ID: 77774779      UST ID: 100599      [Site Page](#)      [Site Documents](#)      [View Map](#)

Cleanup Site Name: Texaco 211577 Monterey      [Glossary](#)

**Alternate Names:** Arnolds Mini Mart, Former Texaco Station 211577, Manhattan Express Deli, Monterey Apartments, Queen Anne Texaco, Royston on Queen Anne, Texaco 211577 Monterey, Texaco Downstream 211577, Young H Yoo

## LOCATION

**Address:** 631 QUEEN ANNE AVE N      **City:** SEATTLE      **Zip Code:** 98109      **County:** King  
**Latitude:** 47.62546      **Longitude:** -122.35709      **WRIA:** 8      **Legislative District:** 36      **Congressional District:** 7      **TRS:** 25N 3E 25

## DETAIL

**Status:** Cleanup Started      **NFA Received?** No      **Is PSI site?** Yes  
**Statute:** MTCA      **NFA Date:** N/A      **Current VCP?** No      **Past VCP?** Yes  
**Site Rank:** 1 - Highest Assessed Risk      **NFA Reason:** N/A      **Brownfield?** No  
**Site Manager:** Song, Jing      **Responsible Unit:** Northwest      **Active Institutional Control?** No

## CLEANUP UNITS

Cleanup Unit Name	Unit Type	Unit Status	Resp Unit	Unit Manager	Current Process
Texaco 211577	Upland	Cleanup Started	NW	Song, Jing	Ecology-supervised or conducted
Monterey Apartments	Upland	Construction Complete- Performance Monitoring	NW	Song, Jing	Ecology-supervised or conducted

## ACTIVE INSTITUTIONAL CONTROLS

Instrument Type	Restriction Media	Restrictions/Requirements	Date	Recording Number	Recording County	Tax Parcel
-----------------	-------------------	---------------------------	------	------------------	------------------	------------

There are no current Institutional Controls in effect for this site.

## AFFECTED MEDIA & CONTAMINANTS

Contaminant	MEDIA					
	Soil	Groundwater	Surface Water	Sediment	Air	Bedrock
Arsenic	S	S			S	
Benzene	C	C			C	
Halogenated Solvents		C				
Lead	S	C			S	
Mercury	S	S			S	
Metals - Other	S	S			S	
Non-Halogenated Solvents	C	C			C	
Petroleum-Diesel	C	C			C	
Petroleum-Gasoline	C	C			C	
Petroleum-Other	C	C			C	
Polycyclic Aromatic Hydrocarbons	C	C				

**Key:**  
B - Below Cleanup Level      C - Confirmed Above Cleanup Level      RA - Remediated-Above  
S - Suspected      R - Remediated      RB - Remediated-Below

# Cleanup Site Details

**Cleanup Site ID: 6663**

<b>SITE ACTIVITIES</b>			
<b>Activity</b>	<b>Status</b>	<b>Start Date</b>	<b>End Date/ Completion Date</b>
LUST - Notification	Completed		1/1/1986
Site Discovery/Release Report Received	Completed		3/1/1988
Remedial Investigation and/or Feasibility Study	Completed	5/1/1990	8/30/1991
Site Hazard Assessment/Federal Site Inspection	Completed	4/1/1991	6/30/1991
Cleanup - Construction	Completed	9/1/1991	4/30/1993
O & M	Canceled	5/1/1993	10/1/2007
LUST - Report Received	Completed		10/11/2002
LUST - Report Received	Completed		1/24/2003
VCP Opinion on Interim Action Work Plan	Completed	8/28/2006	3/13/2007
VCP Opinion on Interim Action	Completed	3/18/2008	
VCP Opinion on Interim Action	Completed	10/23/2008	
Periodic Review	Canceled	11/1/2008	11/1/2012
VCP Opinion on Interim Action	Completed	4/8/2009	
VCP Opinion on Interim Action	Completed	7/13/2009	
VCP Opinion on Interim Action Work Plan	Completed	1/28/2010	
VCP Receipt of Plan or Report	Completed		5/26/2011
VCP Receipt of Plan or Report	Completed		8/30/2011
LUST - Report Received	Completed		9/24/2012
LUST - Report Received	Completed		2/12/2013
LUST - Report Received	Completed		11/7/2013
LUST - Report Received	Completed		3/30/2018
LUST - Report Received	Completed		3/30/2018
LUST - Report Received	Completed		3/30/2018
LUST - Report Received	Completed		3/30/2018
LUST - Report Received	Completed		3/30/2018
LUST - Report Received	Completed		3/30/2018
VCP Opinion on Site Cleanup Plan	Canceled	4/6/2018	
LUST - Report Received	Completed		12/21/2018
Site Hazard Assessment/Federal Site Inspection	Completed	3/15/2019	5/7/2019
LUST - Report Received	Completed		3/20/2019
Hazardous Sites Listing/NPL	Completed		6/14/2019

# APPENDIX C

EDR Report



**631 Queen Anne Avenue North**  
631 Queen Anne Avenue North  
SEATTLE, WA 98109

Inquiry Number: 5731894.2s  
July 29, 2019

## EDR Summary Radius Map Report



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

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

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

631 QUEEN ANNE AVENUE NORTH  
SEATTLE, WA 98109

#### COORDINATES

Latitude (North): 47.6254980 - 47° 37' 31.79"  
Longitude (West): 122.3571100 - 122° 21' 25.59"  
Universal Transverse Mercator: Zone 10  
UTM X (Meters): 548304.2  
UTM Y (Meters): 5274658.5  
Elevation: 147 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:	TP
Source:	U.S. Geological Survey
Target Property:	SE
Source:	U.S. Geological Survey
Target Property:	SW
Source:	U.S. Geological Survey
Target Property:	NW
Source:	U.S. Geological Survey

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20150807
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:  
631 QUEEN ANNE AVENUE NORTH  
SEATTLE, WA 98119

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">A1</a>	MCCARTY S TEXACO SER	631 QUEEN ANNE AVE	EDR Hist Auto		TP
<a href="#">A2</a>	YOUNG H YOO	631O QUEEN ANNE AVE	WA RGA LUST		TP
<a href="#">A3</a>	YOUNG H YOO	631 QUEEN ANNE AVE N	WA RGA LUST		TP
<a href="#">A4</a>	MCCARTY S TEXACO SER	631 QUEEN ANNE AVE N	EDR Hist Auto		TP
<a href="#">A5</a>	YOUNG H YOO	631 QUEEN ANNE AVE N	WA LUST, WA UST, WA MANIFEST		TP
<a href="#">A6</a>	YOUNG H YOO	631 QUEEN ANNE AVE	WA RGA LUST		TP
<a href="#">A7</a>	TEXACO DOWNSTREAM 21	631 QUEEN ANNE AVE N	WA RGA HWS		TP
<a href="#">A8</a>	TEXACO DOWNSTREAM 21	631 QUEEN ANNE AVE N	WA RGA LUST		TP
<a href="#">A9</a>	TEXACO DOWNSTREAM 21	631 QUEEN ANNE AVE N	WA CSCSL, WA VCP, WA ALLSITES, RCRA NonGen / NLR,...		TP
<a href="#">A10</a>	MANHATTAN EXPRESS	631 QUEEN AVE N	EDR Hist Auto		TP
<a href="#">A11</a>	TEXACO #211577	631 QUEEN ANNE AVE.	WA ICR		TP
<a href="#">A12</a>	ACME DYE WORKS	629 QUEEN ANNE AVE	EDR Hist Cleaner	Lower	81, 0.015, SE
<a href="#">A13</a>	MC CARTYS & LEWIS TE	629-31 QUEEN ANNE	EDR Hist Auto	Lower	81, 0.015, SE
<a href="#">A14</a>	UPTOWN LAUNDRY	623 QUEEN ANNE AVE	EDR Hist Cleaner	Lower	99, 0.019, SSE
<a href="#">A15</a>	PUBLIX SUPER SERVICE	QUEEN ANNE AVE & ROY	EDR Hist Auto	Higher	101, 0.019, East
<a href="#">A16</a>	WOO LEE HAND LAUNDRY	621 QUEEN ANNE AVE	EDR Hist Cleaner	Lower	105, 0.020, SSE
<a href="#">A17</a>	QUEEN ANNE CLEANERS	2 W ROY ST	EDR Hist Cleaner	Higher	116, 0.022, NE
<a href="#">B18</a>	COUNTER BALANCE UNIO	700 QUEEN ANNE AVE N	EDR Hist Auto	Higher	179, 0.034, NE
<a href="#">B19</a>	UNOCAL #0255	700 QUEEN ANNE AVE.	WA ICR	Higher	179, 0.034, NE
<a href="#">B20</a>	UNOCAL 0255	700 QUEEN ANNE AVE N	WA UST, WA MANIFEST	Higher	179, 0.034, NE
<a href="#">B21</a>	UNOCAL 306566	700 QUEEN ANNE AVE N	WA HSL, WA CSCSL, WA LUST, WA ALLSITES, RCRA...	Higher	179, 0.034, NE
<a href="#">22</a>	EARLING AUTO REPAIR	14 W ROY	EDR Hist Auto	Higher	183, 0.035, NW
<a href="#">23</a>	MONTEREY APARTMENTS	622 1ST AVE W & QUEE	WA HSL, WA CSCSL, WA ALLSITES, RCRA NonGen / NLR,...	Lower	215, 0.041, WSW
<a href="#">B24</a>	WILLIS APARTMENTS	720 QUEEN ANNE AVE.	WA ICR	Higher	270, 0.051, NE
<a href="#">25</a>	MERCER STREET MOBIL	16 W MERCER ST	EDR Hist Auto	Lower	306, 0.058, SSW
<a href="#">C26</a>	ORESTES RESTAURANT	14 ROY ST	WA UST	Higher	325, 0.062, East
<a href="#">C27</a>	RON ISAACS PROPERTY	14 ROY ST	WA LUST, WA VCP, WA ALLSITES, WA CSCSL NFA, RCRA...	Higher	325, 0.062, East
<a href="#">C28</a>	PARAMOUNT CLEANERS I	14 ROY ST	EDR Hist Cleaner	Higher	325, 0.062, East
<a href="#">C29</a>	MOTION FINANCIAL PRO	14 ROY ST.	WA ICR	Higher	325, 0.062, East
<a href="#">D30</a>	WEST BOY STREET LAUN	104 W ROY	EDR Hist Cleaner	Lower	330, 0.062, West
<a href="#">E31</a>	WA UW 601 QUEEN ANNE	601 QUEEN ANNE AVE N	WA ALLSITES, WA MANIFEST	Lower	336, 0.064, SSE
<a href="#">E32</a>	WA UW 601 QUEEN ANNE	601 QUEEN ANNE AVE N	RCRA NonGen / NLR	Lower	336, 0.064, SSE
<a href="#">E33</a>	QUEEN ANNE CLEANERS	603 QUEEN ANNE AVE N	WA ALLSITES, RCRA NonGen / NLR, FINDS, ECHO, WA...	Lower	336, 0.064, SSE
<a href="#">E34</a>	Q A CLEANERS	603 QUEEN ANNE AVE N	EDR Hist Cleaner	Lower	336, 0.064, SSE
<a href="#">E35</a>	ACME CLEANERS	8 W MERCER	EDR Hist Cleaner	Lower	341, 0.065, SSE
<a href="#">E36</a>	MLINSON MAGNUS A	10 W MERCER	EDR Hist Auto	Lower	341, 0.065, SSE
<a href="#">E37</a>	MARQUEEN GARAGE MERC	10 MERCER ST	WA ALLSITES, RCRA NonGen / NLR, FINDS, ECHO	Lower	341, 0.065, SSE
<a href="#">E38</a>	BEARDSLEY L R	10 MERCER	EDR Hist Auto	Lower	341, 0.065, SSE
<a href="#">D39</a>	FASHION LINEN AND TO	112 W ROY	EDR Hist Cleaner	Lower	349, 0.066, West

MAPPED SITES SUMMARY

Target Property Address:  
631 QUEEN ANNE AVENUE NORTH  
SEATTLE, WA 98119

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
F40	MARKWELL BERT	725 1ST AVE W	EDR Hist Auto	Higher	382, 0.072, NW
G41	MARKETPLACE CLEANERS	12 MERCER ST	EDR Hist Cleaner	Lower	384, 0.073, SE
42	MC CARTY S TEXACO ST	831 QUEEN ANNE AVE	EDR Hist Auto	Higher	404, 0.077, North
E43	QUEEN ANNE PROPERTIE	541 QUEEN ANNE AVE N	WA HSL, WA CSCSL, WA UST, WA VCP, WA ALLSITES,...	Lower	421, 0.080, South
E44	CORRY S FINE DRY CLE	541 QUEEN ANNE AVE N	EDR Hist Cleaner	Lower	421, 0.080, South
E45	LANGDON SIG	541 QUEEN ANNE AVE	EDR Hist Auto	Lower	421, 0.080, South
E46	CVS PHARMACY 10331	531 QUEEN ANNE AVE N	RCRA-LQG	Lower	426, 0.081, South
E47	CVS PHARMACY 10331	531 QUEEN ANNE AVE N	WA ALLSITES, WA MANIFEST	Lower	426, 0.081, South
H48	PRIM CLEANERS	538 QUEEN ANNE AVE N	EDR Hist Cleaner	Lower	449, 0.085, SSE
G49	KITS CAMERA 1028	11 MERCER ST	WA ALLSITES, RCRA NonGen / NLR, FINDS, ECHO, WA...	Lower	459, 0.087, SSE
I50	BELLA CLEANERS	618 1ST AVE N	EDR Hist Cleaner	Higher	488, 0.092, ESE
F51	TORVANGER JOHN H	101 OLYMPIC WAY	EDR Hist Auto	Higher	489, 0.093, NW
I52	LIGHTRECYCLE WASHING	600 FIRST AVE. N.	WA SWRCY	Higher	515, 0.098, ESE
I53	MARKETPLACE CLEANERS	600 1ST AVE N	EDR Hist Cleaner	Higher	515, 0.098, ESE
H54	AUCOTT TRUST PROPERT	526-530 QUEEN ANNE A	WA ALLSITES, WA CSCSL NFA	Lower	528, 0.100, SSE
J55	ROSE LEO	25 MERCER	EDR Hist Auto	Lower	530, 0.100, SE
J56	BROOKS THEO R COR AV	1ST AVE N & MERCER S	EDR Hist Auto	Lower	539, 0.102, SE
57	BAYVIEW MANOR HOMES	11 W ALOHA ST	WA ALLSITES, WA SPILLS, RCRA NonGen / NLR, FINDS,...	Higher	548, 0.104, North
K58	QUEEN ANNE CLEANERS	519 QUEEN ANNE AVE	EDR Hist Cleaner	Lower	584, 0.111, South
J59	KNECHTEL REUBEN T	537 1ST AVE N	EDR Hist Auto	Lower	593, 0.112, SE
L60	SAFEWAY STORE 1885	516 1ST AVE W	RCRA-CESQG	Lower	597, 0.113, SSW
L61	SAFEWAY STORE 1885	516 1ST AVE W	WA ALLSITES, WA MANIFEST	Lower	597, 0.113, SSW
K62	SPOKANE CHARLIE S HA	515 QUEEN ANNE AVE	EDR Hist Cleaner	Lower	612, 0.116, South
M63	SPIC N SPAN CLEANERS	127 W MERCER ST	EDR Hist Cleaner	Lower	612, 0.116, SW
J64	FIRST AVENUE NORTH S	530 1ST AVE N	EDR Hist Cleaner	Lower	621, 0.118, SE
K65	UPTOWN BAKERY FORMER	519-521 QUEEN ANNE A	WA HSL, WA CSCSL, WA VCP, WA ALLSITES, FINDS	Lower	626, 0.119, South
M66	EASTER SEALS	200 W. MERCER ST., S	WA SWRCY	Lower	636, 0.120, WSW
M67	SCOTT ROGER STEPHEN	200 W MERCER ST	EDR Hist Auto	Lower	636, 0.120, WSW
68	US DOJ DEA WEST MERC	220 W MERCER STE 104	WA ALLSITES, RCRA NonGen / NLR, FINDS, ECHO	Lower	748, 0.142, WSW
N69	QUEEN ANNE TOWER	620 WARREN AVENUE N	WA UST, WA ALLSITES	Lower	779, 0.148, ESE
O70	TEXACO PRO INVESTMEN	150 MERCER ST.	WA ICR	Lower	844, 0.160, ESE
O71	WILLIAM ARNOLD	150 MERCER	WA HSL, WA CSCSL, WA LUST, WA UST, WA ALLSITES	Lower	844, 0.160, ESE
N72	SEATTLE CITY POWER C	157 ROY ST	WA UST, FINDS	Lower	846, 0.160, East
N73	SEATTLE POWER CONTRO	157 ROY ST	WA LUST, WA ICR, WA ALLSITES, WA CSCSL NFA, WA...	Lower	846, 0.160, East
P74	HELENAS QUEEN ANNE C	535 WARREN AVE N	WA ALLSITES, RCRA NonGen / NLR, FINDS, ECHO, WA...	Lower	867, 0.164, SE
O75	SEATTLE REPERTORY TH	155 MERCER ST	WA ALLSITES, RCRA NonGen / NLR, FINDS, ECHO	Lower	869, 0.165, ESE
P76	PANDA PHOTOGRAPHIC L	533 WARREN AVE N	WA ALLSITES, RCRA NonGen / NLR, FINDS, ECHO	Lower	877, 0.166, SE
77	WARD APARTMENTS	105 WARD ST	WA ALLSITES, RCRA NonGen / NLR, FINDS, ECHO	Higher	995, 0.188, NNE
Q78	SEATTLE CENTER 5.5 B	621 2ND AVE N	WA ALLSITES, RCRA NonGen / NLR	Lower	1003, 0.190, East

MAPPED SITES SUMMARY

Target Property Address:  
631 QUEEN ANNE AVENUE NORTH  
SEATTLE, WA 98119

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MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
R79	QUEEN ANNE AUTO BODY	420 QUEEN ANNE N	WA ALLSITES	Lower	1006, 0.191, South
R80	QUEEN ANNE AUTO BODY	420 QUEEN ANNE AVE N	RCRA NonGen / NLR, FINDS, ECHO	Lower	1006, 0.191, South
S81	US POSTAL SERVICE QU	415 1ST AVE. N.	WA ICR	Lower	1026, 0.194, SSE
S82	USPS QUEEN ANNE	415 1ST AVE N	WA LUST, WA UST, WA VCP, WA ALLSITES, WA CSCSL NFA	Lower	1026, 0.194, SSE
83	FILM STOP	508 3RD AVE W	WA ALLSITES, RCRA NonGen / NLR, FINDS, ECHO	Lower	1038, 0.197, SW
T84	HARRISON STREET HOLD	223 W REPUBLICAN	WA ALLSITES, WA MANIFEST	Lower	1091, 0.207, SW
T85	HARRISON STREET HOLD	223 W REPUBLICAN	RCRA NonGen / NLR	Lower	1091, 0.207, SW
Q86	SEATTLE OPERA PARKIN	620 2ND AVE N	WA CSCSL, WA ALLSITES	Lower	1098, 0.208, East
U87	WA UW QUEEN ANNE	401 QUEEN ANNE AVE N	RCRA-CESQG, WA ALLSITES, WA MANIFEST	Lower	1113, 0.211, South
U88	WA UW QUEEN ANNE	401 QUEEN ANNE AVE N	RCRA NonGen / NLR, FINDS, ECHO	Lower	1113, 0.211, South
89	MARTIN SELIG REAL ES	408 1ST AVE W	WA UST, WA ALLSITES	Lower	1125, 0.213, South
V90	US DEPT OF JUSTICE D	400 SECOND AVENUE MI	WA MANIFEST	Lower	1130, 0.214, SSW
V91	US DEPT OF JUSTICE D	400 2ND AVE MIDFIELD	WA ALLSITES	Lower	1130, 0.214, SSW
V92	US DEPT OF JUSTICE D	400 SECOND AVE MIDFI	RCRA NonGen / NLR	Lower	1130, 0.214, SSW
93	WASHINGTON STATE MAR	100 W HARRISON ST	WA ALLSITES	Lower	1238, 0.234, South
94	FRANK PANTLYS AUTO R	225 ROY ST	WA ALLSITES, RCRA NonGen / NLR, FINDS, ECHO	Lower	1294, 0.245, East
95	WESTERN PUBLISHER SE	414 3RD AVE W	WA ALLSITES, RCRA NonGen / NLR, FINDS, ECHO, WA...	Lower	1310, 0.248, SW
96	SIMPSON HOUSING COMP	123 W. HARRISON	WA ICR	Lower	1340, 0.254, SSW
W97	SPRINGS PRINTING INC	425 3RD AVE W	WA ALLSITES, RCRA NonGen / NLR, FINDS, ECHO, NY...	Lower	1347, 0.255, SW
W98	NORTH PACIFIC XRAY C	423 3RD AVE W	WA ALLSITES, RCRA NonGen / NLR, FINDS, ECHO	Lower	1362, 0.258, SW
99	REPUBLICAN APARTMENT	323 W REPUBLICAN ST	WA LUST, WA ICR, WA ALLSITES, WA CSCSL NFA	Lower	1422, 0.269, SW
X100	SEATTLE CENTER	305 HARRISON	WA CSCSL, WA LUST, WA UST, WA ALLSITES, FTTS, WA...	Lower	1446, 0.274, SSE
X101	FUN FOREST RIDE SHOP	305 HARRISON ST RIDE	WA ALLSITES, RCRA NonGen / NLR	Lower	1446, 0.274, SSE
X102	ARMORY	305 HARRISON ST.	WA ALLSITES, WA ASBESTOS	Lower	1446, 0.274, SSE
Y103	SEATTLE CENTER ARENA	334 1ST AVE N	WA ALLSITES, WA NPDES	Lower	1463, 0.277, SSE
104	PACIFIC BIOMETRICS I	220 W HARRISON ST	WA ALLSITES, RCRA NonGen / NLR, WA ASBESTOS	Lower	1478, 0.280, SW
Y105	ASTRO APARTMENTS	315 1ST AVE N	WA CSCSL, WA ALLSITES, WA SPILLS	Lower	1491, 0.282, SSE
106	ADSCO PRINTING	315 1ST AVE W	WA ALLSITES, RCRA NonGen / NLR, FINDS, ECHO	Lower	1507, 0.285, SSW
107	UPTOWN FLATS QUEEN A	300 1ST AVE W	WA CSCSL, WA ALLSITES	Lower	1527, 0.289, South
108	CITY OF SEATTLE - ME	W. MERCER ST. & 5TH	WA ICR	Lower	1553, 0.294, WSW
109	ODEN INVESTMENT COND	619 5TH AVE W	WA HSL, WA CSCSL, WA LUST, WA UST, WA ALLSITES	Lower	1582, 0.300, West
110	MOUNTAINEERS MEANY S	300 3RD AVE	WA UST, WA VCP, WA ALLSITES, WA CSCSL NFA, FINDS	Lower	1707, 0.323, SSW
111	SEAVIEW CONDOMINIUM	519 W ROY ST	WA ALLSITES, FINDS, ECHO, WA MANIFEST	Lower	1727, 0.327, West
112	ELLIOTT TIRE CENTER	444 ELLIOTT AVE W	WA UST, WA ALLSITES, WA MANIFEST	Lower	1799, 0.341, WSW
Z113	PHASERX PHARMACEUTIC	410 W HARRISON STE 3	WA ALLSITES, WA MANIFEST	Lower	1821, 0.345, SW
Z114	GILEAD SCIENCES INC	410 W HARRISON ST 2N	WA CSCSL, WA ALLSITES, WA ASBESTOS, WA MANIFEST	Lower	1821, 0.345, SW
115	SKYLINE ELECTRIC MFG	203 W THOMAS ST	WA ALLSITES, RCRA NonGen / NLR, FINDS, ECHO, WA...	Lower	1828, 0.346, SSW
AA116	ELLIOTT BAY OFFICE P	300 ELLIOTT AVE W.	WA ICR, WA ASBESTOS	Lower	1845, 0.349, SW
AA117	ELLIOTT BAY OFFICE P	300 ELLIOTT AVE W	WA LUST, WA VCP, WA ALLSITES, WA CSCSL NFA, FINDS	Lower	1845, 0.349, SW

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AB118	500 ELLIOT AVE SEATT	500 ELLIOT AVE	WA UST, WA ALLSITES	Lower	1866, 0.353, WSW
AA119	SR99 NORTH ACCESS CO	INTERSECTION OF THOM	WA ALLSITES	Lower	1887, 0.357, SSW
AC120	401 ELLIOTT BUILDING	401 ELLIOTT AVE W	WA LUST, WA VCP, WA ALLSITES, WA CSCSL NFA, FINDS	Lower	1911, 0.362, SW
AC121	HENRY BACON BUILDING	401 ELLIOTT AVE. W.	WA ICR	Lower	1911, 0.362, SW
Z122	HENRY BACON BUILDING	351 ELLIOT AVE. W.	WA ICR	Lower	1914, 0.363, SW
AA123	COLEMAN CROSSING	333 ELLIOTT AVE.	WA ICR	Lower	1920, 0.364, SW
AA124	COLEMAN CREOSOTING W	333 ELLIOTT AVE W	WA HSL, WA CSCSL, WA ALLSITES	Lower	1920, 0.364, SW
AA125	COLEMAN CREOSOTE PRO	333 ELLIOTT AVE W	US BROWNFIELDS, FINDS	Lower	1920, 0.364, SW
AA126	333 ELLIOTT AVE W SI	333 ELLIOTT AVE W	SEMS-ARCHIVE	Lower	1920, 0.364, SW
AD127	FIRST WEST INVESTMEN	200 1ST AVE W ENTIRE	WA ALLSITES	Lower	1970, 0.373, South
AD128	ANACOMP INC 1ST	200 1ST AVE W STE 10	WA ALLSITES, RCRA NonGen / NLR, FINDS, ECHO	Lower	1970, 0.373, South
AB129	WTD - ELLIOTT WEST /	545 ELLIOTT AVE W	WA UST, WA ALLSITES, WA SPILLS	Lower	1974, 0.374, WSW
130	DENNY WESTER ELLIOTT	DENNY WESTER ELLIOTT	WA ALLSITES	Lower	1991, 0.377, SSW
131	BLACKSTOCK PROPRTIE	501 ELLIOTT AVE W	WA ALLSITES, RCRA NonGen / NLR, FINDS, ECHO	Lower	2038, 0.386, WSW
132	PACIFIC SCIENCE CENT	200 2ND AVE N	WA CSCSL, WA LUST, WA ALLSITES, WA SPILLS, RCRA...	Lower	2044, 0.387, SSW
AE133	UEKI CORP	600-614 ELLIOTT AVE	WA LUST, WA VCP, WA ALLSITES, WA CSCSL NFA	Lower	2072, 0.392, West
134	BLACKSTOCK LUMBER	601 ELLIOTT AVE W	WA CSCSL, WA LUST, WA INST CONTROL, WA VCP, WA...	Lower	2080, 0.394, WSW
AF135	SEATTLE PUBLIC UTILI	110 LEE ST TANKS ONL	WA ALLSITES, WA MANIFEST	Higher	2092, 0.396, NNE
AF136	SEATTLE FIRE STATION	110 LEE ST	WA LUST, WA UST, WA ALLSITES, WA CSCSL NFA	Higher	2092, 0.396, NNE
AF137	CITY OF SEATTLE - FI	110 LEE ST.	WA ICR	Higher	2092, 0.396, NNE
AE138	UEKI AMERICA CORP AC	602 ELLIOTT AVE W	WA UST, WA ALLSITES, RCRA NonGen / NLR, FINDS,...	Lower	2131, 0.404, West
AG139	133 QUEEN ANNE AVE N	133 QUEEN ANNE AVE N	WA LUST, WA UST, WA ICR, WA VCP, WA ALLSITES, WA...	Lower	2150, 0.407, South
AH140	ELLIOT & MERCER BUIL	610 ELLIOTT AVE S	WA UST, WA ALLSITES	Lower	2172, 0.411, West
AI141	IMMUNEX CORPORATION	201 ELLIOTT AVE W ST	WA ALLSITES, RCRA NonGen / NLR	Lower	2172, 0.411, SSW
AI142	GENETIC SYSTEMS CORP	201 ELLIOTT AVE W	WA ALLSITES	Lower	2172, 0.411, SSW
AI143	BIOMEMBRANE INSTITUT	201 ELLIOTT AVE W ST	WA ALLSITES	Lower	2172, 0.411, SSW
AI144	NANOSTRING TECHNOLOGI	201 ELLIOTT AVE W ST	WA ALLSITES	Lower	2172, 0.411, SSW
AI145	FRED HUTCHINSON CANC	201 ELLIOTT AVE W ST	WA ALLSITES	Lower	2172, 0.411, SSW
AI146	CHIRON CORPORATION	201 ELLIOTT AVE W ST	WA ALLSITES, RCRA NonGen / NLR, FINDS, ECHO, WA...	Lower	2172, 0.411, SSW
AI147	CELL THERAPEUTICS IN	201 ELLIOTT AVE W ST	WA ALLSITES, RCRA NonGen / NLR, FINDS, ECHO, NY...	Lower	2172, 0.411, SSW
AH148	614 ELLIOTT AVE W	614 ELLIOTT AVE W	WA ALLSITES, RCRA NonGen / NLR	Lower	2179, 0.413, West
AH149	UEKI CORP	614 ELLIOTT AVE W	WA UST, WA ICR	Lower	2179, 0.413, West
150	BAY VIEW BLDG	129 1ST AVE W	WA VCP, WA ALLSITES, WA CSCSL NFA, FINDS	Lower	2203, 0.417, South
AG151	BARRAT TRANSFER & ST	123 QUEEN AVE N PO B	WA LUST, WA UST, WA ICR, WA ALLSITES, WA CSCSL NFA	Lower	2240, 0.424, South
152	SEATTLE CITY LIGHT Q	1417 WARREN AVE N	WA ALLSITES, RCRA NonGen / NLR, FINDS, ECHO	Higher	2283, 0.432, NNE
AJ153	TEXACO #63076 0400	630 ELLIOTT AVE. W.	WA ICR	Lower	2292, 0.434, West
AJ154	SHELL STATION 121456	630 ELLIOTT AVE W	WA LUST, WA VCP, WA ALLSITES, WA CSCSL NFA, RCRA...	Lower	2292, 0.434, West
AK155	STANDISH PROPERTY	420 MERCER ST.	WA ICR	Lower	2317, 0.439, East
AK156	MYLES STANDISH	420 MERCER ST	WA CSCSL, WA LUST, WA UST, WA ALLSITES	Lower	2317, 0.439, East

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157	ACCURATE SAFE LOCK C	815 5TH AVE N	WA ALLSITES, RCRA NonGen / NLR, FINDS, ECHO	Lower	2357, 0.446, ENE
158	TERRY DENNY BUILDING	113 1ST AVE S	WA ALLSITES, RCRA NonGen / NLR, FINDS, ECHO, WA...	Lower	2372, 0.449, South
AL159	CHEVRON FACILITY 600	1417 QUEEN ANNE AVE	WA LUST, WA UST, WA ALLSITES, WA CSCSL NFA, RCRA...	Higher	2377, 0.450, North
AL160	CHEVRON #60096786 (T	1417 QUEEN ANNE AVE.	WA ICR	Higher	2377, 0.450, North
AK161	CITY OF SEATTLE-MERC	5TH AVE. N. & MERCER	WA ICR	Lower	2380, 0.451, East
162	UNOCAL MYRTLE EDWARD	3130 ALASKAN WAY W	WA CSCSL, WA ALLSITES	Lower	2384, 0.452, SSW
163	SEATTLE CENTER	305 HARRISON STREET	RCRA-CESQG, WA ICR, ICIS, US AIRS, FINDS, ECHO, WA...	Lower	2390, 0.453, SE
AM164	SABEY CORP SEATTLE	101 ELLIOTT AVE W ST	WA ALLSITES, RCRA NonGen / NLR, FINDS, ECHO	Lower	2402, 0.455, SSW
AM165	VERIZON WIRELESS WAR	101 ELLIOTT AVE W	WA ALLSITES, WA SPILLS	Lower	2402, 0.455, SSW
AN166	DARIGOLD INC SEATTLE	635 ELLIOTT AVE W	WA CSCSL, WA LUST, WA UST, WA ICR, WA VCP, WA...	Lower	2435, 0.461, West
AO167	SEATTLE CITY SEATTLE	520 5TH AVE. N.	WA ICR	Lower	2446, 0.463, ESE
AO168	MERCER OPERATING BAS	520 5TH AVE N	WA CSCSL, WA LUST, WA UST, WA ALLSITES	Lower	2446, 0.463, ESE
169	TOOL TOWN	652 ELLIOTT AVE W	WA LUST, WA UST, WA ICR, WA ALLSITES, WA CSCSL NFA	Lower	2449, 0.464, West
170	7 ELEVEN STORE 14392	9 NICKERSON & QUEEN	WA ALLSITES, FINDS	Higher	2452, 0.464, NE
AP171	SHELL STATION 121702	10 DENNY WAY	WA LUST, RCRA NonGen / NLR, FINDS, ECHO, WA...	Lower	2456, 0.465, South
AP172	TEXACO #63 232 0064	10 DENNY WAY	WA ICR	Lower	2456, 0.465, South
AP173	JACKSONS 654	10 DENNY WAY	WA UST, WA VCP, WA ALLSITES, WA CSCSL NFA	Lower	2456, 0.465, South
174	HOBBS HILLTOP AUTOMO	205 W GALER ST	WA UST, WA ALLSITES, RCRA NonGen / NLR, FINDS,...	Higher	2504, 0.474, NNW
175	SEATTLE SCHOOL DIST	401 5TH AVE N	WA ALLSITES, RCRA NonGen / NLR, FINDS, ECHO	Lower	2515, 0.476, ESE
AN176	AMNIS	645 ELLIOTT AVE W ST	WA ALLSITES, WA MANIFEST	Lower	2523, 0.478, West
AN177	AMNIS SEATTLE	645 ELLIOTT AVE W ST	WA ALLSITES	Lower	2523, 0.478, West
178	FISHER BROADCASTING	157 GALER ST	WA UST, WA ALLSITES, FINDS	Higher	2528, 0.479, NNE
179	CHAMPION TEUTSCH PRO	124 DENNY WAY	WA CSCSL, WA VCP, WA ALLSITES, WA ASBESTOS	Lower	2532, 0.480, SSE
AQ180	KING COUNTY SECURE M	500 MERCER ST	WA SWRCY	Lower	2537, 0.480, East
AQ181	TOWER RECORDS FORMER	500 MERCER	WA VCP, WA ALLSITES, WA CSCSL NFA, FINDS	Lower	2537, 0.480, East
182	S EPA H INC	150 DENNY WAY	WA ALLSITES, RCRA NonGen / NLR, FINDS, ECHO	Lower	2559, 0.485, SSE
183	JAS B J BACKER	100 W GALER ST	WA UST, WA ALLSITES	Higher	2561, 0.485, North
184	SEATTLE CITY OF	700 5TH AVE 2748	WA ALLSITES, WA ASBESTOS	Lower	2583, 0.489, East
185	DIAMOND PARKING INC	3161 ELLIOTT AVE	WA UST, WA ALLSITES, FINDS	Lower	2606, 0.494, South
186	IVARS SEAFOOD BAR	3101 1ST AVE	WA VCP, WA ALLSITES, WA CSCSL NFA	Lower	2613, 0.495, South
187	WY EAST COLOR INC	517 ALOHA ST	WA ALLSITES, RCRA NonGen / NLR, FINDS, ECHO	Lower	2628, 0.498, ENE
188	ABC TOWING RYDER TRU	707 TAYLOR	WA HSL, WA CSCSL, WA LUST, WA UST, WA ALLSITES	Lower	2654, 0.503, East
189	NONE	101 DENNY WAY	WA CSCSL, WA ALLSITES, WA ASBESTOS	Lower	2657, 0.503, SSE
190	KING COUNTY DENNY WA	3165 ALASKAN WAY	WA CSCSL, WA ALLSITES	Lower	2695, 0.510, SSW
191	UNION OIL 0355	159 DENNY WAY	WA CSCSL, WA LUST, WA UST, WA ALLSITES, WA PTAP	Lower	2726, 0.516, SSE
192	BASIL LEE PROPERTY	505 HARRISON ST	WA CSCSL, WA LUST, WA UST, WA ALLSITES, WA...	Lower	2773, 0.525, ESE
193	RIDE THE DUCKS	516 BROAD ST	WA CSCSL, WA ALLSITES	Lower	2868, 0.543, ESE
194	UNOCAL ELLIOTT AVE N	ELLIOTT AVE & BAY ST	WA CSCSL, WA ALLSITES	Lower	2882, 0.546, South
195	GRAPHICOLOR INC	3018 WESTERN AVE	WA CSCSL, WA LUST, WA UST, WA INST CONTROL, WA...	Lower	2935, 0.556, South

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196	LEATHER CARE INC	901 ELLIOTT AVE W	WA CSCSL, WA ALLSITES, RCRA NonGen / NLR, FINDS,...	Lower	2977, 0.564, West
197	PCY CORP	601 6TH AVE N	WA CSCSL, WA LUST, WA UST, WA ALLSITES	Lower	2986, 0.566, East
198	FIFTH & BROAD PROPER	417 BROAD ST	WA CSCSL, WA LUST, WA VCP, WA ALLSITES, WA...	Lower	2987, 0.566, SE
199	UNOCAL SEATTLE MARKE	BN ELLIOTT RR BAY &	WA HSL, WA CSCSL, WA ALLSITES	Lower	3231, 0.612, South
200	MARYATT INDUSTRIES	771 VALLEY ST	WA CSCSL, WA ALLSITES, RCRA NonGen / NLR, FINDS,...	Lower	3240, 0.614, East
201	UNOCAL SEATTLE MARKE	BROAD ST & WESTERN A	WA HSL, WA CSCSL, WA INST CONTROL, WA ALLSITES	Lower	3314, 0.628, South
202	CIVIC HOTEL	325 AURORA AVE N	RCRA-LQG, WA CSCSL, WA ALLSITES, FINDS, ECHO, WA...	Lower	3505, 0.664, ESE
203	TAYLOR & DENNY BUILD	101 TAYLOR AVE N	WA CSCSL, WA VCP, WA ALLSITES	Lower	3539, 0.670, SE
204	SEATTLE DOT DEXTER P	615 DEXTER AVE N	WA CSCSL, WA ALLSITES	Lower	3623, 0.686, East
205	FAULKENBURY AND WRIG	501 DENNY WAY	WA CSCSL, WA ALLSITES, RCRA NonGen / NLR, FINDS,...	Lower	3659, 0.693, SE
206	EDWARDS ON FIFTH	2619 5TH AVE	WA HSL, WA CSCSL, WA ALLSITES	Lower	3676, 0.696, SE
207	SEATTLE SCHOOL DIST	810 DEXTER AVE N	WA CSCSL, WA LUST, WA UST, WA ALLSITES, RCRA...	Lower	3734, 0.707, East
208	MARTIN SELIG PROPERT	2601 4TH AVE	WA HSL, WA CSCSL, WA ALLSITES	Lower	3745, 0.709, SE
209	AMERICAN LINEN SUPPL	700 DEXTER AVE N	WA CSCSL, WA ALLSITES, WA SPILLS, WA DRYCLEANERS,...	Lower	3775, 0.715, East
210	NEPTUNE APARTMENTS P	900 DEXTER AVE N	WA CSCSL, WA INST CONTROL, WA ALLSITES, FINDS	Lower	3789, 0.718, ENE
211	ELLIOTT & BROAD	10 BROAD ST	WA CSCSL, WA ALLSITES	Lower	3809, 0.721, South
212	DEXTER OFFICE BUILDI	400 DEXTER AVE N	WA CSCSL, WA VCP, WA ALLSITES, WA ASBESTOS, WA...	Lower	3878, 0.734, ESE
213	SEATTLE DOT MERCER P	800 MERCER ST	WA CSCSL, WA ALLSITES	Lower	3962, 0.750, East
214	PIER 86 RAILCAR PROG	955 ALASKAN WAY W	WA CSCSL, WA ALLSITES	Lower	3970, 0.752, WNW
215	ROY ST SHOPS 89	802 ROY ST	WA CSCSL, WA LUST, WA UST, WA ALLSITES	Lower	3974, 0.753, East
216	SKYE BUILDING	500 WALL STREET	WA CSCSL, WA ALLSITES, WA SPILLS, WA ASBESTOS	Lower	3994, 0.756, SE
217	600 WALL STREET	600 WALL ST	WA CSCSL, WA ALLSITES	Lower	4057, 0.768, SE
AR218	SEATTLE LIGHTING CO	1123 ELLIOT AVE W	EDR MGP	Lower	4105, 0.777, WNW
AR219	FORMER BAY STATION S	1123 ELLIOT AVE. W.	WA HSL, WA CSCSL, WA ALLSITES, WA ASBESTOS	Lower	4105, 0.777, WNW
220	WASHINGTON NATURAL G	815 MERCER ST	EDR MGP	Lower	4157, 0.787, East
221	BURGER KING ELLIOTT	1154 ELLIOTT AVE W	WA HSL, WA CSCSL, WA ALLSITES, WA SPILLS, FINDS	Lower	4171, 0.790, WNW
AS222	SEATTLE MOTOR SPORTS	701 9TH AVE N	WA CSCSL, WA ALLSITES, RCRA NonGen / NLR, FINDS,...	Lower	4189, 0.793, East
223	DANIEL BOONE PAINT C	1401 DEXTER AVE N	SEMS-ARCHIVE, WA CSCSL, WA LUST, WA UST, WA VCP,...	Lower	4221, 0.799, ENE
224	MAACO AUTO PAINTING	739 9TH AVE N	WA CSCSL, WA VCP, WA ALLSITES, RCRA NonGen / NLR,...	Lower	4272, 0.809, East
225	IVEY IMAGING LLC	427 9TH AVE N	WA CSCSL, WA VCP, WA ALLSITES, RCRA NonGen / NLR,...	Lower	4300, 0.814, ESE
AS226	SEATTLE CITY DOT ROW	710 9TH AVE N	WA CSCSL, WA ALLSITES	Lower	4304, 0.815, East
AT227	WESTLAKE PROPERTIES	1105 1111 1121 1207	WA CSCSL, WA LUST, WA ALLSITES, WA CSCSL NFA, WA...	Lower	4306, 0.816, ENE
AT228	WESTLAKE BUILDING	1219 WESTLAKE AVE N	WA CSCSL, WA LUST, WA UST, WA ICR, WA ALLSITES	Lower	4306, 0.816, ENE
229	WESTLAKE STEPS HOLLA	1231 WESTLAKE AVE N	WA CSCSL, WA ALLSITES	Lower	4356, 0.825, ENE
230	ANALYTICAL RESOURCES	333 9TH AVE N	WA CSCSL, WA ALLSITES, RCRA NonGen / NLR, FINDS,...	Lower	4458, 0.844, ESE
AU231	SEATTLE AUTO CENTER	601 WESTLAKE AVE N	WA CSCSL, WA LUST, WA VCP, WA ALLSITES, WA SPILLS	Lower	4591, 0.870, East
232	SEATTLE FIRE STATION	2334 4TH AVE	WA CSCSL, WA LUST, WA UST, WA ICR, WA ALLSITES, WA...	Lower	4603, 0.872, SE
AU233	AUTO SERVICE COMPANY	630 WESTLAKE AVE N	WA HSL, WA CSCSL, WA LUST, WA UST, WA ALLSITES,...	Lower	4629, 0.877, East
AU234	CONOCOPHILLIPS COMPA	600 WESTLAKE N	WA CSCSL, WA UST, WA VCP, WA ALLSITES	Lower	4632, 0.877, East

MAPPED SITES SUMMARY

Target Property Address:  
631 QUEEN ANNE AVENUE NORTH  
SEATTLE, WA 98119

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">235</a>	HOLMAN BODY AND FEND	2324 2ND AVE	WA HSL, WA CSCSL, WA LUST, WA UST, WA ALLSITES	Lower	4733, 0.896, SE
<a href="#">236</a>	FIRESTONE 31A9	400 WESTLAKE AVE N	WA CSCSL, WA LUST, WA UST, WA ALLSITES, WA...	Lower	4766, 0.903, ESE
<a href="#">237</a>	WA UW ROSEN BLDG	960 REPUBLICAN ST	WA CSCSL, WA LUST, WA VCP, WA ICR, WA ALLSITES,...	Lower	4839, 0.916, East
<a href="#">238</a>	PHOM PROPERTY	2301 4TH AVE	WA HSL, WA CSCSL, WA LUST, WA UST, WA ALLSITES	Lower	4881, 0.924, SE
<a href="#">239</a>	BLOCK 40 EAST & WEST	320 WESTLAKE AVE N	WA CSCSL, WA ALLSITES, FINDS	Lower	4887, 0.926, ESE
<a href="#">240</a>	SECOND & BELL BUILDI	2306 2ND AVE	WA CSCSL, WA VCP, WA ALLSITES, WA MANIFEST	Lower	4937, 0.935, SE
<a href="#">241</a>	GREILING PROPERTY	222 WESTLAKE AVE N	WA CSCSL, WA ALLSITES	Lower	4987, 0.945, ESE
<a href="#">242</a>	BLOCK 32 NORTH BLDG	1001 & 1021 MERCER S	WA CSCSL, WA ALLSITES	Lower	5026, 0.952, East
<a href="#">243</a>	IVAR S COMMISSARY	500 TERRY AVE N	WA HSL, WA CSCSL, WA LUST, WA UST, WA ICR, WA...	Lower	5036, 0.954, East
<a href="#">AV244</a>	202 WESTLAKE OFFICE	202 WESTLAKE AVE N	WA CSCSL, WA LUST, WA UST, WA VCP, WA ALLSITES	Lower	5052, 0.957, ESE
<a href="#">245</a>	LAKE UNION III	410 TERRY N 415 BORE	WA CSCSL, WA ALLSITES, WA MANIFEST	Lower	5053, 0.957, ESE
<a href="#">246</a>	ATT MOBILITY INTERBA	1465 ELLIOTT AVE W	WA CSCSL, WA ALLSITES, WA SPILLS, WA ASBESTOS	Lower	5099, 0.966, WNW
<a href="#">AV247</a>	SEATTLE CITY ROW BEH	ALLEY 222 WESTLAKE &	WA CSCSL, WA ALLSITES	Lower	5126, 0.971, ESE
<a href="#">248</a>	SEATTLE CITY SOUTH L	860 TERRY AVE N	WA CSCSL, WA INST CONTROL, WA ALLSITES, WA SPILLS,.	Lower	5130, 0.972, East
<a href="#">249</a>	SEATTLE CITY PARKS N	1002 VALLEY ST	WA CSCSL, WA ALLSITES	Lower	5154, 0.976, East
<a href="#">250</a>	TEXACO 63-232-0400	601 BOREN AVE N	WA CSCSL, WA LUST, WA UST, WA ALLSITES, WA...	Lower	5164, 0.978, East
<a href="#">251</a>	UNITED FURNITURE REF	219 TERRY AVE N	WA CSCSL, WA ALLSITES	Lower	5201, 0.985, ESE
<a href="#">252</a>	AARON FINE DRY CLEAN	2402 QUEEN ANNE AVE	WA CSCSL, WA ICR, WA SWRCY, WA ALLSITES, RCRA...	Higher	5202, 0.985, North
<a href="#">253</a>	MOXY HOTEL	1016 REPUBLICAN ST	WA CSCSL, WA ALLSITES	Lower	5209, 0.987, East
<a href="#">254</a>	525 BOREN BUILDING	525 BOREN AVE N	WA CSCSL, WA VCP, WA ALLSITES	Lower	5217, 0.988, East
<a href="#">255</a>	KENNEY PROPERTY	100 WESTLAKE AVE N	WA CSCSL, WA LUST, WA VCP, WA ALLSITES, FINDS	Lower	5261, 0.996, ESE

## EXECUTIVE SUMMARY

### TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
MCCARTY S TEXACO SER 631 QUEEN ANNE AVE SEATTLE, WA	EDR Hist Auto	N/A
YOUNG H YOO 631O QUEEN ANNE AVE SEATTLE, WA	WA RGA LUST Facility ID: 100599 Facility ID: 100599.0	N/A
YOUNG H YOO 631 QUEEN ANNE AVE N SEATTLE, WA	WA RGA LUST Facility ID: 2869 Facility ID: 100599	N/A
MCCARTY S TEXACO SER 631 OUEEN ANNE AVE N SEATTLE, WA	EDR Hist Auto	N/A
YOUNG H YOO 631 QUEEN ANNE AVE N SEATTLE, WA 98109	WA LUST Database: LUST, Date of Government Version: 05/13/2019 Facility Status: LUST - Cleanup Started Cleanup Site ID: 6663 Facility ID: 77774779  WA UST Site Id: 100599 Facility ID: 77774779  WA MANIFEST Facility Site ID Number: 77774779 Gen Status CD: XQG EPA ID: WAD988483384	N/A
YOUNG H YOO 631 QUEEN ANNE AVE SEATTLE, WA	WA RGA LUST Facility ID: 100599	N/A
TEXACO DOWNSTREAM 21 631 QUEEN ANNE AVE N SEATTLE, WA	WA RGA HWS Facility ID: 77774779	N/A
TEXACO DOWNSTREAM 21 631 QUEEN ANNE AVE N SEATTLE, WA	WA RGA LUST	N/A

## EXECUTIVE SUMMARY

Facility ID: 77774779

TEXACO DOWNSTREAM 21  
631 QUEEN ANNE AVE N  
SEATTLE, WA 98109

WA CSCSL  
Site Status: Cleanup Started  
Facility ID: 77774779  
Clean Up Siteid: 6663

WAD988483384

WA VCP  
Facility ID: 77774779  
Cleanup Siteid: 6663

WA ALLSITES  
Facility Id: 77774779

RCRA NonGen / NLR  
EPA ID:: WAD988483384

FINDS  
Registry ID:: 110005358709

ECHO  
Registry ID: 110005358709

WA MANIFEST  
Facility Site ID Number: 77774779  
Gen Status CD: XQG  
Gen Status CD: LQG  
Gen Status CD: MQG  
Gen Status CD: SQG  
EPA ID: WAD988483384

MANHATTAN EXPRESS  
631 QUEEN AVE N  
SEATTLE, WA 98109

EDR Hist Auto

N/A

TEXACO #211577  
631 QUEEN ANNE AVE.  
SEATTLE, WA 98109

WA ICR

N/A

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

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

## EXECUTIVE SUMMARY

### STANDARD ENVIRONMENTAL RECORDS

#### ***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE: A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 04/11/2019 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
333 ELLIOTT AVE W SI Site ID: 1001943 EPA Id: WA0001645381	333 ELLIOTT AVE W	SW 1/4 - 1/2 (0.364 mi.)	AA126	44

#### ***Federal RCRA generators list***

RCRA-LQG: A review of the RCRA-LQG list, as provided by EDR, and dated 03/25/2019 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CVS PHARMACY 10331 EPA ID:: WAH000051580	531 QUEEN ANNE AVE N	S 0 - 1/8 (0.081 mi.)	E46	19

RCRA-CESQG: A review of the RCRA-CESQG list, as provided by EDR, and dated 03/25/2019 has revealed that there are 2 RCRA-CESQG sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SAFEWAY STORE 1885 EPA ID:: WAH000045138	516 1ST AVE W	SSW 0 - 1/8 (0.113 mi.)	L60	23
<b>WA UW QUEEN ANNE</b> EPA ID:: WAD988507703	<b>401 QUEEN ANNE AVE N</b>	<b>S 1/8 - 1/4 (0.211 mi.)</b>	<b>U87</b>	<b>31</b>

#### ***State- and tribal - equivalent NPL***

WA HSL: A review of the WA HSL list, as provided by EDR, and dated 02/27/2019 has revealed that there are 18 WA HSL sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>UNOCAL 306566</b> Facility Type: Hazardous Sites List FSID Number: 59972834 Facility Status: Cleanup Started	<b>700 QUEEN ANNE AVE N</b>	<b>NE 0 - 1/8 (0.034 mi.)</b>	<b>B21</b>	<b>12</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>MONTEREY APARTMENTS</b>	<b>622 1ST AVE W &amp; QUEE</b>	<b>WSW 0 - 1/8 (0.041 mi.)</b>	<b>23</b>	<b>13</b>

## EXECUTIVE SUMMARY

Facility Type: Hazardous Sites List FSID Number: 2047 Facility Status: CC-Perf. Monitoring				
<b>QUEEN ANNE PROPRTIE</b>	<b>541 QUEEN ANNE AVE N</b>	<b>S 0 - 1/8 (0.080 mi.)</b>	<b>E43</b>	<b>18</b>
Facility Type: Hazardous Sites List FSID Number: 46659536 Facility Status: Cleanup Started				
<b>UPTOWN BAKERY FORMER</b>	<b>519-521 QUEEN ANNE A</b>	<b>S 0 - 1/8 (0.119 mi.)</b>	<b>K65</b>	<b>24</b>
Facility Type: Hazardous Sites List FSID Number: 6136999 Facility Status: Cleanup Started				
<b>WILLIAM ARNOLD</b>	<b>150 MERCER</b>	<b>ESE 1/8 - 1/4 (0.160 mi.)</b>	<b>O71</b>	<b>26</b>
Facility Type: Hazardous Sites List FSID Number: 25287143 Facility Status: Cleanup Started				
<b>ODEN INVESTMENT COND</b>	<b>619 5TH AVE W</b>	<b>W 1/4 - 1/2 (0.300 mi.)</b>	<b>109</b>	<b>38</b>
Facility Type: Hazardous Sites List FSID Number: 52738943 Facility Status: Cleanup Started				
<b>COLEMAN CREOSOTING W</b>	<b>333 ELLIOTT AVE W</b>	<b>SW 1/4 - 1/2 (0.364 mi.)</b>	<b>AA124</b>	<b>43</b>
Facility Type: Hazardous Sites List FSID Number: 77732426 Facility Status: Cleanup Started				
<b>ABC TOWING RYDER TRU</b>	<b>707 TAYLOR</b>	<b>E 1/2 - 1 (0.503 mi.)</b>	<b>188</b>	<b>66</b>
Facility Type: Hazardous Sites List FSID Number: 24939396 Facility Status: Cleanup Started				
<b>UNOCAL SEATTLE MARKE</b>	<b>BN ELLIOTT RR BAY &amp;</b>	<b>S 1/2 - 1 (0.612 mi.)</b>	<b>199</b>	<b>72</b>
Facility Type: Hazardous Sites List FSID Number: 2210 Facility Status: Cleanup Started				
<b>UNOCAL SEATTLE MARKE</b>	<b>BROAD ST &amp; WESTERN A</b>	<b>S 1/2 - 1 (0.628 mi.)</b>	<b>201</b>	<b>73</b>
Facility Type: Hazardous Sites List FSID Number: 2208 Facility Status: Cleanup Started				
<b>EDWARDS ON FIFTH</b>	<b>2619 5TH AVE</b>	<b>SE 1/2 - 1 (0.696 mi.)</b>	<b>206</b>	<b>76</b>
Facility Type: Hazardous Sites List FSID Number: 55245214 Facility Status: Cleanup Started				
<b>MARTIN SELIG PROPERT</b>	<b>2601 4TH AVE</b>	<b>SE 1/2 - 1 (0.709 mi.)</b>	<b>208</b>	<b>77</b>
Facility Type: Hazardous Sites List FSID Number: 18421913 Facility Status: Cleanup Started				
<b>FORMER BAY STATION S</b>	<b>1123 ELLIOT AVE. W.</b>	<b>WNW 1/2 - 1 (0.777 mi.)</b>	<b>AR219</b>	<b>81</b>
Facility Type: Hazardous Sites List FSID Number: 5194972 Facility Status: Cleanup Started				
<b>BURGER KING ELLIOTT</b>	<b>1154 ELLIOTT AVE W</b>	<b>WNW 1/2 - 1 (0.790 mi.)</b>	<b>221</b>	<b>82</b>
Facility Type: Hazardous Sites List FSID Number: 6341214 Facility Status: Awaiting Cleanup				
<b>AUTO SERVICE COMPANY</b>	<b>630 WESTLAKE AVE N</b>	<b>E 1/2 - 1 (0.877 mi.)</b>	<b>AU233</b>	<b>88</b>



## EXECUTIVE SUMMARY

Clean Up Siteid: 8463				
<b>SEATTLE OPERA PARKIN</b>	<b>620 2ND AVE N</b>	<b>E 1/8 - 1/4 (0.208 mi.)</b>	<b>Q86</b>	<b>31</b>
Site Status: Cleanup Started				
Facility ID: 19244				
Clean Up Siteid: 13198				
<b>SEATTLE CENTER</b>	<b>305 HARRISON</b>	<b>SSE 1/4 - 1/2 (0.274 mi.)</b>	<b>X100</b>	<b>35</b>
Site Status: Cleanup Started				
Facility ID: 42937592				
Clean Up Siteid: 9151				
<b>ASTRO APARTMENTS</b>	<b>315 1ST AVE N</b>	<b>SSE 1/4 - 1/2 (0.282 mi.)</b>	<b>Y105</b>	<b>37</b>
Site Status: Cleanup Started				
Facility ID: 20034				
Clean Up Siteid: 12887				
<b>UPTOWN FLATS QUEEN A</b>	<b>300 1ST AVE W</b>	<b>S 1/4 - 1/2 (0.289 mi.)</b>	<b>107</b>	<b>38</b>
Site Status: Cleanup Started				
Facility ID: 11691				
Clean Up Siteid: 13319				
<b>ODEN INVESTMENT COND</b>	<b>619 5TH AVE W</b>	<b>W 1/4 - 1/2 (0.300 mi.)</b>	<b>109</b>	<b>38</b>
Site Status: Cleanup Started				
Facility ID: 52738943				
Clean Up Siteid: 9551				
<b>GILEAD SCIENCES INC</b>	<b>410 W HARRISON ST 2N</b>	<b>SW 1/4 - 1/2 (0.345 mi.)</b>	<b>Z114</b>	<b>40</b>
Site Status: Cleanup Started				
Facility ID: 69317824				
Clean Up Siteid: 3743				
<b>COLEMAN CREOSOTING W</b>	<b>333 ELLIOTT AVE W</b>	<b>SW 1/4 - 1/2 (0.364 mi.)</b>	<b>AA124</b>	<b>43</b>
Site Status: Cleanup Started				
Facility ID: 77732426				
Clean Up Siteid: 1841				
<b>PACIFIC SCIENCE CENT</b>	<b>200 2ND AVE N</b>	<b>SSW 1/4 - 1/2 (0.387 mi.)</b>	<b>132</b>	<b>46</b>
Site Status: Cleanup Started				
Facility ID: 2868852				
Clean Up Siteid: 12496				
<b>BLACKSTOCK LUMBER</b>	<b>601 ELLIOTT AVE W</b>	<b>WSW 1/4 - 1/2 (0.394 mi.)</b>	<b>134</b>	<b>47</b>
Site Status: Cleanup Started				
Facility ID: 2540				
Clean Up Siteid: 2544				
<b>MYLES STANDISH</b>	<b>420 MERCER ST</b>	<b>E 1/4 - 1/2 (0.439 mi.)</b>	<b>AK156</b>	<b>54</b>
Site Status: Cleanup Started				
Facility ID: 25678675				
Clean Up Siteid: 8486				
<b>UNOCAL MYRTLE EDWARD</b>	<b>3130 ALASKAN WAY W</b>	<b>SSW 1/4 - 1/2 (0.452 mi.)</b>	<b>162</b>	<b>57</b>
Site Status: Awaiting Cleanup				
Facility ID: 23180				
Clean Up Siteid: 2457				
<b>DARIGOLD INC SEATTLE</b>	<b>635 ELLIOTT AVE W</b>	<b>W 1/4 - 1/2 (0.461 mi.)</b>	<b>AN166</b>	<b>58</b>
Site Status: Cleanup Started				
Facility ID: 21722841				
Clean Up Siteid: 7070				
<b>MERCER OPERATING BAS</b>	<b>520 5TH AVE N</b>	<b>ESE 1/4 - 1/2 (0.463 mi.)</b>	<b>AO168</b>	<b>59</b>

## EXECUTIVE SUMMARY

Site Status: Cleanup Started Facility ID: 8984 Clean Up Siteid: 7394				
<b>CHAMPION TEUTSCH PRO</b>	<b>124 DENNY WAY</b>	<b>SSE 1/4 - 1/2 (0.480 mi.)</b>	<b>179</b>	<b>63</b>
Site Status: Cleanup Started Facility ID: 3860 Clean Up Siteid: 12831				
<b>ABC TOWING RYDER TRU</b>	<b>707 TAYLOR</b>	<b>E 1/2 - 1 (0.503 mi.)</b>	<b>188</b>	<b>66</b>
Site Status: Cleanup Started Facility ID: 24939396 Clean Up Siteid: 8452				
<b>NONE</b>	<b>101 DENNY WAY</b>	<b>SSE 1/2 - 1 (0.503 mi.)</b>	<b>189</b>	<b>67</b>
Site Status: Awaiting Cleanup Facility ID: 83661 Clean Up Siteid: 14751				
<b>KING COUNTY DENNY WA</b>	<b>3165 ALASKAN WAY</b>	<b>SSW 1/2 - 1 (0.510 mi.)</b>	<b>190</b>	<b>67</b>
Site Status: Cleanup Started Facility ID: 4455938 Clean Up Siteid: 2582				
<b>UNION OIL 0355</b>	<b>159 DENNY WAY</b>	<b>SSE 1/2 - 1 (0.516 mi.)</b>	<b>191</b>	<b>68</b>
Site Status: Cleanup Started Facility ID: 32873776 Clean Up Siteid: 5879				
<b>BASIL LEE PROPERTY</b>	<b>505 HARRISON ST</b>	<b>ESE 1/2 - 1 (0.525 mi.)</b>	<b>192</b>	<b>68</b>
Site Status: Cleanup Started Facility ID: 79418734 Clean Up Siteid: 10558				
<b>RIDE THE DUCKS</b>	<b>516 BROAD ST</b>	<b>ESE 1/2 - 1 (0.543 mi.)</b>	<b>193</b>	<b>69</b>
Site Status: Awaiting Cleanup Facility ID: 38992 Clean Up Siteid: 14733				
<b>UNOCAL ELLIOTT AVE N</b>	<b>ELLIOTT AVE &amp; BAY ST</b>	<b>S 1/2 - 1 (0.546 mi.)</b>	<b>194</b>	<b>69</b>
Site Status: Awaiting Cleanup Facility ID: 12120 Clean Up Siteid: 1285				
<b>GRAPHICOLOR INC</b>	<b>3018 WESTERN AVE</b>	<b>S 1/2 - 1 (0.556 mi.)</b>	<b>195</b>	<b>69</b>
Site Status: Cleanup Started Facility ID: 23682319 Clean Up Siteid: 5734				
<b>LEATHER CARE INC</b>	<b>901 ELLIOTT AVE W</b>	<b>W 1/2 - 1 (0.564 mi.)</b>	<b>196</b>	<b>70</b>
Site Status: Cleanup Started Facility ID: 35254363 Clean Up Siteid: 2855				
<b>PCY CORP</b>	<b>601 6TH AVE N</b>	<b>E 1/2 - 1 (0.566 mi.)</b>	<b>197</b>	<b>71</b>
Site Status: Cleanup Started Facility ID: 36533718 Clean Up Siteid: 8889				
<b>FIFTH &amp; BROAD PROPER</b>	<b>417 BROAD ST</b>	<b>SE 1/2 - 1 (0.566 mi.)</b>	<b>198</b>	<b>71</b>
Site Status: Cleanup Started Facility ID: 21907 Clean Up Siteid: 12242				
<b>UNOCAL SEATTLE MARKE</b>	<b>BN ELLIOTT RR BAY &amp;</b>	<b>S 1/2 - 1 (0.612 mi.)</b>	<b>199</b>	<b>72</b>

## EXECUTIVE SUMMARY

Site Status: Cleanup Started Facility ID: 2210 Clean Up Siteid: 1148				
<b>MARYATT INDUSTRIES</b>	<b>771 VALLEY ST</b>	<b>E 1/2 - 1 (0.614 mi.)</b>	<b>200</b>	<b>72</b>
Site Status: Awaiting Cleanup Facility ID: 2455 Clean Up Siteid: 3167				
<b>UNOCAL SEATTLE MARKE</b>	<b>BROAD ST &amp; WESTERN A</b>	<b>S 1/2 - 1 (0.628 mi.)</b>	<b>201</b>	<b>73</b>
Site Status: Cleanup Started Facility ID: 2208 Clean Up Siteid: 1428				
<b>CIVIC HOTEL</b>	<b>325 AURORA AVE N</b>	<b>ESE 1/2 - 1 (0.664 mi.)</b>	<b>202</b>	<b>74</b>
Site Status: Cleanup Started Facility ID: 95376999 Clean Up Siteid: 4739				
<b>TAYLOR &amp; DENNY BUILD</b>	<b>101 TAYLOR AVE N</b>	<b>SE 1/2 - 1 (0.670 mi.)</b>	<b>203</b>	<b>74</b>
Site Status: Cleanup Started Facility ID: 9475 Clean Up Siteid: 12171				
<b>SEATTLE DOT DEXTER P</b>	<b>615 DEXTER AVE N</b>	<b>E 1/2 - 1 (0.686 mi.)</b>	<b>204</b>	<b>75</b>
Site Status: Awaiting Cleanup Facility ID: 81735 Clean Up Siteid: 14785				
<b>FAULKENBURY AND WRIG</b>	<b>501 DENNY WAY</b>	<b>SE 1/2 - 1 (0.693 mi.)</b>	<b>205</b>	<b>75</b>
Site Status: Awaiting Cleanup Facility ID: 81729752 Clean Up Siteid: 14831				
<b>EDWARDS ON FIFTH</b>	<b>2619 5TH AVE</b>	<b>SE 1/2 - 1 (0.696 mi.)</b>	<b>206</b>	<b>76</b>
Site Status: Cleanup Started Facility ID: 55245214 Clean Up Siteid: 3896				
<b>SEATTLE SCHOOL DIST</b>	<b>810 DEXTER AVE N</b>	<b>E 1/2 - 1 (0.707 mi.)</b>	<b>207</b>	<b>76</b>
Site Status: Cleanup Started Facility ID: 56583225 Clean Up Siteid: 9747				
<b>MARTIN SELIG PROPERT</b>	<b>2601 4TH AVE</b>	<b>SE 1/2 - 1 (0.709 mi.)</b>	<b>208</b>	<b>77</b>
Site Status: Cleanup Started Facility ID: 18421913 Clean Up Siteid: 1102				
<b>AMERICAN LINEN SUPPL</b>	<b>700 DEXTER AVE N</b>	<b>E 1/2 - 1 (0.715 mi.)</b>	<b>209</b>	<b>77</b>
Site Status: Cleanup Started Facility ID: 3573 Clean Up Siteid: 12004				
<b>NEPTUNE APARTMENTS P</b>	<b>900 DEXTER AVE N</b>	<b>ENE 1/2 - 1 (0.718 mi.)</b>	<b>210</b>	<b>78</b>
Site Status: Cleanup Started Facility ID: 4345275 Clean Up Siteid: 3885				
<b>ELLIOTT &amp; BROAD</b>	<b>10 BROAD ST</b>	<b>S 1/2 - 1 (0.721 mi.)</b>	<b>211</b>	<b>78</b>
Site Status: Awaiting Cleanup Facility ID: 73229656 Clean Up Siteid: 675				
<b>DEXTER OFFICE BUILDI</b>	<b>400 DEXTER AVE N</b>	<b>ESE 1/2 - 1 (0.734 mi.)</b>	<b>212</b>	<b>79</b>

## EXECUTIVE SUMMARY

Site Status: Cleanup Started Facility ID: 7324 Clean Up Siteid: 14392				
<b>SEATTLE DOT MERCER P</b>	<b>800 MERCER ST</b>	<b>E 1/2 - 1 (0.750 mi.)</b>	<b>213</b>	<b>79</b>
Site Status: Awaiting Cleanup Facility ID: 27913 Clean Up Siteid: 14784				
<b>PIER 86 RAILCAR PROG</b>	<b>955 ALASKAN WAY W</b>	<b>WNW 1/2 - 1 (0.752 mi.)</b>	<b>214</b>	<b>79</b>
Site Status: Awaiting Cleanup Facility ID: 21835 Clean Up Siteid: 12894				
<b>ROY ST SHOPS 89</b>	<b>802 ROY ST</b>	<b>E 1/2 - 1 (0.753 mi.)</b>	<b>215</b>	<b>80</b>
Site Status: Cleanup Started Facility ID: 95811428 Clean Up Siteid: 11216				
<b>SKYE BUILDING</b>	<b>500 WALL STREET</b>	<b>SE 1/2 - 1 (0.756 mi.)</b>	<b>216</b>	<b>80</b>
Site Status: Cleanup Started Facility ID: 1908878 Clean Up Siteid: 1767				
<b>600 WALL STREET</b>	<b>600 WALL ST</b>	<b>SE 1/2 - 1 (0.768 mi.)</b>	<b>217</b>	<b>81</b>
Site Status: Cleanup Started Facility ID: 4456856 Clean Up Siteid: 3327				
<b>FORMER BAY STATION S</b>	<b>1123 ELLIOT AVE. W.</b>	<b>WNW 1/2 - 1 (0.777 mi.)</b>	<b>AR219</b>	<b>81</b>
Site Status: Cleanup Started Facility ID: 5194972 Clean Up Siteid: 2163				
<b>BURGER KING ELLIOTT</b>	<b>1154 ELLIOTT AVE W</b>	<b>WNW 1/2 - 1 (0.790 mi.)</b>	<b>221</b>	<b>82</b>
Site Status: Awaiting Cleanup Facility ID: 6341214 Clean Up Siteid: 3001				
<b>SEATTLE MOTOR SPORTS</b>	<b>701 9TH AVE N</b>	<b>E 1/2 - 1 (0.793 mi.)</b>	<b>AS222</b>	<b>82</b>
Site Status: Awaiting Cleanup Facility ID: 84466254 Clean Up Siteid: 13006				
<b>DANIEL BOONE PAINT C</b>	<b>1401 DEXTER AVE N</b>	<b>ENE 1/2 - 1 (0.799 mi.)</b>	<b>223</b>	<b>83</b>
Site Status: Cleanup Started Facility ID: 46536571 Clean Up Siteid: 9319				
<b>MAACO AUTO PAINTING</b>	<b>739 9TH AVE N</b>	<b>E 1/2 - 1 (0.809 mi.)</b>	<b>224</b>	<b>84</b>
Site Status: Cleanup Started Facility ID: 2224749 Clean Up Siteid: 12571				
<b>IVEY IMAGING LLC</b>	<b>427 9TH AVE N</b>	<b>ESE 1/2 - 1 (0.814 mi.)</b>	<b>225</b>	<b>84</b>
Site Status: Cleanup Started Facility ID: 35788635 Clean Up Siteid: 12533				
<b>SEATTLE CITY DOT ROW</b>	<b>710 9TH AVE N</b>	<b>E 1/2 - 1 (0.815 mi.)</b>	<b>AS226</b>	<b>85</b>
Site Status: Awaiting Cleanup Facility ID: 21735 Clean Up Siteid: 12379				
<b>WESTLAKE PROPERTIES</b>	<b>1105 1111 1121 1207</b>	<b>ENE 1/2 - 1 (0.816 mi.)</b>	<b>AT227</b>	<b>85</b>

## EXECUTIVE SUMMARY

Site Status: Cleanup Started Facility ID: 7129620 Clean Up Siteid: 1357					
<b>WESTLAKE BUILDING</b>	<b>1219 WESTLAKE AVE N</b>	<b>ENE 1/2 - 1 (0.816 mi.)</b>	<b>AT228</b>	<b>86</b>	
Site Status: Cleanup Started Facility ID: 48378793 Clean Up Siteid: 6161					
<b>WESTLAKE STEPS HOLLA</b>	<b>1231 WESTLAKE AVE N</b>	<b>ENE 1/2 - 1 (0.825 mi.)</b>	<b>229</b>	<b>86</b>	
Site Status: Cleanup Started Facility ID: 87996 Clean Up Siteid: 14806					
<b>ANALYTICAL RESOURCES</b>	<b>333 9TH AVE N</b>	<b>ESE 1/2 - 1 (0.844 mi.)</b>	<b>230</b>	<b>86</b>	
Site Status: Cleanup Started Facility ID: 81725725 Clean Up Siteid: 14575					
<b>SEATTLE AUTO CENTER</b>	<b>601 WESTLAKE AVE N</b>	<b>E 1/2 - 1 (0.870 mi.)</b>	<b>AU231</b>	<b>87</b>	
Site Status: Cleanup Started Facility ID: 32368748 Clean Up Siteid: 12637					
<b>SEATTLE FIRE STATION</b>	<b>2334 4TH AVE</b>	<b>SE 1/2 - 1 (0.872 mi.)</b>	<b>232</b>	<b>87</b>	
Site Status: Awaiting Cleanup Facility ID: 29958424 Clean Up Siteid: 8644					
<b>AUTO SERVICE COMPANY</b>	<b>630 WESTLAKE AVE N</b>	<b>E 1/2 - 1 (0.877 mi.)</b>	<b>AU233</b>	<b>88</b>	
Site Status: Cleanup Started Facility ID: 24436664 Clean Up Siteid: 5749					
<b>CONOCOPHILLIPS COMPA</b>	<b>600 WESTLAKE N</b>	<b>E 1/2 - 1 (0.877 mi.)</b>	<b>AU234</b>	<b>89</b>	
Site Status: Cleanup Started Facility ID: 46445373 Clean Up Siteid: 6134					
<b>HOLMAN BODY AND FEND</b>	<b>2324 2ND AVE</b>	<b>SE 1/2 - 1 (0.896 mi.)</b>	<b>235</b>	<b>89</b>	
Site Status: Cleanup Started Facility ID: 33457373 Clean Up Siteid: 8758					
<b>FIRESTONE 31A9</b>	<b>400 WESTLAKE AVE N</b>	<b>ESE 1/2 - 1 (0.903 mi.)</b>	<b>236</b>	<b>90</b>	
Site Status: Cleanup Started Facility ID: 32145888 Clean Up Siteid: 12005					
<b>WA UW ROSEN BLDG</b>	<b>960 REPUBLICAN ST</b>	<b>E 1/2 - 1 (0.916 mi.)</b>	<b>237</b>	<b>90</b>	
Site Status: Cleanup Started Facility ID: 2500 Clean Up Siteid: 5123					
<b>PHOM PROPERTY</b>	<b>2301 4TH AVE</b>	<b>SE 1/2 - 1 (0.924 mi.)</b>	<b>238</b>	<b>91</b>	
Site Status: Cleanup Started Facility ID: 47763267 Clean Up Siteid: 2621					
<b>BLOCK 40 EAST &amp; WEST</b>	<b>320 WESTLAKE AVE N</b>	<b>ESE 1/2 - 1 (0.926 mi.)</b>	<b>239</b>	<b>92</b>	
Site Status: Cleanup Started Facility ID: 602477 Clean Up Siteid: 333					
<b>SECOND &amp; BELL BUILDI</b>	<b>2306 2ND AVE</b>	<b>SE 1/2 - 1 (0.935 mi.)</b>	<b>240</b>	<b>92</b>	

## EXECUTIVE SUMMARY

Site Status: Cleanup Started Facility ID: 967942 Clean Up Siteid: 1571				
<b>GREILING PROPERTY</b>	<b>222 WESTLAKE AVE N</b>	<b>ESE 1/2 - 1 (0.945 mi.)</b>	<b>241</b>	<b>93</b>
Site Status: Awaiting Cleanup Facility ID: 1197848 Clean Up Siteid: 1528				
<b>BLOCK 32 NORTH BLDG</b>	<b>1001 &amp; 1021 MERCER S</b>	<b>E 1/2 - 1 (0.952 mi.)</b>	<b>242</b>	<b>93</b>
Site Status: Cleanup Started Facility ID: 14637 Clean Up Siteid: 1761				
<b>IVAR S COMMISSARY</b>	<b>500 TERRY AVE N</b>	<b>E 1/2 - 1 (0.954 mi.)</b>	<b>243</b>	<b>93</b>
Site Status: Cleanup Started Facility ID: 85883854 Clean Up Siteid: 6774				
<b>202 WESTLAKE OFFICE</b>	<b>202 WESTLAKE AVE N</b>	<b>ESE 1/2 - 1 (0.957 mi.)</b>	<b>AV244</b>	<b>94</b>
Site Status: Cleanup Started Facility ID: 19323 Clean Up Siteid: 11731				
<b>LAKE UNION III</b>	<b>410 TERRY N 415 BORE</b>	<b>ESE 1/2 - 1 (0.957 mi.)</b>	<b>245</b>	<b>94</b>
Site Status: Cleanup Started Facility ID: 7165 Clean Up Siteid: 11900				
<b>ATT MOBILITY INTERBA</b>	<b>1465 ELLIOTT AVE W</b>	<b>WNW 1/2 - 1 (0.966 mi.)</b>	<b>246</b>	<b>95</b>
Site Status: Cleanup Started Facility ID: 18620 Clean Up Siteid: 12386				
<b>SEATTLE CITY ROW BEH</b>	<b>ALLEY 222 WESTLAKE &amp;</b>	<b>ESE 1/2 - 1 (0.971 mi.)</b>	<b>AV247</b>	<b>95</b>
Site Status: Awaiting Cleanup Facility ID: 5972599 Clean Up Siteid: 3736				
<b>SEATTLE CITY SOUTH L</b>	<b>860 TERRY AVE N</b>	<b>E 1/2 - 1 (0.972 mi.)</b>	<b>248</b>	<b>95</b>
Site Status: Cleanup Started Facility ID: 22338497 Clean Up Siteid: 3494				
<b>SEATTLE CITY PARKS N</b>	<b>1002 VALLEY ST</b>	<b>E 1/2 - 1 (0.976 mi.)</b>	<b>249</b>	<b>96</b>
Site Status: Cleanup Started Facility ID: 14237126 Clean Up Siteid: 596				
<b>TEXACO 63-232-0400</b>	<b>601 BOREN AVE N</b>	<b>E 1/2 - 1 (0.978 mi.)</b>	<b>250</b>	<b>96</b>
Site Status: Cleanup Started Facility ID: 99377872 Clean Up Siteid: 11355				
<b>UNITED FURNITURE REF</b>	<b>219 TERRY AVE N</b>	<b>ESE 1/2 - 1 (0.985 mi.)</b>	<b>251</b>	<b>97</b>
Site Status: Cleanup Started Facility ID: 16345761 Clean Up Siteid: 2607				
<b>MOXY HOTEL</b>	<b>1016 REPUBLICAN ST</b>	<b>E 1/2 - 1 (0.987 mi.)</b>	<b>253</b>	<b>98</b>
Site Status: Awaiting Cleanup Facility ID: 65520 Clean Up Siteid: 14730				
<b>525 BOREN BUILDING</b>	<b>525 BOREN AVE N</b>	<b>E 1/2 - 1 (0.988 mi.)</b>	<b>254</b>	<b>98</b>



## EXECUTIVE SUMMARY

Facility Status: LUST - NFA  
 Cleanup Site ID: 8673  
 Facility ID: 31537996

<b>REPUBLICAN APARTMENT</b>	<b>323 W REPUBLICAN ST</b>	<b>SW 1/4 - 1/2 (0.269 mi.)</b>	<b>99</b>	<b>35</b>
Database: LUST, Date of Government Version: 05/13/2019				
Facility Status: LUST - NFA				
Cleanup Site ID: 9739				
Facility ID: 56385827				
<b>SEATTLE CENTER</b>	<b>305 HARRISON</b>	<b>SSE 1/4 - 1/2 (0.274 mi.)</b>	<b>X100</b>	<b>35</b>
Database: LUST, Date of Government Version: 05/13/2019				
Facility Status: LUST - Cleanup Started				
Cleanup Site ID: 9151				
Facility ID: 42937592				
<b>ODEN INVESTMENT COND</b>	<b>619 5TH AVE W</b>	<b>W 1/4 - 1/2 (0.300 mi.)</b>	<b>109</b>	<b>38</b>
Database: LUST, Date of Government Version: 05/13/2019				
Facility Status: LUST - Cleanup Started				
Cleanup Site ID: 9551				
Facility ID: 52738943				
<b>ELLIOTT BAY OFFICE P</b>	<b>300 ELLIOTT AVE W</b>	<b>SW 1/4 - 1/2 (0.349 mi.)</b>	<b>AA117</b>	<b>41</b>
Database: LUST, Date of Government Version: 05/13/2019				
Facility Status: LUST - NFA				
Cleanup Site ID: 6715				
Facility ID: 82545274				
<b>401 ELLIOTT BUILDING</b>	<b>401 ELLIOTT AVE W</b>	<b>SW 1/4 - 1/2 (0.362 mi.)</b>	<b>AC120</b>	<b>42</b>
Database: LUST, Date of Government Version: 05/13/2019				
Facility Status: LUST - NFA				
Cleanup Site ID: 6384				
Facility ID: 61923958				
<b>PACIFIC SCIENCE CENT</b>	<b>200 2ND AVE N</b>	<b>SSW 1/4 - 1/2 (0.387 mi.)</b>	<b>132</b>	<b>46</b>
Database: LUST, Date of Government Version: 05/13/2019				
Facility Status: LUST - Cleanup Started				
Cleanup Site ID: 12496				
Facility ID: 2868852				
<b>UEKI CORP</b>	<b>600-614 ELLIOTT AVE</b>	<b>W 1/4 - 1/2 (0.392 mi.)</b>	<b>AE133</b>	<b>46</b>
Database: LUST, Date of Government Version: 05/13/2019				
Facility Status: LUST - NFA				
Cleanup Site ID: 6206				
Facility ID: 51828819				
<b>BLACKSTOCK LUMBER</b>	<b>601 ELLIOTT AVE W</b>	<b>WSW 1/4 - 1/2 (0.394 mi.)</b>	<b>134</b>	<b>47</b>
Database: LUST, Date of Government Version: 05/13/2019				
Facility Status: LUST - NFA				
Cleanup Site ID: 2544				
Facility ID: 2540				
<b>133 QUEEN ANNE AVE N</b>	<b>133 QUEEN ANNE AVE N</b>	<b>S 1/4 - 1/2 (0.407 mi.)</b>	<b>AG139</b>	<b>49</b>
Database: LUST, Date of Government Version: 05/13/2019				
Facility Status: LUST - NFA				
Cleanup Site ID: 6920				
Facility ID: 95244754				
<b>BARRAT TRANSFER &amp; ST</b>	<b>123 QUEEN AVE N PO B</b>	<b>S 1/4 - 1/2 (0.424 mi.)</b>	<b>AG151</b>	<b>53</b>
Database: LUST, Date of Government Version: 05/13/2019				
Facility Status: LUST - NFA				



## EXECUTIVE SUMMARY

Site Id: 12092  
Facility ID: 46659536

<b>QUEEN ANNE TOWER</b> Site Id: 8820 Facility ID: 67455439	<b>620 WARREN AVENUE N</b>	<b>ESE 1/8 - 1/4 (0.148 mi.)</b>	<b>N69</b>	<b>25</b>
<b>WILLIAM ARNOLD</b> Site Id: 6996 Facility ID: 25287143	<b>150 MERCER</b>	<b>ESE 1/8 - 1/4 (0.160 mi.)</b>	<b>O71</b>	<b>26</b>
<b>SEATTLE CITY POWER C</b> Site Id: 8824 Facility ID: 45112163	<b>157 ROY ST</b>	<b>E 1/8 - 1/4 (0.160 mi.)</b>	<b>N72</b>	<b>26</b>
<b>USPS QUEEN ANNE</b> Site Id: 200539 Facility ID: 31537996	<b>415 1ST AVE N</b>	<b>SSE 1/8 - 1/4 (0.194 mi.)</b>	<b>S82</b>	<b>30</b>
<b>MARTIN SELIG REAL ES</b> Site Id: 11351 Facility ID: 81472777	<b>408 1ST AVE W</b>	<b>S 1/8 - 1/4 (0.213 mi.)</b>	<b>89</b>	<b>32</b>

### **State and tribal institutional control / engineering control registries**

WA INST CONTROL: A review of the WA INST CONTROL list, as provided by EDR, and dated 01/15/2019 has revealed that there is 1 WA INST CONTROL site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>BLACKSTOCK LUMBER</b> Facility Site ID: 2540 CS ID: 2544	<b>601 ELLIOTT AVE W</b>	<b>WSW 1/4 - 1/2 (0.394 mi.)</b>	<b>134</b>	<b>47</b>

### **State and tribal voluntary cleanup sites**

WA ICR: A review of the WA ICR list, as provided by EDR, and dated 12/01/2002 has revealed that there are 26 WA ICR sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
UNOCAL #0255	700 QUEEN ANNE AVE.	NE 0 - 1/8 (0.034 mi.)	B19	12
WILLIS APARTMENTS	720 QUEEN ANNE AVE.	NE 0 - 1/8 (0.051 mi.)	B24	14
MOTION FINANCIAL PRO	14 ROY ST.	E 0 - 1/8 (0.062 mi.)	C29	15
CITY OF SEATTLE - FI	110 LEE ST.	NNE 1/4 - 1/2 (0.396 mi.)	AF137	48
CHEVRON #60096786 (T	1417 QUEEN ANNE AVE.	N 1/4 - 1/2 (0.450 mi.)	AL160	56
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
TEXACO PRO INVESTMEN	150 MERCER ST.	ESE 1/8 - 1/4 (0.160 mi.)	O70	26
<b>SEATTLE POWER CONTRO</b>	<b>157 ROY ST</b>	<b>E 1/8 - 1/4 (0.160 mi.)</b>	<b>N73</b>	<b>27</b>
US POSTAL SERVICE QU	415 1ST AVE. N.	SSE 1/8 - 1/4 (0.194 mi.)	S81	30
SIMPSON HOUSING COMP	123 W. HARRISON	SSW 1/4 - 1/2 (0.254 mi.)	96	34

## EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>REPUBLICAN APARTMENT</b>	<b>323 W REPUBLICAN ST</b>	<b>SW 1/4 - 1/2 (0.269 mi.)</b>	<b>99</b>	<b>35</b>
CITY OF SEATTLE - ME	W. MERCER ST. & 5TH	WSW 1/4 - 1/2 (0.294 mi.)	108	38
<b>ELLIOTT BAY OFFICE P</b>	<b>300 ELLIOTT AVE W.</b>	<b>SW 1/4 - 1/2 (0.349 mi.)</b>	<b>AA116</b>	<b>41</b>
HENRY BACON BUILDING	401 ELLIOTT AVE. W.	SW 1/4 - 1/2 (0.362 mi.)	AC121	43
HENRY BACON BUILDING	351 ELLIOTT AVE. W.	SW 1/4 - 1/2 (0.363 mi.)	Z122	43
COLEMAN CROSSING	333 ELLIOTT AVE.	SW 1/4 - 1/2 (0.364 mi.)	AA123	43
<b>133 QUEEN ANNE AVE N</b>	<b>133 QUEEN ANNE AVE N</b>	<b>S 1/4 - 1/2 (0.407 mi.)</b>	<b>AG139</b>	<b>49</b>
<b>UEKI CORP</b>	<b>614 ELLIOTT AVE W</b>	<b>W 1/4 - 1/2 (0.413 mi.)</b>	<b>AH149</b>	<b>52</b>
<b>BARRAT TRANSFER &amp; ST</b>	<b>123 QUEEN AVE N PO B</b>	<b>S 1/4 - 1/2 (0.424 mi.)</b>	<b>AG151</b>	<b>53</b>
TEXACO #63076 0400	630 ELLIOTT AVE. W.	W 1/4 - 1/2 (0.434 mi.)	AJ153	53
STANDISH PROPERTY	420 MERCER ST.	E 1/4 - 1/2 (0.439 mi.)	AK155	54
CITY OF SEATTLE-MERC	5TH AVE. N. & MERCER	E 1/4 - 1/2 (0.451 mi.)	AK161	57
<b>SEATTLE CENTER</b>	<b>305 HARRISON STREET</b>	<b>SE 1/4 - 1/2 (0.453 mi.)</b>	<b>163</b>	<b>57</b>
<b>DARIGOLD INC SEATTLE</b>	<b>635 ELLIOTT AVE W</b>	<b>W 1/4 - 1/2 (0.461 mi.)</b>	<b>AN166</b>	<b>58</b>
SEATTLE CITY SEATTLE	520 5TH AVE. N.	ESE 1/4 - 1/2 (0.463 mi.)	AO167	59
<b>TOOL TOWN</b>	<b>652 ELLIOTT AVE W</b>	<b>W 1/4 - 1/2 (0.464 mi.)</b>	<b>169</b>	<b>60</b>
TEXACO #63 232 0064	10 DENNY WAY	S 1/4 - 1/2 (0.465 mi.)	AP172	61

WA VCP: A review of the WA VCP list, as provided by EDR, and dated 01/15/2019 has revealed that there are 17 WA VCP sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>RON ISAACS PROPERTY</b>	<b>14 ROY ST</b>	<b>E 0 - 1/8 (0.062 mi.)</b>	<b>C27</b>	<b>14</b>
Facility ID: 37384634 Cleanup Siteid: 5972				
<b>Lower Elevation</b>	<b>Address</b>	<b>Direction / Distance</b>	<b>Map ID</b>	<b>Page</b>
<b>QUEEN ANNE PROPERTIE</b>	<b>541 QUEEN ANNE AVE N</b>	<b>S 0 - 1/8 (0.080 mi.)</b>	<b>E43</b>	<b>18</b>
Facility ID: 46659536 Cleanup Siteid: 395				
<b>UPTOWN BAKERY FORMER</b>	<b>519-521 QUEEN ANNE A</b>	<b>S 0 - 1/8 (0.119 mi.)</b>	<b>K65</b>	<b>24</b>
Facility ID: 6136999 Cleanup Siteid: 2713				
<b>USPS QUEEN ANNE</b>	<b>415 1ST AVE N</b>	<b>SSE 1/8 - 1/4 (0.194 mi.)</b>	<b>S82</b>	<b>30</b>
Facility ID: 31537996 Cleanup Siteid: 8673				
<b>MOUNTAINEERS MEANY S</b>	<b>300 3RD AVE</b>	<b>SSW 1/4 - 1/2 (0.323 mi.)</b>	<b>110</b>	<b>39</b>
Facility ID: 92791338 Cleanup Siteid: 11613				
<b>ELLIOTT BAY OFFICE P</b>	<b>300 ELLIOTT AVE W</b>	<b>SW 1/4 - 1/2 (0.349 mi.)</b>	<b>AA117</b>	<b>41</b>
Facility ID: 82545274 Cleanup Siteid: 6715				
<b>401 ELLIOTT BUILDING</b>	<b>401 ELLIOTT AVE W</b>	<b>SW 1/4 - 1/2 (0.362 mi.)</b>	<b>AC120</b>	<b>42</b>
Facility ID: 61923958 Cleanup Siteid: 6384				
<b>UEKI CORP</b>	<b>600-614 ELLIOTT AVE</b>	<b>W 1/4 - 1/2 (0.392 mi.)</b>	<b>AE133</b>	<b>46</b>
Facility ID: 51828819				

## EXECUTIVE SUMMARY

Cleanup Siteid: 6206				
<b>BLACKSTOCK LUMBER</b>	<b>601 ELLIOTT AVE W</b>	<b>WSW 1/4 - 1/2 (0.394 mi.)</b>	<b>134</b>	<b>47</b>
Facility ID: 2540				
Cleanup Siteid: 2544				
<b>133 QUEEN ANNE AVE N</b>	<b>133 QUEEN ANNE AVE N</b>	<b>S 1/4 - 1/2 (0.407 mi.)</b>	<b>AG139</b>	<b>49</b>
Facility ID: 95244754				
Cleanup Siteid: 6920				
<b>BAY VIEW BLDG</b>	<b>129 1ST AVE W</b>	<b>S 1/4 - 1/2 (0.417 mi.)</b>	<b>150</b>	<b>52</b>
Facility ID: 2851894				
Cleanup Siteid: 2099				
<b>SHELL STATION 121456</b>	<b>630 ELLIOTT AVE W</b>	<b>W 1/4 - 1/2 (0.434 mi.)</b>	<b>AJ154</b>	<b>54</b>
Facility ID: 22356455				
Cleanup Siteid: 5701				
<b>DARIGOLD INC SEATTLE</b>	<b>635 ELLIOTT AVE W</b>	<b>W 1/4 - 1/2 (0.461 mi.)</b>	<b>AN166</b>	<b>58</b>
Facility ID: 21722841				
Cleanup Siteid: 7070				
<b>JACKSONS 654</b>	<b>10 DENNY WAY</b>	<b>S 1/4 - 1/2 (0.465 mi.)</b>	<b>AP173</b>	<b>61</b>
Facility ID: 49674295				
Cleanup Siteid: 6174				
<b>CHAMPION TEUTSCH PRO</b>	<b>124 DENNY WAY</b>	<b>SSE 1/4 - 1/2 (0.480 mi.)</b>	<b>179</b>	<b>63</b>
Facility ID: 3860				
Cleanup Siteid: 12831				
<b>TOWER RECORDS FORMER</b>	<b>500 MERCER</b>	<b>E 1/4 - 1/2 (0.480 mi.)</b>	<b>AQ181</b>	<b>64</b>
Facility ID: 1513190				
Cleanup Siteid: 1451				
<b>IVARS SEAFOOD BAR</b>	<b>3101 1ST AVE</b>	<b>S 1/4 - 1/2 (0.495 mi.)</b>	<b>186</b>	<b>66</b>
Facility ID: 38551499				
Cleanup Siteid: 1701				

### ADDITIONAL ENVIRONMENTAL RECORDS

#### **Local Brownfield lists**

US BROWNFIELDS: A review of the US BROWNFIELDS list, as provided by EDR, and dated 12/17/2018 has revealed that there is 1 US BROWNFIELDS site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>COLEMAN CREOSOTE PRO</b> ACRES property ID: 11746	<b>333 ELLIOTT AVE W</b>	<b>SW 1/4 - 1/2 (0.364 mi.)</b>	<b>AA125</b>	<b>44</b>

## EXECUTIVE SUMMARY

### **Local Lists of Landfill / Solid Waste Disposal Sites**

WA SWRCY: A review of the WA SWRCY list, as provided by EDR, and dated 04/08/2019 has revealed that there are 3 WA SWRCY sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LIGHTRECYCLE WASHING	600 FIRST AVE. N.	ESE 0 - 1/8 (0.098 mi.)	I52	21
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
EASTER SEALS	200 W. MERCER ST., S	WSW 0 - 1/8 (0.120 mi.)	M66	25
KING COUNTY SECURE M	500 MERCER ST	E 1/4 - 1/2 (0.480 mi.)	AQ180	64

### **Local Lists of Hazardous waste / Contaminated Sites**

WA ALLSITES: A review of the WA ALLSITES list, as provided by EDR, and dated 05/08/2019 has revealed that there are 106 WA ALLSITES sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>UNOCAL 306566</b> Facility Id: 59972834	<b>700 QUEEN ANNE AVE N</b>	<b>NE 0 - 1/8 (0.034 mi.)</b>	<b>B21</b>	<b>12</b>
<b>RON ISAACS PROPERTY</b> Facility Id: 37384634	<b>14 ROY ST</b>	<b>E 0 - 1/8 (0.062 mi.)</b>	<b>C27</b>	<b>14</b>
<b>BAYVIEW MANOR HOMES</b> Facility Id: 27551658	<b>11 W ALOHA ST</b>	<b>N 0 - 1/8 (0.104 mi.)</b>	<b>57</b>	<b>22</b>
<b>WARD APARTMENTS</b> Facility Id: 21582991	<b>105 WARD ST</b>	<b>NNE 1/8 - 1/4 (0.188 mi.)</b>	<b>77</b>	<b>28</b>
<b>SEATTLE PUBLIC UTILI</b> Facility Id: 8488765	<b>110 LEE ST TANKS ONL</b>	<b>NNE 1/4 - 1/2 (0.396 mi.)</b>	<b>AF135</b>	<b>47</b>
<b>SEATTLE FIRE STATION</b> Facility Id: 99984374	<b>110 LEE ST</b>	<b>NNE 1/4 - 1/2 (0.396 mi.)</b>	<b>AF136</b>	<b>48</b>
<b>SEATTLE CITY LIGHT Q</b> Facility Id: 94214187	<b>1417 WARREN AVE N</b>	<b>NNE 1/4 - 1/2 (0.432 mi.)</b>	<b>152</b>	<b>53</b>
<b>CHEVRON FACILITY 600</b> Facility Id: 2481	<b>1417 QUEEN ANNE AVE</b>	<b>N 1/4 - 1/2 (0.450 mi.)</b>	<b>AL159</b>	<b>56</b>
<b>7 ELEVEN STORE 14392</b> Facility Id: 2488279	<b>9 NICKERSON &amp; QUEEN</b>	<b>NE 1/4 - 1/2 (0.464 mi.)</b>	<b>170</b>	<b>60</b>
<b>HOBBS HILLTOP AUTOMO</b> Facility Id: 17914182	<b>205 W GALER ST</b>	<b>NNW 1/4 - 1/2 (0.474 mi.)</b>	<b>174</b>	<b>62</b>
<b>FISHER BROADCASTING</b> Facility Id: 83435543	<b>157 GALER ST</b>	<b>NNE 1/4 - 1/2 (0.479 mi.)</b>	<b>178</b>	<b>63</b>
<b>JAS B J BACKER</b> Facility Id: 91318493	<b>100 W GALER ST</b>	<b>N 1/4 - 1/2 (0.485 mi.)</b>	<b>183</b>	<b>65</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>MONTEREY APARTMENTS</b>	<b>622 1ST AVE W &amp; QUEE</b>	<b>WSW 0 - 1/8 (0.041 mi.)</b>	<b>23</b>	<b>13</b>

## EXECUTIVE SUMMARY

Facility Id: 2047					
<b>WA UW 601 QUEEN ANNE</b>	<b>601 QUEEN ANNE AVE N</b>	<b>SSE 0 - 1/8 (0.064 mi.)</b>	<b>E31</b>	<b>16</b>	
Facility Id: 17372					
<b>QUEEN ANNE CLEANERS</b>	<b>603 QUEEN ANNE AVE N</b>	<b>SSE 0 - 1/8 (0.064 mi.)</b>	<b>E33</b>	<b>16</b>	
Facility Id: 97316275					
<b>MARQUEEN GARAGE MERC</b>	<b>10 MERCER ST</b>	<b>SSE 0 - 1/8 (0.065 mi.)</b>	<b>E37</b>	<b>17</b>	
Facility Id: 23686283					
<b>QUEEN ANNE PROPRTIE</b>	<b>541 QUEEN ANNE AVE N</b>	<b>S 0 - 1/8 (0.080 mi.)</b>	<b>E43</b>	<b>18</b>	
Facility Id: 46659536					
<b>CVS PHARMACY 10331</b>	<b>531 QUEEN ANNE AVE N</b>	<b>S 0 - 1/8 (0.081 mi.)</b>	<b>E47</b>	<b>20</b>	
Facility Id: 8522					
<b>KITS CAMERA 1028</b>	<b>11 MERCER ST</b>	<b>SSE 0 - 1/8 (0.087 mi.)</b>	<b>G49</b>	<b>20</b>	
Facility Id: 29477584					
<b>AUCOTT TRUST PROPRT</b>	<b>526-530 QUEEN ANNE A</b>	<b>SSE 0 - 1/8 (0.100 mi.)</b>	<b>H54</b>	<b>21</b>	
Facility Id: 995160					
<b>SAFEWAY STORE 1885</b>	<b>516 1ST AVE W</b>	<b>SSW 0 - 1/8 (0.113 mi.)</b>	<b>L61</b>	<b>23</b>	
Facility Id: 3147					
<b>UPTOWN BAKERY FORMER</b>	<b>519-521 QUEEN ANNE A</b>	<b>S 0 - 1/8 (0.119 mi.)</b>	<b>K65</b>	<b>24</b>	
Facility Id: 6136999					
<b>US DOJ DEA WEST MERC</b>	<b>220 W MERCER STE 104</b>	<b>WSW 1/8 - 1/4 (0.142 mi.)</b>	<b>68</b>	<b>25</b>	
Facility Id: 86961995					
<b>QUEEN ANNE TOWER</b>	<b>620 WARREN AVENUE N</b>	<b>ESE 1/8 - 1/4 (0.148 mi.)</b>	<b>N69</b>	<b>25</b>	
Facility Id: 67455439					
<b>WILLIAM ARNOLD</b>	<b>150 MERCER</b>	<b>ESE 1/8 - 1/4 (0.160 mi.)</b>	<b>O71</b>	<b>26</b>	
Facility Id: 25287143					
<b>SEATTLE POWER CONTRO</b>	<b>157 ROY ST</b>	<b>E 1/8 - 1/4 (0.160 mi.)</b>	<b>N73</b>	<b>27</b>	
Facility Id: 45112163					
<b>HELENAS QUEEN ANNE C</b>	<b>535 WARREN AVE N</b>	<b>SE 1/8 - 1/4 (0.164 mi.)</b>	<b>P74</b>	<b>27</b>	
Facility Id: 51166557					
<b>SEATTLE REPERTORY TH</b>	<b>155 MERCER ST</b>	<b>ESE 1/8 - 1/4 (0.165 mi.)</b>	<b>O75</b>	<b>28</b>	
Facility Id: 92191265					
<b>PANDA PHOTOGRAPHIC L</b>	<b>533 WARREN AVE N</b>	<b>SE 1/8 - 1/4 (0.166 mi.)</b>	<b>P76</b>	<b>28</b>	
Facility Id: 68794738					
<b>SEATTLE CENTER 5.5 B</b>	<b>621 2ND AVE N</b>	<b>E 1/8 - 1/4 (0.190 mi.)</b>	<b>Q78</b>	<b>29</b>	
Facility Id: 3883246					
<b>QUEEN ANNE AUTO BODY</b>	<b>420 QUEEN ANNE N</b>	<b>S 1/8 - 1/4 (0.191 mi.)</b>	<b>R79</b>	<b>29</b>	
Facility Id: 95877816					
<b>USPS QUEEN ANNE</b>	<b>415 1ST AVE N</b>	<b>SSE 1/8 - 1/4 (0.194 mi.)</b>	<b>S82</b>	<b>30</b>	
Facility Id: 31537996					
<b>FILM STOP</b>	<b>508 3RD AVE W</b>	<b>SW 1/8 - 1/4 (0.197 mi.)</b>	<b>83</b>	<b>30</b>	
Facility Id: 45688974					
<b>HARRISON STREET HOLD</b>	<b>223 W REPUBLICAN</b>	<b>SW 1/8 - 1/4 (0.207 mi.)</b>	<b>T84</b>	<b>31</b>	
Facility Id: 14206					
<b>SEATTLE OPERA PARKIN</b>	<b>620 2ND AVE N</b>	<b>E 1/8 - 1/4 (0.208 mi.)</b>	<b>Q86</b>	<b>31</b>	
Facility Id: 19244					
<b>WA UW QUEEN ANNE</b>	<b>401 QUEEN ANNE AVE N</b>	<b>S 1/8 - 1/4 (0.211 mi.)</b>	<b>U87</b>	<b>31</b>	

## EXECUTIVE SUMMARY

Facility Id: 15238964				
<b>MARTIN SELIG REAL ES</b>	<b>408 1ST AVE W</b>	<b>S 1/8 - 1/4 (0.213 mi.)</b>	<b>89</b>	<b>32</b>
Facility Id: 81472777				
US DEPT OF JUSTICE D	400 2ND AVE MIDFIELD	SSW 1/8 - 1/4 (0.214 mi.)	V91	33
Facility Id: 3497943				
WASHINGTON STATE MAR	100 W HARRISON ST	S 1/8 - 1/4 (0.234 mi.)	93	33
Facility Id: 24033				
<b>FRANK PANTLYS AUTO R</b>	<b>225 ROY ST</b>	<b>E 1/8 - 1/4 (0.245 mi.)</b>	<b>94</b>	<b>33</b>
Facility Id: 47258662				
<b>WESTERN PUBLISHER SE</b>	<b>414 3RD AVE W</b>	<b>SW 1/8 - 1/4 (0.248 mi.)</b>	<b>95</b>	<b>34</b>
Facility Id: 78374487				
<b>SPRINGS PRINTING INC</b>	<b>425 3RD AVE W</b>	<b>SW 1/4 - 1/2 (0.255 mi.)</b>	<b>W97</b>	<b>34</b>
Facility Id: 69477135				
<b>NORTH PACIFIC XRAY C</b>	<b>423 3RD AVE W</b>	<b>SW 1/4 - 1/2 (0.258 mi.)</b>	<b>W98</b>	<b>35</b>
Facility Id: 4351954				
<b>REPUBLICAN APARTMENT</b>	<b>323 W REPUBLICAN ST</b>	<b>SW 1/4 - 1/2 (0.269 mi.)</b>	<b>99</b>	<b>35</b>
Facility Id: 56385827				
<b>SEATTLE CENTER</b>	<b>305 HARRISON</b>	<b>SSE 1/4 - 1/2 (0.274 mi.)</b>	<b>X100</b>	<b>35</b>
Facility Id: 42937592				
<b>FUN FOREST RIDE SHOP</b>	<b>305 HARRISON ST RIDE</b>	<b>SSE 1/4 - 1/2 (0.274 mi.)</b>	<b>X101</b>	<b>36</b>
Facility Id: 99493951				
<b>ARMORY</b>	<b>305 HARRISON ST.</b>	<b>SSE 1/4 - 1/2 (0.274 mi.)</b>	<b>X102</b>	<b>36</b>
Facility Id: 1175362				
<b>SEATTLE CENTER ARENA</b>	<b>334 1ST AVE N</b>	<b>SSE 1/4 - 1/2 (0.277 mi.)</b>	<b>Y103</b>	<b>36</b>
Facility Id: 90258				
<b>PACIFIC BIOMETRICS I</b>	<b>220 W HARRISON ST</b>	<b>SW 1/4 - 1/2 (0.280 mi.)</b>	<b>104</b>	<b>37</b>
Facility Id: 59142617				
<b>ASTRO APARTMENTS</b>	<b>315 1ST AVE N</b>	<b>SSE 1/4 - 1/2 (0.282 mi.)</b>	<b>Y105</b>	<b>37</b>
Facility Id: 20034				
<b>ADSCO PRINTING</b>	<b>315 1ST AVE W</b>	<b>SSW 1/4 - 1/2 (0.285 mi.)</b>	<b>106</b>	<b>37</b>
Facility Id: 18466563				
<b>UPTOWN FLATS QUEEN A</b>	<b>300 1ST AVE W</b>	<b>S 1/4 - 1/2 (0.289 mi.)</b>	<b>107</b>	<b>38</b>
Facility Id: 11691				
<b>ODEN INVESTMENT COND</b>	<b>619 5TH AVE W</b>	<b>W 1/4 - 1/2 (0.300 mi.)</b>	<b>109</b>	<b>38</b>
Facility Id: 52738943				
<b>MOUNTAINEERS MEANY S</b>	<b>300 3RD AVE</b>	<b>SSW 1/4 - 1/2 (0.323 mi.)</b>	<b>110</b>	<b>39</b>
Facility Id: 92791338				
<b>SEAVIEW CONDOMINIUM</b>	<b>519 W ROY ST</b>	<b>W 1/4 - 1/2 (0.327 mi.)</b>	<b>111</b>	<b>39</b>
Facility Id: 36987669				
<b>ELLIOTT TIRE CENTER</b>	<b>444 ELLIOTT AVE W</b>	<b>WSW 1/4 - 1/2 (0.341 mi.)</b>	<b>112</b>	<b>40</b>
Facility Id: 39595743				
<b>PHASERX PHARMACEUTIC</b>	<b>410 W HARRISON STE 3</b>	<b>SW 1/4 - 1/2 (0.345 mi.)</b>	<b>Z113</b>	<b>40</b>
Facility Id: 15315				
<b>GILEAD SCIENCES INC</b>	<b>410 W HARRISON ST 2N</b>	<b>SW 1/4 - 1/2 (0.345 mi.)</b>	<b>Z114</b>	<b>40</b>
Facility Id: 69317824				
<b>SKYLINE ELECTRIC MFG</b>	<b>203 W THOMAS ST</b>	<b>SSW 1/4 - 1/2 (0.346 mi.)</b>	<b>115</b>	<b>41</b>

## EXECUTIVE SUMMARY

Facility Id: 49345536				
<b>ELLIOTT BAY OFFICE P</b>	<b>300 ELLIOTT AVE W</b>	<b>SW 1/4 - 1/2 (0.349 mi.)</b>	<b>AA117</b>	<b>41</b>
Facility Id: 82545274				
<b>500 ELLIOT AVE SEATT</b>	<b>500 ELLIOT AVE</b>	<b>WSW 1/4 - 1/2 (0.353 mi.)</b>	<b>AB118</b>	<b>42</b>
Facility Id: 73748323				
SR99 NORTH ACCESS CO	INTERSECTION OF THOM	SSW 1/4 - 1/2 (0.357 mi.)	AA119	42
Facility Id: 19842				
<b>401 ELLIOTT BUILDING</b>	<b>401 ELLIOTT AVE W</b>	<b>SW 1/4 - 1/2 (0.362 mi.)</b>	<b>AC120</b>	<b>42</b>
Facility Id: 61923958				
<b>COLEMAN CREOSOTING W</b>	<b>333 ELLIOTT AVE W</b>	<b>SW 1/4 - 1/2 (0.364 mi.)</b>	<b>AA124</b>	<b>43</b>
Facility Id: 77732426				
FIRST WEST INVESTMEN	200 1ST AVE W ENTIRE	S 1/4 - 1/2 (0.373 mi.)	AD127	44
Facility Id: 892180				
<b>ANACOMP INC 1ST</b>	<b>200 1ST AVE W STE 10</b>	<b>S 1/4 - 1/2 (0.373 mi.)</b>	<b>AD128</b>	<b>44</b>
Facility Id: 35253939				
<b>WTD - ELLIOTT WEST /</b>	<b>545 ELLIOTT AVE W</b>	<b>WSW 1/4 - 1/2 (0.374 mi.)</b>	<b>AB129</b>	<b>45</b>
Facility Id: 9950578				
DENNY WESTER ELLIOTT	DENNY WESTER ELLIOTT	SSW 1/4 - 1/2 (0.377 mi.)	130	45
Facility Id: 3893				
<b>BLACKSTOCK PROPERTIE</b>	<b>501 ELLIOTT AVE W</b>	<b>WSW 1/4 - 1/2 (0.386 mi.)</b>	<b>131</b>	<b>45</b>
Facility Id: 74193555				
<b>PACIFIC SCIENCE CENT</b>	<b>200 2ND AVE N</b>	<b>SSW 1/4 - 1/2 (0.387 mi.)</b>	<b>132</b>	<b>46</b>
Facility Id: 2868852				
<b>UEKI CORP</b>	<b>600-614 ELLIOTT AVE</b>	<b>W 1/4 - 1/2 (0.392 mi.)</b>	<b>AE133</b>	<b>46</b>
Facility Id: 51828819				
<b>BLACKSTOCK LUMBER</b>	<b>601 ELLIOTT AVE W</b>	<b>WSW 1/4 - 1/2 (0.394 mi.)</b>	<b>134</b>	<b>47</b>
Facility Id: 2540				
<b>UEKI AMERICA CORP AC</b>	<b>602 ELLIOTT AVE W</b>	<b>W 1/4 - 1/2 (0.404 mi.)</b>	<b>AE138</b>	<b>48</b>
Facility Id: 46225744				
<b>133 QUEEN ANNE AVE N</b>	<b>133 QUEEN ANNE AVE N</b>	<b>S 1/4 - 1/2 (0.407 mi.)</b>	<b>AG139</b>	<b>49</b>
Facility Id: 95244754				
<b>ELLIOT &amp; MERCER BUIL</b>	<b>610 ELLIOTT AVE S</b>	<b>W 1/4 - 1/2 (0.411 mi.)</b>	<b>AH140</b>	<b>49</b>
Facility Id: 8789123				
<b>IMMUNEX CORPORATION</b>	<b>201 ELLIOTT AVE W ST</b>	<b>SSW 1/4 - 1/2 (0.411 mi.)</b>	<b>AI141</b>	<b>50</b>
Facility Id: 51138557				
GENETIC SYSTEMS CORP	201 ELLIOTT AVE W	SSW 1/4 - 1/2 (0.411 mi.)	AI142	50
Facility Id: 33396174				
BIOMEMBRANE INSTITUT	201 ELLIOTT AVE W ST	SSW 1/4 - 1/2 (0.411 mi.)	AI143	50
Facility Id: 63381766				
NANOSTRING TECHNOLOGI	201 ELLIOTT AVE W ST	SSW 1/4 - 1/2 (0.411 mi.)	AI144	50
Facility Id: 4310373				
FRED HUTCHINSON CANC	201 ELLIOTT AVE W ST	SSW 1/4 - 1/2 (0.411 mi.)	AI145	50
Facility Id: 64337568				
<b>CHIRON CORPORATION</b>	<b>201 ELLIOTT AVE W ST</b>	<b>SSW 1/4 - 1/2 (0.411 mi.)</b>	<b>AI146</b>	<b>51</b>
Facility Id: 51965935				
<b>CELL THERAPEUTICS IN</b>	<b>201 ELLIOTT AVE W ST</b>	<b>SSW 1/4 - 1/2 (0.411 mi.)</b>	<b>AI147</b>	<b>51</b>

## EXECUTIVE SUMMARY

Facility Id: 26672574					
<b>614 ELLIOTT AVE W</b>	<b>614 ELLIOTT AVE W</b>	<b>W 1/4 - 1/2 (0.413 mi.)</b>	<b>AH148</b>	<b>52</b>	
Facility Id: 38586341					
<b>BAY VIEW BLDG</b>	<b>129 1ST AVE W</b>	<b>S 1/4 - 1/2 (0.417 mi.)</b>	<b>150</b>	<b>52</b>	
Facility Id: 2851894					
<b>BARRAT TRANSFER &amp; ST</b>	<b>123 QUEEN AVE N PO B</b>	<b>S 1/4 - 1/2 (0.424 mi.)</b>	<b>AG151</b>	<b>53</b>	
Facility Id: 83727198					
<b>SHELL STATION 121456</b>	<b>630 ELLIOTT AVE W</b>	<b>W 1/4 - 1/2 (0.434 mi.)</b>	<b>AJ154</b>	<b>54</b>	
Facility Id: 22356455					
<b>MYLES STANDISH</b>	<b>420 MERCER ST</b>	<b>E 1/4 - 1/2 (0.439 mi.)</b>	<b>AK156</b>	<b>54</b>	
Facility Id: 25678675					
<b>ACCURATE SAFE LOCK C</b>	<b>815 5TH AVE N</b>	<b>ENE 1/4 - 1/2 (0.446 mi.)</b>	<b>157</b>	<b>55</b>	
Facility Id: 76229631					
<b>TERRY DENNY BUILDING</b>	<b>113 1ST AVE S</b>	<b>S 1/4 - 1/2 (0.449 mi.)</b>	<b>158</b>	<b>55</b>	
Facility Id: 26091491					
<b>UNOCAL MYRTLE EDWARD</b>	<b>3130 ALASKAN WAY W</b>	<b>SSW 1/4 - 1/2 (0.452 mi.)</b>	<b>162</b>	<b>57</b>	
Facility Id: 23180					
<b>SABEY CORP SEATTLE</b>	<b>101 ELLIOTT AVE W ST</b>	<b>SSW 1/4 - 1/2 (0.455 mi.)</b>	<b>AM164</b>	<b>58</b>	
Facility Id: 77921451					
<b>VERIZON WIRELESS WAR</b>	<b>101 ELLIOTT AVE W</b>	<b>SSW 1/4 - 1/2 (0.455 mi.)</b>	<b>AM165</b>	<b>58</b>	
Facility Id: 3321					
<b>DARIGOLD INC SEATTLE</b>	<b>635 ELLIOTT AVE W</b>	<b>W 1/4 - 1/2 (0.461 mi.)</b>	<b>AN166</b>	<b>58</b>	
Facility Id: 21722841					
<b>MERCER OPERATING BAS</b>	<b>520 5TH AVE N</b>	<b>ESE 1/4 - 1/2 (0.463 mi.)</b>	<b>AO168</b>	<b>59</b>	
Facility Id: 8984					
<b>TOOL TOWN</b>	<b>652 ELLIOTT AVE W</b>	<b>W 1/4 - 1/2 (0.464 mi.)</b>	<b>169</b>	<b>60</b>	
Facility Id: 49336173					
<b>JACKSONS 654</b>	<b>10 DENNY WAY</b>	<b>S 1/4 - 1/2 (0.465 mi.)</b>	<b>AP173</b>	<b>61</b>	
Facility Id: 49674295					
<b>SEATTLE SCHOOL DIST</b>	<b>401 5TH AVE N</b>	<b>ESE 1/4 - 1/2 (0.476 mi.)</b>	<b>175</b>	<b>62</b>	
Facility Id: 21791752					
<b>AMNIS</b>	<b>645 ELLIOTT AVE W ST</b>	<b>W 1/4 - 1/2 (0.478 mi.)</b>	<b>AN176</b>	<b>62</b>	
Facility Id: 39365					
Facility Id: 91494					
<b>AMNIS SEATTLE</b>	<b>645 ELLIOTT AVE W ST</b>	<b>W 1/4 - 1/2 (0.478 mi.)</b>	<b>AN177</b>	<b>63</b>	
Facility Id: 94718					
<b>CHAMPION TEUTSCH PRO</b>	<b>124 DENNY WAY</b>	<b>SSE 1/4 - 1/2 (0.480 mi.)</b>	<b>179</b>	<b>63</b>	
Facility Id: 3860					
<b>TOWER RECORDS FORMER</b>	<b>500 MERCER</b>	<b>E 1/4 - 1/2 (0.480 mi.)</b>	<b>AQ181</b>	<b>64</b>	
Facility Id: 1513190					
<b>S EPA H INC</b>	<b>150 DENNY WAY</b>	<b>SSE 1/4 - 1/2 (0.485 mi.)</b>	<b>182</b>	<b>64</b>	
Facility Id: 69274165					
<b>SEATTLE CITY OF</b>	<b>700 5TH AVE 2748</b>	<b>E 1/4 - 1/2 (0.489 mi.)</b>	<b>184</b>	<b>65</b>	
Facility Id: 22710					
Facility Id: 66988					
<b>DIAMOND PARKING INC</b>	<b>3161 ELLIOTT AVE</b>	<b>S 1/4 - 1/2 (0.494 mi.)</b>	<b>185</b>	<b>65</b>	
Facility Id: 13883456					
<b>IVARS SEAFOOD BAR</b>	<b>3101 1ST AVE</b>	<b>S 1/4 - 1/2 (0.495 mi.)</b>	<b>186</b>	<b>66</b>	

## EXECUTIVE SUMMARY

Facility Id: 38551499

**WY EAST COLOR INC**

Facility Id: 55175315

**517 ALOHA ST**

**ENE 1/4 - 1/2 (0.498 mi.) 187**

**66**

WA CSCSL NFA: A review of the WA CSCSL NFA list, as provided by EDR, and dated 04/16/2019 has revealed that there are 19 WA CSCSL NFA sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>RON ISAACS PROPERTY</b> Facility/Site Id: 37384634 CS Id: 5972	<b>14 ROY ST</b>	<b>E 0 - 1/8 (0.062 mi.)</b>	<b>C27</b>	<b>14</b>
<b>SEATTLE FIRE STATION</b> Facility/Site Id: 99984374 CS Id: 11375	<b>110 LEE ST</b>	<b>NNE 1/4 - 1/2 (0.396 mi.)</b>	<b>AF136</b>	<b>48</b>
<b>CHEVRON FACILITY 600</b> Facility/Site Id: 2481 CS Id: 5115	<b>1417 QUEEN ANNE AVE</b>	<b>N 1/4 - 1/2 (0.450 mi.)</b>	<b>AL159</b>	<b>56</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>AUCOTT TRUST PROPERT</b> Facility/Site Id: 995160 CS Id: 1399	<b>526-530 QUEEN ANNE A</b>	<b>SSE 0 - 1/8 (0.100 mi.)</b>	<b>H54</b>	<b>21</b>
<b>SEATTLE POWER CONTRO</b> Facility/Site Id: 45112163 CS Id: 9263	<b>157 ROY ST</b>	<b>E 1/8 - 1/4 (0.160 mi.)</b>	<b>N73</b>	<b>27</b>
<b>USPS QUEEN ANNE</b> Facility/Site Id: 31537996 CS Id: 8673	<b>415 1ST AVE N</b>	<b>SSE 1/8 - 1/4 (0.194 mi.)</b>	<b>S82</b>	<b>30</b>
<b>REPUBLICAN APARTMENT</b> Facility/Site Id: 56385827 CS Id: 9739	<b>323 W REPUBLICAN ST</b>	<b>SW 1/4 - 1/2 (0.269 mi.)</b>	<b>99</b>	<b>35</b>
<b>MOUNTAINEERS MEANY S</b> Facility/Site Id: 92791338 CS Id: 11613	<b>300 3RD AVE</b>	<b>SSW 1/4 - 1/2 (0.323 mi.)</b>	<b>110</b>	<b>39</b>
<b>ELLIOTT BAY OFFICE P</b> Facility/Site Id: 82545274 CS Id: 6715	<b>300 ELLIOTT AVE W</b>	<b>SW 1/4 - 1/2 (0.349 mi.)</b>	<b>AA117</b>	<b>41</b>
<b>401 ELLIOTT BUILDING</b> Facility/Site Id: 61923958 CS Id: 6384	<b>401 ELLIOTT AVE W</b>	<b>SW 1/4 - 1/2 (0.362 mi.)</b>	<b>AC120</b>	<b>42</b>
<b>UEKI CORP</b> Facility/Site Id: 51828819 CS Id: 6206	<b>600-614 ELLIOTT AVE</b>	<b>W 1/4 - 1/2 (0.392 mi.)</b>	<b>AE133</b>	<b>46</b>
<b>133 QUEEN ANNE AVE N</b> Facility/Site Id: 95244754 CS Id: 6920	<b>133 QUEEN ANNE AVE N</b>	<b>S 1/4 - 1/2 (0.407 mi.)</b>	<b>AG139</b>	<b>49</b>
<b>BAY VIEW BLDG</b>	<b>129 1ST AVE W</b>	<b>S 1/4 - 1/2 (0.417 mi.)</b>	<b>150</b>	<b>52</b>

## EXECUTIVE SUMMARY

Facility/Site Id: 2851894 CS Id: 2099				
<b>BARRAT TRANSFER &amp; ST</b> Facility/Site Id: 83727198 CS Id: 10697	<b>123 QUEEN AVE N PO B</b>	<b>S 1/4 - 1/2 (0.424 mi.)</b>	<b>AG151</b>	<b>53</b>
<b>SHELL STATION 121456</b> Facility/Site Id: 22356455 CS Id: 5701	<b>630 ELLIOTT AVE W</b>	<b>W 1/4 - 1/2 (0.434 mi.)</b>	<b>AJ154</b>	<b>54</b>
<b>TOOL TOWN</b> Facility/Site Id: 49336173 CS Id: 9437	<b>652 ELLIOTT AVE W</b>	<b>W 1/4 - 1/2 (0.464 mi.)</b>	<b>169</b>	<b>60</b>
<b>JACKSONS 654</b> Facility/Site Id: 49674295 CS Id: 6174	<b>10 DENNY WAY</b>	<b>S 1/4 - 1/2 (0.465 mi.)</b>	<b>AP173</b>	<b>61</b>
<b>TOWER RECORDS FORMER</b> Facility/Site Id: 1513190 CS Id: 1451	<b>500 MERCER</b>	<b>E 1/4 - 1/2 (0.480 mi.)</b>	<b>AQ181</b>	<b>64</b>
<b>IVARS SEAFOOD BAR</b> Facility/Site Id: 38551499 CS Id: 1701	<b>3101 1ST AVE</b>	<b>S 1/4 - 1/2 (0.495 mi.)</b>	<b>186</b>	<b>66</b>

### Other Ascertainable Records

RCRA NonGen / NLR: A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/25/2019 has revealed that there are 21 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>UNOCAL 306566</b> EPA ID:: WAD988502878	<b>700 QUEEN ANNE AVE N</b>	<b>NE 0 - 1/8 (0.034 mi.)</b>	<b>B21</b>	<b>12</b>
<b>RON ISAACS PROPERTY</b> EPA ID:: WAH000005744	<b>14 ROY ST</b>	<b>E 0 - 1/8 (0.062 mi.)</b>	<b>C27</b>	<b>14</b>
<b>BAYVIEW MANOR HOMES</b> EPA ID:: WAD079261970	<b>11 W ALOHA ST</b>	<b>N 0 - 1/8 (0.104 mi.)</b>	<b>57</b>	<b>22</b>
<b>WARD APARTMENTS</b> EPA ID:: WAD981766975	<b>105 WARD ST</b>	<b>NNE 1/8 - 1/4 (0.188 mi.)</b>	<b>77</b>	<b>28</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>MONTEREY APARTMENTS</b> EPA ID:: WAD981772858	<b>622 1ST AVE W &amp; QUEE</b>	<b>WSW 0 - 1/8 (0.041 mi.)</b>	<b>23</b>	<b>13</b>
<b>WA UW 601 QUEEN ANNE</b> EPA ID:: WAH000050158	<b>601 QUEEN ANNE AVE N</b>	<b>SSE 0 - 1/8 (0.064 mi.)</b>	<b>E32</b>	<b>16</b>
<b>QUEEN ANNE CLEANERS</b> EPA ID:: WAD988502555	<b>603 QUEEN ANNE AVE N</b>	<b>SSE 0 - 1/8 (0.064 mi.)</b>	<b>E33</b>	<b>16</b>
<b>MARQUEEN GARAGE MERC</b>	<b>10 MERCER ST</b>	<b>SSE 0 - 1/8 (0.065 mi.)</b>	<b>E37</b>	<b>17</b>

## EXECUTIVE SUMMARY

EPA ID:: WA0000097865				
<b>KITS CAMERA 1028</b>	<b>11 MERCER ST</b>	<b>SSE 0 - 1/8 (0.087 mi.)</b>	<b>G49</b>	<b>20</b>
EPA ID:: WAR000000729				
<b>US DOJ DEA WEST MERC</b>	<b>220 W MERCER STE 104</b>	<b>WSW 1/8 - 1/4 (0.142 mi.)</b>	<b>68</b>	<b>25</b>
EPA ID:: WA8150000182				
<b>HELENAS QUEEN ANNE C</b>	<b>535 WARREN AVE N</b>	<b>SE 1/8 - 1/4 (0.164 mi.)</b>	<b>P74</b>	<b>27</b>
EPA ID:: WAD988480026				
<b>SEATTLE REPERTORY TH</b>	<b>155 MERCER ST</b>	<b>ESE 1/8 - 1/4 (0.165 mi.)</b>	<b>O75</b>	<b>28</b>
EPA ID:: WAD982658486				
<b>PANDA PHOTOGRAPHIC L</b>	<b>533 WARREN AVE N</b>	<b>SE 1/8 - 1/4 (0.166 mi.)</b>	<b>P76</b>	<b>28</b>
EPA ID:: WAR000008797				
<b>SEATTLE CENTER 5.5 B</b>	<b>621 2ND AVE N</b>	<b>E 1/8 - 1/4 (0.190 mi.)</b>	<b>Q78</b>	<b>29</b>
EPA ID:: WAD980835912				
<b>QUEEN ANNE AUTO BODY</b>	<b>420 QUEEN ANNE AVE N</b>	<b>S 1/8 - 1/4 (0.191 mi.)</b>	<b>R80</b>	<b>29</b>
EPA ID:: WAD980978910				
<b>FILM STOP</b>	<b>508 3RD AVE W</b>	<b>SW 1/8 - 1/4 (0.197 mi.)</b>	<b>83</b>	<b>30</b>
EPA ID:: WAR000011296				
HARRISON STREET HOLD	223 W REPUBLICAN	SW 1/8 - 1/4 (0.207 mi.)	T85	31
EPA ID:: WAH000049270				
<b>WA UW QUEEN ANNE</b>	<b>401 QUEEN ANNE AVE N</b>	<b>S 1/8 - 1/4 (0.211 mi.)</b>	<b>U88</b>	<b>32</b>
EPA ID:: WAD988470621				
US DEPT OF JUSTICE D	400 SECOND AVE MIDFI	SSW 1/8 - 1/4 (0.214 mi.)	V92	33
EPA ID:: WAH000024079				
<b>FRANK PANTLYS AUTO R</b>	<b>225 ROY ST</b>	<b>E 1/8 - 1/4 (0.245 mi.)</b>	<b>94</b>	<b>33</b>
EPA ID:: WAD027461185				
<b>WESTERN PUBLISHER SE</b>	<b>414 3RD AVE W</b>	<b>SW 1/8 - 1/4 (0.248 mi.)</b>	<b>95</b>	<b>34</b>
EPA ID:: WAD010206480				

WA Inactive Drycleaners: A review of the WA Inactive Drycleaners list, as provided by EDR, and dated 04/22/2019 has revealed that there are 3 WA Inactive Drycleaners sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>RON ISAACS PROPERTY</b>	<b>14 ROY ST</b>	<b>E 0 - 1/8 (0.062 mi.)</b>	<b>C27</b>	<b>14</b>
EPA I: WAH000005744				
Facility ID: 4473				
Facility ID: 37384634				
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>QUEEN ANNE CLEANERS</b>	<b>603 QUEEN ANNE AVE N</b>	<b>SSE 0 - 1/8 (0.064 mi.)</b>	<b>E33</b>	<b>16</b>
EPA I: WAD988502555				
Facility ID: 10792				
Facility ID: 97316275				
<b>HELENAS QUEEN ANNE C</b>	<b>535 WARREN AVE N</b>	<b>SE 1/8 - 1/4 (0.164 mi.)</b>	<b>P74</b>	<b>27</b>
EPA I: WAD988480026				

## EXECUTIVE SUMMARY

Facility ID: 51166557

WA MANIFEST: A review of the WA MANIFEST list, as provided by EDR, and dated 03/29/2019 has revealed that there are 11 WA MANIFEST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>UNOCAL 0255</b> Facility Site ID Number: 59972834 Gen Status CD: XQG EPA ID: WAD988502878	<b>700 QUEEN ANNE AVE N</b>	<b>NE 0 - 1/8 (0.034 mi.)</b>	<b>B20</b>	<b>12</b>
<b>UNOCAL 306566</b> Facility Site ID Number: 59972834 Gen Status CD: XQG Gen Status CD: SQG EPA ID: WAD988502878	<b>700 QUEEN ANNE AVE N</b>	<b>NE 0 - 1/8 (0.034 mi.)</b>	<b>B21</b>	<b>12</b>
<b>BAYVIEW MANOR HOMES</b> Facility Site ID Number: 27551658 Gen Status CD: SQG EPA ID: WAD079261970	<b>11 W ALOHA ST</b>	<b>N 0 - 1/8 (0.104 mi.)</b>	<b>57</b>	<b>22</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>WA UW 601 QUEEN ANNE</b> Facility Site ID Number: 17372 Gen Status CD: MQG EPA ID: WAH000050158	<b>601 QUEEN ANNE AVE N</b>	<b>SSE 0 - 1/8 (0.064 mi.)</b>	<b>E31</b>	<b>16</b>
<b>CVS PHARMACY 10331</b> Facility Site ID Number: 8522 Gen Status CD: LQG EPA ID: WAH000051580	<b>531 QUEEN ANNE AVE N</b>	<b>S 0 - 1/8 (0.081 mi.)</b>	<b>E47</b>	<b>20</b>
<b>KITS CAMERA 1028</b> Facility Site ID Number: 29477584 Gen Status CD: SQG EPA ID: WAR000000729	<b>11 MERCER ST</b>	<b>SSE 0 - 1/8 (0.087 mi.)</b>	<b>G49</b>	<b>20</b>
<b>SAFeway STORE 1885</b> Facility Site ID Number: 3147 Gen Status CD: SQG EPA ID: WAH000045138	<b>516 1ST AVE W</b>	<b>SSW 0 - 1/8 (0.113 mi.)</b>	<b>L61</b>	<b>23</b>
<b>HELENAS QUEEN ANNE C</b> Facility Site ID Number: 51166557 Gen Status CD: SQG EPA ID: WAD988480026	<b>535 WARREN AVE N</b>	<b>SE 1/8 - 1/4 (0.164 mi.)</b>	<b>P74</b>	<b>27</b>
<b>HARRISON STREET HOLD</b> Facility Site ID Number: 14206 Gen Status CD: LQG EPA ID: WAH000049270	<b>223 W REPUBLICAN</b>	<b>SW 1/8 - 1/4 (0.207 mi.)</b>	<b>T84</b>	<b>31</b>
<b>WA UW QUEEN ANNE</b> Facility Site ID Number: 15238964 Gen Status CD: SQG	<b>401 QUEEN ANNE AVE N</b>	<b>S 1/8 - 1/4 (0.211 mi.)</b>	<b>U87</b>	<b>31</b>

## EXECUTIVE SUMMARY

EPA ID: WAD988507703  
 US DEPT OF JUSTICE D 400 SECOND AVENUE MI SSW 1/8 - 1/4 (0.214 mi.) V90 32  
 Facility Site ID Number: 3497943  
 Gen Status CD: XQG  
 EPA ID: WAH000024079

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR MGP: A review of the EDR MGP list, as provided by EDR, has revealed that there are 2 EDR MGP sites within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SEATTLE LIGHTING CO	1123 ELLIOT AVE W	WNW 1/2 - 1 (0.777 mi.)	AR218	81
WASHINGTON NATURAL G	815 MERCER ST	E 1/2 - 1 (0.787 mi.)	220	81

EDR Hist Auto: A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 15 EDR Hist Auto sites within approximately 0.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PUBLIX SUPER SERVICE	QUEEN ANNE AVE & ROY	E 0 - 1/8 (0.019 mi.)	A15	11
COUNTER BALANCE UNIO	700 QUEEN ANNE AVE N	NE 0 - 1/8 (0.034 mi.)	B18	11
EARLING AUTO REPAIR	14 W ROY	NW 0 - 1/8 (0.035 mi.)	22	13
MARKWELL BERT	725 1ST AVE W	NW 0 - 1/8 (0.072 mi.)	F40	18
MC CARTY S TEXACO ST	831 QUEEN ANNE AVE	N 0 - 1/8 (0.077 mi.)	42	18
TORVANGER JOHN H	101 OLYMPIC WAY	NW 0 - 1/8 (0.093 mi.)	F51	21
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MC CARTYS & LEWIS TE	629-31 QUEEN ANNE	SE 0 - 1/8 (0.015 mi.)	A13	11
MERCER STREET MOBIL	16 W MERCER ST	SSW 0 - 1/8 (0.058 mi.)	25	14
MLINSON MAGNUS A	10 W MERCER	SSE 0 - 1/8 (0.065 mi.)	E36	17
BEARDSLEY L R	10 MERCER	SSE 0 - 1/8 (0.065 mi.)	E38	18
LANGDON SIG	541 QUEEN ANNE AVE	S 0 - 1/8 (0.080 mi.)	E45	19
ROSE LEO	25 MERCER	SE 0 - 1/8 (0.100 mi.)	J55	22
BROOKS THEO R COR AV	1ST AVE N & MERCER S	SE 0 - 1/8 (0.102 mi.)	J56	22
KNECHTEL REUBEN T	537 1ST AVE N	SE 0 - 1/8 (0.112 mi.)	J59	23
SCOTT ROGER STEPHEN	200 W MERCER ST	WSW 0 - 1/8 (0.120 mi.)	M67	25

EDR Hist Cleaner: A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there are 18 EDR Hist Cleaner sites within approximately 0.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
QUEEN ANNE CLEANERS	2 W ROY ST	NE 0 - 1/8 (0.022 mi.)	A17	11
PARAMOUNT CLEANERS I	14 ROY ST	E 0 - 1/8 (0.062 mi.)	C28	15

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BELLA CLEANERS	618 1ST AVE N	ESE 0 - 1/8 (0.092 mi.)	I50	21
MARKETPLACE CLEANERS	600 1ST AVE N	ESE 0 - 1/8 (0.098 mi.)	I53	21

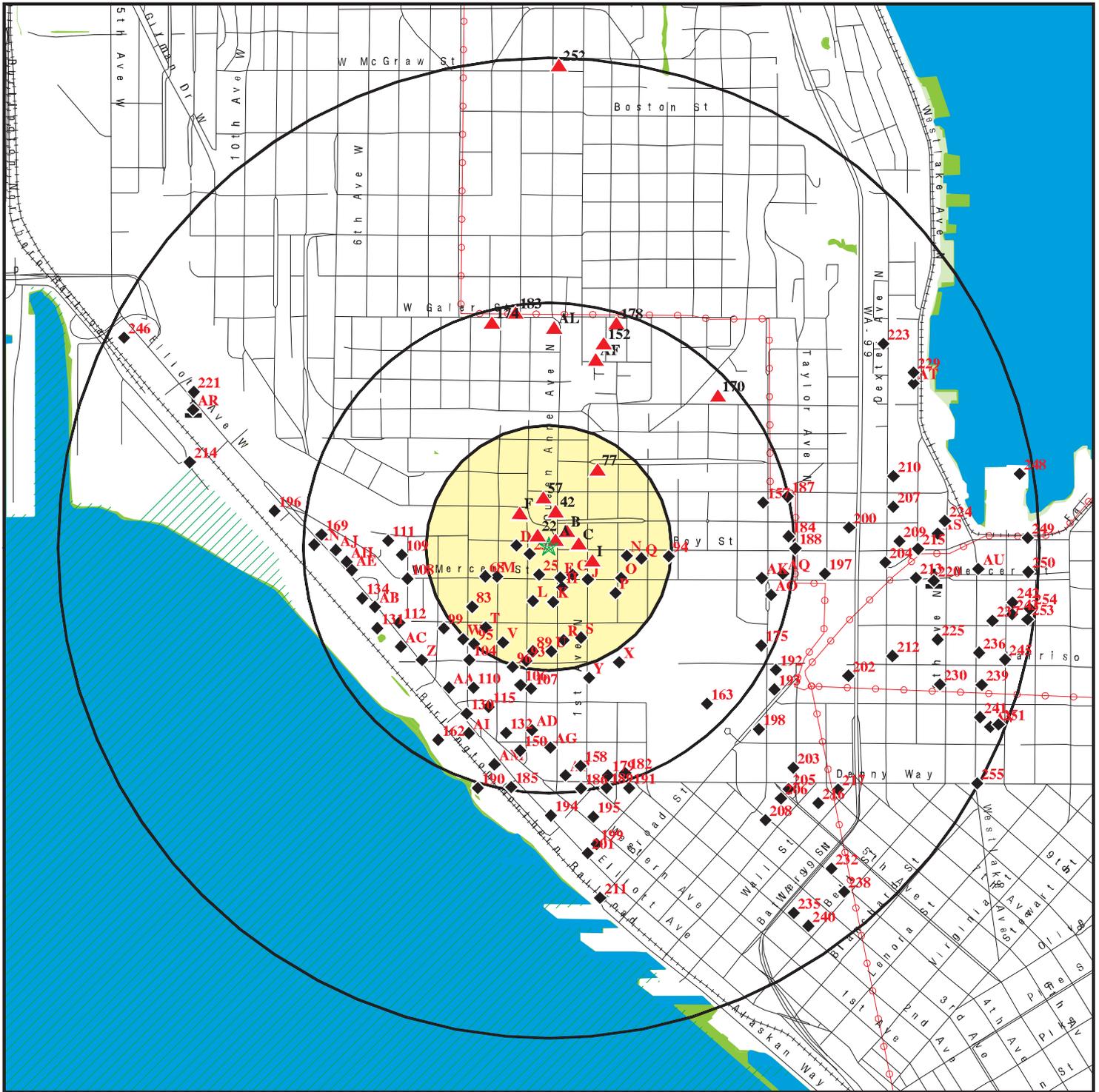
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ACME DYE WORKS	629 QUEEN ANNE AVE	SE 0 - 1/8 (0.015 mi.)	A12	10
UPTOWN LAUNDRY	623 QUEEN ANNE AVE	SSE 0 - 1/8 (0.019 mi.)	A14	11
WOO LEE HAND LAUNDRY	621 QUEEN ANNE AVE	SSE 0 - 1/8 (0.020 mi.)	A16	11
WEST BOY STREET LAUN	104 W ROY	W 0 - 1/8 (0.062 mi.)	D30	15
Q A CLEANERS	603 QUEEN ANNE AVE N	SSE 0 - 1/8 (0.064 mi.)	E34	17
ACME CLEANERS	8 W MERCER	SSE 0 - 1/8 (0.065 mi.)	E35	17
FASHION LINEN AND TO	112 W ROY	W 0 - 1/8 (0.066 mi.)	D39	18
MARKETPLACE CLEANERS	12 MERCER ST	SE 0 - 1/8 (0.073 mi.)	G41	18
CORRY S FINE DRY CLE	541 QUEEN ANNE AVE N	S 0 - 1/8 (0.080 mi.)	E44	19
PRIM CLEANERS	538 QUEEN ANNE AVE N	SSE 0 - 1/8 (0.085 mi.)	H48	20
QUEEN ANNE CLEANERS	519 QUEEN ANNE AVE	S 0 - 1/8 (0.111 mi.)	K58	23
SPOKANE CHARLIE S HA	515 QUEEN ANNE AVE	S 0 - 1/8 (0.116 mi.)	K62	23
SPIC N SPAN CLEANERS	127 W MERCER ST	SW 0 - 1/8 (0.116 mi.)	M63	24
FIRST AVENUE NORTH S	530 1ST AVE N	SE 0 - 1/8 (0.118 mi.)	J64	24

Count: 8 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SEATTLE	S105454254	BLACKSTOCK LUMBER (TWO REPORTS)	545, 601 & 631 ELLIOTT AVE. W.	98119	WA ICR
SEATTLE	S105454253	BLACKSTOCK LUMBER	545, 601 & 631 ELLIOTT AVE. W.	98119	WA ICR
SEATTLE	S105454433	SIMPSON HOUSING SITE	BETWEEN W. HARRISON & W. THOMA	98119	WA ICR
SEATTLE	S105454208	CHEVRON #9 7032	NE CORNER DENNY WAY & 5TH AVE.		WA ICR
SEATTLE	S103507471	FIRST FREE METHODIST EXPANSION	W. CREMONA AND W. 3RD AVE.	98119	WA ICR
SEATTLE	S103508620	PIER 66	PORT OF SEATTLE	98121	WA ICR
SEATTLE	S104959652	PACIFIC NORTHWEST BALLET (SEATTLE	SEATTLE CENTER	98109	WA ICR
SEATTLE	S103512773	PACIFIC SCIENCE CENTER IMAX PROJEC	SEATTLE CENTER	98109	WA ICR

# OVERVIEW MAP - 5731894.2S



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- ⚡ Power transmission lines
- ▨ 100-year flood zone
- ▨ 500-year flood zone
- National Wetland Inventory
- State Wetlands

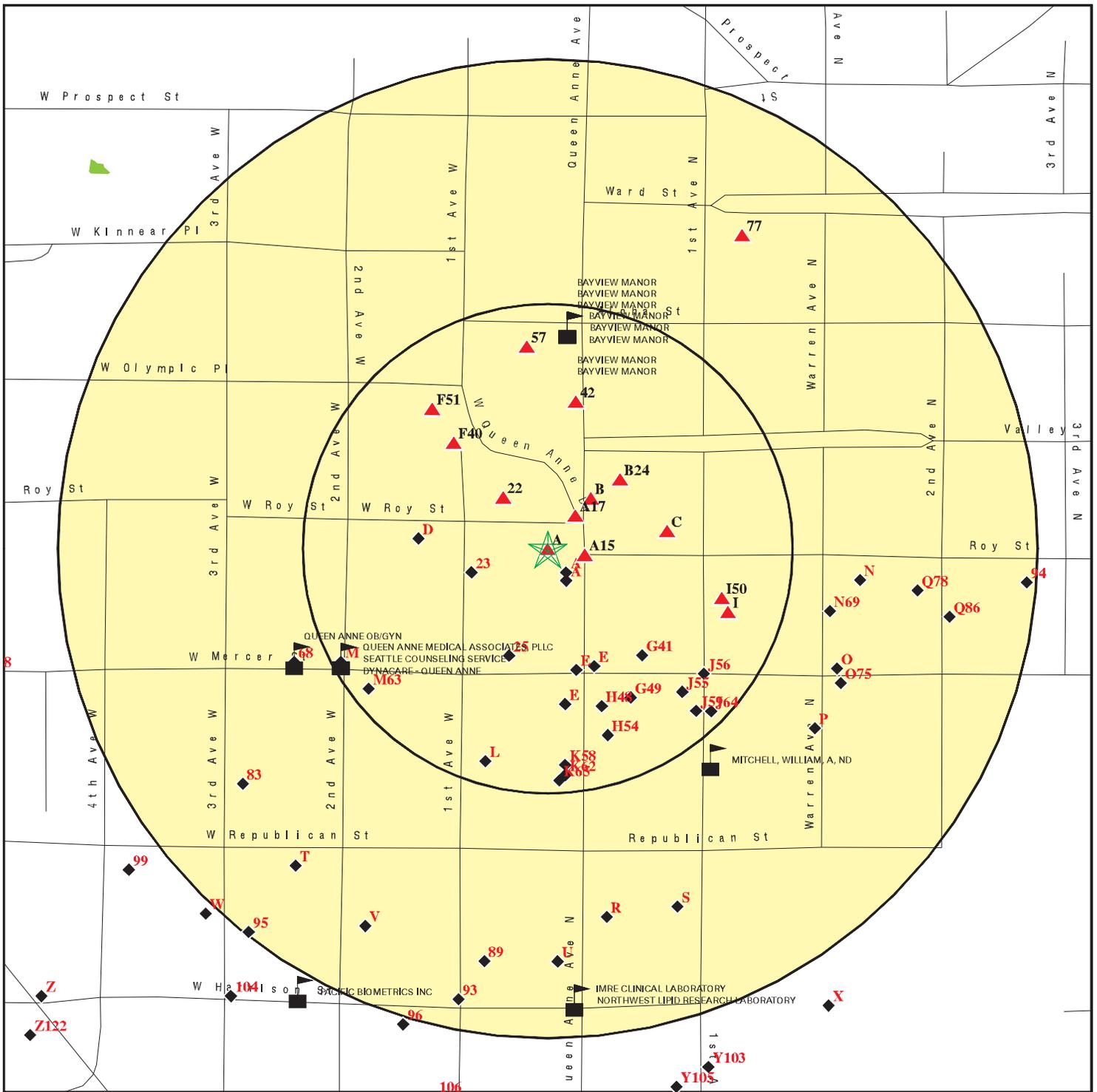


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 631 Queen Anne Avenue North  
 ADDRESS: 631 Queen Anne Avenue North  
 SEATTLE WA 98109  
 LAT/LONG: 47.625498 / 122.35711

CLIENT: ARCADIS U.S., Inc.  
 CONTACT: Julia Vidonish  
 INQUIRY #: 5731894.2s  
 DATE: July 29, 2019 11:42 am

# DETAIL MAP - 5731894.2S



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites

- Indian Reservations BIA
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 631 Queen Anne Avenue North  
 ADDRESS: 631 Queen Anne Avenue North  
 SEATTLE WA 98109  
 LAT/LONG: 47.625498 / 122.35711

CLIENT: ARCADIS U.S., Inc.  
 CONTACT: Julia Vidonish  
 INQUIRY #: 5731894.2s  
 DATE: July 29, 2019 11:48 am

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Federal NPL site list</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<b><i>Federal CERCLIS NFRAP site list</i></b>								
SEMS-ARCHIVE	0.500		0	0	1	NR	NR	1
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	0	0	0	NR	0
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG	0.250		1	0	NR	NR	NR	1
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		1	1	NR	NR	NR	2
<b><i>Federal institutional controls / engineering controls registries</i></b>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	TP		NR	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent NPL</i></b>								
WA HSL	1.000		4	1	2	11	NR	18
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
WA CSCSL	1.000	1	4	2	13	66	NR	86
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
WA SWF/LF	0.500		0	0	0	NR	NR	0
<b><i>State and tribal leaking storage tank lists</i></b>								
WA LUST	0.500	1	2	3	18	NR	NR	24

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
<b>State and tribal registered storage tank lists</b>								
FEMA UST	0.250		0	0	NR	NR	NR	0
WA UST	0.250	1	3	5	NR	NR	NR	9
WA AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
<b>State and tribal institutional control / engineering control registries</b>								
WA INST CONTROL	0.500		0	0	1	NR	NR	1
<b>State and tribal voluntary cleanup sites</b>								
WA ICR	0.500	1	3	3	20	NR	NR	27
WA VCP	0.500	1	3	1	13	NR	NR	18
INDIAN VCP	0.500		0	0	0	NR	NR	0
WA PTAP	0.500		0	0	0	NR	NR	0
<b>State and tribal Brownfields sites</b>								
WA BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b><u>ADDITIONAL ENVIRONMENTAL RECORDS</u></b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS	0.500		0	0	1	NR	NR	1
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
WA SWTIRE	0.500		0	0	0	NR	NR	0
WA SWRCY	0.500		2	0	1	NR	NR	3
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
WA ALLSITES	0.500	1	13	20	73	NR	NR	107
WA CDL	TP		NR	NR	NR	NR	NR	0
WA HIST CDL	TP		NR	NR	NR	NR	NR	0
WA CSCSL NFA	0.500		2	2	15	NR	NR	19
US CDL	TP		NR	NR	NR	NR	NR	0
WA PFAS	0.500		0	0	0	NR	NR	0
<b>Local Land Records</b>								
LIENS 2	TP		NR	NR	NR	NR	NR	0
<b>Records of Emergency Release Reports</b>								
HMIRS	TP		NR	NR	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
WA SPILLS	TP		NR	NR	NR	NR	NR	0
WA SPILLS 90	TP		NR	NR	NR	NR	NR	0
<b>Other Ascertainable Records</b>								
RCRA NonGen / NLR	0.250	1	8	13	NR	NR	NR	22
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
ECHO	TP	1	NR	NR	NR	NR	NR	1
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
WA AIRS	TP		NR	NR	NR	NR	NR	0
WA ASBESTOS	TP		NR	NR	NR	NR	NR	0
WA COAL ASH	0.500		0	0	0	NR	NR	0
WA DRYCLEANERS	0.250		0	0	NR	NR	NR	0
WA Financial Assurance	TP		NR	NR	NR	NR	NR	0
WA Inactive Drycleaners	0.250		2	1	NR	NR	NR	3
WA MANIFEST	0.250	2	7	4	NR	NR	NR	13
NY MANIFEST	0.250		0	0	NR	NR	NR	0
WA NPDES	TP		NR	NR	NR	NR	NR	0
WA UIC	TP		NR	NR	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b><u>EDR HIGH RISK HISTORICAL RECORDS</u></b>								
<b><i>EDR Exclusive Records</i></b>								
EDR MGP	1.000		0	0	0	2	NR	2
EDR Hist Auto	0.125	3	15	NR	NR	NR	NR	18
EDR Hist Cleaner	0.125		18	NR	NR	NR	NR	18
<b><u>EDR RECOVERED GOVERNMENT ARCHIVES</u></b>								
<b><i>Exclusive Recovered Govt. Archives</i></b>								
WA RGA HWS	TP	1	NR	NR	NR	NR	NR	1
WA RGA LF	TP		NR	NR	NR	NR	NR	0
WA RGA LUST	TP	4	NR	NR	NR	NR	NR	4
- Totals --		19	88	56	158	79	0	400

**NOTES:**

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database



**631 Queen Anne Avenue North**

631 Queen Anne Avenue North

SEATTLE, WA 98109

Inquiry Number: 5731894.8

July 29, 2019

## The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

**Site Name:**

631 Queen Anne Avenue North  
 631 Queen Anne Avenue North  
 SEATTLE, WA 98109  
 EDR Inquiry # 5731894.8

**Client Name:**

ARCADIS U.S., Inc.  
 111 SW Columbia Street  
 Portland, OR 97201  
 Contact: Julia Vidonish



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

**Search Results:**

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2017	1"=500'	Flight Year: 2017	USDA/NAIP
2013	1"=500'	Flight Year: 2013	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1990	1"=500'	Acquisition Date: July 10, 1990	USGS/DOQQ
1985	1"=500'	Flight Date: June 19, 1985	NRWA
1980	1"=500'	Flight Date: July 08, 1980	USDA
1977	1"=500'	Flight Date: September 05, 1977	USGS
1969	1"=500'	Flight Date: June 30, 1969	USGS
1965	1"=500'	Flight Date: June 30, 1965	USGS
1956	1"=750'	Flight Date: August 07, 1956	USC&GS
1953	1"=500'	Flight Date: September 09, 1953	U of WA
1944	1"=500'	Flight Date: April 27, 1944	DIA
1936	1"=500'	Flight Date: January 01, 1936	KCDOT

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INQUIRY #: 5731894.8

YEAR: 2017

— = 500'





INQUIRY #: 5731894.8

YEAR: 2013

— = 500'





INQUIRY #: 5731894.8

YEAR: 2009

— = 500'





INQUIRY #: 5731894.8

YEAR: 2006

— = 500'



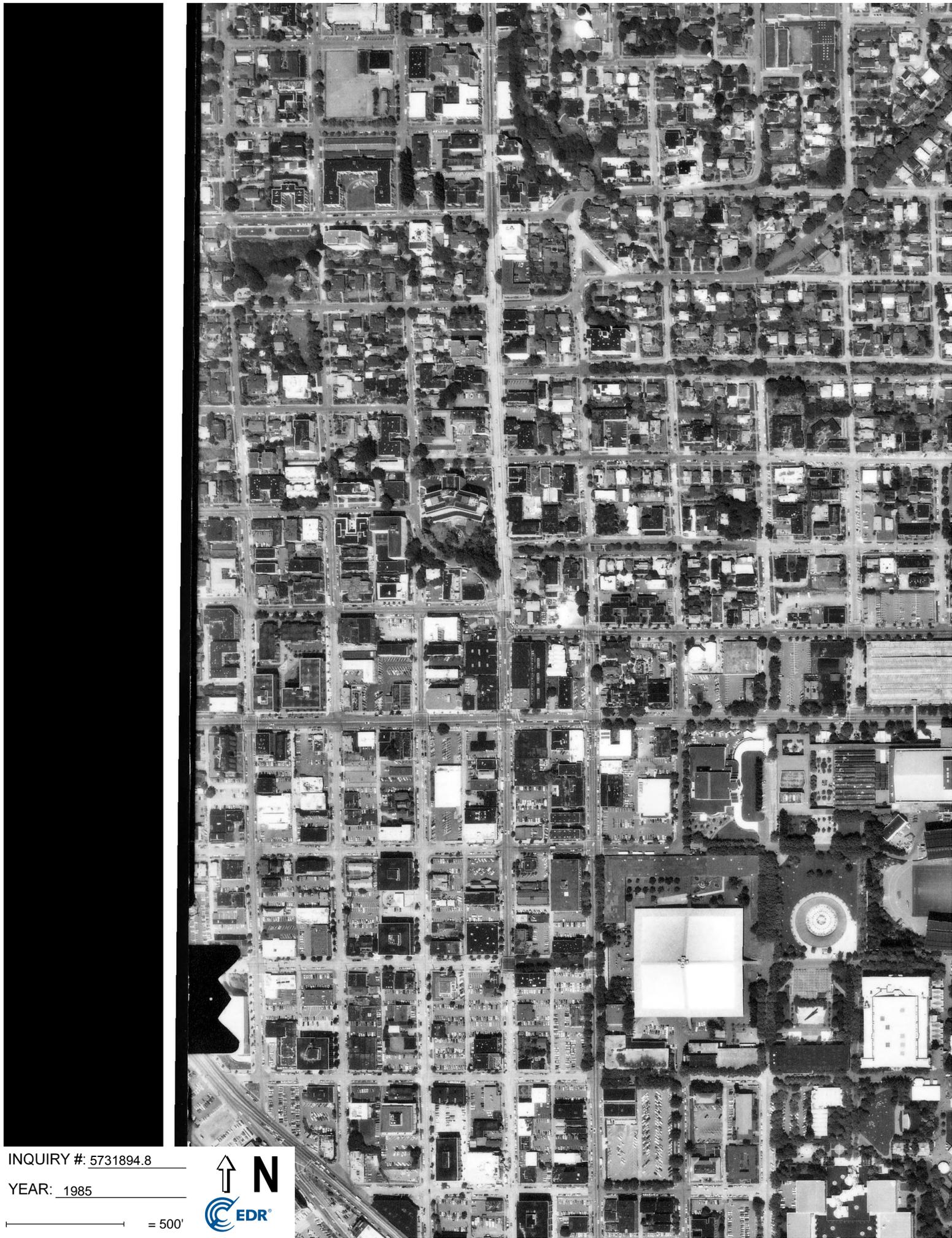


INQUIRY #: 5731894.8

YEAR: 1990

— = 500'





INQUIRY #: 5731894.8

YEAR: 1985

— = 500'





INQUIRY #: 5731894.8

YEAR: 1980

— = 500'





INQUIRY #: 5731894.8

YEAR: 1977

— = 500'





INQUIRY #: 5731894.8

YEAR: 1969

— = 500'





6-30-65

INQUIRY #: 5731894.8

YEAR: 1965

— = 500'





INQUIRY #: 5731894.8

YEAR: 1956

\_\_\_\_\_ = 750'





INQUIRY #: 5731894.8

YEAR: 1953

— = 500'





INQUIRY #: 5731894.8

YEAR: 1944

— = 500'





INQUIRY #: 5731894.8

YEAR: 1936

— = 500'



**631 Queen Anne Avenue North**

631 Queen Anne Avenue North  
SEATTLE, WA 98109

Inquiry Number: 5731894.5  
July 29, 2019

# The EDR-City Directory Abstract

## TABLE OF CONTENTS

### **SECTION**

**Executive Summary**

**Findings**

**City Directory Images**

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

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## EXECUTIVE SUMMARY

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2014. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

### RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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### RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2014	EDR Digital Archive	-	X	X	-
2010	EDR Digital Archive	-	X	X	-
2005	Cole Information Services	-	X	X	X
1996	R.L. Polk Co. Publishers	-	X	X	X
	R.L. Polk Co. Publishers	X	X	X	X
1991	R.L. Polk Co Publishers	-	-	-	-
1990	R.L. Polk Co. Publishers	-	X	X	X
	R.L. Polk Co. Publishers	X	X	X	X
1986	R.L. Polk Co. Publishers	-	X	X	X
	R.L. Polk Co. Publishers	X	X	X	X
1985	R.L. Polk Co Publishers	-	-	-	-
1981	R. L. Polk Co. Publisher	-	-	-	-

## EXECUTIVE SUMMARY

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
1980	R.L. Polk Co. Publishers	-	X	X	X
	R.L. Polk Co. Publishers	X	X	X	X
1977	R.L. Polk Co. Publishers	-	-	-	-
1975	R.L. Polk Co. Publishers	-	X	X	X
	R.L. Polk Co. Publishers	X	X	X	X
1971	Pacific Northwest Bell Telephone Company	-	-	-	-
1970	R.L. Polk Co Publishers	-	X	X	X
	R.L. Polk Co Publishers	X	X	X	X
1969	R.L. Polk Co. Publishers	-	-	-	-
1966	R.L. Polk Co Publishers	-	X	X	X
	R.L. Polk Co Publishers	X	X	X	X
1960	R.L. Polk Co Publishers	-	X	X	X
	R.L. Polk Co Publishers	X	X	X	X
1955	R.L. Polk Co Publishers	-	X	X	X
	R.L. Polk Co Publishers	X	X	X	X
1951	R.L. Polk Co Publishers	-	X	X	X
	R.L. Polk Co Publishers	X	X	X	X
1944	R. L. Polk & Co.	-	X	X	X
	R. L. Polk & Co.	X	X	X	X
1940	R.L. Polk Co publishers	-	X	X	X
	R.L. Polk Co publishers	X	X	X	X
1935	R.L. Polk Co Publishers	-	X	X	-
1930	R.L. Polk Co Publishers	-	X	X	-
1925	R.L. Polk Co Publishers	-	X	X	-
1920	R.L. Polk Co Publishers	-	X	X	-

## **RECORD SOURCES**

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# FINDINGS

## TARGET PROPERTY INFORMATION

### ADDRESS

631 Queen Anne Avenue North  
SEATTLE, WA 98109

### FINDINGS DETAIL

Target Property research detail.

## N QUEEN ANNE AVE

### **631 N QUEEN ANNE AVE**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	MANHATTAN EXPRESS	R.L. Polk Co. Publishers	Image pg. A13
1990	Arnolds Mini Mart gro	R.L. Polk Co. Publishers	Image pg. A24
1986	Arnolds Mini Mart	R.L. Polk Co. Publishers	Image pg. A38
1980	Uptowni Texaco Service	R.L. Polk Co. Publishers	Image pg. A50
1975	Uptown Texaco Service	R.L. Polk Co. Publishers	Image pg. A66
1970	UPTOWN TEXACO SERVICE AT	R.L. Polk Co Publishers	Image pg. A78
1966	MC CARTYS TEXACO SERVICE AT	R.L. Polk Co Publishers	Image pg. A88

## QUEEN ANNE AVE

### **631 QUEEN ANNE AVE**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Mc Cartys Texaco Serv	R.L. Polk Co Publishers	Image pg. A111
1951	Mc Cartys Texaco Sta	R.L. Polk Co Publishers	Image pg. A143
1944	Mc Cartys Texaco Service	R. L. Polk & Co.	Image pg. A158

## QUEEN ANNE DR

### **631 QUEEN ANNE DR**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Mc Cartys Texaco Serv A AT	R.L. Polk Co Publishers	Image pg. A101
1940	gas sta	R.L. Polk Co publishers	Image pg. A170
	Russells Texaco Service	R.L. Polk Co publishers	Image pg. A170

# FINDINGS

## ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

### 02 VALLEY St

#### 1 02 VALLEY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	Walter J clk NPCFB r Tukwila Wn h	R.L. Polk Co Publishers R.L. Polk Co Publishers

#### 7 02 VALLEY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Davidson Aileen C r I Albt E plmbr r	R.L. Polk Co Publishers R.L. Polk Co Publishers

### 05 MERCER St

#### 1 05 MERCER St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Lusky Milton Lena window trmr h	R.L. Polk Co Publishers

### 1LT AVE

#### 627 1LT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	tntr Polish	R.L. Polk Co Publishers
	Bindepage inder Otto r	R.L. Polk Co Publishers

### 1ST AVE

#### 558 1ST AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Transmitting Machinery	R.L. Polk Co Publishers
	MEESE & G OTTRIEa D CO OP SANI Pr BANCISCO CALIP P E West Seattle Mg:r Elevating Conveying Screening and Mechanical Power	R.L. Polk Co Publishers

#### 559 1ST AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1955	Dehl & Co Inc brokers	R.L. Polk Co Publishers

Image pg. A112

## FINDINGS

### 561 1ST AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Utahl Idaho Sugar Co sls	R.L. Polk Co Publishers	Image pg. A112

### 562 1ST AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Linens and Kitchen Equipment	R.L. Polk Co Publishers
	DOHRMANN HOTEL SUPPLY CO E C Erickson	R.L. Polk Co Publishers
1930	MILLER Harry H estimator DHSCo r	R.L. Polk Co Publishers

### 564 1ST AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Hay & Haillin lwyrs	R.L. Polk Co Publishers	Image pg. A112

### 567 1ST AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Vacant	R.L. Polk Co Publishers	Image pg. A112

### 570 1ST AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Globe Distrs Co exptrs	R.L. Polk Co Publishers	Image pg. A112
	Throne John F & Co ins	R.L. Polk Co Publishers	Image pg. A112

### 573 1ST AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Ketchikan Spruce Mills lbr	R.L. Polk Co Publishers	Image pg. A112

### 575 1ST AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Burwell & Mlorford ins	R.L. Polk Co Publishers	Image pg. A112

### 586 1ST AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Ancient Order of St George Seattle Lodge N	R.L. Polk Co Publishers
	ANCIENT ORDER UNITED WORKMEN OP WASHINGTON Grand lodge 3 P Pogarty Grand Master Workman J H	R.L. Polk Co Publishers
	Ancient Order United Workmen Building 1409	R.L. Polk Co Publishers

## FINDINGS

### 1st Ave N

#### 524 1st Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2010	ABRAXUS BOOKS	EDR Digital Archive

### 1ST AVE N

#### 524 1ST AVE N

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Queen Anne Office Supply	Cole Information Services	Image pg. A1

### 1st Ave N

#### 526 1st Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	GOLD AND SILVER SHOP INC	EDR Digital Archive
	SPOT SMOKE & BEER	EDR Digital Archive
2010	GOLD AND SILVER SHOP INC	EDR Digital Archive
	SPOT SMOKE & BEER	EDR Digital Archive

### 1ST AVE N

#### 526 1ST AVE N

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Gold & Silver Shop Inc	Cole Information Services	Image pg. A1

### 1st Ave N

#### 527 1st Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	BENEFICIAL MEDIA LLC	EDR Digital Archive
2010	BENEFICIAL MEDIA LLC	EDR Digital Archive

### 1ST AVE N

#### 527 1ST AVE N

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Apartments	Cole Information Services	Image pg. A1
	Grela Bartlein	Cole Information Services	Image pg. A1
	Selso Bernabe	Cole Information Services	Image pg. A1
	Bret Chiafalo	Cole Information Services	Image pg. A1

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>		
2005	I Ells	Cole Information Services	Image pg. A1	
	Rutledge Ellis	Cole Information Services	Image pg. A1	
	Amanda Hindes	Cole Information Services	Image pg. A1	
	Doug Keener Sharwell	Cole Information Services	Image pg. A1	
	Erin Keener Sharwell	Cole Information Services	Image pg. A1	
	Juan G Luna	Cole Information Services	Image pg. A1	
	I Thomas WMar	Cole Information Services	Image pg. A1	
	Thomas W Marshall	Cole Information Services	Image pg. A1	
	Katherine Powers	Cole Information Services	Image pg. A1	
	Wayne Randall Ticknor	Cole Information Services	Image pg. A1	
	Dan JWYatt Jr	Cole Information Services	Image pg. A1	
1935	Danlal Wyatt	Cole Information Services	Image pg. A1	
	Gavin Madeline Mrs slswn GOG h	R.L. Polk Co Publishers		
	James Chas J Ida h	R.L. Polk Co Publishers		
	Keenen Margt elk h	R.L. Polk Co Publishers		
	Koh Bernadine Mrs h	R.L. Polk Co Publishers		
	Mc Mary S private sec REAlne r	R.L. Polk Co Publishers		
	PERRY Walter H Aleitta h	R.L. Polk Co Publishers		
	PERRY Wm T r	R.L. Polk Co Publishers		
	WALKER Howard E Ludine M slsmn Mlorris P Clausen h	R.L. Polk Co Publishers		
	BARRETT Frances E stdt r	R.L. Polk Co Publishers		
	BURKE Opal wtrs h	R.L. Polk Co Publishers		
	Lyman H h	R.L. Polk Co Publishers		
	Culver Leona emp YWCA r	R.L. Polk Co Publishers		
	1930	Bands Edna T wid C I h	R.L. Polk Co Publishers	
		202	R.L. Polk Co Publishers	
Buchmann Paul F Otie L Newton Buchmann Hardware h		R.L. Polk Co Publishers		
Castillo Melville J r		R.L. Polk Co Publishers		
Fowles Nellie C h		R.L. Polk Co Publishers		
Fowles Thos T Maude T mgr Gordon Apts police SPD h		R.L. Polk Co Publishers		
Gray Arth slsmn Swift & Co r		R.L. Polk Co Publishers		
H Arth driver h		R.L. Polk Co Publishers		
Mc Grace M Mrs h		R.L. Polk Co Publishers		
Nickoles Fred h		R.L. Polk Co Publishers		
Ring Rex H Lillian Film Row Press h		R.L. Polk Co Publishers		
SNYDER: Jas H Ruth eng h	R.L. Polk Co Publishers			

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	201	R.L. Polk Co Publishers
	Tompkins A A Mrs h	R.L. Polk Co Publishers
	Tomoye Sawa Kimi h	R.L. Polk Co Publishers
	202	R.L. Polk Co Publishers
	Turner Chas R h	R.L. Polk Co Publishers
	Turner Chas S Ora E mldr T FMCo h 901	R.L. Polk Co Publishers
	Turner Chas W	R.L. Polk Co Publishers
	TURNER	R.L. Polk Co Publishers
	Rex baker h	R.L. Polk Co Publishers
	Wickham Morton Mary h	R.L. Polk Co Publishers
	Wickham	R.L. Polk Co Publishers

### 1st Ave N

#### 530 1st Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	RED PAPAYA ALE & SPIRITS	EDR Digital Archive

### 1ST AVE N

#### 530 1ST AVE N

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	46 Nesbltt Planning & Management Inc	Cole Information Services	Image pg. A1

#### 537 1ST AVE N

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Racha Noodle & Thai Cuisine	Cole Information Services	Image pg. A1

### 1st Ave N

#### 600 1st Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	BARTELL DRUG COMPANY	EDR Digital Archive
2010	BARTELL DRUG COMPANY	EDR Digital Archive
	CASEY NOVAK	EDR Digital Archive

### 1ST AVE N

#### 600 1ST AVE N

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Bartell Drug Co	Cole Information Services	Image pg. A1

## FINDINGS

### 1st Ave N

#### 604 1st Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	YETI YOGURT QUEEN ANN	EDR Digital Archive
2010	GO WIRELESS INC	EDR Digital Archive

### 1ST AVE N

#### 604 1ST AVE N

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Tcwc Assocs Llc	Cole Information Services	Image pg. A1
	Atcs Inc	Cole Information Services	Image pg. A1
	TCSComsopolitan Cafe	Cole Information Services	Image pg. A1

#### 605 1ST AVE N

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Building	Cole Information Services	Image pg. A1

### 1st Ave N

#### 606 1st Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	FEDEX GROUND PACKAGE SYS INC	EDR Digital Archive
2010	FEDERAL EXPRESS CORPORATION	EDR Digital Archive

### 1ST AVE N

#### 606 1ST AVE N

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Fedex Klinkos Store	Cole Information Services	Image pg. A1

### 1st Ave N

#### 610 1st Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	MONHEGAN INC	EDR Digital Archive
	SEATTLE UC INC PS	EDR Digital Archive
	DRX WA URGENT CARE PROVIDERS	EDR Digital Archive
	FEDEX OFFICE & PRINT SVCS INC	EDR Digital Archive
	DOCTORS EXPRESS	EDR Digital Archive

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2010	FEDEX OFFICE AND PRINT SVCS	EDR Digital Archive

### 618 1st Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	BELLA CLEANERS	EDR Digital Archive
2010	BELLA CLEANERS	EDR Digital Archive

### 1ST AVE N

#### 618 1ST AVE N

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Bella Cleaners	Cole Information Services	Image pg. A1

### 1st Ave N

#### 620 1st Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	REGIS CORPORATION	EDR Digital Archive
2010	REGIS CORPORATION	EDR Digital Archive

### 1ST AVE N

#### 621 1ST AVE N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	La De Loss F Helen M driver Olympic Pie Co h	R.L. Polk Co Publishers
	Christian Donald D Dolores chemist h	R.L. Polk Co Publishers
1930	Lanphere Walker W Caroline cranemn NWSRM	R.L. Polk Co Publishers
	Wm M tchr r	R.L. Polk Co Publishers

### 1st Ave N

#### 622 1st Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	DIYOUNG INC	EDR Digital Archive
	YUMMY TERIYAKI	EDR Digital Archive
2010	YUMMY TERIYAKI	EDR Digital Archive

## FINDINGS

### 1ST AVE N

#### 622 1ST AVE N

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Mc Donalds at Queen Anne	Cole Information Services	Image pg. A1
	Himltsu Terlyak I	Cole Information Services	Image pg. A1

### 1st Ave N

#### 701 1st Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	TOKITA BETHUNE INC	EDR Digital Archive
	GANNON CONSTRUCTION	EDR Digital Archive
2010	GANNON CONSTRUCTION	EDR Digital Archive
	TOKITA BETHUNE INC	EDR Digital Archive
	URBAN OAZA LLC	EDR Digital Archive
	COMMAND SERVICES LLC	EDR Digital Archive
	SD DEAKCON CORP OF WA	EDR Digital Archive

### 1ST AVE N

#### 701 1ST AVE N

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Frederick Marcotte	Cole Information Services	Image pg. A1
	Crystal Mauch	Cole Information Services	Image pg. A1
	0 Connie Miler	Cole Information Services	Image pg. A1
	Constance P Miller	Cole Information Services	Image pg. A1
	Josh Miller	Cole Information Services	Image pg. A1
	Kirsten Morgan	Cole Information Services	Image pg. A1
	Kirk M Nyland	Cole Information Services	Image pg. A1
	0azal Inc	Cole Information Services	Image pg. A1
	Monte JSchoi	Cole Information Services	Image pg. A1
	John Selbie	Cole Information Services	Image pg. A1
	Jacob WSpence	Cole Information Services	Image pg. A1
	Sara TSpence	Cole Information Services	Image pg. A1
	Rich ATodd	Cole Information Services	Image pg. A1
	Urban Oaza Lie	Cole Information Services	Image pg. A1
	Valtcho Valtchev	Cole Information Services	Image pg. A1
	Jack Xu	Cole Information Services	Image pg. A1
	Anne K Lewis	Cole Information Services	Image pg. A1

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	OTheresa A Lesch	Cole Information Services	Image pg. A1
	Leeann Keogh	Cole Information Services	Image pg. A1
	David Keogh	Cole Information Services	Image pg. A1
	Jennifer L Keller	Cole Information Services	Image pg. A1
	Jeff WKeller	Cole Information Services	Image pg. A1
	Janeen G Hegtvedt	Cole Information Services	Image pg. A1
	James J Hegtvedt	Cole Information Services	Image pg. A1
	Sushma Gupta	Cole Information Services	Image pg. A1
	Jason Gary Gowens	Cole Information Services	Image pg. A1
	Bryan MGoode +1 NP	Cole Information Services	Image pg. A1
	Gannon Construction	Cole Information Services	Image pg. A1
	Joseph A Gannon	Cole Information Services	Image pg. A1
	OSandra Anne Street	Cole Information Services	Image pg. A1
	Christine C Gannon	Cole Information Services	Image pg. A1
	Donald R Fate	Cole Information Services	Image pg. A1
	William W Craddock	Cole Information Services	Image pg. A1
	Alda ACraddock	Cole Information Services	Image pg. A1
	Sandra M Burke	Cole Information Services	Image pg. A1
	building	Cole Information Services	Image pg. A1
	Christophier J Araman	Cole Information Services	Image pg. A1
	Carl J Burke	Cole Information Services	Image pg. A1

### 1st Ave N

#### 714 1st Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2010	FIREFLY CANDLE CRAFTERS LLC	EDR Digital Archive

### 1ST AVE N

#### 714 1ST AVE N

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Andrew Mitton	Cole Information Services	Image pg. A1
	Richard Rainero	Cole Information Services	Image pg. A1
	Daniel Mers e	Cole Information Services	Image pg. A1
	Apartments	Cole Information Services	Image pg. A1
	Jesse Elllott	Cole Information Services	Image pg. A1

## FINDINGS

### 1st Ave N

#### 719 1st Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	INTEGRAL MUSIC GROUP LLC	EDR Digital Archive
2010	INTEGRAL MUSIC GROUP LLC	EDR Digital Archive

### 1ST AVE N

#### 719 1ST AVE N

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	no info	Cole Information Services	Image pg. A1

### 1st Ave N

#### 800 1st Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	VALI HAI APARTMENTS	EDR Digital Archive
	VALLEY HIGH APARTMENTS	EDR Digital Archive
2010	OLP WORLDWIDE	EDR Digital Archive
	VALI HAI APARTMENTS	EDR Digital Archive

### 1ST AVE N

#### 800 1ST AVE N

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Andre Stoma	Cole Information Services	Image pg. A1
	Tiromas Stachlw	Cole Information Services	Image pg. A1
	Van Hal Apartments	Cole Information Services	Image pg. A1
	Chrls Whytock	Cole Information Services	Image pg. A1
	Benjamin R Wright	Cole Information Services	Image pg. A1
	building	Cole Information Services	Image pg. A1
	William Agyekum	Cole Information Services	Image pg. A1
	Rafael E Aila III	Cole Information Services	Image pg. A1
	Jamle Balcoo	Cole Information Services	Image pg. A1
	Susan M Bateson	Cole Information Services	Image pg. A1
	Jason SBegley	Cole Information Services	Image pg. A1
	Derek Chatwood	Cole Information Services	Image pg. A1
	Tim Dolan	Cole Information Services	Image pg. A1
	Naoml Dubos	Cole Information Services	Image pg. A1
	Leanne Duge	Cole Information Services	Image pg. A1

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Adam Finch	Cole Information Services	Image pg. A1
	Whitney Graybill	Cole Information Services	Image pg. A1
	Todd D Greenwood	Cole Information Services	Image pg. A1
	Kurt Hildebrand	Cole Information Services	Image pg. A1
	Chrls Logan	Cole Information Services	Image pg. A1
	Dolna Logan	Cole Information Services	Image pg. A1
	Kristen Lusther	Cole Information Services	Image pg. A1
	Norton Building Oarage Inc	Cole Information Services	Image pg. A1
	Shila Oconner	Cole Information Services	Image pg. A1
	Joshua JOttum	Cole Information Services	Image pg. A1
	Z Richer	Cole Information Services	Image pg. A1
	Raymond Rivera	Cole Information Services	Image pg. A1
	Andrew Rose	Cole Information Services	Image pg. A1
	Ken Sara	Cole Information Services	Image pg. A1
	Joseph Smith + NP	Cole Information Services	Image pg. A1
	Stephan le Smith NP	Cole Information Services	Image pg. A1
	Yanapol Syewoanguan	Cole Information Services	Image pg. A1

### 1st Ave N

#### 801 1st Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2010	A RD CONSULTING	EDR Digital Archive

### 1ST AVE N

#### 801 1ST AVE N

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Apartments	Cole Information Services	Image pg. A1
	Gary SARD	Cole Information Services	Image pg. A1
	Rowena MARD 03 NP	Cole Information Services	Image pg. A1
	DOSTacey Gackle	Cole Information Services	Image pg. A1
	AO David R Hiler	Cole Information Services	Image pg. A1
	C Sam Lanback	Cole Information Services	Image pg. A1
	DONicole Murphy	Cole Information Services	Image pg. A1

#### 811 1ST AVE N

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Building	Cole Information Services	Image pg. A1
	4 Reese Assocs	Cole Information Services	Image pg. A1

## FINDINGS

### 1st Ave N

#### 816 1st Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	JUST COMMUNICATIONS INC	EDR Digital Archive
2010	JUST COMMUNICATIONS INC	EDR Digital Archive
	AJS TREE SERVICE	EDR Digital Archive

### 1ST AVE N

#### 816 1ST AVE N

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	WA 1 Marin A Lanterman	Cole Information Services	Image pg. A1
	Carol C Hiraynma i NP	Cole Information Services	Image pg. A1
	Michael K Hiolder	Cole Information Services	Image pg. A1
	Yamlna Ilemal	Cole Information Services	Image pg. A1
	Brian Graham	Cole Information Services	Image pg. A1
	Apartments	Cole Information Services	Image pg. A1

### 1st Ave W

#### 523 1st Ave W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	HOME YOGA AND WELLNESS CENTER	EDR Digital Archive
2010	THREE SEASONS	EDR Digital Archive

#### 525 1st Ave W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	REBEL	EDR Digital Archive
	WARN-AGUILAR FAMILY	EDR Digital Archive
	KINGSTON LEGAL GROUP LLC	EDR Digital Archive
2010	KINGSTON LEGAL GROUP LLC	EDR Digital Archive
	GOODWIN CATHY PHD	EDR Digital Archive

#### 527 1st Ave W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2010	PLATINUM NAILS	EDR Digital Archive
	NAIL SPA	EDR Digital Archive

## FINDINGS

### 1ST AVE W

#### 528 1ST AVE W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Norland Alt M	R.L. Polk Co Publishers	Image pg. A113
1951	Norland A M C GA	R.L. Polk Co Publishers	Image pg. A144

#### 530 1ST AVE W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Pannell John J	R.L. Polk Co Publishers	Image pg. A113
1951	Pannell J J GA	R.L. Polk Co Publishers	Image pg. A144

### 1st Ave W

#### 531 1st Ave W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2010	ART FOR ADVERTISING	EDR Digital Archive

### 1ST AVE W

#### 531 1ST AVE W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Vacant	R.L. Polk Co Publishers	Image pg. A113
1951	Scripps League pubirs	R.L. Polk Co Publishers	Image pg. A144

#### 532 1ST AVE W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Mulholland Esther H Mrs	R.L. Polk Co Publishers	Image pg. A113
1951	Muiholland H H Mrs C	R.L. Polk Co Publishers	Image pg. A144

### 1st Ave W

#### 533 1st Ave W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	CANNABIS	EDR Digital Archive
2010	DIAMOND NAILS	EDR Digital Archive
	WAGNER GREGORY HAIR SALON	EDR Digital Archive

## FINDINGS

### **1ST AVE W**

#### **533 1ST AVE W**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Elburn Maynard K dentist	R.L. Polk Co Publishers	Image pg. A113
1951	Elburn H K dentist GA	R.L. Polk Co Publishers	Image pg. A144

#### **534 1ST AVE W**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Vacant	R.L. Polk Co Publishers	Image pg. A113
1951	Maries Beauty Shop	R.L. Polk Co Publishers	Image pg. A144
	Woedia Mae AL	R.L. Polk Co Publishers	Image pg. A144
	Podhulancik Vincent GA	R.L. Polk Co Publishers	Image pg. A144
	Mo Kendry C H AL	R.L. Polk Co Publishers	Image pg. A144
	Anderson Linda	R.L. Polk Co Publishers	Image pg. A144
	Bowman Nelle H GA	R.L. Polk Co Publishers	Image pg. A144
	Cavanaugh C M GA	R.L. Polk Co Publishers	Image pg. A144

#### **535 1ST AVE W**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	De Laval Turbine Pacific Co	R.L. Polk Co Publishers	Image pg. A113
	pump mfrs	R.L. Polk Co Publishers	Image pg. A113
	De Laval Pacific Co mach dirs	R.L. Polk Co Publishers	Image pg. A113

#### **609 1ST AVE W**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1925	Adams Amy N wid Holloway music tchr	R.L. Polk Co Publishers	

#### **611 1ST AVE W**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	iiilftsenv TRnht V QRe A ci A r 71 A	R.L. Polk Co Publishers	Image pg. A113
	Street continued	R.L. Polk Co Publishers	Image pg. A113
	H Pu Mp John C	R.L. Polk Co Publishers	Image pg. A113
	D Cooper Bessie	R.L. Polk Co Publishers	Image pg. A113
	C Vacant	R.L. Polk Co Publishers	Image pg. A113
	B Vacant	R.L. Polk Co Publishers	Image pg. A113
	A Brewer Nellie F Mrs	R.L. Polk Co Publishers	Image pg. A113
	Lee Logan Apartments	R.L. Polk Co Publishers	Image pg. A113
1951	Nos Ier Myrtle C	R.L. Polk Co Publishers	Image pg. A144
	Cooper Bessie C H	R.L. Polk Co Publishers	Image pg. A144
	Ca Idwell A J C GA	R.L. Polk Co Publishers	Image pg. A144

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Kollen Gunner J G r	R.L. Polk Co Publishers
	Kollen Greta N stdt r	R.L. Polk Co Publishers
	Cotter Wm J Ida P h	R.L. Polk Co Publishers
	Kollen Eliz S h	R.L. Polk Co Publishers
1930	Heinline Livingston G Lula H slsmn TS Co h	R.L. Polk Co Publishers
	Hollande Bertram Ina M Nature Cure	R.L. Polk Co Publishers
	Stewart h	R.L. Polk Co Publishers
	Rodda Thos B Florence E dept mgr WCE&P Assn h	R.L. Polk Co Publishers

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Alvena Vista apartments	R.L. Polk Co Publishers	Image pg. A114
	Schoales Alice J Mrs mgr	R.L. Polk Co Publishers	Image pg. A114
	A tane Philipl S	R.L. Polk Co Publishers	Image pg. A114
	B Schoales Herbert M	R.L. Polk Co Publishers	Image pg. A114
	Street continued	R.L. Polk Co Publishers	Image pg. A114
	Milljich Jos J	R.L. Polk Co Publishers	Image pg. A114
	Grubb Douglas A	R.L. Polk Co Publishers	Image pg. A114
	Femnling Harold W	R.L. Polk Co Publishers	Image pg. A114
	Petersen Kath A	R.L. Polk Co Publishers	Image pg. A114
	Martin Susan R	R.L. Polk Co Publishers	Image pg. A114
	Echt Margt Mrs A GA	R.L. Polk Co Publishers	Image pg. A114
	Fairbanks Ethel H Mrs	R.L. Polk Co Publishers	Image pg. A114
	Dietz Alice A Mrs	R.L. Polk Co Publishers	Image pg. A114
	MAagness Bessie E	R.L. Polk Co Publishers	Image pg. A114
	Meyers Pearl H Mrs	R.L. Polk Co Publishers	Image pg. A114
	Keith Jos J	R.L. Polk Co Publishers	Image pg. A114
	: 402 Pruter Alonzo T A AL S	R.L. Polk Co Publishers	Image pg. A114
	:303 Connier Aleei XV Mlrs	R.L. Polk Co Publishers	Image pg. A114
	Morgan Chas G	R.L. Polk Co Publishers	Image pg. A114
	Lund Florence A Mrs	R.L. Polk Co Publishers	Image pg. A114
Street continued	R.L. Polk Co Publishers	Image pg. A114	
1951	Alvena Vista Apartments	R.L. Polk Co Publishers	Image pg. A144
	Campion H D GA	R.L. Polk Co Publishers	Image pg. A144
	Codling E H Mrs mgr	R.L. Polk Co Publishers	Image pg. A144
	Dietz H W AL	R.L. Polk Co Publishers	Image pg. A144
	Echt Margt Mrs GA	R.L. Polk Co Publishers	Image pg. A144
Fairbanks Ethel H AL	R.L. Polk Co Publishers	Image pg. A144	

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Keith J J GA	R.L. Polk Co Publishers	Image pg. A144
	Krause J A AL	R.L. Polk Co Publishers	Image pg. A144
	Larsen H D AL	R.L. Polk Co Publishers	Image pg. A144
	Legrand F L Mrs AL	R.L. Polk Co Publishers	Image pg. A144
	Lund F A Mrs GA	R.L. Polk Co Publishers	Image pg. A144
	Mag ness Bessie H GA	R.L. Polk Co Publishers	Image pg. A144
	Mijich J J AL	R.L. Polk Co Publishers	Image pg. A144
	Morgan C G AL	R.L. Polk Co Publishers	Image pg. A144
	Oatman Theresa H AL	R.L. Polk Co Publishers	Image pg. A144
	Shumaker Ellen Mrs AL	R.L. Polk Co Publishers	Image pg. A144
1935	Achenbach Mary J wid Jos r	R.L. Polk Co Publishers	
	Bolton Helen L clk JDS r	R.L. Polk Co Publishers	
	Coe Paul B Essie L purser h	R.L. Polk Co Publishers	
	Cowling Alma wid Harry G mgr Alvena Vista Apts h	R.L. Polk Co Publishers	
	Cowling Harry G r	R.L. Polk Co Publishers	
	Darud Alma W Mrs nurse	R.L. Polk Co Publishers	
	Darud Maybelle A sten Crane Co r	R.L. Polk Co Publishers	
	MORGAN Chas G Isabella baker h	R.L. Polk Co Publishers	
	Sales bldg h	R.L. Polk Co Publishers	
	Phillips Albert C Phyllis R mfrs agt	R.L. Polk Co Publishers	
1930	HART Paul C Barbara binderywkr PMBCo h	R.L. Polk Co Publishers	
	Fasano Joe B Agnes K asst slsmgr LM&Lh	R.L. Polk Co Publishers	
	Harrison Clifford F Elnera L furrier Baker Fur Co h	R.L. Polk Co Publishers	
	Furlong Leonard J Pauline H br mgr Standard Fence Co h	R.L. Polk Co Publishers	
	Warren Frank L h	R.L. Polk Co Publishers	

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#### 621 1st Ave W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Northgate Apartments	R.L. Polk Co Publishers	Image pg. A114
	Vacant	R.L. Polk Co Publishers	Image pg. A114
	Sloan Blanche Mlrs M	R.L. Polk Co Publishers	Image pg. A114
	Olofson Gus E I	R.L. Polk Co Publishers	Image pg. A114
	Hughes Lola L Mrs	R.L. Polk Co Publishers	Image pg. A114
	li Brown Mae	R.L. Polk Co Publishers	Image pg. A114
	Moore Larry	R.L. Polk Co Publishers	Image pg. A114
	Franzetti Mable F Mrs	R.L. Polk Co Publishers	Image pg. A114
	Richllards Maude Mlrs	R.L. Polk Co Publishers	Image pg. A114
	Kennedy Walter	R.L. Polk Co Publishers	Image pg. A114
	Swansoon Enmma Mrs	R.L. Polk Co Publishers	Image pg. A114
	Stebbins Vernetta G Mrs	R.L. Polk Co Publishers	Image pg. A114
	Oi Joihnson Carl	R.L. Polk Co Publishers	Image pg. A114
	i Holben Roy E	R.L. Polk Co Publishers	Image pg. A114
	Purdute Fred L mgr	R.L. Polk Co Publishers	Image pg. A114
	Gregory Wilfred R	R.L. Polk Co Publishers	Image pg. A114
	MLoll Otto	R.L. Polk Co Publishers	Image pg. A114
	Epping Wilfred H bldg contr	R.L. Polk Co Publishers	Image pg. A114
	4 Rulla Helen A	R.L. Polk Co Publishers	Image pg. A114
	Henrikslon Forest J	R.L. Polk Co Publishers	Image pg. A114
	Forhan Wm P	R.L. Polk Co Publishers	Image pg. A114
	Bartholomew Thlos L	R.L. Polk Co Publishers	Image pg. A114
	Clayson E V	R.L. Polk Co Publishers	Image pg. A114
	:301 Boyce Pearl F Mrs	R.L. Polk Co Publishers	Image pg. A114
	Jiulin Jud B	R.L. Polk Co Publishers	Image pg. A114
	:303 De Spain Beryl J	R.L. Polk Co Publishers	Image pg. A114
	:304 Schuster Phena Mrs	R.L. Polk Co Publishers	Image pg. A114
	:05 Lund Florence A Mrs	R.L. Polk Co Publishers	Image pg. A114
	Vacant	R.L. Polk Co Publishers	Image pg. A114
	:307 Jolinson Alice B Mrs	R.L. Polk Co Publishers	Image pg. A114
	Rogers Helen	R.L. Polk Co Publishers	Image pg. A114
	Street continued	R.L. Polk Co Publishers	Image pg. A114
1951	Northgate Apartments	R.L. Polk Co Publishers	Image pg. A144
	Aitken Isabelle GA	R.L. Polk Co Publishers	Image pg. A144
	Atkinson G F m gr AL	R.L. Polk Co Publishers	Image pg. A144

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Barclay F H GA	R.L. Polk Co Publishers	Image pg. A144
	Barrett V H Mrs AL	R.L. Polk Co Publishers	Image pg. A144
	Bartlett Shari L AL	R.L. Polk Co Publishers	Image pg. A144
	Beihe Marjorie H	R.L. Polk Co Publishers	Image pg. A144
	Bigelow M J	R.L. Polk Co Publishers	Image pg. A144
	Brown B J GA	R.L. Polk Co Publishers	Image pg. A144
	Burr W H	R.L. Polk Co Publishers	Image pg. A144
	Carr O S Mrs GA	R.L. Polk Co Publishers	Image pg. A144
	Be Spain Beryl J AL	R.L. Polk Co Publishers	Image pg. A144
	Evans F H Mrs AL	R.L. Polk Co Publishers	Image pg. A144
	Fisher M A Mrs GA	R.L. Polk Co Publishers	Image pg. A144
	Green H E AL	R.L. Polk Co Publishers	Image pg. A144
	Grove P E jr AL	R.L. Polk Co Publishers	Image pg. A144
	Hansen H T Mrs GA	R.L. Polk Co Publishers	Image pg. A144
	Harkema H S AL	R.L. Polk Co Publishers	Image pg. A144
	Herrmann H W Mrs AL	R.L. Polk Co Publishers	Image pg. A144
	Holben H S Mrs GA	R.L. Polk Co Publishers	Image pg. A144
	Howard Vera	R.L. Polk Co Publishers	Image pg. A144
	Jensen D M	R.L. Polk Co Publishers	Image pg. A144
	Johnson A B Mrs AL	R.L. Polk Co Publishers	Image pg. A144
	Jones W J	R.L. Polk Co Publishers	Image pg. A144
	Miller W W	R.L. Polk Co Publishers	Image pg. A144
	Moser D R AL	R.L. Polk Co Publishers	Image pg. A144
	OLeary M V AL	R.L. Polk Co Publishers	Image pg. A144
	OMeara Sam AL	R.L. Polk Co Publishers	Image pg. A144
	Oyster Huth M	R.L. Polk Co Publishers	Image pg. A144
	Pain G IC GA	R.L. Polk Co Publishers	Image pg. A144
	Schusler Phena Mrs AL	R.L. Polk Co Publishers	Image pg. A144
	Taft H BD Mrs GA	R.L. Polk Co Publishers	Image pg. A144
	Walli P J AL	R.L. Polk Co Publishers	Image pg. A144
1935	Bathrick Beth sten Pacific Car & Foundry Co h	R.L. Polk Co Publishers	
	Bur E De Witt Alice S v pres sec R W Myres Co Inc h	R.L. Polk Co Publishers	
	BURNETT John stdt r	R.L. Polk Co Publishers	
	Canfield Eliz J elk SFCo r	R.L. Polk Co Publishers	
	Car E Sanford Eliz W electn h	R.L. Polk Co Publishers	
	Car Eloise stdt r	R.L. Polk Co Publishers	
	Char Douglas H stdt r	R.L. Polk Co Publishers	

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<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Char Mabel H Mrs h	R.L. Polk Co Publishers
	De Ida M Mrs slswn L&HCo h	R.L. Polk Co Publishers
	Fisher Clara M cash Muszis Cafe r	R.L. Polk Co Publishers
	Gruwell Clara B Mrs h	R.L. Polk Co Publishers
	Haeper Blanche G wid Walter mgr Northgate Apts h	R.L. Polk Co Publishers
	JOHNSON Arth H Gladys M bkpr Lbr Supp & Whse Co h	R.L. Polk Co Publishers
	JOHNSON Herbert R Claris T with WSGCo h	R.L. Polk Co Publishers
	Herbert V ray S h	R.L. Polk Co Publishers
	JOHNSON LIEBER Lorin W Hazel slsmn h	R.L. Polk Co Publishers
	Koshak Marie slswn h	R.L. Polk Co Publishers
	Logan Jean clk NLICo r	R.L. Polk Co Publishers
	Lucas Barmney P Marie M h	R.L. Polk Co Publishers
	Mailothi D h	R.L. Polk Co Publishers
	Nathan Arth L Neoma M asst cash PSSCo h	R.L. Polk Co Publishers
	Perelle Chas W Mary D eng h	R.L. Polk Co Publishers
	Emma wid Chas E h	R.L. Polk Co Publishers
	Sneed Leo T Marguerite h	R.L. Polk Co Publishers
	Marguerite Mrs elk ICCo h	R.L. Polk Co Publishers
	Sneed Leo T Marguerite h	R.L. Polk Co Publishers
	STANLEY Minte B r	R.L. Polk Co Publishers
	TAYLOR Lottie Mrs h	R.L. Polk Co Publishers
	TAYLOR Teddy Ingshrmn r	R.L. Polk Co Publishers
	WILCOX Grace M Mrs nurse	R.L. Polk Co Publishers
1930	ANDERSON Maurice B Marie E 3 auditor O P	R.L. Polk Co Publishers
	Skaggs System h	R.L. Polk Co Publishers
	204	R.L. Polk Co Publishers
	BAKER Josephine Mrs mgr Northgate Apts h	R.L. Polk Co Publishers
	Bedell Chas F printer P I h	R.L. Polk Co Publishers
	306	R.L. Polk Co Publishers
	CUSTER Theo Margt E h	R.L. Polk Co Publishers
	Melvin W clk r	R.L. Polk Co Publishers
	203	R.L. Polk Co Publishers
	Lanphere G Earl mech r	R.L. Polk Co Publishers

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<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Mark Donald C boardmarker E A Pierce & Co r	R.L. Polk Co Publishers
	Mc Master Chas A Addie E r	R.L. Polk Co Publishers
	I Inc h	R.L. Polk Co Publishers
	Rifkin N John dept mgr Botsford Constantine Co r	R.L. Polk Co Publishers
	Soellner Carl Eva B car inspr NPRy h	R.L. Polk Co Publishers
	r	R.L. Polk Co Publishers
	Dille see also Dilley	R.L. Polk Co Publishers
	Frentz Edw Matilda floor lyr Inlaid Floor	R.L. Polk Co Publishers
	P Ethel C wid A F h	R.L. Polk Co Publishers
	Hannafin Edw D Dorothea A slsmn Pure Food Shop h	R.L. Polk Co Publishers
	HART Wm	R.L. Polk Co Publishers
	h	R.L. Polk Co Publishers
	Knaak Lydia L clk USSIS h	R.L. Polk Co Publishers

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Monterey Apartments	R.L. Polk Co Publishers	Image pg. A114
	Mukai Shlizuko Mrs mngr	R.L. Polk Co Publishers	Image pg. A114
	A Vacant	R.L. Polk Co Publishers	Image pg. A114
	B Eslhau Thlos	R.L. Polk Co Publishers	Image pg. A114
	Bussell Nancy B Mrs	R.L. Polk Co Publishers	Image pg. A114
	Mukatli Noritsugu	R.L. Polk Co Publishers	Image pg. A114
	Castell Mabel Mrs	R.L. Polk Co Publishers	Image pg. A114
	Sliarpe Joln	R.L. Polk Co Publishers	Image pg. A114
	Vacalnt	R.L. Polk Co Publishers	Image pg. A114
	Olson E F	R.L. Polk Co Publishers	Image pg. A114
	Ayres David M	R.L. Polk Co Publishers	Image pg. A114
	Moreau Marene H	R.L. Polk Co Publishers	Image pg. A114
	Bennett Erwin F	R.L. Polk Co Publishers	Image pg. A114
	Blahm Geo H	R.L. Polk Co Publishers	Image pg. A114
	Moore Pautline Mrs	R.L. Polk Co Publishers	Image pg. A114
	De M Iarco Donald W	R.L. Polk Co Publishers	Image pg. A114
	: 01 Tamura Geo IK	R.L. Polk Co Publishers	Image pg. A114
	Pierce Gutilrie G	R.L. Polk Co Publishers	Image pg. A114
	: Rivas Louis P	R.L. Polk Co Publishers	Image pg. A114
	:404 Barron Johln P	R.L. Polk Co Publishers	Image pg. A114
	Trout D L	R.L. Polk Co Publishers	Image pg. A114

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Patterson Kirby P	R.L. Polk Co Publishers	Image pg. A114
1951	Monterey Apartments	R.L. Polk Co Publishers	Image pg. A144
	Beeholt K L C GA	R.L. Polk Co Publishers	Image pg. A144
	Duncan Beatrice M AL	R.L. Polk Co Publishers	Image pg. A144
	Hallenbeck G B	R.L. Polk Co Publishers	Image pg. A144
	Hirssel G O GA	R.L. Polk Co Publishers	Image pg. A144
	Hiser Joyce Mrs AL	R.L. Polk Co Publishers	Image pg. A144
	Knessinger H C AL	R.L. Polk Co Publishers	Image pg. A144
	Klink E J AL	R.L. Polk Co Publishers	Image pg. A144
	Larsen Alyce L AL	R.L. Polk Co Publishers	Image pg. A144
	Lazenby Hebt GA	R.L. Polk Co Publishers	Image pg. A144
	Miars Cackette Irene Mrs	R.L. Polk Co Publishers	Image pg. A144
	Mortensen C M GA	R.L. Polk Co Publishers	Image pg. A144
	Townsend Mary O AL	R.L. Polk Co Publishers	Image pg. A144
	Wakefield Beverly M	R.L. Polk Co Publishers	Image pg. A144
	Wornath Thelma J AL	R.L. Polk Co Publishers	Image pg. A144
1935	ALLEN Fred M Amy M h	R.L. Polk Co Publishers	
	Atherton Margt A wid Wm T h	R.L. Polk Co Publishers	
	Bigelow Chas L lola P h	R.L. Polk Co Publishers	
	Conklin Lawrence D Doris elk h	R.L. Polk Co Publishers	
	Geo B Elodie wtr h	R.L. Polk Co Publishers	
	Davis Geo B searcher PSTICo r	R.L. Polk Co Publishers	
	Filion Jos millwrt PCSC h	R.L. Polk Co Publishers	
	Gehrig Eliz A r	R.L. Polk Co Publishers	
	Glenn E Alice G E acet h	R.L. Polk Co Publishers	
	Kingsley Ethel E wid John h	R.L. Polk Co Publishers	
	Parkton Eva wid Irvin H r	R.L. Polk Co Publishers	
	Parkton Irvin H Aulene W meter reader City Light Dept h	R.L. Polk Co Publishers	
	Richards Eleanor slswn SHK&Co r	R.L. Polk Co Publishers	
	RICHARDS Margt L cash Mc FMCo r	R.L. Polk Co Publishers	
	RUSSELL P W Gladys C cook r	R.L. Polk Co Publishers	
	Filmore A Rona bkpr h	R.L. Polk Co Publishers	
	Schneider Anna wid John h	R.L. Polk Co Publishers	
	Schreyer Emma L Mrs h	R.L. Polk Co Publishers	
	Serr Willard T Dorothy A h	R.L. Polk Co Publishers	
	Turner Dagna J wid Chas E h	R.L. Polk Co Publishers	
1930	Corbin Louie r	R.L. Polk Co Publishers	
	Frost Alice U wid Jordan C r	R.L. Polk Co Publishers	

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1930	Anna V Mrs wtrs h	R.L. Polk Co Publishers	
	Gehrig Henry J Emma R Monterey Apts h	R.L. Polk Co Publishers	
	Gehring Harry F Eliz A slsmn J MScO h 700	R.L. Polk Co Publishers	
	Gehring Par J slsmn Townsend & Co Inc h 5037	R.L. Polk Co Publishers	
	Lyle S tmkpr r	R.L. Polk Co Publishers	
	Harry J Fern A slsmn S&dECo h	R.L. Polk Co Publishers	
	La De Loss F Helen E stickerman HD& TCo Inc h	R.L. Polk Co Publishers	
	Merrill Frank Elsie h	R.L. Polk Co Publishers	
	Merrill Geo A Lizetta formn SMRy h 4339	R.L. Polk Co Publishers	
	NOOK Kath B Mrs wtrs h	R.L. Polk Co Publishers	
	Nickles Kenneth driver h	R.L. Polk Co Publishers	
	THOMPSON Hazel M stdt r	R.L. Polk Co Publishers	
	Helen A barber h	R.L. Polk Co Publishers	
	Helen A Mrs slswn Bon Marche r 4446	R.L. Polk Co Publishers	
	Jonathan E driver r	R.L. Polk Co Publishers	
	Yoder Calvin W clk r	R.L. Polk Co Publishers	
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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	No return	R.L. Polk Co Publishers	Image pg. A144
<b>709 1ST AVE W</b>			
<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	pictures	R.L. Polk Co Publishers	Image pg. A144
	Skolen Josephine I AL	R.L. Polk Co Publishers	Image pg. A144
	Seattle Sch of Photography	R.L. Polk Co Publishers	Image pg. A144
<b>711 1ST AVE W</b>			
<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Aml Enterprises Inc br	R.L. Polk Co Publishers	Image pg. A114
	venetian blinds A	R.L. Polk Co Publishers	Image pg. A114
1951	pictures	R.L. Polk Co Publishers	Image pg. A144
	Shelton Exalusives plastic	R.L. Polk Co Publishers	Image pg. A144

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<u>Year</u>	<u>Uses</u>	<u>Source</u>
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	EVANS BILL PRESENTATIONS	EDR Digital Archive

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Gross Emmia D	R.L. Polk Co Publishers	Image pg. A114
	Joihnson Grace M Mrs	R.L. Polk Co Publishers	Image pg. A114
	Saar Eleanor Mrs	R.L. Polk Co Publishers	Image pg. A114
	W tson Elsie K	R.L. Polk Co Publishers	Image pg. A114
	Apartments	R.L. Polk Co Publishers	Image pg. A114
	H Blogg Herbert A Mrs	R.L. Polk Co Publishers	Image pg. A114
1951	Apartments	R.L. Polk Co Publishers	Image pg. A144
	Coons H L GA	R.L. Polk Co Publishers	Image pg. A144
	Syneld H W AL	R.L. Polk Co Publishers	Image pg. A144
	Paulson Peter AL	R.L. Polk Co Publishers	Image pg. A144
	Miffiin H W AL	R.L. Polk Co Publishers	Image pg. A144
	Gross Emma D	R.L. Polk Co Publishers	Image pg. A144

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Leonard Apartments	R.L. Polk Co Publishers	Image pg. A114
	B 1 Capeloto VAictor	R.L. Polk Co Publishers	Image pg. A114
	Andreassen Ole J	R.L. Polk Co Publishers	Image pg. A114
	Hunt C Fred mgr	R.L. Polk Co Publishers	Image pg. A114
	Kirkmeyer Lawrence L	R.L. Polk Co Publishers	Image pg. A114
	SmithH Sterling H	R.L. Polk Co Publishers	Image pg. A114
	5 Vacant	R.L. Polk Co Publishers	Image pg. A114
	1 Lush Frauil H	R.L. Polk Co Publishers	Image pg. A114
	OReilly Frank P	R.L. Polk Co Publishers	Image pg. A114
	Elton Ednat R	R.L. Polk Co Publishers	Image pg. A114
	Skoien Josephine I	R.L. Polk Co Publishers	Image pg. A114
	Coppinger Peggy Mrs	R.L. Polk Co Publishers	Image pg. A114
	Larson Rudy C	R.L. Polk Co Publishers	Image pg. A114
	Putnam Lysbethi E Mrs	R.L. Polk Co Publishers	Image pg. A114

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Williams J Bryant	R.L. Polk Co Publishers	Image pg. A114
	Petrie Roy A	R.L. Polk Co Publishers	Image pg. A114
	Vracant	R.L. Polk Co Publishers	Image pg. A114
	Vacant	R.L. Polk Co Publishers	Image pg. A114
	Cooper Bessie H Mrs	R.L. Polk Co Publishers	Image pg. A114
	Plarkl Alan L Al	R.L. Polk Co Publishers	Image pg. A114
	Street continued	R.L. Polk Co Publishers	Image pg. A114
1951	Leonard Apartments	R.L. Polk Co Publishers	Image pg. A144
	Chilcott Peggy H AL	R.L. Polk Co Publishers	Image pg. A144
	Chiniqoy O L AL	R.L. Polk Co Publishers	Image pg. A144
	Finley C F GA	R.L. Polk Co Publishers	Image pg. A144
	Goldberg L B AL	R.L. Polk Co Publishers	Image pg. A144
	Heltness G F GA	R.L. Polk Co Publishers	Image pg. A144
	Sohanson C	R.L. Polk Co Publishers	Image pg. A144
	Jones H S AL	R.L. Polk Co Publishers	Image pg. A144
	Lush F H AL	R.L. Polk Co Publishers	Image pg. A144
	May A M Mrs AL	R.L. Polk Co Publishers	Image pg. A144
	Molt H N GA	R.L. Polk Co Publishers	Image pg. A144
	Murray Valma Mrs GA	R.L. Polk Co Publishers	Image pg. A144
	OHelly Frank GA	R.L. Polk Co Publishers	Image pg. A144
	Price Leena V GA	R.L. Polk Co Publishers	Image pg. A144
	Quaroni Ida	R.L. Polk Co Publishers	Image pg. A144
	Sims H S Mrs GA	R.L. Polk Co Publishers	Image pg. A144
	Skoun Josephine I AL	R.L. Polk Co Publishers	Image pg. A144
Tipten M J Mrs AL	R.L. Polk Co Publishers	Image pg. A144	
Wick L L AL	R.L. Polk Co Publishers	Image pg. A144	
1935	Barge Frank C Mary h	R.L. Polk Co Publishers	
	BERG Fannie W Mrs h	R.L. Polk Co Publishers	
	Borcher Adele wid Wm H r	R.L. Polk Co Publishers	
	CARPENTER Geo S slsmn L&HCo h	R.L. Polk Co Publishers	
	CARPENTER Vera E r	R.L. Polk Co Publishers	
	Mc GUIRE CLARENCE L Margt C Sec Arctic	R.L. Polk Co Publishers	
	h	R.L. Polk Co Publishers	
	Mehan Mc Cormick Lucille T dentist	R.L. Polk Co Publishers	
	Co h	R.L. Polk Co Publishers	
	Mlortrude Wm E jr chemist h	R.L. Polk Co Publishers	
	Pangle Fred L Fern M driver Seattle Tasicab Co h	R.L. Polk Co Publishers	

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<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	PARKS Sami J Ethel A carp h	R.L. Polk Co Publishers
	SHERMAN Frank J Kate A h	R.L. Polk Co Publishers
	SHERMAN Robt stock clk Washington Belting & Rubber Co r	R.L. Polk Co Publishers
	WHITE Hazel clk SGCo r	R.L. Polk Co Publishers
	WILSON Elda R sec to J R UTmmel r	R.L. Polk Co Publishers

### 1st Ave W

#### 911 1st Ave W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	Z NETWORKS INC	EDR Digital Archive
2010	Z NETWORKS INC	EDR Digital Archive

### 2nd Ave W

#### 702 2nd Ave W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2010	STRANGE PARTNERS LLC	EDR Digital Archive

#### 705 2nd Ave W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	ABRAM EVA MARIE	EDR Digital Archive
	BLAZAIR INC	EDR Digital Archive
2010	BLAZAIR INC	EDR Digital Archive
	AWARNESS FOR LIFE DOMINIQ	EDR Digital Archive
	ABRAM EVA MARIE	EDR Digital Archive

#### 710 2nd Ave W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	PRESSED4TIME	EDR Digital Archive
2010	PRESSED4TIME	EDR Digital Archive

#### 719 2nd Ave W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2010	MONTIANA CONDO OWNERS ASSN	EDR Digital Archive

## FINDINGS

### **611 1ST AVE N**

#### **2 611 1ST AVE N**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Sharpe S Andw eiectn rt	R.L. Polk Co Publishers
	Tower h	R.L. Polk Co Publishers
	Sharpe Raymond G Mabel A atty	R.L. Polk Co Publishers

### **621 1ST AVE W**

#### **3 621 1ST AVE W**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Mc MAary E elk r	R.L. Polk Co Publishers

#### **4 621 1ST AVE W**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Schmitz Helmuth W draftsman r	R.L. Polk Co Publishers
	Bibb John T eng r	R.L. Polk Co Publishers
	Beymer Richard K jr clk h	R.L. Polk Co Publishers

#### **5 621 1ST AVE W**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Neilson Myn dressmkr h	R.L. Polk Co Publishers

#### **104 621 1ST AVE W**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	WEIECH Walter C Mary h	R.L. Polk Co Publishers

#### **106 621 1ST AVE W**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Wuest John H Ella mgr Northwest School Furn Co h	R.L. Polk Co Publishers

#### **202 621 1ST AVE W**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Bestwick Dolphine tchr h	R.L. Polk Co Publishers
	Calder Henrietta tchr r	R.L. Polk Co Publishers

#### **205 621 1ST AVE W**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Barth Harold R Clara A acct Gulowsen Grei Eng Co h	R.L. Polk Co Publishers

## FINDINGS

### 206 621 1ST AVE W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	MACK Jas A r	R.L. Polk Co Publishers

### 304 621 1ST AVE W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Leeds Louise Mrs stngr h	R.L. Polk Co Publishers

### 621 1ST St W

#### 6 621 1ST St W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Durant Jos jr Grace uphlstr h	R.L. Polk Co Publishers

### 622 1ST AVE W

#### 1 622 1ST AVE W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Dunlap Florence A elk r	R.L. Polk Co Publishers

### 627 1ST St W

#### 201 627 1ST St W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Wallace Harold B Bernice E pres gen mgr Wedgewood Mfg Co h	R.L. Polk Co Publishers

### 822 QUEEN ANNE AVE

#### 15 822 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Bronson Elizabeth W sec Bronson Robinson & Jones r	R.L. Polk Co Publishers

#### 23 822 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Goddard Alfred Ruth mgr Moler Barber College Inc h	R.L. Polk Co Publishers

#### 33 822 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Dingley Franw E Georgia credit mgr FPCo h	R.L. Polk Co Publishers

## FINDINGS

### 45 822 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	YOUNG Wm J Elizabeth pres mgr Young Bros Inc h	R.L. Polk Co Publishers

### 822 QUEEN ANNE St

#### 31 822 QUEEN ANNE St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Percival Drusilla musician r	R.L. Polk Co Publishers

#### 35 822 QUEEN ANNE St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Neebling Frank A Nell mgr Florsheim Shoe Store Co h	R.L. Polk Co Publishers

### A 1ST AVE N

#### 610 A 1ST AVE N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	De Violet Mrs r	R.L. Polk Co Publishers
	HANSEN Jens L Mary pres Hansen Baking Co Inc h	R.L. Polk Co Publishers
	WEST Sarah J Mrs r	R.L. Polk Co Publishers
	WEST Seattle Bakery & Dairy Nicholas Muszynski butter eggs and cheese 4533	R.L. Polk Co Publishers
1925	Flanders Harry B Jane bkpr City Comptroller h	R.L. Polk Co Publishers
	Flanders Jane Mrs ofc mgr Addressograph Sales Co h	R.L. Polk Co Publishers

### A IDA C H 714 1ST AVE N

#### 1 A IDA C H 714 1ST AVE N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Lindstrom Car	R.L. Polk Co Publishers

### Aloha St

#### 19 Aloha St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	FRANCIS COURT APARTMENTS	EDR Digital Archive
2010	FRANCIS COURT APARTMENTS	EDR Digital Archive

## FINDINGS

### **B 1ST AVE N**

#### **610 B 1ST AVE N**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Jameson Eliz wid Wm B r	R.L. Polk Co Publishers
	JAMISON	R.L. Polk Co Publishers
	h	R.L. Polk Co Publishers

### **BERTHA V H 719 1ST AVE N**

#### **0 BERTHA V H 719 1ST AVE N**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Christie Walter	R.L. Polk Co Publishers

### **BKPR SOUND FURN MFG 25 W ROY St**

#### **1 BKPR SOUND FURN MFG 25 W ROY St**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Kappauf Kath	R.L. Polk Co Publishers

### **BREHM H 600 QUEEN ANNE St**

#### **0 BREHM H 600 QUEEN ANNE St**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Edgar David T slsmn Geo	R.L. Polk Co Publishers

### **CARP H 621 1ST AVE W**

#### **0 CARP H 621 1ST AVE W**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	CARLSON Oscar	R.L. Polk Co Publishers

### **COAST CHAIR 16 VALLEY St**

#### **0 COAST CHAIR 16 VALLEY St**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Steendah Marcus	R.L. Polk Co Publishers

## FINDINGS

### **E MADELENE MINER H 16 VALLEY St**

#### **1 E MADELENE MINER H 16 VALLEY St**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Hallberg Car	R.L. Polk Co Publishers

### **E MERCER ST**

#### **10 E MERCER ST**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A115

#### **12 E MERCER ST**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A115

#### **13 E MERCER ST**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A115

#### **14 E MERCER ST**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A115

#### **15 E MERCER ST**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A115

#### **16 E MERCER ST**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av intersects	R.L. Polk Co Publishers	Image pg. A115

#### **17 E MERCER ST**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A115

#### **18 E MERCER ST**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A115

## FINDINGS

### 19 E MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A115

### 21 E MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	st av N intersects	R.L. Polk Co Publishers	Image pg. A115

### 22 E MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	d av N intersects	R.L. Polk Co Publishers	Image pg. A115

### 23 E MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1986	15TH AV E INTERSECTS	R.L. Polk Co. Publishers	Image pg. A39
1955	d av N intersects	R.L. Polk Co Publishers	Image pg. A115

### 24 E MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A115

### 25 E MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1986	21ST AV E INTERSECTS	R.L. Polk Co. Publishers	Image pg. A39
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A115

### 26 E MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A115
	th av intersects	R.L. Polk Co Publishers	Image pg. A115

### 27 E MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A115

### 28 E MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A115
	Unopened to Dewey pl	R.L. Polk Co Publishers	Image pg. A115

## FINDINGS

### 30 E MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A115

### 31 E MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	st av N intersects	R.L. Polk Co Publishers	Image pg. A115

### 32 E MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	d av N intersects	R.L. Polk Co Publishers	Image pg. A115

### 33 E MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	d av Intersects	R.L. Polk Co Publishers	Image pg. A115

### 34 E MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A115

### 36 E MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A116

### 101 E MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1980	Paulson Don	R.L. Polk Co. Publishers	Image pg. A51

### 103 E MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1980	Scott Diane	R.L. Polk Co. Publishers	Image pg. A51

## E QUEENANNE AVE

### 1 E QUEENANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1935	Mc Mar	R.L. Polk Co Publishers	

## FINDINGS

### E ROY ST

#### 2 E ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	1st av N intersects	R.L. Polk Co Publishers	Image pg. A117

#### 9 E ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	eudtrro Maria	R.L. Polk Co. Publishers	Image pg. A14
	Bolani Norman M	R.L. Polk Co. Publishers	Image pg. A14
	Brow S L I	R.L. Polk Co. Publishers	Image pg. A14
	Booth R A:	R.L. Polk Co. Publishers	Image pg. A14
	Welrnc Conn I e	R.L. Polk Co. Publishers	Image pg. A14
	Vnlur h I	R.L. Polk Co. Publishers	Image pg. A14
	Headflne P R Pat J	R.L. Polk Co. Publishers	Image pg. A14
	Head P R	R.L. Polk Co. Publishers	Image pg. A14

#### 10 E ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av intersects	R.L. Polk Co Publishers	Image pg. A117

### E ROY St

#### 11 E ROY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1930	Polinsky Michl Mildred V gro h	R.L. Polk Co Publishers	

### E ROY ST

#### 12 E ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A117

#### 14 E ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A117

#### 15 E ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A117

## FINDINGS

### 16 E ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A117

### 17 E ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A117

### 18 E ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A117

### 19 E ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A117

### 20 E ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A117

### 22 E ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	d av N intersects	R.L. Polk Co Publishers	Image pg. A117

### 23 E ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	d av N intersects	R.L. Polk Co Publishers	Image pg. A117

### 24 E ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A117

### 25 E ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A117

### 26 E ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A117

### 27 E ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A117

## FINDINGS

### 28 E ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A117

### 29 E ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A117

### 35 E ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1975	:39 Loeer Guy	R.L. Polk Co. Publishers	Image pg. A67
	:18 No Return	R.L. Polk Co. Publishers	Image pg. A67
	:17 Paget E	R.L. Polk Co. Publishers	Image pg. A67
	:16 Ryvan Rosal II 1 Mrs	R.L. Polk Co. Publishers	Image pg. A67
	Smith Olive 1 Mrs	R.L. Polk Co. Publishers	Image pg. A67

### E SLSMN H 105 MERCER St

#### 1 E SLSMN H 105 MERCER St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1935	Skahan F Edw Mer	R.L. Polk Co Publishers	

### E VALLEY ST

#### 15 E VALLEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N Intersects	R.L. Polk Co Publishers	Image pg. A118

#### 23 E VALLEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	d av N Intersects	R.L. Polk Co Publishers	Image pg. A118

#### 24 E VALLEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1980	:18 Williams Eleonor D Mrs	R.L. Polk Co. Publishers	Image pg. A52
	31Diehr Glo	R.L. Polk Co. Publishers	Image pg. A52
1955	th av intersects	R.L. Polk Co Publishers	Image pg. A118

#### 26 E VALLEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N Intersects	R.L. Polk Co Publishers	Image pg. A118

## FINDINGS

### 28 E VALLEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A118

### 29 E VALLEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A118

### 33 E VALLEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	d av Intersects	R.L. Polk Co Publishers	Image pg. A118

### 34 E VALLEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av intersects	R.L. Polk Co Publishers	Image pg. A118

### 37 E VALLEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A118

### EAST MERCER St

#### 2 EAST MERCER St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1920	Stenton V Vere Elizabeth int rev agt	R.L. Polk Co Publishers	

### EDNA V CHEF H 600 QUEEN ANNE AVE

#### 3 EDNA V CHEF H 600 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1935	BLACK Edw	R.L. Polk Co Publishers	

### ELLEN M COOK H 600 QUEEN ANNE AVE

#### 0 ELLEN M COOK H 600 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1935	Daniel John	R.L. Polk Co Publishers	

## FINDINGS

### **FAY 115 OLYMPIC St**

#### **0 FAY 115 OLYMPIC St**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Delaloye Apartments Mrs Alice	R.L. Polk Co Publishers

### **H 528 1ST AVE W**

#### **1 H 528 1ST AVE W**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Nor	R.L. Polk Co Publishers

### **H ANN CARP H 711 1ST AVE W**

#### **1 H ANN CARP H 711 1ST AVE W**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Gustavson Car	R.L. Polk Co Publishers

### **H ELK H 119 W ROY St**

#### **1 H ELK H 119 W ROY St**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	SMITH Kenneth L Pear	R.L. Polk Co Publishers

### **IN RAY FOREMN R 911 24TH AVE**

#### **1 IN RAY FOREMN R 911 24TH AVE**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	Mc Glauth	R.L. Polk Co Publishers

### **ISABEL H 600 QUEEN ANNE AVE**

#### **0 ISABEL H 600 QUEEN ANNE AVE**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	apt 203	R.L. Polk Co Publishers
	Frank	R.L. Polk Co Publishers
	WATSON Francis M Fay I elk PO h	R.L. Polk Co Publishers

## FINDINGS

### L EVA C H 1 W ROY St

#### 1 L EVA C H 1 W ROY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Clumpner Ear	R.L. Polk Co Publishers

### L HANSEN 600 1ST AVE N

#### 1 L HANSEN 600 1ST AVE N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	HANSEN Baking Co Inc Jens Jens L and Car	R.L. Polk Co Publishers

### LUCY H 822 QUEEN ANNE St

#### 0 LUCY H 822 QUEEN ANNE St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	av apt 15	R.L. Polk Co Publishers
	Veitch Albt	R.L. Polk Co Publishers

### LY 2 ROY St

#### 35 LY 2 ROY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Harnar Wm J Hazel elk SHECo h	R.L. Polk Co Publishers

### MALARION F SLSMN H 119 W ROY St

#### 1 MALARION F SLSMN H 119 W ROY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Chas	R.L. Polk Co Publishers
	Webster Chas A M h	R.L. Polk Co Publishers

### MASTER MATES 2 ROY St

#### 1 MASTER MATES 2 ROY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	Freestone Arth W Rose pres Northwest Assn No	R.L. Polk Co Publishers

# FINDINGS

## **MERCER**

### **1 MERCER**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	st av N intersects	R.L. Polk Co Publishers	Image pg. A119

### **2 MERCER**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	d av N intersects	R.L. Polk Co Publishers	Image pg. A122

### **3 MERCER**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	d av N intersects	R.L. Polk Co Publishers	Image pg. A124

### **4 MERCER**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A124

### **5 MERCER**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A124
1935	Westberg C H slsmin hi	R.L. Polk Co Publishers	

### **6 MERCER**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A124

### **7 MERCER**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Flannery Chas barber	R.L. Polk Co publishers	Image pg. A171
	Anderson Edwin C gro	R.L. Polk Co publishers	Image pg. A171

### **8 MERCER**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A124

### **9 MERCER**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Seattle Queen Anne Br	R.L. Polk Co Publishers	Image pg. A125
	th av N intersects	R.L. Polk Co Publishers	Image pg. A126
	Natl Bank of Commerce of	R.L. Polk Co Publishers	Image pg. A125
1940	wine dir and cigars	R.L. Polk Co publishers	Image pg. A171

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Roberts Richd W beer and	R.L. Polk Co publishers	Image pg. A171

### 10 MERCER

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Marqueen Garage auto reprs	R.L. Polk Co Publishers	Image pg. A119
1940	Gruber H Clifford	R.L. Polk Co publishers	Image pg. A171
	Marqueen Garage	R.L. Polk Co publishers	Image pg. A171
1935	Marqueen Garage Wm E Martin	R.L. Polk Co Publishers	
1930	GENERAL Garage Frank M White mgr	R.L. Polk Co Publishers	
1920	TAYLOR Chas J	R.L. Polk Co Publishers	
	h	R.L. Polk Co Publishers	
	Kuay Garage C J Taylor	R.L. Polk Co Publishers	

### 11 MERCER

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Gladfelter Ruth I florist	R.L. Polk Co publishers	Image pg. A171

### 13 MERCER

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Goods	R.L. Polk Co Publishers	Image pg. A121
	Ace Beverage & i Sporting	R.L. Polk Co Publishers	Image pg. A121
1940	Luse Sam J beverages	R.L. Polk Co publishers	Image pg. A171

### 15 MERCER

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Store No 1 and geni offices	R.L. Polk Co Publishers	Image pg. A121
	Seattle Paint & Hdw Co	R.L. Polk Co Publishers	Image pg. A121
1940	Control Board	R.L. Polk Co publishers	Image pg. A171
	Washington State Liquor	R.L. Polk Co publishers	Image pg. A171
1935	SMITH Harold R Helen E h	R.L. Polk Co Publishers	
1930	Cherry Frank Ora B eng hi	R.L. Polk Co Publishers	
	BAKER Richd D Blanche P pres General Cop	R.L. Polk Co Publishers	
	BAKER Rex rl	R.L. Polk Co Publishers	
	Cherry Michl A trucker ATD rl	R.L. Polk Co Publishers	

### 17 MERCER

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Mercer Dress Shop	R.L. Polk Co Publishers	Image pg. A121
1940	furnishing gds	R.L. Polk Co publishers	Image pg. A171

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Rose Ruth H womens	R.L. Polk Co publishers	Image pg. A171

### 19 MERCER

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Warrens Ice Creamery	R.L. Polk Co Publishers	Image pg. A121
1940	Warren Bert B confr	R.L. Polk Co publishers	Image pg. A171

### 20 MERCER

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Safeway Stores Inc gro	R.L. Polk Co Publishers	Image pg. A123
1940	Matterson M Lee	R.L. Polk Co publishers	Image pg. A171
1935	NIELSEN Theo F Ottine P lab h	R.L. Polk Co Publishers	
	Nielsen Bertha N press opr ACCo r	R.L. Polk Co Publishers	
	Nielsen Agnes wtrs r	R.L. Polk Co Publishers	
	NIELSEN Margt R r	R.L. Polk Co Publishers	
1930	Dait Alberto G housemn r	R.L. Polk Co Publishers	
1925	ARMSTRONG I Bruce Susan J Buster Brown Shoe Store h	R.L. Polk Co Publishers	
	ARMSTRONG Homer slsmn Buster Brown Shoe Store r	R.L. Polk Co Publishers	
1920	ARMSTRONG I Bruce Susan B shoes	R.L. Polk Co Publishers	

### 22 MERCER

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Max Lees Twenty Two	R.L. Polk Co publishers	Image pg. A171
	Mercer Cafe	R.L. Polk Co publishers	Image pg. A171
1930	Ernest car repr SMRy r	R.L. Polk Co Publishers	
	Schild Conrad C Thelma ofc mgr Am	R.L. Polk Co Publishers	
1925	Caroline Louis Emma filer h	R.L. Polk Co Publishers	
	Munroe Elizab Mrs drsmkr r	R.L. Polk Co Publishers	
1920	THOMSON Wm C Eva bottler h	R.L. Polk Co Publishers	
	KENNEDY Frank H r	R.L. Polk Co Publishers	

### 23 MERCER

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Bartell Drug Co br	R.L. Polk Co Publishers	Image pg. A123

### 24 MERCER

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1930	HEWITT Maude Mrs r	R.L. Polk Co Publishers	
	Jennie E wid Frank h	R.L. Polk Co Publishers	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	HEWITT Jas H Esther slsmn ZPCo h	R.L. Polk Co Publishers
1925	Hewitt Jennie E wid Frank h	R.L. Polk Co Publishers
	Hewitt Maud Mrs tlrs r	R.L. Polk Co Publishers
1920	YOUNGO DanI Olive M metalwkr h	R.L. Polk Co Publishers

### 27 MERCER

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	BLACK Louis r	R.L. Polk Co Publishers
	Pruss Louis mniach r	R.L. Polk Co Publishers

### 105 MERCER

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Mercer Apartments	R.L. Polk Co Publishers	Image pg. A119
	Gauklcel Jean C Mrs	R.L. Polk Co Publishers	Image pg. A119
	Smith W	R.L. Polk Co Publishers	Image pg. A119
	Fox Thos C	R.L. Polk Co Publishers	Image pg. A119
	Armentrout Roy C pgr	R.L. Polk Co Publishers	Image pg. A119
	Morgensen Chris W	R.L. Polk Co Publishers	Image pg. A120
	Mills Henry J	R.L. Polk Co Publishers	Image pg. A120
	Balch Richd C a	R.L. Polk Co Publishers	Image pg. A120
	Parker Geo 0 a	R.L. Polk Co Publishers	Image pg. A120
	M 1unro Beth	R.L. Polk Co Publishers	Image pg. A120
	Ramsey H Clay	R.L. Polk Co Publishers	Image pg. A120
	Reis Pearl Mlrs	R.L. Polk Co Publishers	Image pg. A120
	Matuszak B W	R.L. Polk Co Publishers	Image pg. A120
	Vacant	R.L. Polk Co Publishers	Image pg. A120
	Monday Floyd M	R.L. Polk Co Publishers	Image pg. A120
	Vacant	R.L. Polk Co Publishers	Image pg. A120
	Osborn Horace A	R.L. Polk Co Publishers	Image pg. A120
	Dye Mildred Mrs	R.L. Polk Co Publishers	Image pg. A120
	Gerber Donald	R.L. Polk Co Publishers	Image pg. A120
	Black Edw J jr	R.L. Polk Co Publishers	Image pg. A120
	Whitney R L	R.L. Polk Co Publishers	Image pg. A120
	Schwartz 0 F	R.L. Polk Co Publishers	Image pg. A120
	Heck Prances M	R.L. Polk Co Publishers	Image pg. A120
	Mitchell I Ruth	R.L. Polk Co Publishers	Image pg. A120
	Mc Leod Jean	R.L. Polk Co Publishers	Image pg. A120
	Ray Florence V	R.L. Polk Co Publishers	Image pg. A119
	Goddard Investment Co	R.L. Polk Co Publishers	Image pg. A119

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Whitney Donna J	R.L. Polk Co Publishers	Image pg. A119
	Ripki Barbara F	R.L. Polk Co Publishers	Image pg. A119
	MERCER Contd	R.L. Polk Co Publishers	Image pg. A120
	Hall Jos V a	R.L. Polk Co Publishers	Image pg. A120
	Mc Cabe Robt B A Ale	R.L. Polk Co Publishers	Image pg. A120
	Ray R L	R.L. Polk Co Publishers	Image pg. A120
	Foley Margt S Mrs	R.L. Polk Co Publishers	Image pg. A120
	Jones Rield	R.L. Polk Co Publishers	Image pg. A120
	Street Continued	R.L. Polk Co Publishers	Image pg. A120
	MClelland Walter F	R.L. Polk Co Publishers	Image pg. A120
	Cook Robt A	R.L. Polk Co Publishers	Image pg. A120
	Erickson Van	R.L. Polk Co Publishers	Image pg. A120
	Birse Mary Mlrs	R.L. Polk Co Publishers	Image pg. A120
	Bay Wm	R.L. Polk Co Publishers	Image pg. A120
	Pung Florence	R.L. Polk Co Publishers	Image pg. A120
1940	Iverson Arvid	R.L. Polk Co Publishers	Image pg. A120
	Bennett Emory G	R.L. Polk Co publishers	Image pg. A171
	a Boast Helen M	R.L. Polk Co publishers	Image pg. A171
	Brown J Raymond jr	R.L. Polk Co publishers	Image pg. A171
	Buell Lewis E	R.L. Polk Co publishers	Image pg. A171
	Clawson R Vincent	R.L. Polk Co publishers	Image pg. A171
	De Young Wm bldg contr	R.L. Polk Co publishers	Image pg. A171
	Donovan Jos E	R.L. Polk Co publishers	Image pg. A171
	Douglas Jas R	R.L. Polk Co publishers	Image pg. A171
	Downie David M	R.L. Polk Co publishers	Image pg. A171
	Doyle Lola Mrs	R.L. Polk Co publishers	Image pg. A171
	Eaton Alden L	R.L. Polk Co publishers	Image pg. A171
	Fogman H F	R.L. Polk Co publishers	Image pg. A171
	Foss Frank W	R.L. Polk Co publishers	Image pg. A171
	Freiman Jos J	R.L. Polk Co publishers	Image pg. A171
	Gilland Richd C	R.L. Polk Co publishers	Image pg. A171
	Hewson Wilbur M	R.L. Polk Co publishers	Image pg. A171
	Hostetter Orville J	R.L. Polk Co publishers	Image pg. A171
	Hubbard Dorothy A	R.L. Polk Co publishers	Image pg. A171
Humphreys Hugh D	R.L. Polk Co publishers	Image pg. A171	
Jacobs Harry	R.L. Polk Co publishers	Image pg. A171	
Jacobson W Milton	R.L. Polk Co publishers	Image pg. A171	
Jones R E	R.L. Polk Co publishers	Image pg. A171	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Larsen Chas L	R.L. Polk Co publishers	Image pg. A171
	Lovgren Ruben	R.L. Polk Co publishers	Image pg. A171
	Moore Ralph B	R.L. Polk Co publishers	Image pg. A171
	Newson Wilbur M	R.L. Polk Co publishers	Image pg. A171
	Peterson Jas M	R.L. Polk Co publishers	Image pg. A171
	Picknell R G	R.L. Polk Co publishers	Image pg. A171
	Richardson Jane Mrs	R.L. Polk Co publishers	Image pg. A171
	Rinehart Willard M	R.L. Polk Co publishers	Image pg. A171
	Roberts H Bernie	R.L. Polk Co publishers	Image pg. A171
	Scanlon Wm H jr	R.L. Polk Co publishers	Image pg. A171
	Smith Birney R	R.L. Polk Co publishers	Image pg. A171
	Tabor H	R.L. Polk Co publishers	Image pg. A171
	UTbaghs Louis J	R.L. Polk Co publishers	Image pg. A171
	Woodward Olive M Mrs	R.L. Polk Co publishers	Image pg. A171
	Maxine Apartments	R.L. Polk Co publishers	Image pg. A171
	Gaukel Marvin mgr	R.L. Polk Co publishers	Image pg. A171
	Adams Ruth B Mrs	R.L. Polk Co publishers	Image pg. A171
	Anderson A W	R.L. Polk Co publishers	Image pg. A171
	1935	Lena Lincoln H Carrie M miner h	R.L. Polk Co Publishers
Marriott T Albert mech BACo r		R.L. Polk Co Publishers	
Mc Anna M Mrs h		R.L. Polk Co Publishers	
Mc Thos J mtctr Albin G Spengler r		R.L. Polk Co Publishers	
Mc Wm R driver h		R.L. Polk Co Publishers	
Millar Chas P Agnes C miller IFLInc h		R.L. Polk Co Publishers	
Schnebele Edw A Esther driver Williams & Co h		R.L. Polk Co Publishers	
Simdars Herman A Ruth eng h		R.L. Polk Co Publishers	
Simmons Frances E elk UOCo h		R.L. Polk Co Publishers	
SMITH Harry E Minnie A C real est h		R.L. Polk Co Publishers	
Spence Kenneth A Helen L bkpr FNB h		R.L. Polk Co Publishers	
Talley Elvin L Valeria slsmn h		R.L. Polk Co Publishers	
WILSON Jas Mary S mech CCo h		R.L. Polk Co Publishers	
ALBRECHT Henry E estimator Electric Steel Foundry Co h		R.L. Polk Co Publishers	
ARNOLD Clara W Indrs h		R.L. Polk Co Publishers	
Brobeck Geo E h		R.L. Polk Co Publishers	
Brobeck Margt clk ELAS r		R.L. Polk Co Publishers	
CHRISTENSEN Willis Gertrude P bkpr DW&Co h		R.L. Polk Co Publishers	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Christianson Gertrude Mrs pkr Wason Bros Co r	R.L. Polk Co Publishers
	CLARK Richd J r	R.L. Polk Co Publishers
	COLLINS Roy L Elaine bkpr ROCo h	R.L. Polk Co Publishers
	De Wm Jessie E bldr h	R.L. Polk Co Publishers
	Hodgins Kath H mgr Maxine Apts h	R.L. Polk Co Publishers
	Holcomb Valeria K elk r	R.L. Polk Co Publishers
	Holcomb Vance R Cath E h	R.L. Polk Co Publishers
	Jenkins J Gordon supvr ACCo h	R.L. Polk Co Publishers
	JOHNSON Sigward H Mary police SPD h	R.L. Polk Co Publishers
	Kimsey Frank D jr Vareen elk PSNav Co h	R.L. Polk Co Publishers
	Kimsey Vareenri Mrs bkpr Western Containers Inc h	R.L. Polk Co Publishers
	Kuhworth Jas E Anna slsmn h	R.L. Polk Co Publishers
	1930	ATKINSON Wando E Vaun M mech AACoof Sinc h
Bruer Cecil G Martha sls mgr AMSInc h		R.L. Polk Co Publishers
COOK May h		R.L. Polk Co Publishers
GARDNER Mabel h		R.L. Polk Co Publishers
Gruber Alta M Mrs mgr Maxine Apts h		R.L. Polk Co Publishers
rage h		R.L. Polk Co Publishers
Gruber II Clifford Alta M mech General Ga		R.L. Polk Co Publishers
Helgren Oscar T Anna biksmith h		R.L. Polk Co Publishers
apt 109		R.L. Polk Co Publishers
Heliker Barbara M wid Edw P h 3022		R.L. Polk Co Publishers
Keller Edw W h		R.L. Polk Co Publishers
Maxine Apartments Mrs Alta M Gruber mgr		R.L. Polk Co Publishers
MILLER Edith Mrs h		R.L. Polk Co Publishers
Palmquist John L with Far West Lithograph Co h		R.L. Polk Co Publishers
PERRY Wm H h		R.L. Polk Co Publishers
Shand Mary h		R.L. Polk Co Publishers
SW Marvin C h	R.L. Polk Co Publishers	

### 107 MERCER

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1955	Vacant	R.L. Polk Co Publishers

Image pg. A120

## FINDINGS

### 110 MERCER

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	Hansen Carl L Lura L v pres Hansen Baking Co Inc h	R.L. Polk Co Publishers
	Keenan Henry Anna M driver h	R.L. Polk Co Publishers

### 112 MERCER

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	IHansen Baking Co Inc	R.L. Polk Co Publishers	Image pg. A120
	side ent	R.L. Polk Co Publishers	Image pg. A120
1940	Hansen Baking Co Inc	R.L. Polk Co publishers	Image pg. A171

### 115 MERCER

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Hughes Morris E	R.L. Polk Co Publishers	Image pg. A120
1940	Cherry Ora B Mrs	R.L. Polk Co publishers	Image pg. A171
1935	Frank M Ora B eng h	R.L. Polk Co Publishers	
	Cherry Edgar r	R.L. Polk Co Publishers	
1925	JENSEN Martha artist Wash Adv Brokerage Co r	R.L. Polk Co Publishers	
	Rosche Earl Alice N logger h	R.L. Polk Co Publishers	
	Clara M cashr F&N r	R.L. Polk Co Publishers	
	ROSE Louise E r	R.L. Polk Co Publishers	
1920	ROSE Clara A cashr F&N r	R.L. Polk Co Publishers	
	JENSEN Martha artist r	R.L. Polk Co Publishers	
	ROSE Louise h	R.L. Polk Co Publishers	

### MERCER W

#### 10 MERCER W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Munson M A auto repr	R.L. Polk Co publishers	Image pg. A172

#### 15 MERCER W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Hoagland Theo W	R.L. Polk Co publishers	Image pg. A172

#### 16 MERCER W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Evans Evelyn 3 Mrs	R.L. Polk Co publishers	Image pg. A172
	Swallwell Harvey	R.L. Polk Co publishers	Image pg. A172
	Seim Dorothy Mrs	R.L. Polk Co publishers	Image pg. A172

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Miller Wilma E Mrs	R.L. Polk Co publishers	Image pg. A172
	Bales Lee Mrs	R.L. Polk Co publishers	Image pg. A172
	Allen Ellen	R.L. Polk Co publishers	Image pg. A172

### 17 MERCER W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Rich John M dentist	R.L. Polk Co publishers	Image pg. A172

### 24 MERCER W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Apartments	R.L. Polk Co publishers	Image pg. A172
	Scott Augusta L Mrs	R.L. Polk Co publishers	Image pg. A172
	Linderman Patricia	R.L. Polk Co publishers	Image pg. A172
	Harrison Walter C	R.L. Polk Co publishers	Image pg. A172
	Hanley Mathew J	R.L. Polk Co publishers	Image pg. A172
	Furber Wm	R.L. Polk Co publishers	Image pg. A172
	Armstrong Edw W	R.L. Polk Co publishers	Image pg. A172

### 102 MERCER W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Galliven Gerald	R.L. Polk Co publishers	Image pg. A172

### 108 MERCER W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Hamaker Maggie Mrs	R.L. Polk Co publishers	Image pg. A172
	Motto Bonnie Mrs	R.L. Polk Co publishers	Image pg. A172
	Callahan Michl D	R.L. Polk Co publishers	Image pg. A172

### 109 MERCER W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Home Service Bakery	R.L. Polk Co publishers	Image pg. A172

### 114 MERCER W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Watson Allen	R.L. Polk Co publishers	Image pg. A172
	Cox Helen Mrs	R.L. Polk Co publishers	Image pg. A172
	Pickeral Ernest C	R.L. Polk Co publishers	Image pg. A172

### 115 MERCER W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Frazier Robt	R.L. Polk Co publishers	Image pg. A172

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Madden Anna C Mrs	R.L. Polk Co publishers	Image pg. A172

### 117 MERCER W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Lund Chas	R.L. Polk Co publishers	Image pg. A172
	Qualley Marjorie Mrs	R.L. Polk Co publishers	Image pg. A172

### MERCER 6403 ROOSEVELT WAY

#### 7 MERCER 6403 ROOSEVELT WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1935	W Hanson Alonzo D Fish A C Rundle insprs	R.L. Polk Co Publishers	
	ket	R.L. Polk Co Publishers	

### MERCER ALIT 211 St

#### 105 MERCER ALIT 211 St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1935	KOCH Lucille sten M B Hevly Inc h	R.L. Polk Co Publishers	

### Mercer apt 312

#### 1 Mercer apt 312

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1935	Vitt Kar	R.L. Polk Co Publishers	

### MERCER H 615 QUEEN ANNE St

#### 9 MERCER H 615 QUEEN ANNE St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1935	Mc Robt Alice L tlr	R.L. Polk Co Publishers	

### MERCER R 1515 BOREN AVE

#### 10 MERCER R 1515 BOREN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1925	Beardsley Lee R garage	R.L. Polk Co Publishers	

## FINDINGS

### MERCER ST

#### 4 MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1986	Title Wave Books	R.L. Polk Co. Publishers	Image pg. A40
1951	Reimer H W osteo GA	R.L. Polk Co Publishers	Image pg. A145
	ICalland M I dentist GA	R.L. Polk Co Publishers	Image pg. A145

#### 6 MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1990	Record Planet	R.L. Polk Co. Publishers	Image pg. A25

### Mercer St

#### 7 Mercer St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	TWICE SOLD TALES	EDR Digital Archive
	SAROW DEBRADBA MERCER ST BKS	EDR Digital Archive
2010	SAROW DEBRADBA MERCER ST BKS	EDR Digital Archive
	TWICE SOLD TALES	EDR Digital Archive
	BOOKOPOTAMUS LLC	EDR Digital Archive

### MERCER ST

#### 7 MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	TITLEWAVE BOOKS 400 C	R.L. Polk Co. Publishers	Image pg. A15
1990	Title Wave Books ret	R.L. Polk Co. Publishers	Image pg. A25
1986	Pleasure Travel Inc	R.L. Polk Co. Publishers	Image pg. A40
1980	Pleasure Travel Inc	R.L. Polk Co. Publishers	Image pg. A53
1975	Beneficial Finance Co loan	R.L. Polk Co. Publishers	Image pg. A68
1970	BENEFICIAL FINANCE CO LOANS	R.L. Polk Co Publishers	Image pg. A79
1966	PRYD N JOY YOUTH TOGS CLO AT	R.L. Polk Co Publishers	Image pg. A93

### MERCER St

#### 7 MERCER St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Doyle John barber	R. L. Polk & Co.	Image pg. A159
	Olympic Grocery	R. L. Polk & Co.	Image pg. A159

## FINDINGS

### Mercer St

#### 9 Mercer St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	SALON IMAGE	EDR Digital Archive

### MERCER ST

#### 9 MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2005	Art Exclusively	Cole Information Services Image pg. A2
1996	CREATIONS IN GOLD	R.L. Polk Co. Publishers Image pg. A15
1990	Creations In Gold jwly ret	R.L. Polk Co. Publishers Image pg. A25
1986	Creations In Gold jwly ret	R.L. Polk Co. Publishers Image pg. A40
1980	Smart Set Beauty Salon	R.L. Polk Co. Publishers Image pg. A53
1975	Smart Set Beauty Salon	R.L. Polk Co. Publishers Image pg. A68
1970	ATA 1020	R.L. Polk Co Publishers Image pg. A79
	SMART SET BEAUTY SALON	R.L. Polk Co Publishers Image pg. A79
1966	SMART SET BEAUTY SALON AT	R.L. Polk Co Publishers Image pg. A93
1951	Natl Bank of Commerce	R.L. Polk Co Publishers Image pg. A145
	Queen Anne Br GA	R.L. Polk Co Publishers Image pg. A145

### MERCER St

#### 9 MERCER St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1944	Mint Beverage Store	R. L. Polk & Co. Image pg. A159

### Mercer St

#### 10 Mercer St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	10 MERCER	EDR Digital Archive
	MARQUEEN	EDR Digital Archive
2010	10 MERCER	EDR Digital Archive
	MARQUEEN	EDR Digital Archive

## FINDINGS

### MERCER ST

#### 10 MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Marqueen	Cole Information Services	Image pg. A2
	MercerInc	Cole Information Services	Image pg. A2
1990	Diamond Parking Service	R.L. Polk Co. Publishers	Image pg. A25
1986	Diamond Parking Service	R.L. Polk Co. Publishers	Image pg. A40
1980	Marqueen Garage auto reprs	R.L. Polk Co. Publishers	Image pg. A53
1975	Marqueen Garage auto repro	R.L. Polk Co. Publishers	Image pg. A68
1970	MARQUEEN GARAGE AUTO REPRS AT	R.L. Polk Co Publishers	Image pg. A79
1966	MARQUEEN GARAGE AUTO REPRS AT	R.L. Polk Co Publishers	Image pg. A89
1951	Mariueen Garage GA	R.L. Polk Co Publishers	Image pg. A145

### MERCER St

#### 10 MERCER St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Marqueen Garage	R. L. Polk & Co.	Image pg. A159

### MERCER ST

#### 10 MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1925	Morman Walter C auto rpr	R.L. Polk Co Publishers	

### Mercer St

#### 11 Mercer St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2010	RCC LIQUIDATING CORP	EDR Digital Archive	

### MERCER ST

#### 11 MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	KITS CAMERAS	R.L. Polk Co. Publishers	Image pg. A15
1990	Kits Cameras photog equip reprs	R.L. Polk Co. Publishers	Image pg. A25
1986	Kits Cameras photog equip reprs	R.L. Polk Co. Publishers	Image pg. A40
1980	Mercer Dress Shop	R.L. Polk Co. Publishers	Image pg. A53
1975	Mercer Dres Shop	R.L. Polk Co. Publishers	Image pg. A68

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1970	MERCER DRESS SHOP AT	R.L. Polk Co Publishers	Image pg. A79
1966	MERCER DRESS SHOP AT	R.L. Polk Co Publishers	Image pg. A91

### MERCER St

#### 11 MERCER St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Chicken Pie Lunch	R. L. Polk & Co.	Image pg. A159

### Mercer St

#### 12 Mercer St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2014	CLOVES SEATTLE	EDR Digital Archive	

### MERCER ST

#### 12 MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Marketplace Cleaners	Cole Information Services	Image pg. A2

#### 13 MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1980	Joys Twenty One Cocktail Lounge	R.L. Polk Co. Publishers	Image pg. A53
1975	Jenen Jewelers AT	R.L. Polk Co. Publishers	Image pg. A68
1970	ACE BEVERAGE & SPORTING	R.L. Polk Co Publishers	Image pg. A79
	CE RIDDER JEWELERS RET	R.L. Polk Co Publishers	Image pg. A79
1966	ACE BEVERAGE & SPORTING GOODS AT	R.L. Polk Co Publishers	Image pg. A93
1951	Ace Beverage Store GA	R.L. Polk Co Publishers	Image pg. A145

### MERCER St

#### 13 MERCER St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Ace Beverage Co beer and	R. L. Polk & Co.	Image pg. A159

## FINDINGS

### Mercer St

#### 14 Mercer St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	MELTING POT	EDR Digital Archive
2010	MELTING POT	EDR Digital Archive

### MERCER ST

#### 14 MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Melting Pot g	Cole Information Services	Image pg. A2

#### 15 MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1970	PRYD N JOY YOUTH TOGS CLO AT	R.L. Polk Co Publishers	Image pg. A79
1966	SEATTLE PAINT & HOW STORE NO 16 GENL OFCS AT	R.L. Polk Co Publishers	Image pg. A93
1951	Seattle Paint & Hhdw Co	R.L. Polk Co Publishers	Image pg. A145

### MERCER St

#### 15 MERCER St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Washington State Liquor Control Board	R. L. Polk & Co. R. L. Polk & Co.	Image pg. A159 Image pg. A159

### MERCER ST

#### 17 MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1970	KUEFLER REALTY REAL EST	R.L. Polk Co Publishers	Image pg. A79
1966	NORTHWEST MANUFACTURERS AGENTS CHEM & ELECTRONIC EQUIP AT	R.L. Polk Co Publishers R.L. Polk Co Publishers	Image pg. A93 Image pg. A93
	ACME REALTY 6 INVESTMENT CO AT	R.L. Polk Co Publishers	Image pg. A93
1951	Mercer Dress Shop AL	R.L. Polk Co Publishers	Image pg. A145

## FINDINGS

### MERCER St

#### 17 MERCER St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Mercer Dress Shop	R. L. Polk & Co.	Image pg. A159

### MERCER ST

#### 19 MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1970	OLIVERS RESTAURANT	R.L. Polk Co Publishers	Image pg. A79
1966	WARRENS ICE CREAMERY AT	R.L. Polk Co Publishers	Image pg. A93
1951	Warrens Ice Crmry GA	R.L. Polk Co Publishers	Image pg. A145

### MERCER St

#### 19 MERCER St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Warren Bert B confr	R. L. Polk & Co.	Image pg. A159

### Mercer St

#### 20 Mercer St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2010	EASY STREET RECORDS	EDR Digital Archive	

### MERCER ST

#### 20 MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	BOOKS	R.L. Polk Co. Publishers	Image pg. A15
	MERCER ST contd	R.L. Polk Co. Publishers	Image pg. A15
	Adreao Zip+4 Carr Rto Phone	R.L. Polk Co. Publishers	Image pg. A15
	TOWER RECORDS VIDEO	R.L. Polk Co. Publishers	Image pg. A15
1990	Tower Books	R.L. Polk Co. Publishers	Image pg. A25
1986	Tower Books	R.L. Polk Co. Publishers	Image pg. A40
1980	Tower	R.L. Polk Co. Publishers	Image pg. A53
1975	Vacant	R.L. Polk Co. Publishers	Image pg. A68
1970	MERCER STREET IGA STORES GRO AT	R.L. Polk Co Publishers	Image pg. A79
1966	MERCER STREET IGA STORES GRO AT	R.L. Polk Co Publishers	Image pg. A93

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Safeway Stores Inc br gro	R.L. Polk Co Publishers	Image pg. A145

### **MERCER St**

#### **20 MERCER St**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	meats	R. L. Polk & Co.	Image pg. A159
	Safeway Stores Inc gro and	R. L. Polk & Co.	Image pg. A159

### **Mercer St**

#### **21 Mercer St**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	21 MERCER ST INC	EDR Digital Archive
2010	21 MERCER ST INC	EDR Digital Archive

### **MERCER ST**

#### **21 MERCER ST**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Ts Mc Hughs	Cole Information Services	Image pg. A2
1996	HOUS E	R.L. Polk Co. Publishers	Image pg. A15
	T S MC HUGHS PUBLIC	R.L. Polk Co. Publishers	Image pg. A15
1990	Flapper Alley Restaurant	R.L. Polk Co. Publishers	Image pg. A25
1986	Flapper Alley Restaurant Inc	R.L. Polk Co. Publishers	Image pg. A40
1980	Joys Twenty One Restaurant Inc	R.L. Polk Co. Publishers	Image pg. A53
1975	Joy Twenty One Restaurant Inc	R.L. Polk Co. Publishers	Image pg. A68

### **Mercer St**

#### **23 Mercer St**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	LUMPINEE INC	EDR Digital Archive
2010	LUMPINEE INC	EDR Digital Archive

### **MERCER ST**

#### **23 MERCER ST**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Racha Noodle &Thal Cuisine	Cole Information Services	Image pg. A2
1996	BRUEGGERS BAGEL	R.L. Polk Co. Publishers	Image pg. A15

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	BAKERY	R.L. Polk Co. Publishers	Image pg. A15
1990	Bartell Drug Co Br	R.L. Polk Co. Publishers	Image pg. A25
	Roth Douglas	R.L. Polk Co. Publishers	Image pg. A25
1986	Bartell Drug Co Br	R.L. Polk Co. Publishers	Image pg. A40
	1ST AV N INTERSECTS	R.L. Polk Co. Publishers	Image pg. A40
1980	Bartell Drug Co Br	R.L. Polk Co. Publishers	Image pg. A53
1975	Bartell Drug Co Br	R.L. Polk Co. Publishers	Image pg. A68
1970	EARTELL DRUG CO BR AT	R.L. Polk Co Publishers	Image pg. A79
1966	BARTELL DRUG CO 8 R AT	R.L. Polk Co Publishers	Image pg. A93
1951	Bartell Drug Co AL	R.L. Polk Co Publishers	Image pg. A145

### Mercer St

#### 100 Mercer St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	METROPOLITAN MARKET LLC	EDR Digital Archive
2010	FOOD MARKETS NORTHWEST INC	EDR Digital Archive

### MERCER ST

#### 100 MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Larrys Markets	Cole Information Services	Image pg. A2
	Peets Coffee & Tea	Cole Information Services	Image pg. A2
1996	LARRYS MARKETS INC	R.L. Polk Co. Publishers	Image pg. A15
1990	La Fontana Restaurant	R.L. Polk Co. Publishers	Image pg. A25
	Morfeys Cake Shoppe cakes	R.L. Polk Co. Publishers	Image pg. A25
	Harrys Burger Establishment Hansen Baking Co The	R.L. Polk Co. Publishers	Image pg. A25
	Sunspa The indoor tanning salon	R.L. Polk Co. Publishers	Image pg. A25
	OShaughnessys Jake restr	R.L. Polk Co. Publishers	Image pg. A25
	Office Building	R.L. Polk Co. Publishers	Image pg. A25
	Vacant	R.L. Polk Co. Publishers	Image pg. A25
	Sancho Design graphic designer	R.L. Polk Co. Publishers	Image pg. A25
	Hair Masters hair cutting	R.L. Polk Co. Publishers	Image pg. A25
	Joyce Sprain Inc adv & mktg	R.L. Polk Co. Publishers	Image pg. A25
	Phoenecia Restr	R.L. Polk Co. Publishers	Image pg. A25
	Pleasure Travel	R.L. Polk Co. Publishers	Image pg. A25
1986	Sivertsens Bakery	R.L. Polk Co. Publishers	Image pg. A40
	Sundays restr	R.L. Polk Co. Publishers	Image pg. A40

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1986	Walnut Hills Engineering Co mech eng	R.L. Polk Co. Publishers	Image pg. A40
	Caicos Corp	R.L. Polk Co. Publishers	Image pg. A40
	Phoenecia Restr	R.L. Polk Co. Publishers	Image pg. A40
	Blomgren Lilia Handbags	R.L. Polk Co. Publishers	Image pg. A40
	Office Building	R.L. Polk Co. Publishers	Image pg. A40
	Chekcmate Ltd investigations security	R.L. Polk Co. Publishers	Image pg. A40
	Columbia Institute conference coord	R.L. Polk Co. Publishers	Image pg. A40
	Marco Leasing Inc	R.L. Polk Co. Publishers	Image pg. A40
	Hair Masters hair cutting	R.L. Polk Co. Publishers	Image pg. A40
	Exercise Place The classes	R.L. Polk Co. Publishers	Image pg. A40
	Queen Ann Bar & Grill	R.L. Polk Co. Publishers	Image pg. A40
	Harrys Addl Sp	R.L. Polk Co. Publishers	Image pg. A40
	Harrys Burger Establishment restr	R.L. Polk Co. Publishers	Image pg. A40
	Hansen Baking Co The	R.L. Polk Co. Publishers	Image pg. A40
	Sunspa The indoor tanning salon	R.L. Polk Co. Publishers	Image pg. A40
	Sbocco Addl Sp OShaughnessys Jake restr	R.L. Polk Co. Publishers	Image pg. A40
	S B 0 C C 0 wns do	R.L. Polk Co. Publishers	Image pg. A40
1980	Office Building Long & Associates architectural firm	R.L. Polk Co. Publishers	Image pg. A53
	Marco Leasing Inc leasing co	R.L. Polk Co. Publishers	Image pg. A53
	Captain Cooks General Store kitch ware & baskets	R.L. Polk Co. Publishers	Image pg. A53
	Game Gallery The games retail	R.L. Polk Co. Publishers	Image pg. A53
	Creations In Gold jwlry	R.L. Polk Co. Publishers	Image pg. A53
	Earl Of Sandwich Ltd	R.L. Polk Co. Publishers	Image pg. A53
	Harrys Addl Sp	R.L. Polk Co. Publishers	Image pg. A53
	Galerie Elisabeth picture gallery frame shop	R.L. Polk Co. Publishers	Image pg. A53
	Harrys restr	R.L. Polk Co. Publishers	Image pg. A53
	Hansen Baking Co The	R.L. Polk Co. Publishers	Image pg. A53
	Honey Well II wns do	R.L. Polk Co. Publishers	Image pg. A53
	Captain Cooks Add Sp	R.L. Polk Co. Publishers	Image pg. A53
	Sbocco Addi Sp OShaughnesaeyes Jake restr	R.L. Polk Co. Publishers	Image pg. A53
	S B 0 C C 0 wns do	R.L. Polk Co. Publishers	Image pg. A53
	Sivertsens Bakery	R.L. Polk Co. Publishers	Image pg. A53
	Sundays	R.L. Polk Co. Publishers	Image pg. A53
	Bradley A Hill & Co	R.L. Polk Co. Publishers	Image pg. A53
Roats Gary C & Associates financial consultants	R.L. Polk Co. Publishers	Image pg. A53	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1980	Hill & Roates Co shopping center	R.L. Polk Co. Publishers	Image pg. A53

### Mercer St

#### 105 Mercer St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	KOObIKUL ILLUSTRATION & DESIGN	EDR Digital Archive
	WIN WIN RESOLUTION LLC	EDR Digital Archive
	PUBLIC CENTER	EDR Digital Archive
2010	WIN WIN RESOLUTION LLC	EDR Digital Archive
	KOObIKUL ILLUSTRATION & DESIGN	EDR Digital Archive

### MERCER ST

#### 105 MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	LInde Ryan	Cole Information Services	Image pg. A2
	Win Win	Cole Information Services	Image pg. A2
	Amy Woodbury	Cole Information Services	Image pg. A2
	building	Cole Information Services	Image pg. A2
	Charlene E Bagley	Cole Information Services	Image pg. A2
	Nancy ABalioghl	Cole Information Services	Image pg. A2
	Chandra L Bomstein	Cole Information Services	Image pg. A2
	Angela D Brooks	Cole Information Services	Image pg. A2
	Lisa Melinda Carslirs	Cole Information Services	Image pg. A2
	Michelle Cole	Cole Information Services	Image pg. A2
	Craillg S Connell	Cole Information Services	Image pg. A2
	Corwln Consulting	Cole Information Services	Image pg. A2
	Rich Richmond Fisher	Cole Information Services	Image pg. A2
	Richmond Fisher	Cole Information Services	Image pg. A2
	Pste BFuentes	Cole Information Services	Image pg. A2
	DHadley	Cole Information Services	Image pg. A2
	Herbert H Hill Jr	Cole Information Services	Image pg. A2
	Jamle Hil H	Cole Information Services	Image pg. A2
	Sue K Hill	Cole Information Services	Image pg. A2
	Carol A Hillls	Cole Information Services	Image pg. A2
	CIndy DE	Cole Information Services	Image pg. A2
	O Scott E Johnson	Cole Information Services	Image pg. A2
	James Kyle	Cole Information Services	Image pg. A2

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Jennifer J Lordi	Cole Information Services	Image pg. A2
	Gallna Makaranko	Cole Information Services	Image pg. A2
	Allan Prescottt	Cole Information Services	Image pg. A2
	John Reid	Cole Information Services	Image pg. A2
	Hilary J Rosenlfield	Cole Information Services	Image pg. A2
1996	Anderson Rick	R.L. Polk Co. Publishers	Image pg. A15
	Anderson Tara e	R.L. Polk Co. Publishers	Image pg. A15
	Birsa C	R.L. Polk Co. Publishers	Image pg. A15
	Boyd Lindsay	R.L. Polk Co. Publishers	Image pg. A15
	Brulolte Jason	R.L. Polk Co. Publishers	Image pg. A15
	Connolly Shela	R.L. Polk Co. Publishers	Image pg. A15
	Crandall Robert D	R.L. Polk Co. Publishers	Image pg. A15
	Doris Gerald	R.L. Polk Co. Publishers	Image pg. A15
	Foro Jon	R.L. Polk Co. Publishers	Image pg. A15
	Foss Jessica	R.L. Polk Co. Publishers	Image pg. A15
	French Claudia G	R.L. Polk Co. Publishers	Image pg. A15
	Hayes J I	R.L. Polk Co. Publishers	Image pg. A15
	Ho 11ield Shaen	R.L. Polk Co. Publishers	Image pg. A15
	Howell John A	R.L. Polk Co. Publishers	Image pg. A15
	Krause Mark	R.L. Polk Co. Publishers	Image pg. A15
	Larsen Gavin	R.L. Polk Co. Publishers	Image pg. A15
	Mackal Kathy	R.L. Polk Co. Publishers	Image pg. A15
	Mealy C Merz D M 406 C	R.L. Polk Co. Publishers	Image pg. A15
	Omallby Brt	R.L. Polk Co. Publishers	Image pg. A15
	Papineau Babetie	R.L. Polk Co. Publishers	Image pg. A15
	Papineau Eva	R.L. Polk Co. Publishers	Image pg. A15
	Pontarob L	R.L. Polk Co. Publishers	Image pg. A15
	Preston H	R.L. Polk Co. Publishers	Image pg. A15
	Purpura Joseph S III	R.L. Polk Co. Publishers	Image pg. A15
	Ramberg Peer	R.L. Polk Co. Publishers	Image pg. A15
	Ruess Kimberly L	R.L. Polk Co. Publishers	Image pg. A15
	Sack Jonoth	R.L. Polk Co. Publishers	Image pg. A15
Schaeperkoeer Brian	R.L. Polk Co. Publishers	Image pg. A15	
Slehlk Michael Stevenson Andrew 4056 C	R.L. Polk Co. Publishers	Image pg. A15	
Vandevlere Michael P	R.L. Polk Co. Publishers	Image pg. A15	
Vincent Ross	R.L. Polk Co. Publishers	Image pg. A15	
Zahaba L	R.L. Polk Co. Publishers	Image pg. A15	
Zakin Susan	R.L. Polk Co. Publishers	Image pg. A15	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	Zehnder Amanda	R.L. Polk Co. Publishers	Image pg. A15
	Zehnder Cralg	R.L. Polk Co. Publishers	Image pg. A15
1990	Mercer Apartments	R.L. Polk Co. Publishers	Image pg. A25
	Newmann J	R.L. Polk Co. Publishers	Image pg. A25
	Cecil L S	R.L. Polk Co. Publishers	Image pg. A25
	Johnson Melvin V	R.L. Polk Co. Publishers	Image pg. A25
	No Return	R.L. Polk Co. Publishers	Image pg. A25
	Jafari Nahid	R.L. Polk Co. Publishers	Image pg. A25
	Trowbridge E J	R.L. Polk Co. Publishers	Image pg. A25
	Harmon L	R.L. Polk Co. Publishers	Image pg. A25
	Bailey Jennings	R.L. Polk Co. Publishers	Image pg. A25
	Shepard Stacy	R.L. Polk Co. Publishers	Image pg. A25
	Edmonds Annie M	R.L. Polk Co. Publishers	Image pg. A25
	Hays M	R.L. Polk Co. Publishers	Image pg. A25
	Halicki Louise	R.L. Polk Co. Publishers	Image pg. A25
	Jones V L	R.L. Polk Co. Publishers	Image pg. A25
	Kretzu Jon	R.L. Polk Co. Publishers	Image pg. A25
	No Return	R.L. Polk Co. Publishers	Image pg. A25
	Kidder G M	R.L. Polk Co. Publishers	Image pg. A25
	No Return	R.L. Polk Co. Publishers	Image pg. A25
	Sorenson Eric	R.L. Polk Co. Publishers	Image pg. A25
	Savage Ruth M	R.L. Polk Co. Publishers	Image pg. A25
	Vacant	R.L. Polk Co. Publishers	Image pg. A25
	No Return	R.L. Polk Co. Publishers	Image pg. A25
	Evju Mary Mrs	R.L. Polk Co. Publishers	Image pg. A25
	Faulstich Julie	R.L. Polk Co. Publishers	Image pg. A25
	Hilt Ottelia	R.L. Polk Co. Publishers	Image pg. A25
	Meyering T	R.L. Polk Co. Publishers	Image pg. A25
	Maberry M M	R.L. Polk Co. Publishers	Image pg. A25
	Wiodkowski M	R.L. Polk Co. Publishers	Image pg. A25
Vacant	R.L. Polk Co. Publishers	Image pg. A25	
Brown Kath	R.L. Polk Co. Publishers	Image pg. A25	
Vacant	R.L. Polk Co. Publishers	Image pg. A25	
Elliot Byrd	R.L. Polk Co. Publishers	Image pg. A25	
Doris Gerald	R.L. Polk Co. Publishers	Image pg. A25	
Schooley Patricia Y	R.L. Polk Co. Publishers	Image pg. A25	
Johnson Marcham	R.L. Polk Co. Publishers	Image pg. A25	
Seattle Opera Corp Apt	R.L. Polk Co. Publishers	Image pg. A25	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1990	No Return	R.L. Polk Co. Publishers	Image pg. A25
	Fodden Chas	R.L. Polk Co. Publishers	Image pg. A25
	White L	R.L. Polk Co. Publishers	Image pg. A25
	Weston Alex S	R.L. Polk Co. Publishers	Image pg. A25
	Rockey Mark V	R.L. Polk Co. Publishers	Image pg. A25
	Cox Diane	R.L. Polk Co. Publishers	Image pg. A25
1986	Mercer Apartments	R.L. Polk Co. Publishers	Image pg. A40
	1Newmann J	R.L. Polk Co. Publishers	Image pg. A40
	Smith Wylia N	R.L. Polk Co. Publishers	Image pg. A40
	Randel Dorothy	R.L. Polk Co. Publishers	Image pg. A40
	Mohr A E	R.L. Polk Co. Publishers	Image pg. A40
	Mc Mullin T	R.L. Polk Co. Publishers	Image pg. A40
	Short Rosalied	R.L. Polk Co. Publishers	Image pg. A40
	Meljohns T	R.L. Polk Co. Publishers	Image pg. A40
	Babylon M	R.L. Polk Co. Publishers	Image pg. A40
	Durham Marguerite B Mrs	R.L. Polk Co. Publishers	Image pg. A40
	Edmonds A M	R.L. Polk Co. Publishers	Image pg. A40
	Bailey B	R.L. Polk Co. Publishers	Image pg. A40
	Price Bell Mrs	R.L. Polk Co. Publishers	Image pg. A40
	Holstead C	R.L. Polk Co. Publishers	Image pg. A40
1980	Cheney Ralph B	R.L. Polk Co. Publishers	Image pg. A53
	Hilt	R.L. Polk Co. Publishers	Image pg. A53
	Madden Eloise H	R.L. Polk Co. Publishers	Image pg. A53
	Salstrand Carol	R.L. Polk Co. Publishers	Image pg. A53
	Siegel L F	R.L. Polk Co. Publishers	Image pg. A53
	Clark Thos G	R.L. Polk Co. Publishers	Image pg. A53
	Gillette P H	R.L. Polk Co. Publishers	Image pg. A53
	Douglas Isbell	R.L. Polk Co. Publishers	Image pg. A53
	Goradia Bhanu	R.L. Polk Co. Publishers	Image pg. A53
	Doris Gerald	R.L. Polk Co. Publishers	Image pg. A53
	Egan	R.L. Polk Co. Publishers	Image pg. A53
	Frisk Frank W	R.L. Polk Co. Publishers	Image pg. A53
	Wendell E	R.L. Polk Co. Publishers	Image pg. A53
	Gamache Leonce W	R.L. Polk Co. Publishers	Image pg. A53
	OBrien H	R.L. Polk Co. Publishers	Image pg. A53
	Nishiyori Hisako	R.L. Polk Co. Publishers	Image pg. A53
	STREET CONTINUED	R.L. Polk Co. Publishers	Image pg. A53
Mercer Apartments	R.L. Polk Co. Publishers	Image pg. A53	

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1980	Jolly Margt	R.L. Polk Co. Publishers	Image pg. A53
	Smith Wylia N	R.L. Polk Co. Publishers	Image pg. A53
	Bernal Kym	R.L. Polk Co. Publishers	Image pg. A53
	Gunther Paul F	R.L. Polk Co. Publishers	Image pg. A53
	Degenfelder Joyce	R.L. Polk Co. Publishers	Image pg. A53
	Vysniauskas E	R.L. Polk Co. Publishers	Image pg. A53
	Short Rosalie	R.L. Polk Co. Publishers	Image pg. A53
	Thomas John	R.L. Polk Co. Publishers	Image pg. A53
	Durham Marguerite B Mrs	R.L. Polk Co. Publishers	Image pg. A53
	Mohr Emily	R.L. Polk Co. Publishers	Image pg. A53
	Isbell D P	R.L. Polk Co. Publishers	Image pg. A53
	Price Ray W	R.L. Polk Co. Publishers	Image pg. A53
	Edmonds Joseph	R.L. Polk Co. Publishers	Image pg. A53
	Vinberg Ernst I	R.L. Polk Co. Publishers	Image pg. A53
	Sommer Paul	R.L. Polk Co. Publishers	Image pg. A53
	Been Sybie	R.L. Polk Co. Publishers	Image pg. A53
	Thomas Paul	R.L. Polk Co. Publishers	Image pg. A53
	Levitt S	R.L. Polk Co. Publishers	Image pg. A53
	Vacant	R.L. Polk Co. Publishers	Image pg. A53
	Vacant	R.L. Polk Co. Publishers	Image pg. A53
	Parker Edna A	R.L. Polk Co. Publishers	Image pg. A53
	Savage R	R.L. Polk Co. Publishers	Image pg. A53
	Clark Susan	R.L. Polk Co. Publishers	Image pg. A53
	Ray Florence	R.L. Polk Co. Publishers	Image pg. A53
	Tamara Lyons	R.L. Polk Co. Publishers	Image pg. A53
	1975	Mercer Apartments	R.L. Polk Co. Publishers
Crandell Ruth		R.L. Polk Co. Publishers	Image pg. A68
Lawrence Terry L Mr		R.L. Polk Co. Publishers	Image pg. A68
Swanson Elmer K		R.L. Polk Co. Publishers	Image pg. A68
Mellgan Edn		R.L. Polk Co. Publishers	Image pg. A68
Carey M		R.L. Polk Co. Publishers	Image pg. A68
Deford N		R.L. Polk Co. Publishers	Image pg. A68
Short Rosale I		R.L. Polk Co. Publishers	Image pg. A68
Caxneron L		R.L. Polk Co. Publishers	Image pg. A68
Durham Marguerite B Mrs		R.L. Polk Co. Publishers	Image pg. A68
Mohr Emily		R.L. Polk Co. Publishers	Image pg. A68
Gilhooly David		R.L. Polk Co. Publishers	Image pg. A68
Price Ray W	R.L. Polk Co. Publishers	Image pg. A68	

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1975	Holatead A	R.L. Polk Co. Publishers	Image pg. A68
	Vinberg Ernst	R.L. Polk Co. Publishers	Image pg. A68
	Sommer Paul	R.L. Polk Co. Publishers	Image pg. A68
	Michael Robt M	R.L. Polk Co. Publishers	Image pg. A68
	Savage Ruth M	R.L. Polk Co. Publishers	Image pg. A68
	Galloway I E	R.L. Polk Co. Publishers	Image pg. A68
	Thornton L	R.L. Polk Co. Publishers	Image pg. A68
	Jeonen Albert L	R.L. Polk Co. Publishers	Image pg. A68
	Palo Lucille K	R.L. Polk Co. Publishers	Image pg. A68
	Ikeda Ritauko	R.L. Polk Co. Publishers	Image pg. A68
	Sepulveda R	R.L. Polk Co. Publishers	Image pg. A68
	Ray Florence V Mrs	R.L. Polk Co. Publishers	Image pg. A68
	Osman Arne H	R.L. Polk Co. Publishers	Image pg. A68
	Cheney Ralph B	R.L. Polk Co. Publishers	Image pg. A68
	Hilt V R	R.L. Polk Co. Publishers	Image pg. A68
	Madden Eloise H	R.L. Polk Co. Publishers	Image pg. A68
	Alloire M A	R.L. Polk Co. Publishers	Image pg. A68
	Siegel L F	R.L. Polk Co. Publishers	Image pg. A68
	Vacant	R.L. Polk Co. Publishers	Image pg. A68
	Uyanlauksaa Elena	R.L. Polk Co. Publishers	Image pg. A68
	Raynovich Gao	R.L. Polk Co. Publishers	Image pg. A68
	Hutcheon B L	R.L. Polk Co. Publishers	Image pg. A68
	Doris Gerald	R.L. Polk Co. Publishers	Image pg. A68
	Verrier Lee H	R.L. Polk Co. Publishers	Image pg. A68
	Casaldy Margt H Mrs	R.L. Polk Co. Publishers	Image pg. A68
	Walker A P	R.L. Polk Co. Publishers	Image pg. A68
Gamache Leonce W	R.L. Polk Co. Publishers	Image pg. A68	
Mc Kos Donald R	R.L. Polk Co. Publishers	Image pg. A68	
Haeon J	R.L. Polk Co. Publishers	Image pg. A68	
1970	MERCER APARTMENTS AT	R.L. Polk Co Publishers	Image pg. A79
	MACHIN JAMES	R.L. Polk Co Publishers	Image pg. A79
	JONES DAVID at	R.L. Polk Co Publishers	Image pg. A79
	VACANT	R.L. Polk Co Publishers	Image pg. A79
	BLAKE NEVA	R.L. Polk Co Publishers	Image pg. A79
	PAYNE EDOY L	R.L. Polk Co Publishers	Image pg. A79
	SANDE MARIE	R.L. Polk Co Publishers	Image pg. A79
	DEWEESE M LYNN	R.L. Polk Co Publishers	Image pg. A79
VACANT	R.L. Polk Co Publishers	Image pg. A79	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1970	DURHAM MARGUERITE B MRS	R.L. Polk Co Publishers	Image pg. A79
	MOHR EMILY	R.L. Polk Co Publishers	Image pg. A79
	GILHOOLY DAVID A	R.L. Polk Co Publishers	Image pg. A79
	AT 2 72e	R.L. Polk Co Publishers	Image pg. A79
	RICE RAY W AT	R.L. Polk Co Publishers	Image pg. A79
	NORDSTROM WIL E MRS	R.L. Polk Co Publishers	Image pg. A79
	VINEERG ERNST	R.L. Polk Co Publishers	Image pg. A79
	FISHER KEMP J	R.L. Polk Co Publishers	Image pg. A79
	MICHAEL ROBT AT	R.L. Polk Co Publishers	Image pg. A79
	VACANT	R.L. Polk Co Publishers	Image pg. A79
	VACANT	R.L. Polk Co Publishers	Image pg. A79
	NACCARATO D M	R.L. Polk Co Publishers	Image pg. A79
	HOLLAND D B	R.L. Polk Co Publishers	Image pg. A79
	VACANT	R.L. Polk Co Publishers	Image pg. A79
	EVANS CLAIRE C AT	R.L. Polk Co Publishers	Image pg. A79
	FINCH RICHD	R.L. Polk Co Publishers	Image pg. A79
	RAY FLORENCE V MRS AT	R.L. Polk Co Publishers	Image pg. A79
	SANDE HAROLD B	R.L. Polk Co Publishers	Image pg. A79
	CHENEY RALPH B AT	R.L. Polk Co Publishers	Image pg. A79
	LEWIS VERNA	R.L. Polk Co Publishers	Image pg. A79
	MITCHELL RUTH MRS AT	R.L. Polk Co Publishers	Image pg. A79
	REA RALPH	R.L. Polk Co Publishers	Image pg. A79
	SIEGEL L F AT	R.L. Polk Co Publishers	Image pg. A79
	VACANT	R.L. Polk Co Publishers	Image pg. A79
	SULAK JOYCEANNE S AT	R.L. Polk Co Publishers	Image pg. A79
	RAYNOVICH GEO	R.L. Polk Co Publishers	Image pg. A79
	VACANT	R.L. Polk Co Publishers	Image pg. A79
	DORIS GERALD AT	R.L. Polk Co Publishers	Image pg. A79
	BOOTH EDNA M MRS	R.L. Polk Co Publishers	Image pg. A79
	MORGAN M KATH	R.L. Polk Co Publishers	Image pg. A79
	LONG MARY	R.L. Polk Co Publishers	Image pg. A79
	LILLARD MARY at	R.L. Polk Co Publishers	Image pg. A79
MC KEE DONALD	R.L. Polk Co Publishers	Image pg. A79	
LOWERY PATERANCE	R.L. Polk Co Publishers	Image pg. A79	
1966	DOBSON HAZEL	R.L. Polk Co Publishers	Image pg. A89
	AGENTS CHEM & ELECTRONIC EQUIP AT	R.L. Polk Co Publishers	Image pg. A90
	VACANT	R.L. Polk Co Publishers	Image pg. A90
	MEYERS AL H AT	R.L. Polk Co Publishers	Image pg. A90

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1966	MIGNON BENDELE	R.L. Polk Co Publishers	Image pg. A90
	DORIS GERALD AT	R.L. Polk Co Publishers	Image pg. A90
	EGAN STEVE AT	R.L. Polk Co Publishers	Image pg. A90
	LONG BERTHA MRS AT	R.L. Polk Co Publishers	Image pg. A90
	MANSFIELD SE SSEL	R.L. Polk Co Publishers	Image pg. A90
	ALLEN ROBERTA	R.L. Polk Co Publishers	Image pg. A90
	BUEHLER AURICE P AT	R.L. Polk Co Publishers	Image pg. A90
	SNELL GEO	R.L. Polk Co Publishers	Image pg. A90
	BROWN THELMA	R.L. Polk Co Publishers	Image pg. A89
	MITCHELL RUTH MRS AT	R.L. Polk Co Publishers	Image pg. A89
	COWARDIN EMMA MRS AT	R.L. Polk Co Publishers	Image pg. A89
	HUFF CLARENCE	R.L. Polk Co Publishers	Image pg. A89
	MERCER APARTMENTS	R.L. Polk Co Publishers	Image pg. A89
	BOYCE WM	R.L. Polk Co Publishers	Image pg. A89
	AUST DAN	R.L. Polk Co Publishers	Image pg. A89
	VACANT	R.L. Polk Co Publishers	Image pg. A89
	BROWNLOW JAMES	R.L. Polk Co Publishers	Image pg. A89
	PAYNE EDDY L	R.L. Polk Co Publishers	Image pg. A89
	SOFFAR CHARLES	R.L. Polk Co Publishers	Image pg. A89
	JORGENSEN HARRY L	R.L. Polk Co Publishers	Image pg. A89
	VACANT	R.L. Polk Co Publishers	Image pg. A89
	DURHAM MARGT	R.L. Polk Co Publishers	Image pg. A89
	MOHR EMILY	R.L. Polk Co Publishers	Image pg. A89
	BUBERNICK EDITH AT	R.L. Polk Co Publishers	Image pg. A89
	PRICE RAY W	R.L. Polk Co Publishers	Image pg. A89
	HANSVOLD EVA	R.L. Polk Co Publishers	Image pg. A89
	NO RETURN	R.L. Polk Co Publishers	Image pg. A89
	VACANT	R.L. Polk Co Publishers	Image pg. A89
	KAUFFMAN MILDRED L AT	R.L. Polk Co Publishers	Image pg. A89
	KEILEN JOHN	R.L. Polk Co Publishers	Image pg. A89
	HAOIGAN CHARLETTE AT	R.L. Polk Co Publishers	Image pg. A89
	RUSSELL MARGT	R.L. Polk Co Publishers	Image pg. A89
	GODDORIS LENA	R.L. Polk Co Publishers	Image pg. A89
	JACKSON DON AT	R.L. Polk Co Publishers	Image pg. A89
	EVANS CLAIRE C AT	R.L. Polk Co Publishers	Image pg. A89
	FINCH RICHD	R.L. Polk Co Publishers	Image pg. A89
	RAY FLORENCE V MRS AT	R.L. Polk Co Publishers	Image pg. A89
	BOLLZER ANN	R.L. Polk Co Publishers	Image pg. A89

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1966	CHENEY RALPH B AT	R.L. Polk Co Publishers	Image pg. A89
1951	Mxnine Apartmensts	R.L. Polk Co Publishers	Image pg. A145
	Armstrong I B Mrs GA	R.L. Polk Co Publishers	Image pg. A145
	Baker E R Mrs GA	R.L. Polk Co Publishers	Image pg. A145
	Botts Jack AL	R.L. Polk Co Publishers	Image pg. A145
	Black E J jr GA	R.L. Polk Co Publishers	Image pg. A145
	Blackburn H S GA 1 S	R.L. Polk Co Publishers	Image pg. A145
	Brown T 1 AL	R.L. Polk Co Publishers	Image pg. A145
	Cahill I P Mrs AL	R.L. Polk Co Publishers	Image pg. A145
	Cooke S B AL 1i	R.L. Polk Co Publishers	Image pg. A145
	I lowning N G Mrs AL	R.L. Polk Co Publishers	Image pg. A145
	De Young WXm GA	R.L. Polk Co Publishers	Image pg. A145
	Doyle Selma Mrs GA	R.L. Polk Co Publishers	Image pg. A145
	Edwards Mary E AL	R.L. Polk Co Publishers	Image pg. A145
	Evans J B AL	R.L. Polk Co Publishers	Image pg. A145
	Fox T C AL	R.L. Polk Co Publishers	Image pg. A145
	Faulkner A T AL	R.L. Polk Co Publishers	Image pg. A145
	Fish W D AL	R.L. Polk Co Publishers	Image pg. A145
	Gaukel M IC GA	R.L. Polk Co Publishers	Image pg. A145
	Gain Myrtle E	R.L. Polk Co Publishers	Image pg. A145
	Girmus I C GA	R.L. Polk Co Publishers	Image pg. A145
	Hoff V D AL	R.L. Polk Co Publishers	Image pg. A145
	Jennings Flem GA	R.L. Polk Co Publishers	Image pg. A145
	Jolvnston J H GA	R.L. Polk Co Publishers	Image pg. A145
	Jones Hichd AL	R.L. Polk Co Publishers	Image pg. A145
	Kiippen B H AL	R.L. Polk Co Publishers	Image pg. A145
	Lang Ernest AL	R.L. Polk Co Publishers	Image pg. A145
	Mc Vicker C A	R.L. Polk Co Publishers	Image pg. A145
	Mitchell R B AL	R.L. Polk Co Publishers	Image pg. A145
	Nelson H M AL	R.L. Polk Co Publishers	Image pg. A145
	Olsen E J AL	R.L. Polk Co Publishers	Image pg. A145
	Ovens H E AL	R.L. Polk Co Publishers	Image pg. A145
	Parker G 0 GA	R.L. Polk Co Publishers	Image pg. A145
	Itutten E R AL	R.L. Polk Co Publishers	Image pg. A145
	Sealey A E AL	R.L. Polk Co Publishers	Image pg. A145
	Urness N I AL	R.L. Polk Co Publishers	Image pg. A145
	Vaughan H M Mrs AL	R.L. Polk Co Publishers	Image pg. A145
	Winder W D	R.L. Polk Co Publishers	Image pg. A145

## FINDINGS

### MERCER St

#### 105 MERCER St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Gaukel Marvin K mgr	R. L. Polk & Co.	Image pg. A159
	Maxine Apartments	R. L. Polk & Co.	Image pg. A159

### MERCER ST

#### 107 MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Ice Dely Co sta	R.L. Polk Co Publishers	Image pg. A145

#### 109 MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1970	EDUC	R.L. Polk Co Publishers	Image pg. A79
	SEATTLE PUB SCH SPL	R.L. Polk Co Publishers	Image pg. A79

#### 112 MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1966	HANSEN BAKING CO INC SIDE ENTR AT	R.L. Polk Co Publishers	Image pg. A92
1951	Hansen Baking Co Inc side entr	R.L. Polk Co Publishers	Image pg. A145

### MERCER St

#### 112 MERCER St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Hansen Baking Co Inc whol	R. L. Polk & Co.	Image pg. A159

### MERCER ST

#### 113 MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1970	EDUC	R.L. Polk Co Publishers	Image pg. A79
	SEATTLE PUB SCH SPL	R.L. Polk Co Publishers	Image pg. A79

#### 115 MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Hughes M E AL	R.L. Polk Co Publishers	Image pg. A145

## FINDINGS

### 116 MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Erlk C Gasper	Cole Information Services	Image pg. A2

### MERCER ST W

### 2 MERCER ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	d a Wv intersects	R.L. Polk Co Publishers	Image pg. A146

### 8 MERCER ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Acneo Clnrs GA	R.L. Polk Co Publishers	Image pg. A146

### 10 MERCER ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Ber! t and Loti Barber Shop	R.L. Polk Co Publishers	Image pg. A146

### 15 MERCER ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Golden T F AL	R.L. Polk Co Publishers	Image pg. A146

### 17 MERCER ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Swantson L E	R.L. Polk Co Publishers	Image pg. A146
	Golden Swan Gift Shop	R.L. Polk Co Publishers	Image pg. A146

### 101 MERCER ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Orte 01 Onn Beverage Store	R.L. Polk Co Publishers	Image pg. A146
	Inc GA 896 S	R.L. Polk Co Publishers	Image pg. A146

### 102 MERCER ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	No return	R.L. Polk Co Publishers	Image pg. A146

### 105 MERCER ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	store GA	R.L. Polk Co Publishers	Image pg. A146
	State Liquor Control Etd	R.L. Polk Co Publishers	Image pg. A146

## FINDINGS

### 108 MERCER ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	SiutherInnd B E Mrs I	R.L. Polk Co Publishers	Image pg. A146

### 109 MERCER ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Vacant	R.L. Polk Co Publishers	Image pg. A146

### 114 MERCER ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Rosa V L GA	R.L. Polk Co Publishers	Image pg. A146

### 115 MERCER ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	t lonahan L S AL	R.L. Polk Co Publishers	Image pg. A146
	No return	R.L. Polk Co Publishers	Image pg. A146

### 117 MERCER ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Petersion XW	R.L. Polk Co Publishers	Image pg. A146

### 118 MERCER ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Anilersons Olympic Gro	R.L. Polk Co Publishers	Image pg. A146

### MEREER St

#### 105 MEREER St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1935	Helen E Mrs elk GFSCo h	R.L. Polk Co Publishers	
	SMITH Helen C wid Theo W h	R.L. Polk Co Publishers	

### MIERCER St

#### 105 MIERCER St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1935	KOCH Ruby elk WMSB r	R.L. Polk Co Publishers	

## FINDINGS

### **N 1ST AVE**

#### **524 N 1ST AVE**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>	
1996	SUPPLY	R.L. Polk Co. Publishers	Image pg. A16
	QUEEN ANNE OFFICE	R.L. Polk Co. Publishers	Image pg. A16
1990	Queen Anne Stationery & Office Supply	R.L. Polk Co. Publishers	Image pg. A26
1986	Queene Anne Stationery & Office Supply	R.L. Polk Co. Publishers	Image pg. A41
1980	Queene Anne Stationery & Office Supply	R.L. Polk Co. Publishers	Image pg. A54
1970	ANKER DATA SYS OFC	R.L. Polk Co Publishers	Image pg. A80

#### **526 N 1ST AVE**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>	
1996	GOLD & SILVER SHOP NO	R.L. Polk Co. Publishers	Image pg. A16
1990	Gold & Silver Shop Inc custom jwlrs	R.L. Polk Co. Publishers	Image pg. A26
1986	Gold & Silver Shop Inc custom jwlrs	R.L. Polk Co. Publishers	Image pg. A41
1980	Gold & Silver Shop The custom jw lrs	R.L. Polk Co. Publishers	Image pg. A54
1975	Copiers Unlimited	R.L. Polk Co. Publishers	Image pg. A69
	International Marketing Service exports	R.L. Polk Co. Publishers	Image pg. A69
	Bob & Mildred Public Stenographic Serv	R.L. Polk Co. Publishers	Image pg. A69
	Baker Richd W bookkeeping aerv	R.L. Polk Co. Publishers	Image pg. A69
1970	INTERNATIONAL MARKETING SERVICE EXPORTS AT	R.L. Polk Co Publishers	Image pg. A80
	BOB 6 MILDRED PUBLIC STENOGRAPHIC SERV AT	R.L. Polk Co Publishers	Image pg. A80
	BAKER RICHD W BOOKKEEPING SERV AT	R.L. Polk Co Publishers	Image pg. A80

#### **527 N 1ST AVE**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>	
1996	Bru le on T	R.L. Polk Co. Publishers	Image pg. A16
	Caner Brook J	R.L. Polk Co. Publishers	Image pg. A16
	Day Kathleen	R.L. Polk Co. Publishers	Image pg. A16
	Foreel W M	R.L. Polk Co. Publishers	Image pg. A16
	N 1ST AVE owtd	R.L. Polk Co. Publishers	Image pg. A16
	Addres Zip M 4 Carr Rte Phone	R.L. Polk Co. Publishers	Image pg. A16
	Hansen Clarence	R.L. Polk Co. Publishers	Image pg. A16
	Had Richard C	R.L. Polk Co. Publishers	Image pg. A16
	Kirby Mary	R.L. Polk Co. Publishers	Image pg. A16
	Kirby Rip	R.L. Polk Co. Publishers	Image pg. A16
	Marshall Thomas W Ruppel C 4826 C	R.L. Polk Co. Publishers	Image pg. A16

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	Slavers Jell	R.L. Polk Co. Publishers	Image pg. A16
	Icno Wayne	R.L. Polk Co. Publishers	Image pg. A16
	TZ kr Whyr 4525 C 014 2 B	R.L. Polk Co. Publishers	Image pg. A16
	Zamblo Ohlp	R.L. Polk Co. Publishers	Image pg. A16
1990	Gordon Apartments	R.L. Polk Co. Publishers	Image pg. A26
	Kirby Robt	R.L. Polk Co. Publishers	Image pg. A26
	Hafner Elsa S Mrs	R.L. Polk Co. Publishers	Image pg. A26
	Vacant	R.L. Polk Co. Publishers	Image pg. A26
	Vacant	R.L. Polk Co. Publishers	Image pg. A26
	Halper Larry	R.L. Polk Co. Publishers	Image pg. A26
	La Corte Joe	R.L. Polk Co. Publishers	Image pg. A26
	Vacant	R.L. Polk Co. Publishers	Image pg. A26
	Sinclair	R.L. Polk Co. Publishers	Image pg. A26
	Clarenas R	R.L. Polk Co. Publishers	Image pg. A26
	Hart Richd C	R.L. Polk Co. Publishers	Image pg. A26
	Bourdukofsky IVAN	R.L. Polk Co. Publishers	Image pg. A26
	Dumas Chas	R.L. Polk Co. Publishers	Image pg. A26
	Hansen Clarence L	R.L. Polk Co. Publishers	Image pg. A26
	Vacant	R.L. Polk Co. Publishers	Image pg. A26
	Ticknor Wayne	R.L. Polk Co. Publishers	Image pg. A26
	Palson Hugo	R.L. Polk Co. Publishers	Image pg. A26
	Dahlen Charles	R.L. Polk Co. Publishers	Image pg. A26
	Keat Annie	R.L. Polk Co. Publishers	Image pg. A26
	1986	Kirby Robt	R.L. Polk Co. Publishers
Hafner Richd H		R.L. Polk Co. Publishers	Image pg. A41
Adams M		R.L. Polk Co. Publishers	Image pg. A41
Shelton B		R.L. Polk Co. Publishers	Image pg. A41
Burke Jas J		R.L. Polk Co. Publishers	Image pg. A41
Hielmeland Ray		R.L. Polk Co. Publishers	Image pg. A41
Vacant		R.L. Polk Co. Publishers	Image pg. A41
Harfey Sharon		R.L. Polk Co. Publishers	Image pg. A41
Winston Ronald		R.L. Polk Co. Publishers	Image pg. A41
Vacant		R.L. Polk Co. Publishers	Image pg. A41
Bourdukofsky Ivan		R.L. Polk Co. Publishers	Image pg. A41
Dumas Chas		R.L. Polk Co. Publishers	Image pg. A41
Hansen Clarence L		R.L. Polk Co. Publishers	Image pg. A41
Mudd Betty H		R.L. Polk Co. Publishers	Image pg. A41
Ticknor Wayne		R.L. Polk Co. Publishers	Image pg. A41

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1986	Palson Hugo	R.L. Polk Co. Publishers	Image pg. A41
	Dahlen Charles	R.L. Polk Co. Publishers	Image pg. A41
	Keat Annie	R.L. Polk Co. Publishers	Image pg. A41
	Gordon Apartments	R.L. Polk Co. Publishers	Image pg. A41
1980	Gordon Apartments	R.L. Polk Co. Publishers	Image pg. A54
	Grekoﬀ Alex	R.L. Polk Co. Publishers	Image pg. A54
	Hafner Richd H	R.L. Polk Co. Publishers	Image pg. A54
	Kirby Rob	R.L. Polk Co. Publishers	Image pg. A54
	Thomas Wm H	R.L. Polk Co. Publishers	Image pg. A54
	Kephart Bernard	R.L. Polk Co. Publishers	Image pg. A54
	Ijnelnieland Raymond	R.L. Polk Co. Publishers	Image pg. A54
	Hope Edith D Mrs	R.L. Polk Co. Publishers	Image pg. A54
	Mc Anney Morres	R.L. Polk Co. Publishers	Image pg. A54
	Boyle Carl	R.L. Polk Co. Publishers	Image pg. A54
	Pederson Robt	R.L. Polk Co. Publishers	Image pg. A54
	Crossman Douglas	R.L. Polk Co. Publishers	Image pg. A54
	Brady Ben	R.L. Polk Co. Publishers	Image pg. A54
	Hansen Clarence L	R.L. Polk Co. Publishers	Image pg. A54
	Mudd Betty H	R.L. Polk Co. Publishers	Image pg. A54
	Howell Roy	R.L. Polk Co. Publishers	Image pg. A54
	Gartman David	R.L. Polk Co. Publishers	Image pg. A54
	Dahlen Charles	R.L. Polk Co. Publishers	Image pg. A54
	Keet Annie	R.L. Polk Co. Publishers	Image pg. A54
	STREET CONTINUED	R.L. Polk Co. Publishers	Image pg. A54
1975	Gordon Apartments	R.L. Polk Co. Publishers	Image pg. A69
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	Heckner Clarence M	R.L. Polk Co. Publishers	Image pg. A69
	Thomas Wm H	R.L. Polk Co. Publishers	Image pg. A69
	Compton E M AT	R.L. Polk Co. Publishers	Image pg. A69
	Hjelmeland Raymond	R.L. Polk Co. Publishers	Image pg. A69
	Hope Edith D Mrs	R.L. Polk Co. Publishers	Image pg. A69
	Cook Jean	R.L. Polk Co. Publishers	Image pg. A69
	Bunnell M J	R.L. Polk Co. Publishers	Image pg. A69
	Pedersen Robt	R.L. Polk Co. Publishers	Image pg. A69
	Lytie Ila W	R.L. Polk Co. Publishers	Image pg. A69
	Brown Mary A Mrs	R.L. Polk Co. Publishers	Image pg. A69
Hansen Clarence L	R.L. Polk Co. Publishers	Image pg. A69	

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	Fox Brenda	R.L. Polk Co. Publishers	Image pg. A69
	Vacant	R.L. Polk Co. Publishers	Image pg. A69
	Dalton Dorothy	R.L. Polk Co. Publishers	Image pg. A69
	Crampton John J	R.L. Polk Co. Publishers	Image pg. A69
1970	BROWN MARY A MRS AT	R.L. Polk Co Publishers	Image pg. A80
	HANSEN CLARENCE L AT	R.L. Polk Co Publishers	Image pg. A80
	MUDD BETTIE H AT	R.L. Polk Co Publishers	Image pg. A80
	GROTTING MILDRED	R.L. Polk Co Publishers	Image pg. A80
	PECK GEO	R.L. Polk Co Publishers	Image pg. A80
	DAVENPORT MAYME O MRS AT	R.L. Polk Co Publishers	Image pg. A80
	CRAMPTON JOHN J	R.L. Polk Co Publishers	Image pg. A80
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	FRANKLIN LINOSEY	R.L. Polk Co Publishers	Image pg. A80
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	ECKNER CLARENCE M	R.L. Polk Co Publishers	Image pg. A80
	AT 4 S	R.L. Polk Co Publishers	Image pg. A80
	THOMAS WM H	R.L. Polk Co Publishers	Image pg. A80
	MORGAN LEONARD	R.L. Polk Co Publishers	Image pg. A80
	WICKER MERLE AT	R.L. Polk Co Publishers	Image pg. A80
	HOPE EDITH D MRS	R.L. Polk Co Publishers	Image pg. A80
CAVIES MARGT	R.L. Polk Co Publishers	Image pg. A80	
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FOX RAYMOND	R.L. Polk Co Publishers	Image pg. A80	
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1996	GIFT SHOP	R.L. Polk Co. Publishers	Image pg. A16
	QUEEN ANNE CARD	R.L. Polk Co. Publishers	Image pg. A16
1990	Queen Anne Card & Gift Shop	R.L. Polk Co. Publishers	Image pg. A26
1986	Queen Anne Card & Gift Shop	R.L. Polk Co. Publishers	Image pg. A41
1980	Queen Anne Card & Gift Shop	R.L. Polk Co. Publishers	Image pg. A54
1970	QUEEN ANNE STATIONERY S OFFICE SUPPLY AT	R.L. Polk Co Publishers	Image pg. A80

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1970	CHIPS DELICATESSEN	R.L. Polk Co Publishers	Image pg. A80

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1996	GREAT CLIPS FOR HAIR	R.L. Polk Co. Publishers	Image pg. A16

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1996	TUDO LOCO	R.L. Polk Co. Publishers	Image pg. A16

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1996	PIZZERIA PAGUACCI	R.L. Polk Co. Publishers	Image pg. A13

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1996	CINEMA EXPRESSO	R.L. Polk Co. Publishers	Image pg. A13
	Be 03 n Waller C	R.L. Polk Co. Publishers	Image pg. A13
	Bauer John	R.L. Polk Co. Publishers	Image pg. A13
	Back Anne Bell T ruald 401 C	R.L. Polk Co. Publishers	Image pg. A13
	Bitting Sarah	R.L. Polk Co. Publishers	Image pg. A13
	Burke Alana S	R.L. Polk Co. Publishers	Image pg. A13
	Clemact Kather Ine	R.L. Polk Co. Publishers	Image pg. A13
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	Colony Jill	R.L. Polk Co. Publishers	Image pg. A13
	Crane Thomas Dacis K J I	R.L. Polk Co. Publishers	Image pg. A13
	Device	R.L. Polk Co. Publishers	Image pg. A13
	Easter Virgin Ia	R.L. Polk Co. Publishers	Image pg. A13
	Eisl Derek	R.L. Polk Co. Publishers	Image pg. A13
	Erikso n I	R.L. Polk Co. Publishers	Image pg. A13
	Green Todd	R.L. Polk Co. Publishers	Image pg. A13
	Greene Todd M Hanger Grog 4011 COd	R.L. Polk Co. Publishers	Image pg. A13
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	He rmns Corey	R.L. Polk Co. Publishers	Image pg. A13
	Henry Jamb	R.L. Polk Co. Publishers	Image pg. A13
	Jeanes Melissa	R.L. Polk Co. Publishers	Image pg. A13

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	Kelamer T A	R.L. Polk Co. Publishers	Image pg. A13
	Kaumas Pa	R.L. Polk Co. Publishers	Image pg. A13
	Kasan Jeremy d OI	R.L. Polk Co. Publishers	Image pg. A13
	Kemp L A	R.L. Polk Co. Publishers	Image pg. A13
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	Lim Francis P Lint Whliam 401 6 C	R.L. Polk Co. Publishers	Image pg. A13
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	M Leod Lisa	R.L. Polk Co. Publishers	Image pg. A13
	Odom Deans M	R.L. Polk Co. Publishers	Image pg. A13
	Pros Jim	R.L. Polk Co. Publishers	Image pg. A13
	Pryor S 4011 C	R.L. Polk Co. Publishers	Image pg. A13
	Rasmusson DL	R.L. Polk Co. Publishers	Image pg. A13
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	Richter Tracy	R.L. Polk Co. Publishers	Image pg. A13
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	Ryan Davi d d Oll:	R.L. Polk Co. Publishers	Image pg. A13
	Sane D D	R.L. Polk Co. Publishers	Image pg. A13
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	Traunr James	R.L. Polk Co. Publishers	Image pg. A13
	Vehdani Farsez Wiekcirs Linde I	R.L. Polk Co. Publishers	Image pg. A13
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	WAght Greg	R.L. Polk Co. Publishers	Image pg. A13
Y o L	R.L. Polk Co. Publishers	Image pg. A13	
1990	Hecker D	R.L. Polk Co. Publishers	Image pg. A24
	Scribner J	R.L. Polk Co. Publishers	Image pg. A24
	Baxter Leroy	R.L. Polk Co. Publishers	Image pg. A24
	Woodward L	R.L. Polk Co. Publishers	Image pg. A24
	Baker Jacque Une	R.L. Polk Co. Publishers	Image pg. A24

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1990	Copley A G	R.L. Polk Co. Publishers	Image pg. A24
	Fraioli Laura	R.L. Polk Co. Publishers	Image pg. A24
	Mosley Desree L	R.L. Polk Co. Publishers	Image pg. A24
	Moon C C	R.L. Polk Co. Publishers	Image pg. A24
	Mayse V	R.L. Polk Co. Publishers	Image pg. A24
	Sleeth W	R.L. Polk Co. Publishers	Image pg. A24
	Stewart John	R.L. Polk Co. Publishers	Image pg. A24
	Sena Delia D	R.L. Polk Co. Publishers	Image pg. A24
	Kimball Justine	R.L. Polk Co. Publishers	Image pg. A24
	Lucas S	R.L. Polk Co. Publishers	Image pg. A24
	Eggleston John	R.L. Polk Co. Publishers	Image pg. A24
	Murray Patric	R.L. Polk Co. Publishers	Image pg. A24
	Morix D	R.L. Polk Co. Publishers	Image pg. A24
	Lupinacci Ronald	R.L. Polk Co. Publishers	Image pg. A24
	Adane Rett	R.L. Polk Co. Publishers	Image pg. A24
	Toledo Alfred	R.L. Polk Co. Publishers	Image pg. A24
	Marqueen Apartments	R.L. Polk Co. Publishers	Image pg. A27
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	Hale V	R.L. Polk Co. Publishers	Image pg. A27
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	Jorgensen Hazel Mrs	R.L. Polk Co. Publishers	Image pg. A24
	Gaeddert Marth	R.L. Polk Co. Publishers	Image pg. A24
	No Return	R.L. Polk Co. Publishers	Image pg. A24
	Linden V	R.L. Polk Co. Publishers	Image pg. A24
	Hixon Tom	R.L. Polk Co. Publishers	Image pg. A24
	Otake N	R.L. Polk Co. Publishers	Image pg. A24
	Robbins A M	R.L. Polk Co. Publishers	Image pg. A24
	Pence Pat	R.L. Polk Co. Publishers	Image pg. A24
	Jacobsen Jeff	R.L. Polk Co. Publishers	Image pg. A24
	No Return	R.L. Polk Co. Publishers	Image pg. A24
	Hanan Jack	R.L. Polk Co. Publishers	Image pg. A24
	Vo M	R.L. Polk Co. Publishers	Image pg. A24
	Farley Larry G	R.L. Polk Co. Publishers	Image pg. A24
	Sorels gourmet food shop	R.L. Polk Co. Publishers	Image pg. A24
	Matkin Eug C	R.L. Polk Co. Publishers	Image pg. A24
	No Return	R.L. Polk Co. Publishers	Image pg. A24
	Antonsen B	R.L. Polk Co. Publishers	Image pg. A24
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	Dragone D	R.L. Polk Co. Publishers	Image pg. A24
	Cohen Rhe	R.L. Polk Co. Publishers	Image pg. A24
	Taylor S	R.L. Polk Co. Publishers	Image pg. A24
	Hood Renee	R.L. Polk Co. Publishers	Image pg. A24
	Putison August	R.L. Polk Co. Publishers	Image pg. A24
	Taylor Charles E	R.L. Polk Co. Publishers	Image pg. A24
	Newstead	R.L. Polk Co. Publishers	Image pg. A24
	Callege Maria M	R.L. Polk Co. Publishers	Image pg. A24
	Ferguson F	R.L. Polk Co. Publishers	Image pg. A24
	Rowe C	R.L. Polk Co. Publishers	Image pg. A24
	Allman John	R.L. Polk Co. Publishers	Image pg. A24
	Mulhem Patricia M	R.L. Polk Co. Publishers	Image pg. A24
	Brunner	R.L. Polk Co. Publishers	Image pg. A24
	Flarillo John	R.L. Polk Co. Publishers	Image pg. A24
	Hewitson Dorothy	R.L. Polk Co. Publishers	Image pg. A24
	Shapley B	R.L. Polk Co. Publishers	Image pg. A24
	Vacant	R.L. Polk Co. Publishers	Image pg. A24
	Morales Armand L	R.L. Polk Co. Publishers	Image pg. A24
	Flath D	R.L. Polk Co. Publishers	Image pg. A24
	Robison Michi	R.L. Polk Co. Publishers	Image pg. A24
	Smidt C M	R.L. Polk Co. Publishers	Image pg. A24
	Grundberg J M	R.L. Polk Co. Publishers	Image pg. A24
	Thomas P	R.L. Polk Co. Publishers	Image pg. A24
Mc Fadden Andrew	R.L. Polk Co. Publishers	Image pg. A24	
Hanson J	R.L. Polk Co. Publishers	Image pg. A24	
1986	Marqueen Apartments	R.L. Polk Co. Publishers	Image pg. A38
	Marqueen Apartments Ofc	R.L. Polk Co. Publishers	Image pg. A38
	Moquin Ella W	R.L. Polk Co. Publishers	Image pg. A38
	Hewes Janis	R.L. Polk Co. Publishers	Image pg. A38
	Cheatham Stan	R.L. Polk Co. Publishers	Image pg. A38
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	Vacant	R.L. Polk Co. Publishers	Image pg. A38
	Hixon A	R.L. Polk Co. Publishers	Image pg. A38
	Cicha Robt	R.L. Polk Co. Publishers	Image pg. A38
	Plantz	R.L. Polk Co. Publishers	Image pg. A38
	Sheckis Polly S	R.L. Polk Co. Publishers	Image pg. A38
	Melzer Norma	R.L. Polk Co. Publishers	Image pg. A38

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1986	Wheeler David	R.L. Polk Co. Publishers	Image pg. A38
	Hanan Jack	R.L. Polk Co. Publishers	Image pg. A38
	Leath J	R.L. Polk Co. Publishers	Image pg. A38
	House Garry	R.L. Polk Co. Publishers	Image pg. A38
	Sorels gourmet fd shop	R.L. Polk Co. Publishers	Image pg. A38
	Matkin Eug C	R.L. Polk Co. Publishers	Image pg. A38
	Walker Ted	R.L. Polk Co. Publishers	Image pg. A38
	Antonsen B	R.L. Polk Co. Publishers	Image pg. A38
	Nelson N	R.L. Polk Co. Publishers	Image pg. A38
	Lipthrott C	R.L. Polk Co. Publishers	Image pg. A38
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	Cohen Rhe	R.L. Polk Co. Publishers	Image pg. A38
	Brown Bill	R.L. Polk Co. Publishers	Image pg. A38
	Rittenhouse	R.L. Polk Co. Publishers	Image pg. A38
	Putison August	R.L. Polk Co. Publishers	Image pg. A38
	Taylor Charles E	R.L. Polk Co. Publishers	Image pg. A38
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	Wagner Robt	R.L. Polk Co. Publishers	Image pg. A38
	Ferguson F	R.L. Polk Co. Publishers	Image pg. A38
	Rowe C	R.L. Polk Co. Publishers	Image pg. A38
	Roberts C	R.L. Polk Co. Publishers	Image pg. A38
	Mulhern Patricia M	R.L. Polk Co. Publishers	Image pg. A38
	Shumate Kimberly	R.L. Polk Co. Publishers	Image pg. A38
	Thompson Wilma A	R.L. Polk Co. Publishers	Image pg. A38
	Hewitson Dorothy	R.L. Polk Co. Publishers	Image pg. A38
	Darmody Thos M	R.L. Polk Co. Publishers	Image pg. A38
	Benson David	R.L. Polk Co. Publishers	Image pg. A38
	Hayes Mark	R.L. Polk Co. Publishers	Image pg. A38
	Dean J	R.L. Polk Co. Publishers	Image pg. A38
	Toller T	R.L. Polk Co. Publishers	Image pg. A38
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	Wissmar Keith E	R.L. Polk Co. Publishers	Image pg. A38
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	Byrne	R.L. Polk Co. Publishers	Image pg. A38
	Smith	R.L. Polk Co. Publishers	Image pg. A38
	Sena Delia D	R.L. Polk Co. Publishers	Image pg. A38
	Morris John L	R.L. Polk Co. Publishers	Image pg. A38
	Bell P	R.L. Polk Co. Publishers	Image pg. A38
	Redlinger Susan L	R.L. Polk Co. Publishers	Image pg. A38
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	Redfield B	R.L. Polk Co. Publishers	Image pg. A38
	Lupinacci Ronald	R.L. Polk Co. Publishers	Image pg. A38
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	Brown David	R.L. Polk Co. Publishers	Image pg. A38
	Stanton Laddie Jr	R.L. Polk Co. Publishers	Image pg. A38
	Williams	R.L. Polk Co. Publishers	Image pg. A38
	Scribner	R.L. Polk Co. Publishers	Image pg. A38
	Baxter Leroy	R.L. Polk Co. Publishers	Image pg. A38
	Woodward	R.L. Polk Co. Publishers	Image pg. A38
Elmasian Richd	R.L. Polk Co. Publishers	Image pg. A38	
1980	Marqueen Apartments	R.L. Polk Co. Publishers	Image pg. A50
	Vacant	R.L. Polk Co. Publishers	Image pg. A50
	Moquin Ella W	R.L. Polk Co. Publishers	Image pg. A50
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	Mc Millan Marian E Mrs	R.L. Polk Co. Publishers	Image pg. A50
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	Vacant	R.L. Polk Co. Publishers	Image pg. A50
	Ross J M	R.L. Polk Co. Publishers	Image pg. A50
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	Robinson	R.L. Polk Co. Publishers	Image pg. A50
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	Trudels Beauty Salon	R.L. Polk Co. Publishers	Image pg. A50
Matkin Eug C	R.L. Polk Co. Publishers	Image pg. A50	
Walters Kath M	R.L. Polk Co. Publishers	Image pg. A50	
Ladwig Bruce	R.L. Polk Co. Publishers	Image pg. A50	

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1980	Leonard Tom E	R.L. Polk Co. Publishers	Image pg. A50
	Johnston Eloise D Mrs	R.L. Polk Co. Publishers	Image pg. A50
	Jacobson Mary	R.L. Polk Co. Publishers	Image pg. A50
	Cohen Rhe	R.L. Polk Co. Publishers	Image pg. A50
1975	Boui dau Leo J	R.L. Polk Co. Publishers	Image pg. A70
	Alexander Claudia	R.L. Polk Co. Publishers	Image pg. A70
	:118 Paine Frances C Mrsi 284 a 62 I	R.L. Polk Co. Publishers	Image pg. A70
	Winfileld Dorothy J	R.L. Polk Co. Publishers	Image pg. A66
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	Noe Alberta Mrs	R.L. Polk Co. Publishers	Image pg. A66
	La Roy Eileen V Mrs	R.L. Polk Co. Publishers	Image pg. A66
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	Thompson Julia D Mrs	R.L. Polk Co. Publishers	Image pg. A66
	Vacant	R.L. Polk Co. Publishers	Image pg. A66
	Crowley Francis H	R.L. Polk Co. Publishers	Image pg. A66
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	Mac Donald J M	R.L. Polk Co. Publishers	Image pg. A66
	Rich L	R.L. Polk Co. Publishers	Image pg. A66
	Zuttle Cheryl L	R.L. Polk Co. Publishers	Image pg. A66
	Woodward Ruth F	R.L. Polk Co. Publishers	Image pg. A66
	Vacant	R.L. Polk Co. Publishers	Image pg. A66
	Churchill Sammy	R.L. Polk Co. Publishers	Image pg. A66
	Marqueen Apartments	R.L. Polk Co. Publishers	Image pg. A70
	Stewart Allen M	R.L. Polk Co. Publishers	Image pg. A70
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	Hazelton Charles	R.L. Polk Co. Publishers	Image pg. A70
La Byer David	R.L. Polk Co. Publishers	Image pg. A70	
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	Wall Cath	R.L. Polk Co. Publishers	Image pg. A70
	Cackette Jean Mrs	R.L. Polk Co. Publishers	Image pg. A70
	White Wm	R.L. Polk Co. Publishers	Image pg. A70
	Gilbert Eli	R.L. Polk Co. Publishers	Image pg. A70
	Johnston Eloise D Mrs	R.L. Polk Co. Publishers	Image pg. A70
	Campbell Kathryn Mrs	R.L. Polk Co. Publishers	Image pg. A70
	Cohen Rhe	R.L. Polk Co. Publishers	Image pg. A70
	Barry Frank P	R.L. Polk Co. Publishers	Image pg. A70
	Lindmark Susan	R.L. Polk Co. Publishers	Image pg. A70
	Scott Grace	R.L. Polk Co. Publishers	Image pg. A70
	Nichols Auverne Mrs	R.L. Polk Co. Publishers	Image pg. A70
	Mackey Helen H	R.L. Polk Co. Publishers	Image pg. A70
	Peterson L	R.L. Polk Co. Publishers	Image pg. A70
	Taylor J J	R.L. Polk Co. Publishers	Image pg. A70
	Mc Cabe N Lorene	R.L. Polk Co. Publishers	Image pg. A70
	Comes G	R.L. Polk Co. Publishers	Image pg. A70
	Mulhern Patricia M	R.L. Polk Co. Publishers	Image pg. A70
	Vacant	R.L. Polk Co. Publishers	Image pg. A70
	Glantz Conrad	R.L. Polk Co. Publishers	Image pg. A70
	Tierney Wm D	R.L. Polk Co. Publishers	Image pg. A70
	Williams Elsie M	R.L. Polk Co. Publishers	Image pg. A70
	Mace Louise	R.L. Polk Co. Publishers	Image pg. A70
	Vacant	R.L. Polk Co. Publishers	Image pg. A70
	Thaut Thos	R.L. Polk Co. Publishers	Image pg. A70
	Rohlf Elinor	R.L. Polk Co. Publishers	Image pg. A70
	Corrigan E J	R.L. Polk Co. Publishers	Image pg. A70
	Welch Marie J Mrs	R.L. Polk Co. Publishers	Image pg. A70
	Whittle M J	R.L. Polk Co. Publishers	Image pg. A70
	Graham Edna E Mrs	R.L. Polk Co. Publishers	Image pg. A70
Morrison Elsie	R.L. Polk Co. Publishers	Image pg. A70	
Everett W	R.L. Polk Co. Publishers	Image pg. A70	
Smith Paul	R.L. Polk Co. Publishers	Image pg. A70	
.t 05 Na Return	R.L. Polk Co. Publishers	Image pg. A70	
1970	MARQUEEN APARTMENTS AT	R.L. Polk Co Publishers	Image pg. A78
	STEWART ALLEN AT	R.L. Polk Co Publishers	Image pg. A78
	MARQUEEN APTS OFC	R.L. Polk Co Publishers	Image pg. A78
	OLSEN RUTH G MRS AT	R.L. Polk Co Publishers	Image pg. A78

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1970	CORNELIUS CORA	R.L. Polk Co Publishers	Image pg. A78
	EWING BERWYN L AT	R.L. Polk Co Publishers	Image pg. A78
	MC MILLAN MARIAN MRS AT	R.L. Polk Co Publishers	Image pg. A78
	LAWTON LESTER M AT	R.L. Polk Co Publishers	Image pg. A78
	BAKER CHARLES MRS AT	R.L. Polk Co Publishers	Image pg. A78
	STEWART JEANNETT R MRS AT	R.L. Polk Co Publishers	Image pg. A78
	HUARD IVY MRS	R.L. Polk Co Publishers	Image pg. A78
	BROZZO EARL AT	R.L. Polk Co Publishers	Image pg. A78
	JENSEN C K	R.L. Polk Co Publishers	Image pg. A78
	IZAN NATHAN AT 3 S	R.L. Polk Co Publishers	Image pg. A78
	LINDMARK S I AT	R.L. Polk Co Publishers	Image pg. A78
	OKANE HELEN MRS AT	R.L. Polk Co Publishers	Image pg. A78
	BISHOP BEAUTY SALON AT	R.L. Polk Co Publishers	Image pg. A78
	JENSEN VIVIAN MRS	R.L. Polk Co Publishers	Image pg. A78
	NYBRO HELEN A MRS AT	R.L. Polk Co Publishers	Image pg. A78
	REEVES PATRICIA P AT	R.L. Polk Co Publishers	Image pg. A78
	GILBERT ELENORA	R.L. Polk Co Publishers	Image pg. A78
	JOHNSTON ELOISE D MRS AT	R.L. Polk Co Publishers	Image pg. A78
	BROWN TERESA V MRS AT	R.L. Polk Co Publishers	Image pg. A78
	COHEN RHEat	R.L. Polk Co Publishers	Image pg. A78
	MC AVOY FAY J	R.L. Polk Co Publishers	Image pg. A78
	THOMPSON JULIA D AT	R.L. Polk Co Publishers	Image pg. A78
	MOIR LUCILLE I MRS AT	R.L. Polk Co Publishers	Image pg. A78
	MORGAN MARIE	R.L. Polk Co Publishers	Image pg. A78
	WHITE WM AT	R.L. Polk Co Publishers	Image pg. A78
	MC GUERN OPAL MRS AT	R.L. Polk Co Publishers	Image pg. A78
	WELDER DANA	R.L. Polk Co Publishers	Image pg. A78
	MC CABE N LORENE AT	R.L. Polk Co Publishers	Image pg. A78
	NO RETURN	R.L. Polk Co Publishers	Image pg. A78
	MULHERN PATRICIA M	R.L. Polk Co Publishers	Image pg. A78
	WEAVER SHEILA S	R.L. Polk Co Publishers	Image pg. A78
	GLANTZ CONRAD AT	R.L. Polk Co Publishers	Image pg. A78
	TIERNEY WM D	R.L. Polk Co Publishers	Image pg. A78
	WILLIAMS ELSIE M AT	R.L. Polk Co Publishers	Image pg. A78
	FENTON MARY W MRS	R.L. Polk Co Publishers	Image pg. A78
	CROSS VERat	R.L. Polk Co Publishers	Image pg. A78
	ORNS GERTRUDE	R.L. Polk Co Publishers	Image pg. A78
	MACE N LOUISE AT	R.L. Polk Co Publishers	Image pg. A78

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1970	MAC KINSKY GLADYS	R.L. Polk Co Publishers	Image pg. A78
	WELCH MARIE J AT	R.L. Polk Co Publishers	Image pg. A78
	GRAHAM EDNA E MRS AT	R.L. Polk Co Publishers	Image pg. A78
	MORRISON ELSIE AT	R.L. Polk Co Publishers	Image pg. A78
	LE ROY EILEEN V AT	R.L. Polk Co Publishers	Image pg. A78
	CAMPBELL KATHRYN AT	R.L. Polk Co Publishers	Image pg. A78
	SQUIRE THOS H	R.L. Polk Co Publishers	Image pg. A78
	PETERSON AMANDA MRS AT	R.L. Polk Co Publishers	Image pg. A78
	MURRAY CLINTON	R.L. Polk Co Publishers	Image pg. A78
	FULLER DENTON AT	R.L. Polk Co Publishers	Image pg. A78
	WRIGHT ELIZ L AT	R.L. Polk Co Publishers	Image pg. A78
	DONAHUE NETTIE	R.L. Polk Co Publishers	Image pg. A78
	OHARA EVELYN R	R.L. Polk Co Publishers	Image pg. A78
	LYON VERONA M MRS	R.L. Polk Co Publishers	Image pg. A78
	DILBECK ETHEL AT	R.L. Polk Co Publishers	Image pg. A78
	LAVOLD INGE	R.L. Polk Co Publishers	Image pg. A78
	GARCIA DIANat	R.L. Polk Co Publishers	Image pg. A78
	NESTER ERNEST	R.L. Polk Co Publishers	Image pg. A78
	BUHLER BERTHA M MRS AT	R.L. Polk Co Publishers	Image pg. A78
	VACANT	R.L. Polk Co Publishers	Image pg. A78
	NOE ALBERTA MRS AT	R.L. Polk Co Publishers	Image pg. A78
	FERAGEN MARIAN L AT	R.L. Polk Co Publishers	Image pg. A78
	SPENCER FLOELLE MRS AT	R.L. Polk Co Publishers	Image pg. A78
	NO RETURN	R.L. Polk Co Publishers	Image pg. A78
	VACANT	R.L. Polk Co Publishers	Image pg. A78
	1966	WHITE WM AT	R.L. Polk Co Publishers
MC GUERN WALTER W AT		R.L. Polk Co Publishers	Image pg. A88
AHERN FRANK J AT		R.L. Polk Co Publishers	Image pg. A88
MC CASE N LORENE AT		R.L. Polk Co Publishers	Image pg. A88
FAGERHORAN RODERICK A AT		R.L. Polk Co Publishers	Image pg. A88
MULHEARN PATRICIA M		R.L. Polk Co Publishers	Image pg. A88
MEHLUM ORLIE		R.L. Polk Co Publishers	Image pg. A88
GLANTZ CONRAD AT		R.L. Polk Co Publishers	Image pg. A88
MC BRIDE LYDIA J AT		R.L. Polk Co Publishers	Image pg. A88
SAHOL RUTH E		R.L. Polk Co Publishers	Image pg. A88
FENTON MARY W MRS		R.L. Polk Co Publishers	Image pg. A88
CROSS VERat		R.L. Polk Co Publishers	Image pg. A88
OHAN JAMES AT	R.L. Polk Co Publishers	Image pg. A88	

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1966	MILES FONIE	R.L. Polk Co Publishers	Image pg. A88
	SOPWITH ALICE MRS AT	R.L. Polk Co Publishers	Image pg. A88
	RUDE HELEN AT	R.L. Polk Co Publishers	Image pg. A88
	NIELSEN PATRICIA J A T	R.L. Polk Co Publishers	Image pg. A88
	GRAHAM EDNA E MRS A T	R.L. Polk Co Publishers	Image pg. A88
	MC KAY MARTHA MRS AT	R.L. Polk Co Publishers	Image pg. A88
	NETZER ERNEST F	R.L. Polk Co Publishers	Image pg. A88
	ABBOTT ANN E MRS	R.L. Polk Co Publishers	Image pg. A88
	MC NEW MINNIE MRS AT	R.L. Polk Co Publishers	Image pg. A88
	PETERSON AMANDA MRS AT	R.L. Polk Co Publishers	Image pg. A88
	MURRAY CLINTON	R.L. Polk Co Publishers	Image pg. A88
	MUTHIARN RENA D	R.L. Polk Co Publishers	Image pg. A88
	REA JOSEPH D AT	R.L. Polk Co Publishers	Image pg. A88
	WILSON VERNA MRS AT	R.L. Polk Co Publishers	Image pg. A88
	NOE ALBERTA MRS	R.L. Polk Co Publishers	Image pg. A88
	CLEASBY JOYCE E AT	R.L. Polk Co Publishers	Image pg. A88
	SPENCER FLOELLE AT	R.L. Polk Co Publishers	Image pg. A88
	THOMPSON JULIA D AT	R.L. Polk Co Publishers	Image pg. A88
	GRESHAM THOS D AT	R.L. Polk Co Publishers	Image pg. A88
	SLENES AASLANG B	R.L. Polk Co Publishers	Image pg. A88
	OHARA EVELYN R MRS	R.L. Polk Co Publishers	Image pg. A88
	CHIPMAN BEATRICE MRS AT	R.L. Polk Co Publishers	Image pg. A88
	PAULL PHILLIPS S AT	R.L. Polk Co Publishers	Image pg. A88
	LAVOLD INGE	R.L. Polk Co Publishers	Image pg. A88
	KEESEE JANE	R.L. Polk Co Publishers	Image pg. A88
	VACANT	R.L. Polk Co Publishers	Image pg. A88
	BUHLER BERTHA M MRS AT	R.L. Polk Co Publishers	Image pg. A88
	MARQUEEN APARTMENTS AT	R.L. Polk Co Publishers	Image pg. A88
	RAMBO H D	R.L. Polk Co Publishers	Image pg. A88
	SUMMERS HAZEL MRS MRS A T	R.L. Polk Co Publishers	Image pg. A88
	LYNCH ADA MRS AT	R.L. Polk Co Publishers	Image pg. A88
	CORNELIUS CORA	R.L. Polk Co Publishers	Image pg. A88
	HOLLAND MARY AT	R.L. Polk Co Publishers	Image pg. A88
	KALLAND MANFRED I DENTIST AT	R.L. Polk Co Publishers	Image pg. A88
	SURBER MARIE MRS AT	R.L. Polk Co Publishers	Image pg. A88
	MILLAS ANN MRS	R.L. Polk Co Publishers	Image pg. A88
	CAMPBELL GEO C	R.L. Polk Co Publishers	Image pg. A88
	MC KISSACK LILY	R.L. Polk Co Publishers	Image pg. A88

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1966	STEWART JEANNETT R MRS A T	R.L. Polk Co Publishers	Image pg. A88
	HUARD IVY MRS	R.L. Polk Co Publishers	Image pg. A88
	TIERNEY THOS E	R.L. Polk Co Publishers	Image pg. A88
	VACANT	R.L. Polk Co Publishers	Image pg. A88
	WOODWARD S ARLO AT	R.L. Polk Co Publishers	Image pg. A88
	VACANT	R.L. Polk Co Publishers	Image pg. A88
	OKANE HELEN MRS AT	R.L. Polk Co Publishers	Image pg. A88
	BISHOP BEAUTY SALON AT	R.L. Polk Co Publishers	Image pg. A88
	BISHOP GERTRUDE H AT	R.L. Polk Co Publishers	Image pg. A88
	NORDSTROM KURT AT	R.L. Polk Co Publishers	Image pg. A88
	BASSETT C JANE AT	R.L. Polk Co Publishers	Image pg. A88
	POPLACK IDA MRS AT	R.L. Polk Co Publishers	Image pg. A88
	BAUERMEISTER CLARIS MRS AT	R.L. Polk Co Publishers	Image pg. A88
	JOHNSTON MARION M A T	R.L. Polk Co Publishers	Image pg. A88
	MOORE LORETTA E MRS	R.L. Polk Co Publishers	Image pg. A88
	COHEN RHEat	R.L. Polk Co Publishers	Image pg. A88
	ALLEN MYRTLE MRS AT	R.L. Polk Co Publishers	Image pg. A88
	KEHL MARGUERITE L A T	R.L. Polk Co Publishers	Image pg. A88
	RHODES FRANCES MRS MRS	R.L. Polk Co Publishers	Image pg. A88
	JOHNSON MABEL E AT	R.L. Polk Co Publishers	Image pg. A88

### 601 N QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	CHOYS CHINESE CUISINE	R.L. Polk Co. Publishers	Image pg. A13
1990	Vacant	R.L. Polk Co. Publishers	Image pg. A24
1986	Frame Depot	R.L. Polk Co. Publishers	Image pg. A38
1980	Pryd N Joy childrens c lo	R.L. Polk Co. Publishers	Image pg. A50
1975	Pryde N Joy childrens do	R.L. Polk Co. Publishers	Image pg. A66
1970	PRICE LESS STORES DRUGS AT	R.L. Polk Co Publishers	Image pg. A78
1966	PRICE LESS STORES DRUGS AT	R.L. Polk Co Publishers	Image pg. A88

### 602 N QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1986	Looney Parrell	R.L. Polk Co. Publishers	Image pg. A42
	Aumann D	R.L. Polk Co. Publishers	Image pg. A42
	Vacant	R.L. Polk Co. Publishers	Image pg. A42
	Toikka Ireane	R.L. Polk Co. Publishers	Image pg. A42
	Kendle Gladys	R.L. Polk Co. Publishers	Image pg. A42
	Karl	R.L. Polk Co. Publishers	Image pg. A42

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1986	Heflin Edw M	R.L. Polk Co. Publishers	Image pg. A42
	La Grue M K	R.L. Polk Co. Publishers	Image pg. A42
	Cowan Kathleen M Mrs	R.L. Polk Co. Publishers	Image pg. A42
	Brew Gladis U	R.L. Polk Co. Publishers	Image pg. A42
	Vacant	R.L. Polk Co. Publishers	Image pg. A42
	Dailidenas On	R.L. Polk Co. Publishers	Image pg. A42

### 603 N QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	0 A CLEANERS	R.L. Polk Co. Publishers	Image pg. A13

### 605 N QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	VINCES ITALIAN RESTAURANT	R.L. Polk Co. Publishers	Image pg. A13
		R.L. Polk Co. Publishers	Image pg. A13
1990	Vinces Italian Pizzeria & Restr	R.L. Polk Co. Publishers	Image pg. A24
1986	Vinces Italian Pizzeria & Restr	R.L. Polk Co. Publishers	Image pg. A38
1980	Vinces Italian Pizzeria & Reatr	R.L. Polk Co. Publishers	Image pg. A50
1975	Counter Balance Restaurant	R.L. Polk Co. Publishers	Image pg. A66
1970	BUON GUSTO RESTR AT	R.L. Polk Co Publishers	Image pg. A78
1966	BUON GUSTO RESTR AT	R.L. Polk Co Publishers	Image pg. A88

### 611 N QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1970	UPTOWN GROCERY AT	R.L. Polk Co Publishers	Image pg. A78
	UPTOWN MEAT MARKET AT	R.L. Polk Co Publishers	Image pg. A78
1966	UPTON GROCERY AT	R.L. Polk Co Publishers	Image pg. A88
	UPTOWN MEAT MARKET AT	R.L. Polk Co Publishers	Image pg. A88

### 612 N QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1990	4 Pony Espresso restr	R.L. Polk Co. Publishers	Image pg. A24

### 613 N QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	SAMPLE SHOP	R.L. Polk Co. Publishers	Image pg. A13
1990	Sample Shop womens do	R.L. Polk Co. Publishers	Image pg. A24
1986	Sample Fashions womens do	R.L. Polk Co. Publishers	Image pg. A38
1980	Sample Fashions womens cio	R.L. Polk Co. Publishers	Image pg. A50
1975	Tiffany Shoppe The gift shop	R.L. Polk Co. Publishers	Image pg. A66

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1970	MARGYS QUEEN ANNE SPECIALTY SHOP AT	R.L. Polk Co Publishers	Image pg. A78
1966	HAWAIIAN HUT GIFT SHOPS AT	R.L. Polk Co Publishers	Image pg. A88

### 615 N QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	TACO DEL MAR	R.L. Polk Co. Publishers	Image pg. A13
1990	Johnnies Shoe Service	R.L. Polk Co. Publishers	Image pg. A24
1986	Johnnies Shoe Service	R.L. Polk Co. Publishers	Image pg. A38
1980	Johnnies Shoe Service	R.L. Polk Co. Publishers	Image pg. A50
1975	Johnnies Shoe Service	R.L. Polk Co. Publishers	Image pg. A66
1970	JOHNNIES SHOE SERVICE	R.L. Polk Co Publishers	Image pg. A78
1966	JOHNNIES SHOE SERVICE SHOE REPAIR	R.L. Polk Co Publishers R.L. Polk Co Publishers	Image pg. A88 Image pg. A88

### 617 N QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>		
1996	Cruz Cartos M	R.L. Polk Co. Publishers	Image pg. A13	
	He is Jerome	R.L. Polk Co. Publishers	Image pg. A13	
	H!s Mary	R.L. Polk Co. Publishers	Image pg. A13	
	Monleant Doris	R.L. Polk Co. Publishers	Image pg. A13	
	Palomar Fetipe Ruts Rena P 402 C	R.L. Polk Co. Publishers	Image pg. A13	
	Vega Juan	R.L. Polk Co. Publishers	Image pg. A13	
	Vega Kla	R.L. Polk Co. Publishers	Image pg. A13	
	1990	Carlson Douglas	R.L. Polk Co. Publishers	Image pg. A24
		Franks Doris E	R.L. Polk Co. Publishers	Image pg. A24
		Depalmo Leann M	R.L. Polk Co. Publishers	Image pg. A24
		Lindberg Apartments	R.L. Polk Co. Publishers	Image pg. A24
		Cabral John	R.L. Polk Co. Publishers	Image pg. A24
		Mc Alphin J	R.L. Polk Co. Publishers	Image pg. A24
		Johnston Jennifer	R.L. Polk Co. Publishers	Image pg. A24
Quattrociocchi C		R.L. Polk Co. Publishers	Image pg. A24	
Bugni Paul F		R.L. Polk Co. Publishers	Image pg. A24	
Weeks F		R.L. Polk Co. Publishers	Image pg. A24	
1986	Vacant	R.L. Polk Co. Publishers	Image pg. A24	
	Vacant	R.L. Polk Co. Publishers	Image pg. A24	
	Black R	R.L. Polk Co. Publishers	Image pg. A24	
	Dixon	R.L. Polk Co. Publishers	Image pg. A38	
	Murray Norman	R.L. Polk Co. Publishers	Image pg. A38	

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1986	Vacant	R.L. Polk Co. Publishers	Image pg. A38
	Vacant	R.L. Polk Co. Publishers	Image pg. A38
	Sullivan	R.L. Polk Co. Publishers	Image pg. A38
	Vacant	R.L. Polk Co. Publishers	Image pg. A38
	Vacant	R.L. Polk Co. Publishers	Image pg. A38
	Franks Doris	R.L. Polk Co. Publishers	Image pg. A38
	Mc Daniels Bernice	R.L. Polk Co. Publishers	Image pg. A38
	Lindberg Apartments	R.L. Polk Co. Publishers	Image pg. A38
	Cabral John	R.L. Polk Co. Publishers	Image pg. A38
	Mc Alphin J	R.L. Polk Co. Publishers	Image pg. A38
1980	Vacant	R.L. Polk Co. Publishers	Image pg. A38
	Lindberg Apartments	R.L. Polk Co. Publishers	Image pg. A50
	Cabral John	R.L. Polk Co. Publishers	Image pg. A50
	Richte Robt	R.L. Polk Co. Publishers	Image pg. A50
	Harri Connie	R.L. Polk Co. Publishers	Image pg. A50
1975	No Return	R.L. Polk Co. Publishers	Image pg. A50
	Lindberg Apartments	R.L. Polk Co. Publishers	Image pg. A66
	Cabral John	R.L. Polk Co. Publishers	Image pg. A66
	Oneil Paul	R.L. Polk Co. Publishers	Image pg. A66
	Crage Joseph	R.L. Polk Co. Publishers	Image pg. A66
	Raid Edna Mrs	R.L. Polk Co. Publishers	Image pg. A66
	Waahburn Charles S	R.L. Polk Co. Publishers	Image pg. A66
	Mindoza C	R.L. Polk Co. Publishers	Image pg. A66
	Vacant	R.L. Polk Co. Publishers	Image pg. A66
	Koonce Charles	R.L. Polk Co. Publishers	Image pg. A66
	Loy John	R.L. Polk Co. Publishers	Image pg. A66
	Neal Susan	R.L. Polk Co. Publishers	Image pg. A66
	Francis Carl	R.L. Polk Co. Publishers	Image pg. A66
	Roberson John T	R.L. Polk Co. Publishers	Image pg. A66
1970	LINDBERG APARTMENT AT	R.L. Polk Co Publishers	Image pg. A78
	CABRAL JOHN AT	R.L. Polk Co Publishers	Image pg. A78
	OLMSTED CLIFTON E JR	R.L. Polk Co Publishers	Image pg. A78
	VACANT	R.L. Polk Co Publishers	Image pg. A78
	ARVES J C AT	R.L. Polk Co Publishers	Image pg. A78
	BALCOM MORRELL G AT	R.L. Polk Co Publishers	Image pg. A78
	WELLS LORENE L MRS AT	R.L. Polk Co Publishers	Image pg. A78
	VACANT	R.L. Polk Co Publishers	Image pg. A78
CASTLE LARRY W	R.L. Polk Co Publishers	Image pg. A78	

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1970	DAVIS JOANN M AT	R.L. Polk Co Publishers	Image pg. A78
	NOVOTNY CHRIS	R.L. Polk Co Publishers	Image pg. A78
	SHEARER JAMES H AT	R.L. Polk Co Publishers	Image pg. A78
	FISH HANS	R.L. Polk Co Publishers	Image pg. A78
	WACHTER PATK	R.L. Polk Co Publishers	Image pg. A78
1966	LINDBERG APARTMENT HOTEL	R.L. Polk Co Publishers	Image pg. A88
	CABRAL JOHN AT	R.L. Polk Co Publishers	Image pg. A88
	JACOBSON JOHN JAY AT	R.L. Polk Co Publishers	Image pg. A88
	TRACEY MARGARET E	R.L. Polk Co Publishers	Image pg. A88
	MILLER ANN MRS	R.L. Polk Co Publishers	Image pg. A88
	FERRIS PHILIP A AT	R.L. Polk Co Publishers	Image pg. A88
	VACANT	R.L. Polk Co Publishers	Image pg. A88
	WELLS LORt Nt L AT	R.L. Polk Co Publishers	Image pg. A88
	GOODWIN ANNt ATJ 80b J	R.L. Polk Co Publishers	Image pg. A88
	VACANT	R.L. Polk Co Publishers	Image pg. A88
	CALDt R DON E	R.L. Polk Co Publishers	Image pg. A88
	HOVER CHARLES D A T	R.L. Polk Co Publishers	Image pg. A88
	VACANT	R.L. Polk Co Publishers	Image pg. A88

### 619 N QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	Street Gladys	R.L. Polk Co. Publishers	Image pg. A13
	HOUSE OF PAINTINGS	R.L. Polk Co. Publishers	Image pg. A13
1990	House Of Painting Inc art gallery	R.L. Polk Co. Publishers	Image pg. A24
1986	House Of Painting Inc art gallery	R.L. Polk Co. Publishers	Image pg. A38
1980	House Of Paintings art gallery	R.L. Polk Co. Publishers	Image pg. A50
1975	House Of Paintings art gallery	R.L. Polk Co. Publishers	Image pg. A66
1970	HOUSE OF PAINTINGS ART GALLERY AT	R.L. Polk Co Publishers	Image pg. A78
1966	BERTEAUX STUDIO INT DLC AT	R.L. Polk Co Publishers	Image pg. A88

### 621 N QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	PERCHE NO	R.L. Polk Co. Publishers	Image pg. A13
	SALON IMAGE	R.L. Polk Co. Publishers	Image pg. A13
1990	Ristorante Pony restr	R.L. Polk Co. Publishers	Image pg. A24
	Prime Beauty Salon	R.L. Polk Co. Publishers	Image pg. A24
1986	Ristorante Pony restr	R.L. Polk Co. Publishers	Image pg. A38
	Prime Beauty Salon	R.L. Polk Co. Publishers	Image pg. A38

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1980	Prime Beauty Salon	R.L. Polk Co. Publishers	Image pg. A50
	A Pony Espresso restr	R.L. Polk Co. Publishers	Image pg. A50
1975	YA Jo Anns Antiques	R.L. Polk Co. Publishers	Image pg. A66
	Jo An Second Hand gaul mdea used	R.L. Polk Co. Publishers	Image pg. A66
	Prime Beauty Salon	R.L. Polk Co. Publishers	Image pg. A66
1970	DILLAWAY AQUARIUM 6 PET SHOP INC AT	R.L. Polk Co Publishers	Image pg. A78
	PRIME BEAUTY SHOP AT	R.L. Polk Co Publishers	Image pg. A78
1966	DILLAWAY AQUARIUM & PET SHOP INC AT	R.L. Polk Co Publishers	Image pg. A88
	PRIME BEAUTY SHOP AT	R.L. Polk Co Publishers	Image pg. A88

### 623 N QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	MONKEY LOVE RUBBER	R.L. Polk Co. Publishers	Image pg. A13
	ISTANBUL IMPORTS 4013 C	R.L. Polk Co. Publishers	Image pg. A13
	STAMPS	R.L. Polk Co. Publishers	Image pg. A13
1990	4 Shoe Biz	R.L. Polk Co. Publishers	Image pg. A24
	Razz M Tazz womens consignment clothing	R.L. Polk Co. Publishers	Image pg. A24
1986	Razz M Tazz womens clothes & collectables	R.L. Polk Co. Publishers	Image pg. A38
1980	A Bees Nest Candle Shop	R.L. Polk Co. Publishers	Image pg. A50
	Jo Ans Antiques & Collectables	R.L. Polk Co. Publishers	Image pg. A50
1975	s Larry Apple Realty	R.L. Polk Co. Publishers	Image pg. A66
	Gulbranwaa Gifts	R.L. Polk Co. Publishers	Image pg. A66
1970	YEE DONG AT	R.L. Polk Co Publishers	Image pg. A78
	UPTOWN LAUNDRY AT	R.L. Polk Co Publishers	Image pg. A78
1966	TORO THE TRADER GIFT SHOP AT	R.L. Polk Co Publishers	Image pg. A88
	RICH RICHOS AT	R.L. Polk Co Publishers	Image pg. A88
	UPTOWN LAUNDRY AT	R.L. Polk Co Publishers	Image pg. A88
	YEE DONG AT	R.L. Polk Co Publishers	Image pg. A88

### 625 N QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	FPRppov Gatna	R.L. Polk Co. Publishers	Image pg. A13
	Legeuk Jeanne	R.L. Polk Co. Publishers	Image pg. A13
	N QUEEN ANNE AVE oltg	R.L. Polk Co. Publishers	Image pg. A13
	Addr Zip 4 Carr Fle Phont	R.L. Polk Co. Publishers	Image pg. A13
	Puldo Gen ro	R.L. Polk Co. Publishers	Image pg. A13
	Vladimhs V V	R.L. Polk Co. Publishers	Image pg. A13

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1990	Lindberg Apartments	R.L. Polk Co. Publishers	Image pg. A24
	Brodic Taylor	R.L. Polk Co. Publishers	Image pg. A24
	Wilkes Smith Keli	R.L. Polk Co. Publishers	Image pg. A24
	Ward Richd L	R.L. Polk Co. Publishers	Image pg. A24
	Meitmann Ruth	R.L. Polk Co. Publishers	Image pg. A24
	Manina Jennifer S	R.L. Polk Co. Publishers	Image pg. A24
	Legault J	R.L. Polk Co. Publishers	Image pg. A24
	Hoover Diane	R.L. Polk Co. Publishers	Image pg. A24
	Balcom Morrell G Mrs	R.L. Polk Co. Publishers	Image pg. A24
	Stevens Don	R.L. Polk Co. Publishers	Image pg. A24
	Redwine T	R.L. Polk Co. Publishers	Image pg. A24
	Fitos Z	R.L. Polk Co. Publishers	Image pg. A24
	Peterson	R.L. Polk Co. Publishers	Image pg. A24
	Brodle Taylor	R.L. Polk Co. Publishers	Image pg. A24
1986	Lindberg Apartments	R.L. Polk Co. Publishers	Image pg. A38
	Smith K	R.L. Polk Co. Publishers	Image pg. A38
	David V	R.L. Polk Co. Publishers	Image pg. A38
	Meitmann Ruth	R.L. Polk Co. Publishers	Image pg. A38
	Legault J	R.L. Polk Co. Publishers	Image pg. A38
	Hu Ting Kuo	R.L. Polk Co. Publishers	Image pg. A38
	No Return	R.L. Polk Co. Publishers	Image pg. A38
	Hoover Diane	R.L. Polk Co. Publishers	Image pg. A38
	Balcom Morrell G Mrs	R.L. Polk Co. Publishers	Image pg. A38
	Chevick Ronny	R.L. Polk Co. Publishers	Image pg. A38
	Vacant	R.L. Polk Co. Publishers	Image pg. A38
	Drewry	R.L. Polk Co. Publishers	Image pg. A38
	Comell Diane	R.L. Polk Co. Publishers	Image pg. A38
	Chung Tuong	R.L. Polk Co. Publishers	Image pg. A38
1980	Me Dermott John	R.L. Polk Co. Publishers	Image pg. A50
	Kelly Mary	R.L. Polk Co. Publishers	Image pg. A50
	Koch C	R.L. Polk Co. Publishers	Image pg. A50
	Tiiomp son Josie	R.L. Polk Co. Publishers	Image pg. A50
	Adams Olive D	R.L. Polk Co. Publishers	Image pg. A50
	Ackerman	R.L. Polk Co. Publishers	Image pg. A50
	Balcom Morrell C Mrs	R.L. Polk Co. Publishers	Image pg. A50
	Ilau ser Morris	R.L. Polk Co. Publishers	Image pg. A50
	Me Mullen J J	R.L. Polk Co. Publishers	Image pg. A50
Dakan Kramer	R.L. Polk Co. Publishers	Image pg. A50	

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1980	Stetson David	R.L. Polk Co. Publishers	Image pg. A50
	Lindhebr Apartments	R.L. Polk Co. Publishers	Image pg. A50
1975	Zyni Rudy	R.L. Polk Co. Publishers	Image pg. A66
	Vacant	R.L. Polk Co. Publishers	Image pg. A66
	Adams Olive D	R.L. Polk Co. Publishers	Image pg. A66
	Ruark Kathleen	R.L. Polk Co. Publishers	Image pg. A66
	Balcom Morrell G Mrs	R.L. Polk Co. Publishers	Image pg. A66
	Sab Vak Donna M	R.L. Polk Co. Publishers	Image pg. A66
	Smlth Muriel G	R.L. Polk Co. Publishers	Image pg. A66
	Heflin Susan Mrs	R.L. Polk Co. Publishers	Image pg. A66
	Cosby Kathryn	R.L. Polk Co. Publishers	Image pg. A66
	Jumonville Arth J	R.L. Polk Co. Publishers	Image pg. A66
	Lindberg Apta	R.L. Polk Co. Publishers	Image pg. A66
	Felsenthal Sarnl	R.L. Polk Co. Publishers	Image pg. A66
	Mc Cartney Janice L	R.L. Polk Co. Publishers	Image pg. A66
1970	LINDBERG APARTMENT AT	R.L. Polk Co Publishers	Image pg. A78
	SMITH BETTY	R.L. Polk Co Publishers	Image pg. A78
	HEARY WM M JR AT	R.L. Polk Co Publishers	Image pg. A78
	QUEEN ANNE MASSAGE	R.L. Polk Co Publishers	Image pg. A78
	CENTER MASSAGE AT	R.L. Polk Co Publishers	Image pg. A78
	NORMAN LOIS MRS AT	R.L. Polk Co Publishers	Image pg. A78
	ABRUSKA NARY	R.L. Polk Co Publishers	Image pg. A78
	FERRIS PHILIP A AT	R.L. Polk Co Publishers	Image pg. A78
	LONG KAREN	R.L. Polk Co Publishers	Image pg. A78
	GERBRACHT O J AT	R.L. Polk Co Publishers	Image pg. A78
	MORRIS EMMA M	R.L. Polk Co Publishers	Image pg. A78
	VACANT	R.L. Polk Co Publishers	Image pg. A78
	VACANT	R.L. Polk Co Publishers	Image pg. A78
JUMONVILLE ARTHUR J AT	R.L. Polk Co Publishers	Image pg. A78	
1966	LINDBERG APARTMENT HOTEL APTS AT	R.L. Polk Co Publishers	Image pg. A88
	MILLAR ANNE MRS AT	R.L. Polk Co Publishers	Image pg. A88
	HIGGINS LYLE AT	R.L. Polk Co Publishers	Image pg. A88
	RICHTER PEARL MRS AT	R.L. Polk Co Publishers	Image pg. A88
	SCULL ROY AT	R.L. Polk Co Publishers	Image pg. A88
	PHILLIPS HOWARD M	R.L. Polk Co Publishers	Image pg. A88
	BALCOM MORRELL G AT	R.L. Polk Co Publishers	Image pg. A88
	STEINFORD BLANCHE MRS AT	R.L. Polk Co Publishers	Image pg. A88
MORRIS MARIE AT	R.L. Polk Co Publishers	Image pg. A88	

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1966	LA BOHN HELEN AT	R.L. Polk Co Publishers	Image pg. A88
	NO RETURN	R.L. Polk Co Publishers	Image pg. A88
	JUMENVILLE ARTHUR J AT	R.L. Polk Co Publishers	Image pg. A88

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1990	Counter Balance Union gas sta	R.L. Polk Co. Publishers	Image pg. A24
	Perma Shine Systems car wax Sys	R.L. Polk Co. Publishers	Image pg. A24
1986	Perma Shine Systems car wax sys	R.L. Polk Co. Publishers	Image pg. A38
	Counter Balance Union gas sta	R.L. Polk Co. Publishers	Image pg. A38
1975	Counter Balance Union	R.L. Polk Co. Publishers	Image pg. A66
1970	TERRYS UNION SERVICE GAS STat	R.L. Polk Co Publishers	Image pg. A78
1966	VACANT	R.L. Polk Co Publishers	Image pg. A88

### 720 N QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	Barrs Craig	R.L. Polk Co. Publishers	Image pg. A13
	Crumpesker Michael B	R.L. Polk Co. Publishers	Image pg. A13
	Estradeberg A	R.L. Polk Co. Publishers	Image pg. A13
	Hogard Alme	R.L. Polk Co. Publishers	Image pg. A13
	Mc Cormick H	R.L. Polk Co. Publishers	Image pg. A13
	Peige Daryl	R.L. Polk Co. Publishers	Image pg. A13
	Sckerhrr M	R.L. Polk Co. Publishers	Image pg. A13
	Stobhl Mark	R.L. Polk Co. Publishers	Image pg. A13
	Trayes Loran	R.L. Polk Co. Publishers	Image pg. A13
1990	Willis Apartments	R.L. Polk Co. Publishers	Image pg. A24
	S 1 Hamil Martin	R.L. Polk Co. Publishers	Image pg. A24
	S 2 Plummer Willis	R.L. Polk Co. Publishers	Image pg. A24
	Rudd Chris	R.L. Polk Co. Publishers	Image pg. A24
	Onell Wm	R.L. Polk Co. Publishers	Image pg. A24
	Goodykontz Gordon	R.L. Polk Co. Publishers	Image pg. A24
	Pomeroy Lynda	R.L. Polk Co. Publishers	Image pg. A24
	Hildenbrand Todd	R.L. Polk Co. Publishers	Image pg. A24
	Undholm David	R.L. Polk Co. Publishers	Image pg. A24
	Canonica Rene	R.L. Polk Co. Publishers	Image pg. A24
	Kalamar Greg	R.L. Polk Co. Publishers	Image pg. A24
	Vacant	R.L. Polk Co. Publishers	Image pg. A24
1986	Willis Apartments	R.L. Polk Co. Publishers	Image pg. A38
	S 1Dokke Loren J	R.L. Polk Co. Publishers	Image pg. A38

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1986	S 2 Plummer Willis	R.L. Polk Co. Publishers	Image pg. A38
	Mc Cormick Helmi S Mrs	R.L. Polk Co. Publishers	Image pg. A38
	Capurro Frank G	R.L. Polk Co. Publishers	Image pg. A38
	Mc Eneaney Kim	R.L. Polk Co. Publishers	Image pg. A38
	Lentz N L	R.L. Polk Co. Publishers	Image pg. A38
	Brooks Jack	R.L. Polk Co. Publishers	Image pg. A38
	Lindholm	R.L. Polk Co. Publishers	Image pg. A38
	Canonica Rene	R.L. Polk Co. Publishers	Image pg. A38
	Hall Jas	R.L. Polk Co. Publishers	Image pg. A38
	Espeda L	R.L. Polk Co. Publishers	Image pg. A38
1980	Willis Apartments	R.L. Polk Co. Publishers	Image pg. A50
	SI Knighton Shirley S 2 Plummer Willis	R.L. Polk Co. Publishers	Image pg. A50
	Mc t nrick Helmi S Mrs	R.L. Polk Co. Publishers	Image pg. A50
	Tilbian Anna	R.L. Polk Co. Publishers	Image pg. A50
	Kerr Mildred J Mrs	R.L. Polk Co. Publishers	Image pg. A50
	Hamilton	R.L. Polk Co. Publishers	Image pg. A50
	Briok i Jack	R.L. Polk Co. Publishers	Image pg. A50
	Newell	R.L. Polk Co. Publishers	Image pg. A50
	Tilbian Avedi	R.L. Polk Co. Publishers	Image pg. A50
	Laroche Donald I	R.L. Polk Co. Publishers	Image pg. A50
1975	ON ill J rrv J	R.L. Polk Co. Publishers	Image pg. A50
	VALLEY ST INTEKRSEt S	R.L. Polk Co. Publishers	Image pg. A50
	Willis Apartments	R.L. Polk Co. Publishers	Image pg. A66
	SIRahn Sam	R.L. Polk Co. Publishers	Image pg. A66
	S 2 Plumnmer Willis	R.L. Polk Co. Publishers	Image pg. A66
	Mc Cormick Helmi S Mrs	R.L. Polk Co. Publishers	Image pg. A66
	Zilbian Ann	R.L. Polk Co. Publishers	Image pg. A66
	Kerr Mildred J Mrs	R.L. Polk Co. Publishers	Image pg. A66
	Me Ferran Blanche A Mrs	R.L. Polk Co. Publishers	Image pg. A66
	Tapp Harriette	R.L. Polk Co. Publishers	Image pg. A66
1970	Murray Clinton	R.L. Polk Co. Publishers	Image pg. A66
	Brooks Jack	R.L. Polk Co. Publishers	Image pg. A66
	Laroche Donald F	R.L. Polk Co. Publishers	Image pg. A66
	ONeill Jerry J	R.L. Polk Co. Publishers	Image pg. A66
	WILLIS APARTMENTS AT	R.L. Polk Co Publishers	Image pg. A78
	MC CORMICK H S AT	R.L. Polk Co Publishers	Image pg. A78
	PLUMMER WILLIS A AT	R.L. Polk Co Publishers	Image pg. A78
	MC CORMICK HELMI S MRS	R.L. Polk Co Publishers	Image pg. A78

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1970	BARRAUGH ROSE A MRS AT	R.L. Polk Co Publishers	Image pg. A78
	KERR MILDRED J MRS AT	R.L. Polk Co Publishers	Image pg. A78
	MC FERRAN BLANCHE A AT	R.L. Polk Co Publishers	Image pg. A78
	TAPP HARRIETTE K AT	R.L. Polk Co Publishers	Image pg. A78
	AMES MARGT MRS	R.L. Polk Co Publishers	Image pg. A78
	STEPHEN KATHLEEN AT	R.L. Polk Co Publishers	Image pg. A78
	LAROCHE DONALD F	R.L. Polk Co Publishers	Image pg. A78
	ONEILL JERRY J AT	R.L. Polk Co Publishers	Image pg. A78
1966	WILLIS APARTMENTS	R.L. Polk Co Publishers	Image pg. A88
	BISON ROBERT L AT	R.L. Polk Co Publishers	Image pg. A88
	PLUMMER WILLIS A AT	R.L. Polk Co Publishers	Image pg. A88
	MC CORMICK GORDON AT	R.L. Polk Co Publishers	Image pg. A88
	BARRAUGH ROSE AT	R.L. Polk Co Publishers	Image pg. A88
	PACKARD ROBT R	R.L. Polk Co Publishers	Image pg. A88
	MC FERRAN BLANCHE A AT	R.L. Polk Co Publishers	Image pg. A88
	TAPP ALBERT AT	R.L. Polk Co Publishers	Image pg. A88
	AMES MARGARET MRS	R.L. Polk Co Publishers	Image pg. A88
	VACANT	R.L. Polk Co Publishers	Image pg. A88
	LARROCHE DONALD F	R.L. Polk Co Publishers	Image pg. A88
	MOORE JAMES S AT	R.L. Polk Co Publishers	Image pg. A88

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	Bradford Gordon B	R.L. Polk Co. Publishers	Image pg. A13
	Brdgman O L	R.L. Polk Co. Publishers	Image pg. A13
	Ca Idwe B Ka en J	R.L. Polk Co. Publishers	Image pg. A13
	Chrambedaln F P	R.L. Polk Co. Publishers	Image pg. A13
	Cianol Jaet	R.L. Polk Co. Publishers	Image pg. A13
	Clan t William	R.L. Polk Co. Publishers	Image pg. A13
	Clarke James	R.L. Polk Co. Publishers	Image pg. A13
	Clarke Yodll	R.L. Polk Co. Publishers	Image pg. A13
	Cotey John	R.L. Polk Co. Publishers	Image pg. A13
	Coffey Merhz	R.L. Polk Co. Publishers	Image pg. A13
	Cools Bradey	R.L. Polk Co. Publishers	Image pg. A13
	Deddok Da Id	R.L. Polk Co. Publishers	Image pg. A13
	Halpin K	R.L. Polk Co. Publishers	Image pg. A13
	Houston Joshua A	R.L. Polk Co. Publishers	Image pg. A13
	Hoflmn J	R.L. Polk Co. Publishers	Image pg. A13
	Jensen Kim	R.L. Polk Co. Publishers	Image pg. A13

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	Jesen M L	R.L. Polk Co. Publishers	Image pg. A13
	Jensen Melv In A	R.L. Polk Co. Publishers	Image pg. A13
	Johnson Rick	R.L. Polk Co. Publishers	Image pg. A13
	Jones Michael W	R.L. Polk Co. Publishers	Image pg. A13
	Laron K S	R.L. Polk Co. Publishers	Image pg. A13
	Long Claris K	R.L. Polk Co. Publishers	Image pg. A13
	Mysten James	R.L. Polk Co. Publishers	Image pg. A13
	Nllohottli F E	R.L. Polk Co. Publishers	Image pg. A13
	NI t C	R.L. Polk Co. Publishers	Image pg. A13
	Nohara Yas y	R.L. Polk Co. Publishers	Image pg. A13
	Phllllps Jeffrey	R.L. Polk Co. Publishers	Image pg. A13
	Phioney V 3619 C	R.L. Polk Co. Publishers	Image pg. A13
	Radford Le H	R.L. Polk Co. Publishers	Image pg. A13
	RAiden MNa 1clm	R.L. Polk Co. Publishers	Image pg. A13
	Rh At Amber	R.L. Polk Co. Publishers	Image pg. A13
	Roamer P A	R.L. Polk Co. Publishers	Image pg. A13
	Romero Ant o e	R.L. Polk Co. Publishers	Image pg. A13
	Shott Frank D	R.L. Polk Co. Publishers	Image pg. A13
	Sprtnger To M	R.L. Polk Co. Publishers	Image pg. A13
	Stoopman C	R.L. Polk Co. Publishers	Image pg. A13
	Taylor Same	R.L. Polk Co. Publishers	Image pg. A13
	Amy L	R.L. Polk Co. Publishers	Image pg. A13
	Tuotegode A	R.L. Polk Co. Publishers	Image pg. A13
	Whyt Geabts	R.L. Polk Co. Publishers	Image pg. A13
	Widman J	R.L. Polk Co. Publishers	Image pg. A13
	Yap Stephe	R.L. Polk Co. Publishers	Image pg. A13
1990	Hammett J M	R.L. Polk Co. Publishers	Image pg. A24
	Raymond	R.L. Polk Co. Publishers	Image pg. A24
	Schwarting	R.L. Polk Co. Publishers	Image pg. A24
	Evans Allen	R.L. Polk Co. Publishers	Image pg. A24
	Brown D	R.L. Polk Co. Publishers	Image pg. A24
	Kilkelly K	R.L. Polk Co. Publishers	Image pg. A24
	Robbins James	R.L. Polk Co. Publishers	Image pg. A24
	Ford C	R.L. Polk Co. Publishers	Image pg. A24
	Phllhips L	R.L. Polk Co. Publishers	Image pg. A24
	Tontegode	R.L. Polk Co. Publishers	Image pg. A24
	Yang C	R.L. Polk Co. Publishers	Image pg. A24
	Sweet B	R.L. Polk Co. Publishers	Image pg. A24

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1990	Cranwel Betty	R.L. Polk Co. Publishers	Image pg. A24
	Nemutl F	R.L. Polk Co. Publishers	Image pg. A24
	Cole H S	R.L. Polk Co. Publishers	Image pg. A24
	Val Anne Apartments	R.L. Polk Co. Publishers	Image pg. A24
	Roberts K	R.L. Polk Co. Publishers	Image pg. A24
	Ricknan	R.L. Polk Co. Publishers	Image pg. A24
	Akamine Mariko	R.L. Polk Co. Publishers	Image pg. A24
	Longle	R.L. Polk Co. Publishers	Image pg. A24
	Gonzales Carlos	R.L. Polk Co. Publishers	Image pg. A24
	Khalil K	R.L. Polk Co. Publishers	Image pg. A24
	Larson Karen S	R.L. Polk Co. Publishers	Image pg. A24
	Johnson Ellen	R.L. Polk Co. Publishers	Image pg. A24
	Chaparro Saul	R.L. Polk Co. Publishers	Image pg. A24
	Punnett P J	R.L. Polk Co. Publishers	Image pg. A24
	Ba la 2ar Rosanne	R.L. Polk Co. Publishers	Image pg. A24
	Yang X	R.L. Polk Co. Publishers	Image pg. A24
	Thurston F	R.L. Polk Co. Publishers	Image pg. A24
	Opera R	R.L. Polk Co. Publishers	Image pg. A24
	Oin Rick	R.L. Polk Co. Publishers	Image pg. A24
	Darlington Chaney	R.L. Polk Co. Publishers	Image pg. A24
	Opera L	R.L. Polk Co. Publishers	Image pg. A24
	Calpin C	R.L. Polk Co. Publishers	Image pg. A24
	Ligon N	R.L. Polk Co. Publishers	Image pg. A24
	Mc Allaster N	R.L. Polk Co. Publishers	Image pg. A24
	Bradford Gordon E	R.L. Polk Co. Publishers	Image pg. A24
	Shen D	R.L. Polk Co. Publishers	Image pg. A24
	Greenberg Greg	R.L. Polk Co. Publishers	Image pg. A24
	Stocking M V	R.L. Polk Co. Publishers	Image pg. A24
	Green Dawn	R.L. Polk Co. Publishers	Image pg. A24
	Lanque Don	R.L. Polk Co. Publishers	Image pg. A24
	Vachiratransalt A	R.L. Polk Co. Publishers	Image pg. A24
	Lehman F	R.L. Polk Co. Publishers	Image pg. A24
Anderson Edna P Mrs	R.L. Polk Co. Publishers	Image pg. A24	
Spencer	R.L. Polk Co. Publishers	Image pg. A24	
Swanson W	R.L. Polk Co. Publishers	Image pg. A24	
Solomon K	R.L. Polk Co. Publishers	Image pg. A24	
Saville John	R.L. Polk Co. Publishers	Image pg. A24	
1986	Val Anne Apartments	R.L. Polk Co. Publishers	Image pg. A38

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1986	No Return	R.L. Polk Co. Publishers	Image pg. A38
	Martin Donald J	R.L. Polk Co. Publishers	Image pg. A38
	Jones Neva	R.L. Polk Co. Publishers	Image pg. A38
	No Return	R.L. Polk Co. Publishers	Image pg. A38
	Gonzales Carlos	R.L. Polk Co. Publishers	Image pg. A38
	Khalil Khalil	R.L. Polk Co. Publishers	Image pg. A38
	Larson Karen S	R.L. Polk Co. Publishers	Image pg. A38
	Hain Jas T	R.L. Polk Co. Publishers	Image pg. A38
	Vacant	R.L. Polk Co. Publishers	Image pg. A38
	Redding Ralph S	R.L. Polk Co. Publishers	Image pg. A38
	Bly Brian	R.L. Polk Co. Publishers	Image pg. A38
	Schmidt Mary	R.L. Polk Co. Publishers	Image pg. A38
	Malm Tina	R.L. Polk Co. Publishers	Image pg. A38
	No Return	R.L. Polk Co. Publishers	Image pg. A38
	Brown Annette	R.L. Polk Co. Publishers	Image pg. A38
	Metcalf Carol	R.L. Polk Co. Publishers	Image pg. A38
	Hanson Linda	R.L. Polk Co. Publishers	Image pg. A38
	Calpin Cathy M	R.L. Polk Co. Publishers	Image pg. A38
	Mc Govern E L	R.L. Polk Co. Publishers	Image pg. A38
	Lehman F	R.L. Polk Co. Publishers	Image pg. A38
	Larson G F	R.L. Polk Co. Publishers	Image pg. A38
	Lanoue Don	R.L. Polk Co. Publishers	Image pg. A38
	Naubert Marvin W	R.L. Polk Co. Publishers	Image pg. A38
	Korch Matthew P	R.L. Polk Co. Publishers	Image pg. A38
	Anderson Edna P Mrs	R.L. Polk Co. Publishers	Image pg. A38
	Spencer	R.L. Polk Co. Publishers	Image pg. A38
	Holt Jeff	R.L. Polk Co. Publishers	Image pg. A38
	Nemerever L	R.L. Polk Co. Publishers	Image pg. A38
	Saville John	R.L. Polk Co. Publishers	Image pg. A38
	Cole H S	R.L. Polk Co. Publishers	Image pg. A38
	Pataky A	R.L. Polk Co. Publishers	Image pg. A38
	Baker Virgin	R.L. Polk Co. Publishers	Image pg. A38
	Brown T	R.L. Polk Co. Publishers	Image pg. A38
	Evans Allen	R.L. Polk Co. Publishers	Image pg. A38
	Kisby Patricia E	R.L. Polk Co. Publishers	Image pg. A38
	Hales Garth F	R.L. Polk Co. Publishers	Image pg. A38
	Vacant	R.L. Polk Co. Publishers	Image pg. A38
	Kinee	R.L. Polk Co. Publishers	Image pg. A38

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1986	Stewart Ravenal	R.L. Polk Co. Publishers	Image pg. A38
	Tontegoda	R.L. Polk Co. Publishers	Image pg. A38
	Vacant	R.L. Polk Co. Publishers	Image pg. A38
	Sweet B	R.L. Polk Co. Publishers	Image pg. A38
	Cranwell Betti	R.L. Polk Co. Publishers	Image pg. A38
	Korch	R.L. Polk Co. Publishers	Image pg. A38
	Wilson Muriel E	R.L. Polk Co. Publishers	Image pg. A38
	Ryan L	R.L. Polk Co. Publishers	Image pg. A38
	Vacant	R.L. Polk Co. Publishers	Image pg. A38
	Zeiglar Mark J	R.L. Polk Co. Publishers	Image pg. A38
1980	Val Anne Apartnointl	R.L. Polk Co. Publishers	Image pg. A50
1975	Zimmermnan G	R.L. Polk Co. Publishers	Image pg. A66
	Solenberger Harold	R.L. Polk Co. Publishers	Image pg. A66
	Vacant	R.L. Polk Co. Publishers	Image pg. A66
	Reich E K	R.L. Polk Co. Publishers	Image pg. A66
	Val Anne apta	R.L. Polk Co. Publishers	Image pg. A66
	Jacob Selm	R.L. Polk Co. Publishers	Image pg. A66
	Gribbon Patk	R.L. Polk Co. Publishers	Image pg. A66
	Larson Karen S	R.L. Polk Co. Publishers	Image pg. A66
	lien Nathan	R.L. Polk Co. Publishers	Image pg. A66
	Vacant	R.L. Polk Co. Publishers	Image pg. A66
	Johnson P J	R.L. Polk Co. Publishers	Image pg. A66
	Conant Connie W	R.L. Polk Co. Publishers	Image pg. A66
	Jenkina Wm L	R.L. Polk Co. Publishers	Image pg. A66
	Heider Irna	R.L. Polk Co. Publishers	Image pg. A66
	Nol I Joan	R.L. Polk Co. Publishers	Image pg. A66
	Inouye I Aoyd	R.L. Polk Co. Publishers	Image pg. A66
	Evans Alice	R.L. Polk Co. Publishers	Image pg. A66
	Clay U	R.L. Polk Co. Publishers	Image pg. A66
	Del Rio Jose	R.L. Polk Co. Publishers	Image pg. A66
	Davia A	R.L. Polk Co. Publishers	Image pg. A66
	Thompson Jack	R.L. Polk Co. Publishers	Image pg. A66
	Johnson Allen M	R.L. Polk Co. Publishers	Image pg. A66
	Rinke Robt C	R.L. Polk Co. Publishers	Image pg. A66
	Wilson	R.L. Polk Co. Publishers	Image pg. A66
	sen Kenneth	R.L. Polk Co. Publishers	Image pg. A66
	sen B	R.L. Polk Co. Publishers	Image pg. A66
	Streuther N	R.L. Polk Co. Publishers	Image pg. A66

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1975	Reafrow S	R.L. Polk Co. Publishers	Image pg. A66
	Anderson Edna P Mrs	R.L. Polk Co. Publishers	Image pg. A66
	Sendegae J	R.L. Polk Co. Publishers	Image pg. A66
	Na too Theo	R.L. Polk Co. Publishers	Image pg. A66
	Luckey Jim	R.L. Polk Co. Publishers	Image pg. A66
	Schuatt Donna K	R.L. Polk Co. Publishers	Image pg. A66
	Ackerman R	R.L. Polk Co. Publishers	Image pg. A66
	Moe Wm C	R.L. Polk Co. Publishers	Image pg. A66
	Gimksl R	R.L. Polk Co. Publishers	Image pg. A66
	Errol E Mn	R.L. Polk Co. Publishers	Image pg. A66
	Vance J D	R.L. Polk Co. Publishers	Image pg. A66
	Hoklbein Julie	R.L. Polk Co. Publishers	Image pg. A66
	Sorensen Mary L	R.L. Polk Co. Publishers	Image pg. A66
	Lindros Alice	R.L. Polk Co. Publishers	Image pg. A66
	Murray K	R.L. Polk Co. Publishers	Image pg. A66
	Caraon M	R.L. Polk Co. Publishers	Image pg. A66
	Mangels Janice G	R.L. Polk Co. Publishers	Image pg. A66
	Adam John	R.L. Polk Co. Publishers	Image pg. A66
	Rouse Ernie	R.L. Polk Co. Publishers	Image pg. A66
	Betts Perley F	R.L. Polk Co. Publishers	Image pg. A66
Lewis Gordon W	R.L. Polk Co. Publishers	Image pg. A66	
1970	BURNHAM CLARENCE AT	R.L. Polk Co Publishers	Image pg. A78
	NEVERS E	R.L. Polk Co Publishers	Image pg. A78
	BENNETT JUDY at	R.L. Polk Co Publishers	Image pg. A78
	LARSON KAREN S AT	R.L. Polk Co Publishers	Image pg. A78
	COOPER JOHN F	R.L. Polk Co Publishers	Image pg. A78
	MC BRIDE JOHN W	R.L. Polk Co Publishers	Image pg. A78
	AT 4 75 S	R.L. Polk Co Publishers	Image pg. A78
	MC COY GARY L AT	R.L. Polk Co Publishers	Image pg. A78
	CONANT C W AT	R.L. Polk Co Publishers	Image pg. A78
	VACANT	R.L. Polk Co Publishers	Image pg. A78
	WAHLSTROM DANFORO	R.L. Polk Co Publishers	Image pg. A78
	ERICKSON JUDY AT	R.L. Polk Co Publishers	Image pg. A78
	MENASHE PEARL AT	R.L. Polk Co Publishers	Image pg. A78
	MOORE AUDREY at	R.L. Polk Co Publishers	Image pg. A78
	BODISCH SHARON A AT	R.L. Polk Co Publishers	Image pg. A78
	CHOATE JOHN T AT	R.L. Polk Co Publishers	Image pg. A78
VACANT	R.L. Polk Co Publishers	Image pg. A78	

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1970	THOMPSON JACK AT	R.L. Polk Co Publishers	Image pg. A78
	SHEIL GWEN	R.L. Polk Co Publishers	Image pg. A78
	WOODSON E C AT	R.L. Polk Co Publishers	Image pg. A78
	EDWARDS DONNA E	R.L. Polk Co Publishers	Image pg. A78
	AT 3 20 S	R.L. Polk Co Publishers	Image pg. A78
	VACANT	R.L. Polk Co Publishers	Image pg. A78
	GLAZER SANFORD L AT	R.L. Polk Co Publishers	Image pg. A78
	BIOSSAT RENEE AT	R.L. Polk Co Publishers	Image pg. A78
	WOLF ROY W AT	R.L. Polk Co Publishers	Image pg. A78
	SKULE S K	R.L. Polk Co Publishers	Image pg. A78
	NASTOS THEODORE	R.L. Polk Co Publishers	Image pg. A78
	VACANT	R.L. Polk Co Publishers	Image pg. A78
	NIHART CHRIS AT 5 15 B	R.L. Polk Co Publishers	Image pg. A78
	GILCRIS LINDA B AT	R.L. Polk Co Publishers	Image pg. A78
	BERGHOFF GEO AT	R.L. Polk Co Publishers	Image pg. A78
	HOBBS LOUISE J	R.L. Polk Co Publishers	Image pg. A78
	MOE WM C	R.L. Polk Co Publishers	Image pg. A78
	WILLARD PAULA	R.L. Polk Co Publishers	Image pg. A78
	BARRON DUANE E	R.L. Polk Co Publishers	Image pg. A78
	MC LEAN HUGH AT	R.L. Polk Co Publishers	Image pg. A78
	RATHBUN G LORINE AT	R.L. Polk Co Publishers	Image pg. A78
	FULTZ FRED W AT	R.L. Polk Co Publishers	Image pg. A78
	LINDROS ALICE AT	R.L. Polk Co Publishers	Image pg. A78
	HYBAK RICHD AT	R.L. Polk Co Publishers	Image pg. A78
	WENZL JOSEPH AT	R.L. Polk Co Publishers	Image pg. A78
	MANGELS JANICE G AT	R.L. Polk Co Publishers	Image pg. A78
	VACANT	R.L. Polk Co Publishers	Image pg. A78
	ROBERTS ROBT E AT	R.L. Polk Co Publishers	Image pg. A78
	BIOSSAT F R AT	R.L. Polk Co Publishers	Image pg. A78
	VACANT	R.L. Polk Co Publishers	Image pg. A78
	VAL ANN APTS	R.L. Polk Co Publishers	Image pg. A78
	WILSON V S AT	R.L. Polk Co Publishers	Image pg. A78
	VACANT	R.L. Polk Co Publishers	Image pg. A78
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1966	WISE BEATRICE MRS	R.L. Polk Co Publishers	Image pg. A88
	WISE DONALD at	R.L. Polk Co Publishers	Image pg. A88
	WOLFE JOHN L AT	R.L. Polk Co Publishers	Image pg. A88
	REED WM at	R.L. Polk Co Publishers	Image pg. A88

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1966	WATERS JOHN E AT	R.L. Polk Co Publishers	Image pg. A88
	GRANSTROM ALLAN E AT	R.L. Polk Co Publishers	Image pg. A88
	MARTIN FRANK	R.L. Polk Co Publishers	Image pg. A88
	MC BRIDE JOHN W A T	R.L. Polk Co Publishers	Image pg. A88
	GENUNG PAUL F AT	R.L. Polk Co Publishers	Image pg. A88
	STOOKEY FRANK AT	R.L. Polk Co Publishers	Image pg. A88
	KOLLING D P AT	R.L. Polk Co Publishers	Image pg. A88
	MILZ RONALD C	R.L. Polk Co Publishers	Image pg. A88
	KASULKE ARDETH	R.L. Polk Co Publishers	Image pg. A88
	NO RETURN	R.L. Polk Co Publishers	Image pg. A88
	KRAEKENBUEHL JUDITH A A T	R.L. Polk Co Publishers	Image pg. A88
	BROWING WILLIE S AT	R.L. Polk Co Publishers	Image pg. A88
	LOUDEN GARNETT	R.L. Polk Co Publishers	Image pg. A88
	LYNCH M	R.L. Polk Co Publishers	Image pg. A88
	THOMPSON STAN	R.L. Polk Co Publishers	Image pg. A88
	SENTELIK MARGT AT	R.L. Polk Co Publishers	Image pg. A88
	VACANT	R.L. Polk Co Publishers	Image pg. A88
	WILSON ROBT J AT	R.L. Polk Co Publishers	Image pg. A88
	TRAVERSO FRANK	R.L. Polk Co Publishers	Image pg. A88
	CASEY MICHL D AT	R.L. Polk Co Publishers	Image pg. A88
	LEHMAN MARGT AT	R.L. Polk Co Publishers	Image pg. A88
	IRVIN WM T AT	R.L. Polk Co Publishers	Image pg. A88
	NO RETURN	R.L. Polk Co Publishers	Image pg. A88
	GRIBBON PATK J AT	R.L. Polk Co Publishers	Image pg. A88
	WILLOUGHBY CHERIE N AT	R.L. Polk Co Publishers	Image pg. A88
	TATHAM BETTY AT	R.L. Polk Co Publishers	Image pg. A88
	IMPORTI THOS	R.L. Polk Co Publishers	Image pg. A88
	ENGELL PAUL F AT	R.L. Polk Co Publishers	Image pg. A88
	NO RETURN	R.L. Polk Co Publishers	Image pg. A88
	DUFFY EMMA	R.L. Polk Co Publishers	Image pg. A88
	MC CORMACK JIM	R.L. Polk Co Publishers	Image pg. A88
	AUNE DONALD	R.L. Polk Co Publishers	Image pg. A88
	OLMSTED RALPH W JR AT	R.L. Polk Co Publishers	Image pg. A88
	JENSEN J at	R.L. Polk Co Publishers	Image pg. A88
	RICH RICHO S AT	R.L. Polk Co Publishers	Image pg. A94
	LINDROS ALICt AT	R.L. Polk Co Publishers	Image pg. A94
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	WENZL JOSEPH AT	R.L. Polk Co Publishers	Image pg. A94

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1966	BERG BETTINA J AT	R.L. Polk Co Publishers	Image pg. A94
	WILLIAMS WM S AT	R.L. Polk Co Publishers	Image pg. A94
	GILBERT J G	R.L. Polk Co Publishers	Image pg. A94
	VAL ANN APTS AT	R.L. Polk Co Publishers	Image pg. A88
	BOWIE HERBERT H A T	R.L. Polk Co Publishers	Image pg. A88
	EASTLING ROBERTA AT	R.L. Polk Co Publishers	Image pg. A88

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1966	DARLING ROBT F	R.L. Polk Co Publishers	Image pg. A94

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1996	Jeannotle Daniel	R.L. Polk Co. Publishers	Image pg. A13
	Micketl Craig	R.L. Polk Co. Publishers	Image pg. A13
	Morrow t Gegg S	R.L. Polk Co. Publishers	Image pg. A13
	Parez Phillip	R.L. Polk Co. Publishers	Image pg. A13
	Pohlman Andy	R.L. Polk Co. Publishers	Image pg. A13
	Robbina N	R.L. Polk Co. Publishers	Image pg. A13
	Sheehan Kenny y	R.L. Polk Co. Publishers	Image pg. A13
	Soneichnan Michael R Soebo Beth 360 S	R.L. Polk Co. Publishers	Image pg. A13
	Taylor James A Itt	R.L. Polk Co. Publishers	Image pg. A13
	Thomas Raymond E	R.L. Polk Co. Publishers	Image pg. A13
	Y oktes Kelly L	R.L. Polk Co. Publishers	Image pg. A13
	Arentsen Sat Badger Ketty	R.L. Polk Co. Publishers	Image pg. A13
	Bister Jentnfer	R.L. Polk Co. Publishers	Image pg. A13
	Boras D	R.L. Polk Co. Publishers	Image pg. A13
	Breekwelt Graham	R.L. Polk Co. Publishers	Image pg. A13
	Bro n Timothy J	R.L. Polk Co. Publishers	Image pg. A13
	Colgan Weody J	R.L. Polk Co. Publishers	Image pg. A13
	DOlon Sott	R.L. Polk Co. Publishers	Image pg. A13
	Eichhorst Ella	R.L. Polk Co. Publishers	Image pg. A13
	Elchhorst Ed n	R.L. Polk Co. Publishers	Image pg. A13
	Hollan Jlm	R.L. Polk Co. Publishers	Image pg. A13
1990	Castle Court Apartments	R.L. Polk Co. Publishers	Image pg. A24
	Angie R	R.L. Polk Co. Publishers	Image pg. A24
	Hartman Brett	R.L. Polk Co. Publishers	Image pg. A24
	Beckley H M	R.L. Polk Co. Publishers	Image pg. A24

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1990	Vacant	R.L. Polk Co. Publishers	Image pg. A24
	Allen Kerry	R.L. Polk Co. Publishers	Image pg. A24
	Ross Jean	R.L. Polk Co. Publishers	Image pg. A24
	Sulonen Kevin	R.L. Polk Co. Publishers	Image pg. A24
	Gossman William	R.L. Polk Co. Publishers	Image pg. A24
	Brower Tim	R.L. Polk Co. Publishers	Image pg. A24
	Johnson Vic	R.L. Polk Co. Publishers	Image pg. A24
	Arentzen Stuart	R.L. Polk Co. Publishers	Image pg. A24
	Hughes Kerry L	R.L. Polk Co. Publishers	Image pg. A24
	Morse R	R.L. Polk Co. Publishers	Image pg. A24
	Daisley C Marchant	R.L. Polk Co. Publishers	Image pg. A24
	Jobe Wendy	R.L. Polk Co. Publishers	Image pg. A24
	Robbins N	R.L. Polk Co. Publishers	Image pg. A24
	Edens A	R.L. Polk Co. Publishers	Image pg. A24
	Moyer Richd	R.L. Polk Co. Publishers	Image pg. A24
	Page D	R.L. Polk Co. Publishers	Image pg. A24
	Vasquez	R.L. Polk Co. Publishers	Image pg. A24
	Lee Cynthia T	R.L. Polk Co. Publishers	Image pg. A24
	Borasio D	R.L. Polk Co. Publishers	Image pg. A24
	Baker B	R.L. Polk Co. Publishers	Image pg. A24
1986	Johnson Vic	R.L. Polk Co. Publishers	Image pg. A38
	Arentzen Stuart	R.L. Polk Co. Publishers	Image pg. A38
	Lucas Shannon	R.L. Polk Co. Publishers	Image pg. A38
	Jungles Monet	R.L. Polk Co. Publishers	Image pg. A38
	Schnibbe Richd J	R.L. Polk Co. Publishers	Image pg. A38
	Jobe Wendy	R.L. Polk Co. Publishers	Image pg. A38
	Robbins N	R.L. Polk Co. Publishers	Image pg. A38
	Tryon Stephen P	R.L. Polk Co. Publishers	Image pg. A38
	Moyer Richd	R.L. Polk Co. Publishers	Image pg. A38
	Page D	R.L. Polk Co. Publishers	Image pg. A38
	Reinsch Charles H	R.L. Polk Co. Publishers	Image pg. A38
	Lee Cynthia T	R.L. Polk Co. Publishers	Image pg. A38
	Borasip D	R.L. Polk Co. Publishers	Image pg. A38
	Baker Robt	R.L. Polk Co. Publishers	Image pg. A38
	Castle Court Apartments	R.L. Polk Co. Publishers	Image pg. A38
	Pinckston Eug	R.L. Polk Co. Publishers	Image pg. A38
	Devine Patricia J	R.L. Polk Co. Publishers	Image pg. A38
	Goodwin Barbara	R.L. Polk Co. Publishers	Image pg. A38

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1986	Fellows Jeffery N	R.L. Polk Co. Publishers	Image pg. A38
	Allen R	R.L. Polk Co. Publishers	Image pg. A38
	Honeycutt R	R.L. Polk Co. Publishers	Image pg. A38
	Brophy L	R.L. Polk Co. Publishers	Image pg. A38
	Gossmnan William	R.L. Polk Co. Publishers	Image pg. A38
	Jepsen Eileen	R.L. Polk Co. Publishers	Image pg. A38
1980	Solie Vilker Nancy	R.L. Polk Co. Publishers	Image pg. A50
	Hiarvey Ed	R.L. Polk Co. Publishers	Image pg. A50
	Vacant	R.L. Polk Co. Publishers	Image pg. A50
	Kippen	R.L. Polk Co. Publishers	Image pg. A50
	Hayes Patk J	R.L. Polk Co. Publishers	Image pg. A50
	Taber Roger	R.L. Polk Co. Publishers	Image pg. A50
	Vacant	R.L. Polk Co. Publishers	Image pg. A50
	Chamberlin G	R.L. Polk Co. Publishers	Image pg. A50
	Hunter W	R.L. Polk Co. Publishers	Image pg. A50
	Hansen J	R.L. Polk Co. Publishers	Image pg. A50
	Black Calvin	R.L. Polk Co. Publishers	Image pg. A50
	Berggren Gordon	R.L. Polk Co. Publishers	Image pg. A50
	Halstead K	R.L. Polk Co. Publishers	Image pg. A50
	Morgan Michl M	R.L. Polk Co. Publishers	Image pg. A50
	Rankin	R.L. Polk Co. Publishers	Image pg. A50
	Eng Ray	R.L. Polk Co. Publishers	Image pg. A50
	Patterson Charles J	R.L. Polk Co. Publishers	Image pg. A50
	Getzendanner M	R.L. Polk Co. Publishers	Image pg. A50
	Davidson Janet	R.L. Polk Co. Publishers	Image pg. A50
	Vacant	R.L. Polk Co. Publishers	Image pg. A50
Baker Robt	R.L. Polk Co. Publishers	Image pg. A50	
Castle Court Apartments	R.L. Polk Co. Publishers	Image pg. A50	
Pinckston Eug	R.L. Polk Co. Publishers	Image pg. A50	
Diatel J	R.L. Polk Co. Publishers	Image pg. A50	
1975	Castle Court Apartments	R.L. Polk Co. Publishers	Image pg. A66
	Lee Debbie J	R.L. Polk Co. Publishers	Image pg. A66
	Hatch Mary Mrs	R.L. Polk Co. Publishers	Image pg. A66
	Sample	R.L. Polk Co. Publishers	Image pg. A66
	Coghill Geo	R.L. Polk Co. Publishers	Image pg. A66
	Taylor Unda	R.L. Polk Co. Publishers	Image pg. A66
	Hayes Petk J	R.L. Polk Co. Publishers	Image pg. A66
Yealand Ann	R.L. Polk Co. Publishers	Image pg. A66	

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1975	Hil Julie	R.L. Polk Co. Publishers	Image pg. A66
	Stolzman Bruce	R.L. Polk Co. Publishers	Image pg. A66
	Farrerra Fer indo L	R.L. Polk Co. Publishers	Image pg. A66
	Beggs Michl D	R.L. Polk Co. Publishers	Image pg. A66
	Vacant	R.L. Polk Co. Publishers	Image pg. A66
	Stewart D E	R.L. Polk Co. Publishers	Image pg. A66
	Be ee Andrea	R.L. Polk Co. Publishers	Image pg. A66
	Vacant	R.L. Polk Co. Publishers	Image pg. A66
	Swayzee Ethel Mrs	R.L. Polk Co. Publishers	Image pg. A66
	Peterson Dorothy J Mrs	R.L. Polk Co. Publishers	Image pg. A66
	Howard Edna M Mrs	R.L. Polk Co. Publishers	Image pg. A66
	Shields Dorothy H	R.L. Polk Co. Publishers	Image pg. A66
	Dealey Claire Mrs	R.L. Polk Co. Publishers	Image pg. A66
	Gurunlian Greg K	R.L. Polk Co. Publishers	Image pg. A66
1970	ROBINSON WALLACE C AT	R.L. Polk Co Publishers	Image pg. A78
	EMANUELS HUBERT S AT	R.L. Polk Co Publishers	Image pg. A78
	INGRAHAM GRACE AT	R.L. Polk Co Publishers	Image pg. A78
	MEISNEST HAZEL E MRS AT	R.L. Polk Co Publishers	Image pg. A78
	BATWELL EOW E AT	R.L. Polk Co Publishers	Image pg. A78
	NO RETURN	R.L. Polk Co Publishers	Image pg. A78
	STALZER GEO B AT	R.L. Polk Co Publishers	Image pg. A78
	KELLEY RAYMOND D AT	R.L. Polk Co Publishers	Image pg. A78
	GALBRAITH MYRTLE MRS	R.L. Polk Co Publishers	Image pg. A78
	AT 3 327 B	R.L. Polk Co Publishers	Image pg. A78
	ALLEN ROBT W AT	R.L. Polk Co Publishers	Image pg. A78
	CONKLIN ROBT B AT	R.L. Polk Co Publishers	Image pg. A78
	BUSHELL DONALD G AT	R.L. Polk Co Publishers	Image pg. A78
	MYERS SYLVIA C MRS AT	R.L. Polk Co Publishers	Image pg. A78
	MAYNE MARY W AT	R.L. Polk Co Publishers	Image pg. A78
	HADLEY ANNE AT 2 C	R.L. Polk Co Publishers	Image pg. A78
	SHANKS MAGOALENA AT	R.L. Polk Co Publishers	Image pg. A78
	DETTENMAYER FRANK L AT	R.L. Polk Co Publishers	Image pg. A78
	REITZ SUSAN	R.L. Polk Co Publishers	Image pg. A78
	TANNER JOHN C AT	R.L. Polk Co Publishers	Image pg. A78
	HORNER WALTER K MRS AT	R.L. Polk Co Publishers	Image pg. A78
	MC MURDIE JOHN AT	R.L. Polk Co Publishers	Image pg. A78
	GRAY ELLA L MRS A T	R.L. Polk Co Publishers	Image pg. A78
	AUNE DIANE AT	R.L. Polk Co Publishers	Image pg. A78

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1970	CASTLE COURT APARTMENTS AT	R.L. Polk Co Publishers	Image pg. A78
	CHRISTENSON DONALD E AT	R.L. Polk Co Publishers	Image pg. A78
	DAWSON DIANNA	R.L. Polk Co Publishers	Image pg. A78
	ANOERSON EILEEN AT	R.L. Polk Co Publishers	Image pg. A78
	MC GRAM JAMES	R.L. Polk Co Publishers	Image pg. A78
	GURULNLIAN GREG K AT	R.L. Polk Co Publishers	Image pg. A78
	HAYES PAT J	R.L. Polk Co Publishers	Image pg. A78
	LEA CORRINE MRS AT	R.L. Polk Co Publishers	Image pg. A78
	GOODERHAM HELEN AT	R.L. Polk Co Publishers	Image pg. A78
	LINGLE M BRUCE AT	R.L. Polk Co Publishers	Image pg. A78
	RQSS MARIE K MRS	R.L. Polk Co Publishers	Image pg. A78
	NO RETURN	R.L. Polk Co Publishers	Image pg. A78
	ANDERSON EL AT	R.L. Polk Co Publishers	Image pg. A78
	GILL VALENCIA J MRS AT	R.L. Polk Co Publishers	Image pg. A78
	PRATHER O J	R.L. Polk Co Publishers	Image pg. A78
	LE MASTERS MARY J MRS AT	R.L. Polk Co Publishers	Image pg. A78
	FLEAGLE ROBT G JR AT	R.L. Polk Co Publishers	Image pg. A78
	SWAYZEE ETHEL MRS AT	R.L. Polk Co Publishers	Image pg. A78
	BEUCHE KENNETH	R.L. Polk Co Publishers	Image pg. A78
	JONES SHARON	R.L. Polk Co Publishers	Image pg. A78
	SHIELDS DOROTHY H AT	R.L. Polk Co Publishers	Image pg. A78
	BLACKFORD NADINE A MRS AT	R.L. Polk Co Publishers	Image pg. A78
	BILLINGS PATRICIA A AT	R.L. Polk Co Publishers	Image pg. A78
	TOTTEN JOHN W AT	R.L. Polk Co Publishers	Image pg. A78
	NAUSS SUSAN AT	R.L. Polk Co Publishers	Image pg. A78
	HOFFMAN ALICE G AT	R.L. Polk Co Publishers	Image pg. A78
	WILLIS WILMat	R.L. Polk Co Publishers	Image pg. A78
	MILLER STEPH M AT	R.L. Polk Co Publishers	Image pg. A78
	SAINT GERMAIN KATHRYN M AT	R.L. Polk Co Publishers	Image pg. A78
	GUIHER LINDat	R.L. Polk Co Publishers	Image pg. A78
	RITCHIE S D ATS 1360	R.L. Polk Co Publishers	Image pg. A78
	VACANT	R.L. Polk Co Publishers	Image pg. A78
CUTRONE ORIE AT	R.L. Polk Co Publishers	Image pg. A78	
KINSEY MINNIE M MRS AT	R.L. Polk Co Publishers	Image pg. A78	
VACANT	R.L. Polk Co Publishers	Image pg. A78	
KRAUSE HAROLD H AT	R.L. Polk Co Publishers	Image pg. A78	
1966	CASTLE COURT APARTMENTS	R.L. Polk Co Publishers	Image pg. A94
	VACANT	R.L. Polk Co Publishers	Image pg. A94

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1966	KLINGBACK MARTHA B MRS AT	R.L. Polk Co Publishers	Image pg. A94
	CARROLL JOHN F	R.L. Polk Co Publishers	Image pg. A94
	WILLIAMS EMERY	R.L. Polk Co Publishers	Image pg. A94
	BAKER RHEA AT	R.L. Polk Co Publishers	Image pg. A94
	HAYES PAT J	R.L. Polk Co Publishers	Image pg. A94
	LEA CORINNE MRS AT	R.L. Polk Co Publishers	Image pg. A94
	LYKKEN ELI AT	R.L. Polk Co Publishers	Image pg. A94
	LINGLE M BRUCE AT	R.L. Polk Co Publishers	Image pg. A94
	VACANT	R.L. Polk Co Publishers	Image pg. A94
	SALLEE LLOYD MRS AT	R.L. Polk Co Publishers	Image pg. A94
	PUTNAM ELLIS L AT	R.L. Polk Co Publishers	Image pg. A94
	BIANCHI KATHRYN H MRS AT	R.L. Polk Co Publishers	Image pg. A94
	VACANT	R.L. Polk Co Publishers	Image pg. A94
	BENSON ELSIE L AT	R.L. Polk Co Publishers	Image pg. A94
	DOMINICKS CHARLES T	R.L. Polk Co Publishers	Image pg. A94
	SCHOLM DONNA Y	R.L. Polk Co Publishers	Image pg. A94
	SWAYZEE ETHEL MRS AT	R.L. Polk Co Publishers	Image pg. A94
	GARDNER BETH AT	R.L. Polk Co Publishers	Image pg. A94
	FIKSOAL HJALMAR N AT	R.L. Polk Co Publishers	Image pg. A94
	POLAN NINat	R.L. Polk Co Publishers	Image pg. A94
	VACANT	R.L. Polk Co Publishers	Image pg. A94

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1980	Queen Anne Seafoods & Poultry	R.L. Polk Co. Publishers	Image pg. A50

### OL 25 W ROY St

#### 1 OL 25 W ROY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1925	ANDERSON Otto h	R.L. Polk Co Publishers	

### OL 621 1ST AVE W

#### 1 OL 621 1ST AVE W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1925	SW Jas H Evelyn F h	R.L. Polk Co Publishers	

## FINDINGS

### OLYMPIC PL

#### 100 OLYMPIC PL

<u>Year</u>	<u>Uses</u>	<u>Source</u>		
1960	Hurst Alta M Mrs A AT	R.L. Polk Co Publishers	Image pg. A102	
	Hanks Helen T Mrs A AT	R.L. Polk Co Publishers	Image pg. A102	
	Williams Lenora L Mrs	R.L. Polk Co Publishers	Image pg. A102	
	Mac Martin H Scotty A AT	R.L. Polk Co Publishers	Image pg. A102	
	Delphin Apartments	R.L. Polk Co Publishers	Image pg. A102	
	Kaye Florence A Mrs A AT	R.L. Polk Co Publishers	Image pg. A102	
	Brydes Arth B A AT	R.L. Polk Co Publishers	Image pg. A102	
	Marshall Jean R A AT	R.L. Polk Co Publishers	Image pg. A102	
	Severin Elsbeth Mrs A AT	R.L. Polk Co Publishers	Image pg. A102	
	Corbett Phena V Mrs A AT	R.L. Polk Co Publishers	Image pg. A102	
1955	Shefendecker Margt P Mrs A AT	R.L. Polk Co Publishers	Image pg. A102	
	Thompson Georgia L Mrs A AT	R.L. Polk Co Publishers	Image pg. A102	
	Delphin Apartments	R.L. Polk Co Publishers	Image pg. A127	
	1951	Dolphin Apartments	R.L. Polk Co Publishers	Image pg. A147
		Adair Winifred GA	R.L. Polk Co Publishers	Image pg. A147
		Berriault L B GA	R.L. Polk Co Publishers	Image pg. A147
		Brydges A B GA	R.L. Polk Co Publishers	Image pg. A147
		Govenius B E Mrs AL	R.L. Polk Co Publishers	Image pg. A147
		Hallenbeck Salena Mrs	R.L. Polk Co Publishers	Image pg. A147
		Hamilton V V GA	R.L. Polk Co Publishers	Image pg. A147
Johns S P AL		R.L. Polk Co Publishers	Image pg. A147	
Mac Martin Harriette		R.L. Polk Co Publishers	Image pg. A147	
Marshall A S Mrs GA		R.L. Polk Co Publishers	Image pg. A147	
1944	Simonton H B H GA	R.L. Polk Co Publishers	Image pg. A147	
	Delphin Apartments	R. L. Polk & Co.	Image pg. A160	
1940	Simonton Edwin B	R. L. Polk & Co.	Image pg. A160	
	Delphin Apartments	R.L. Polk Co publishers	Image pg. A173	
	Simonton Edwin B	R.L. Polk Co publishers	Image pg. A173	
	Fjelstad Roger F	R.L. Polk Co publishers	Image pg. A173	
	Gaston Geo W	R.L. Polk Co publishers	Image pg. A173	
	Hamilton Vogel V	R.L. Polk Co publishers	Image pg. A173	
	Harvey Geo B	R.L. Polk Co publishers	Image pg. A173	
	Knight Fred P	R.L. Polk Co publishers	Image pg. A173	
	Lawrence John G	R.L. Polk Co publishers	Image pg. A173	
	Mc Farland Bert A	R.L. Polk Co publishers	Image pg. A173	

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Schwalen Mary Mrs	R.L. Polk Co publishers	Image pg. A173
	Watson Thos T	R.L. Polk Co publishers	Image pg. A173
	Weatherwax Harry L	R.L. Polk Co publishers	Image pg. A173
1935	ANDERSON Robt E r	R.L. Polk Co Publishers	
	Clayton Martin J Elsie F h	R.L. Polk Co Publishers	
	Fletcher Alice M wid T C h	R.L. Polk Co Publishers	
	FLETCHER Doreen M r	R.L. Polk Co Publishers	
	GRAY Geo A porter Claremont Barber Shop r	R.L. Polk Co Publishers	
	Geo F r	R.L. Polk Co Publishers	
	GRIFFITH Jas A G Margt M cash CBA h	R.L. Polk Co Publishers	
	Jacobson Berniece A Mrs elk RDS h	R.L. Polk Co Publishers	
	KNIGHT M West Mildred E maintenancemn Grand	R.L. Polk Co Publishers	
	Marguerite A Mrs elk Pof S h	R.L. Polk Co Publishers	
	Mc Mary E Mrs h	R.L. Polk Co Publishers	
	QUINN Francis B Cecile A h	R.L. Polk Co Publishers	
	Schwalen Mary wid Jos r	R.L. Polk Co Publishers	
	Simonted Edwin B Mary E Delphin Apartments h	R.L. Polk Co Publishers	
h	R.L. Polk Co Publishers		
Wilbourne C Lee Ruth C asst mgr H	R.L. Polk Co Publishers		
1930	HATCH Orville C Jessie G rep Herman Nelson Corp hl OO Olympic pi Orville C jr atty Murphy & Kumm r	R.L. Polk Co Publishers	
	h	R.L. Polk Co Publishers	
	HUMPHREY ries h	R.L. Polk Co Publishers	
	Nollan see also Nolan Henry Mary C exec sec Western Public Works Contractors Association h	R.L. Polk Co Publishers	

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Queensborough Apartments A AT	R.L. Polk Co Publishers	Image pg. A102
	Gilford Sidney W A AT	R.L. Polk Co Publishers	Image pg. A102
	Bailey Wilmina A AT	R.L. Polk Co Publishers	Image pg. A102
	Kline Helen Mrs A AT	R.L. Polk Co Publishers	Image pg. A102
	Vacant	R.L. Polk Co Publishers	Image pg. A102
	Larrabee Chas F	R.L. Polk Co Publishers	Image pg. A102
	Hawe Alice Mrs A AT	R.L. Polk Co Publishers	Image pg. A102
	West Robt T A AT	R.L. Polk Co Publishers	Image pg. A102

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1960	Gant Harriet G	R.L. Polk Co Publishers	Image pg. A102
	Tygar Myron	R.L. Polk Co Publishers	Image pg. A102
	Wheeler Harold F A AT	R.L. Polk Co Publishers	Image pg. A102
	Vacant	R.L. Polk Co Publishers	Image pg. A102
	Seaton John L A AT	R.L. Polk Co Publishers	Image pg. A102
	Davis Arth	R.L. Polk Co Publishers	Image pg. A102
	Vacant	R.L. Polk Co Publishers	Image pg. A102
	Stewart Margt L	R.L. Polk Co Publishers	Image pg. A102
	Burch Edw C A AT	R.L. Polk Co Publishers	Image pg. A102
	Williams Jay G	R.L. Polk Co Publishers	Image pg. A102
	Vacant	R.L. Polk Co Publishers	Image pg. A102
	Hedges Earl J A AT	R.L. Polk Co Publishers	Image pg. A102
	Anderson Paul	R.L. Polk Co Publishers	Image pg. A102
	Pabis Helen A AT	R.L. Polk Co Publishers	Image pg. A102
	Quigley Ellen P A AT	R.L. Polk Co Publishers	Image pg. A102
	Randall Callie M A AT	R.L. Polk Co Publishers	Image pg. A102
	Vacant	R.L. Polk Co Publishers	Image pg. A102
	Foy F Gordon A AT	R.L. Polk Co Publishers	Image pg. A102
	Gibson Merrill G	R.L. Polk Co Publishers	Image pg. A102
	Hurley Edw J A AT	R.L. Polk Co Publishers	Image pg. A102
	Edlin Vernon A AT	R.L. Polk Co Publishers	Image pg. A102
	No return	R.L. Polk Co Publishers	Image pg. A102
	Plant Marilyn S A AT	R.L. Polk Co Publishers	Image pg. A102
	Meise Claus J A AT	R.L. Polk Co Publishers	Image pg. A102
	Ells Hazel M Mrs A AT	R.L. Polk Co Publishers	Image pg. A102
	Seel Geo W A AT	R.L. Polk Co Publishers	Image pg. A102
	Clifton Bird L Mrs A AT	R.L. Polk Co Publishers	Image pg. A102
	Scott Eleanore M Mrs A AT	R.L. Polk Co Publishers	Image pg. A102
	Knudsen Ted M	R.L. Polk Co Publishers	Image pg. A102
	Mc Nichol Laura B Mrs A AT	R.L. Polk Co Publishers	Image pg. A102
	Buell Edith M Mrs A AT	R.L. Polk Co Publishers	Image pg. A102
	Rohrbaugh Alice	R.L. Polk Co Publishers	Image pg. A102
	Clegg La Rene Mrs A AT	R.L. Polk Co Publishers	Image pg. A102
	Sutherland Rene Mrs	R.L. Polk Co Publishers	Image pg. A102
	Jarvis Betsy Mrs	R.L. Polk Co Publishers	Image pg. A102
	Parrish Shirley C A AT	R.L. Polk Co Publishers	Image pg. A102
	Vacant	R.L. Polk Co Publishers	Image pg. A102
	Mc Laughlin Nellie S Mrs	R.L. Polk Co Publishers	Image pg. A102

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1960	Clayton Raymond A AT	R.L. Polk Co Publishers	Image pg. A102
	Vacant	R.L. Polk Co Publishers	Image pg. A102
	Vacant	R.L. Polk Co Publishers	Image pg. A102
	Kleiner Mon F A AT	R.L. Polk Co Publishers	Image pg. A102
	Dinzart David B A AT	R.L. Polk Co Publishers	Image pg. A102
	Duncan Grace	R.L. Polk Co Publishers	Image pg. A102
	Colkett David G	R.L. Polk Co Publishers	Image pg. A102
	Dixon Mary E A AT	R.L. Polk Co Publishers	Image pg. A102
	Gruble Edw J A AT	R.L. Polk Co Publishers	Image pg. A102
	Wiggins Ralph D A AT	R.L. Polk Co Publishers	Image pg. A102
	Jaske Louise M A AT	R.L. Polk Co Publishers	Image pg. A102
	Ramulu Edna H Mrs A AT	R.L. Polk Co Publishers	Image pg. A102
	Dobson Frank P A AT	R.L. Polk Co Publishers	Image pg. A102
	Moore Emmett B jr A AT	R.L. Polk Co Publishers	Image pg. A102
	Mc Grath Henry J A AT	R.L. Polk Co Publishers	Image pg. A102
	Doak Bill D jr	R.L. Polk Co Publishers	Image pg. A102
	Vacant	R.L. Polk Co Publishers	Image pg. A102
	Hopkins Hermanl F A AT	R.L. Polk Co Publishers	Image pg. A102
	Bell Jean M A AT	R.L. Polk Co Publishers	Image pg. A102
	Nivison Raymond M A AT	R.L. Polk Co Publishers	Image pg. A102
	Steinman Martin	R.L. Polk Co Publishers	Image pg. A102
	Vacant	R.L. Polk Co Publishers	Image pg. A102
	Byers Blanche A AT	R.L. Polk Co Publishers	Image pg. A102
	Vacant	R.L. Polk Co Publishers	Image pg. A102
	Welborn John F A AT	R.L. Polk Co Publishers	Image pg. A102
	Crandall Wm	R.L. Polk Co Publishers	Image pg. A102
	Sherwood Claire A A AT	R.L. Polk Co Publishers	Image pg. A102
	Welborn Carrie W Mrs A AT	R.L. Polk Co Publishers	Image pg. A102
	Hecker Walter H A AT	R.L. Polk Co Publishers	Image pg. A102
	HarperR E	R.L. Polk Co Publishers	Image pg. A102
	Peterson I Nancy A AT	R.L. Polk Co Publishers	Image pg. A102
	Curry Wm R A AT	R.L. Polk Co Publishers	Image pg. A102
	Stover Harold C A AT	R.L. Polk Co Publishers	Image pg. A102
	Poffley Edw C A AT	R.L. Polk Co Publishers	Image pg. A102
	Smith Robbie	R.L. Polk Co Publishers	Image pg. A102
	Allen Adrienne	R.L. Polk Co Publishers	Image pg. A102
	Draves Galen B A AT	R.L. Polk Co Publishers	Image pg. A102
	Roberge Mertie A Mrs A AT	R.L. Polk Co Publishers	Image pg. A102

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Johnson Gertrude E Mrs A AT	R.L. Polk Co Publishers	Image pg. A102
	Miltimore Wm A AT	R.L. Polk Co Publishers	Image pg. A102
	Byrd Celia A A AT	R.L. Polk Co Publishers	Image pg. A102
	Schipper Lowell	R.L. Polk Co Publishers	Image pg. A102
	Friedholdt Erna C A AT	R.L. Polk Co Publishers	Image pg. A102
	Fletcher Helen Mrs A AT	R.L. Polk Co Publishers	Image pg. A102
	Du Bois Anna Mrs A AT	R.L. Polk Co Publishers	Image pg. A102
	Lyle Cleo H Mrs A AT	R.L. Polk Co Publishers	Image pg. A102
	Miller Karlotta K A AT	R.L. Polk Co Publishers	Image pg. A102
	Wiedekamp Karl E A AT	R.L. Polk Co Publishers	Image pg. A102
	Larimer Robt N A AT	R.L. Polk Co Publishers	Image pg. A102
	Higginson Fern V A AT	R.L. Polk Co Publishers	Image pg. A102
	Ajemian Berge J	R.L. Polk Co Publishers	Image pg. A102
	Keating Kay A AT	R.L. Polk Co Publishers	Image pg. A102
	Barnecut Geo D jr A AT	R.L. Polk Co Publishers	Image pg. A102
	Anderson Ester A AT	R.L. Polk Co Publishers	Image pg. A102
	Johnson James H A AT	R.L. Polk Co Publishers	Image pg. A102
	Smith Jean	R.L. Polk Co Publishers	Image pg. A102
	Tommie Barbara B Mrs A AT	R.L. Polk Co Publishers	Image pg. A102
	Doak Wm R A AT	R.L. Polk Co Publishers	Image pg. A102
	Howland Nellie F A AT	R.L. Polk Co Publishers	Image pg. A102
	Page Jack O A AT	R.L. Polk Co Publishers	Image pg. A102
	Greenhaigh Agnes A AT	R.L. Polk Co Publishers	Image pg. A102
	Clarke Florence B Mrs A AT	R.L. Polk Co Publishers	Image pg. A102
	Rue Garry A AT	R.L. Polk Co Publishers	Image pg. A102
	Cuddleford Daisy F	R.L. Polk Co Publishers	Image pg. A102
	Porter Elsa C Mrs A AT	R.L. Polk Co Publishers	Image pg. A102
	Roning Robt C	R.L. Polk Co Publishers	Image pg. A102
	OBrien T A	R.L. Polk Co Publishers	Image pg. A102
	Ona Olaf R A AT	R.L. Polk Co Publishers	Image pg. A102
	Floberg Ruth B A AT	R.L. Polk Co Publishers	Image pg. A102
	Gilmore Edna M A AT	R.L. Polk Co Publishers	Image pg. A102
	Scheumann Elenore	R.L. Polk Co Publishers	Image pg. A102
	Reid John	R.L. Polk Co Publishers	Image pg. A102
	Grigg N Wm	R.L. Polk Co Publishers	Image pg. A102
	Waters Gladys H Mrs A AT	R.L. Polk Co Publishers	Image pg. A102
	Furtney Herbert J A AT	R.L. Polk Co Publishers	Image pg. A102
	Roberts Roy A A AT	R.L. Polk Co Publishers	Image pg. A102

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1960	Thompson Louis A AT	R.L. Polk Co Publishers	Image pg. A102
	Kreuger Wm P	R.L. Polk Co Publishers	Image pg. A102
	Mulvey Maria T	R.L. Polk Co Publishers	Image pg. A102
	Heinz Dixie Mrs A AT	R.L. Polk Co Publishers	Image pg. A102
	Beck Mary A AT	R.L. Polk Co Publishers	Image pg. A102
	Pugh Melvin A A AT	R.L. Polk Co Publishers	Image pg. A102
	Rhodes John W jr A AT	R.L. Polk Co Publishers	Image pg. A102
	Knight Dorris E A AT	R.L. Polk Co Publishers	Image pg. A102
	Shaw Pearl E A AT	R.L. Polk Co Publishers	Image pg. A102
	Maclean Nina A Mrs A AT	R.L. Polk Co Publishers	Image pg. A102
	Edgeworth Alvin E A AT	R.L. Polk Co Publishers	Image pg. A102
	Turner Theo V A AT	R.L. Polk Co Publishers	Image pg. A102
	Conley Ora MA Mrs A AT	R.L. Polk Co Publishers	Image pg. A102
	Croghan John R A AT	R.L. Polk Co Publishers	Image pg. A102
	Fowler Robt R jr A AT	R.L. Polk Co Publishers	Image pg. A102
	Mackay John	R.L. Polk Co Publishers	Image pg. A102
	Manson John L A AT	R.L. Polk Co Publishers	Image pg. A102
	Ross Glaen	R.L. Polk Co Publishers	Image pg. A102
	Hoy Andrew	R.L. Polk Co Publishers	Image pg. A102
	Callow Wm L	R.L. Polk Co Publishers	Image pg. A102
	Ulrich Luella G A AT	R.L. Polk Co Publishers	Image pg. A102
	Davenny Olive M Mrs A AT	R.L. Polk Co Publishers	Image pg. A102
	Sanford Emil A	R.L. Polk Co Publishers	Image pg. A102
	Patzer Wm C A AT	R.L. Polk Co Publishers	Image pg. A102
	Cochran Sami D A AT	R.L. Polk Co Publishers	Image pg. A102
	Cochran Carol	R.L. Polk Co Publishers	Image pg. A102
	1955	Knowles Daisy M Mrs	R.L. Polk Co Publishers
Roberts Roy A		R.L. Polk Co Publishers	Image pg. A128
Clayton Raymond		R.L. Polk Co Publishers	Image pg. A128
603 Wendt Gerald H		R.L. Polk Co Publishers	Image pg. A128
604 Horton Helen Mrs		R.L. Polk Co Publishers	Image pg. A128
Peters W L		R.L. Polk Co Publishers	Image pg. A128
Mc Cann Raymond J		R.L. Polk Co Publishers	Image pg. A128
G 07 Stewart Jeanne M		R.L. Polk Co Publishers	Image pg. A128
Muro Francis M		R.L. Polk Co Publishers	Image pg. A128
609 Dixon Mlary E		R.L. Polk Co Publishers	Image pg. A128
G 10 Gruble Edw J	R.L. Polk Co Publishers	Image pg. A128	
il Chappel Arth B	R.L. Polk Co Publishers	Image pg. A128	

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1955	Jaske Louise M	R.L. Polk Co Publishers	Image pg. A128
	Ramulu Edna H	R.L. Polk Co Publishers	Image pg. A128
	614 Evans E Philip	R.L. Polk Co Publishers	Image pg. A128
	115 Daniel Boswell	R.L. Polk Co Publishers	Image pg. A128
	Fowler Robt R jr	R.L. Polk Co Publishers	Image pg. A128
	Ayers Jas H	R.L. Polk Co Publishers	Image pg. A128
	G 18 Zenan Gustoff	R.L. Polk Co Publishers	Image pg. A128
	Sttluml E Leone	R.L. Polk Co Publishers	Image pg. A128
	Bell Jean D	R.L. Polk Co Publishers	Image pg. A128
	Spoonhoutr Chas L	R.L. Polk Co Publishers	Image pg. A128
	Stroutp Jas A	R.L. Polk Co Publishers	Image pg. A128
	Sullivanr John L	R.L. Polk Co Publishers	Image pg. A128
	Murray Carlton P	R.L. Polk Co Publishers	Image pg. A128
	Kercheval Leonard I jr	R.L. Polk Co Publishers	Image pg. A128
	Welborn John F	R.L. Polk Co Publishers	Image pg. A128
	Hartung Fred L	R.L. Polk Co Publishers	Image pg. A128
	Welborn Carrie W	R.L. Polk Co Publishers	Image pg. A128
	Harding Jas A	R.L. Polk Co Publishers	Image pg. A128
	Mc Credy C R Jr	R.L. Polk Co Publishers	Image pg. A128
	Hostetter Robt J	R.L. Polk Co Publishers	Image pg. A128
	Tennant Rowena	R.L. Polk Co Publishers	Image pg. A128
	Newman Theo J	R.L. Polk Co Publishers	Image pg. A128
	Cunningham Robt r	R.L. Polk Co Publishers	Image pg. A128
	Welch Harold A	R.L. Polk Co Publishers	Image pg. A128
	Karn Walter B	R.L. Polk Co Publishers	Image pg. A128
	Vacant	R.L. Polk Co Publishers	Image pg. A128
	Brookhart Richd H	R.L. Polk Co Publishers	Image pg. A128
	Lamb Edgar A	R.L. Polk Co Publishers	Image pg. A128
	Lundberg Paige C	R.L. Polk Co Publishers	Image pg. A128
	Lawson Howard L	R.L. Polk Co Publishers	Image pg. A128
	Pursley Bil A	R.L. Polk Co Publishers	Image pg. A128
	Erbes Frank L	R.L. Polk Co Publishers	Image pg. A128
	Perry Gerald L	R.L. Polk Co Publishers	Image pg. A128
	Short Wm H	R.L. Polk Co Publishers	Image pg. A128
	Burk John F	R.L. Polk Co Publishers	Image pg. A128
	Roberge Meirtle A Mrs	R.L. Polk Co Publishers	Image pg. A128
	Carlson Hiinnah C Mrs	R.L. Polk Co Publishers	Image pg. A128
	Coleman Jos	R.L. Polk Co Publishers	Image pg. A128

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1955	Byers Blanche E	R.L. Polk Co Publishers	Image pg. A128
	Watney Borghild M	R.L. Polk Co Publishers	Image pg. A128
	Nyblin Margt Mrs	R.L. Polk Co Publishers	Image pg. A128
	Kurtz Kath	R.L. Polk Co Publishers	Image pg. A128
	Jolhnson Garfield L	R.L. Polk Co Publishers	Image pg. A128
	Vacant	R.L. Polk Co Publishers	Image pg. A128
	Porter Elsa C Mrs	R.L. Polk Co Publishers	Image pg. A128
	Korth John H	R.L. Polk Co Publishers	Image pg. A128
	Valente John M	R.L. Polk Co Publishers	Image pg. A128
	Scheel Fredk W	R.L. Polk Co Publishers	Image pg. A128
	Richardson Eva	R.L. Polk Co Publishers	Image pg. A128
	Mc Clure Lillian T Mrs	R.L. Polk Co Publishers	Image pg. A128
	Bruckner Alan A	R.L. Polk Co Publishers	Image pg. A128
	Quigley Ellen	R.L. Polk Co Publishers	Image pg. A128
	Wallbon David	R.L. Polk Co Publishers	Image pg. A128
	ODriscoll Freda Mrs	R.L. Polk Co Publishers	Image pg. A128
	RBagsdale John R	R.L. Polk Co Publishers	Image pg. A128
	Kirker Carmen M Mrs	R.L. Polk Co Publishers	Image pg. A128
	Hotze Richd W	R.L. Polk Co Publishers	Image pg. A128
	Garmo Blanche B	R.L. Polk Co Publishers	Image pg. A128
	Brennan Margt	R.L. Polk Co Publishers	Image pg. A128
	Steiger Ruth A Mrs	R.L. Polk Co Publishers	Image pg. A128
	Plgion Marie L Mrs	R.L. Polk Co Publishers	Image pg. A128
	Pugh Melvin A	R.L. Polk Co Publishers	Image pg. A128
	Jensen Jessie Mrs	R.L. Polk Co Publishers	Image pg. A128
	Wilcox Carl R	R.L. Polk Co Publishers	Image pg. A128
	Fahey John E	R.L. Polk Co Publishers	Image pg. A128
	Agner Geo M	R.L. Polk Co Publishers	Image pg. A128
	Rust B E	R.L. Polk Co Publishers	Image pg. A128
	Turner Theo V	R.L. Polk Co Publishers	Image pg. A128
	Dearing Virginia	R.L. Polk Co Publishers	Image pg. A128
	Arntsen Leonard	R.L. Polk Co Publishers	Image pg. A128
	Rall Frank X	R.L. Polk Co Publishers	Image pg. A128
	Hedges Virginia V	R.L. Polk Co Publishers	Image pg. A128
	Pfister Albert J	R.L. Polk Co Publishers	Image pg. A128
	Ilawe Alice Mrs	R.L. Polk Co Publishers	Image pg. A128
	Yeilding Wm R	R.L. Polk Co Publishers	Image pg. A128
	Nigro Bert A	R.L. Polk Co Publishers	Image pg. A128

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Davis Jessie A	R.L. Polk Co Publishers	Image pg. A128
	Ziegler Louise Mi Mrs	R.L. Polk Co Publishers	Image pg. A128
	Westenborg Arth J	R.L. Polk Co Publishers	Image pg. A128
	5 Dewey Ben J L	R.L. Polk Co Publishers	Image pg. A128
	Boyce Raymond W	R.L. Polk Co Publishers	Image pg. A128
	Young Milton E	R.L. Polk Co Publishers	Image pg. A128
	Peden Bonnie	R.L. Polk Co Publishers	Image pg. A128
	Foy T Gordon	R.L. Polk Co Publishers	Image pg. A128
	Brady Wm	R.L. Polk Co Publishers	Image pg. A128
	Hurley Edw J	R.L. Polk Co Publishers	Image pg. A128
	Gustavson Gloria E	R.L. Polk Co Publishers	Image pg. A128
	Mills Parmelia M I	R.L. Polk Co Publishers	Image pg. A128
	Bellmar Chas L	R.L. Polk Co Publishers	Image pg. A128
	Clegg Donald J	R.L. Polk Co Publishers	Image pg. A128
	Latnglowv Jens P	R.L. Polk Co Publishers	Image pg. A128
	Beck Mary	R.L. Polk Co Publishers	Image pg. A128
	Daly Dolores	R.L. Polk Co Publishers	Image pg. A128
	Furtney Herbert F	R.L. Polk Co Publishers	Image pg. A128
	Edgeworth Alvin E	R.L. Polk Co Publishers	Image pg. A128
	Ells Hazel M Mrs	R.L. Polk Co Publishers	Image pg. A128
	Janeek Marjorie M	R.L. Polk Co Publishers	Image pg. A128
	Groves Eliz	R.L. Polk Co Publishers	Image pg. A128
	Scott Eleanore M Mirs	R.L. Polk Co Publishers	Image pg. A128
	Helgeson Ralph	R.L. Polk Co Publishers	Image pg. A128
	MAC Nichol Laura B MARS	R.L. Polk Co Publishers	Image pg. A128
	RBuell Edith M Mrs	R.L. Polk Co Publishers	Image pg. A128
	Kaye Florence A Mrs	R.L. Polk Co Publishers	Image pg. A127
	OLYMPIC PLACE Contd	R.L. Polk Co Publishers	Image pg. A128
	Brydges Arth B mgr	R.L. Polk Co Publishers	Image pg. A128
	Hamilton Vogel V	R.L. Polk Co Publishers	Image pg. A128
	Severin Elsbeth Mrs	R.L. Polk Co Publishers	Image pg. A128
	Hogan Wm J	R.L. Polk Co Publishers	Image pg. A128
	Miendenhall Cleo R Mrs	R.L. Polk Co Publishers	Image pg. A128
	Hayes Mayda D	R.L. Polk Co Publishers	Image pg. A128
	Christiansen Bertha Mrs	R.L. Polk Co Publishers	Image pg. A128
	Hoagland Margie Mrs	R.L. Polk Co Publishers	Image pg. A128
	Marshall Anna Mrs	R.L. Polk Co Publishers	Image pg. A128
	Street continued	R.L. Polk Co Publishers	Image pg. A128

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Queensborough Apartments	R.L. Polk Co Publishers	Image pg. A128
	Sigfridson Richd	R.L. Polk Co Publishers	Image pg. A128
	Hall Wendell S	R.L. Polk Co Publishers	Image pg. A128
	Grant Geo P	R.L. Polk Co Publishers	Image pg. A128
	Vacant	R.L. Polk Co Publishers	Image pg. A128
	Parker Patricia E	R.L. Polk Co Publishers	Image pg. A128
	Taylor Marie M Mrs	R.L. Polk Co Publishers	Image pg. A128
	De Silvia Louis H	R.L. Polk Co Publishers	Image pg. A128
	Olson Ruth M	R.L. Polk Co Publishers	Image pg. A128
	Friedholdt Erna C	R.L. Polk Co Publishers	Image pg. A128
	Gerber Alice S Mrs	R.L. Polk Co Publishers	Image pg. A128
	Acteson Jas A jr	R.L. Polk Co Publishers	Image pg. A128
	Steffan Paul V	R.L. Polk Co Publishers	Image pg. A128
	Miller Karlotta K Mrs	R.L. Polk Co Publishers	Image pg. A128
	Webb Allen T	R.L. Polk Co Publishers	Image pg. A128
	Jonason Raynor	R.L. Polk Co Publishers	Image pg. A128
	Hoyt Florence A Mrs	R.L. Polk Co Publishers	Image pg. A128
	Halterman Anne Mrs	R.L. Polk Co Publishers	Image pg. A128
	Keating Kay a	R.L. Polk Co Publishers	Image pg. A128
	Tuttle Sarah R	R.L. Polk Co Publishers	Image pg. A128
	Jensen Peter T	R.L. Polk Co Publishers	Image pg. A128
	Hale C Anthony	R.L. Polk Co Publishers	Image pg. A128
	Hayes Edgerton L	R.L. Polk Co Publishers	Image pg. A128
	Vennesland Kirsten	R.L. Polk Co Publishers	Image pg. A128
	Vacant	R.L. Polk Co Publishers	Image pg. A128
	Gottstein Richd K	R.L. Polk Co Publishers	Image pg. A128
	Clrch Luella G	R.L. Polk Co Publishers	Image pg. A128
	Street continued	R.L. Polk Co Publishers	Image pg. A128
	Mulholland Anne	R.L. Polk Co Publishers	Image pg. A128
	Brekke Lila V	R.L. Polk Co Publishers	Image pg. A128
	Scheumann Eleonore L	R.L. Polk Co Publishers	Image pg. A128
	Anderson Esther D Mrs	R.L. Polk Co Publishers	Image pg. A128
	Matson Walter W mgr	R.L. Polk Co Publishers	Image pg. A128

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Parkin Wm S	R.L. Polk Co Publishers	Image pg. A102
1951	Vacant	R.L. Polk Co Publishers	Image pg. A147
1944	Grant Jas C	R. L. Polk & Co.	Image pg. A160

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Grant J Chas	R.L. Polk Co publishers	Image pg. A173
1930	Luke J contr	R.L. Polk Co Publishers	
	Mc Lucius G Martha auditor State of Wash	R.L. Polk Co Publishers	
	Ehrich Elma L furrier Emma Giltzow r	R.L. Polk Co Publishers	
1925	Luke J contr	R.L. Polk Co Publishers	
	Mc Jas W Virginia A	R.L. Polk Co Publishers	
	Mc Ellen L wid Luke H h	R.L. Polk Co Publishers	
1920	SMITH Frank r	R.L. Polk Co Publishers	
	Mc Mary G tchr r	R.L. Polk Co Publishers	
	Mc Luke J gen contr r	R.L. Polk Co Publishers	
	Mc Ellen L wid Luke H h	R.L. Polk Co Publishers	
	Ehrich Elma L furwkr r	R.L. Polk Co Publishers	
	Erich Elma smstrs r	R.L. Polk Co Publishers	

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	A 1 Harrison Gladys	R.L. Polk Co Publishers	Image pg. A102
	A 2 Hattam Diane	R.L. Polk Co Publishers	Image pg. A102
	A 3 Lisowski Ed	R.L. Polk Co Publishers	Image pg. A102
	A 4 Vacant	R.L. Polk Co Publishers	Image pg. A102
	A 5 Zaiss Martha Mrs A AT	R.L. Polk Co Publishers	Image pg. A102
	A 6 Schaal Nina Mrs	R.L. Polk Co Publishers	Image pg. A102
	A 7 Sullivan Burrell C A AT	R.L. Polk Co Publishers	Image pg. A102
	A 9 Buseman Mary Ann BI Tracey Richd A AT	R.L. Polk Co Publishers	Image pg. A102
	B 2 Rea Lenore Mrs A AT	R.L. Polk Co Publishers	Image pg. A102
	B 3 Linstrom Emma Mrs A AT	R.L. Polk Co Publishers	Image pg. A102
	B 4 Meisnest Fred	R.L. Polk Co Publishers	Image pg. A102
	B 5 Wanless Walter M A AT	R.L. Polk Co Publishers	Image pg. A102
	B 6 Hampton Otis	R.L. Polk Co Publishers	Image pg. A102
	B 7 Stewart Richd N	R.L. Polk Co Publishers	Image pg. A102
	De La Mar Apartments	R.L. Polk Co Publishers	Image pg. A102
	D 9 Murphy Marlene A AT	R.L. Polk Co Publishers	Image pg. A102
	D 10 Vacant	R.L. Polk Co Publishers	Image pg. A102
	E 1 Philips Horace G	R.L. Polk Co Publishers	Image pg. A102
	E 2 Higgenils Lillian Mrs	R.L. Polk Co Publishers	Image pg. A102
	E 3 Hanson Gordon	R.L. Polk Co Publishers	Image pg. A102
	B 8 Zimmerman Alvin R A AT	R.L. Polk Co Publishers	Image pg. A102
	C 1 OBrien Ethel	R.L. Polk Co Publishers	Image pg. A102

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	C 2 Finken Marie E A AT	R.L. Polk Co Publishers	Image pg. A102
	C 3 Saito Moriya A AT	R.L. Polk Co Publishers	Image pg. A102
	C 4 Paigette Jacques A AT	R.L. Polk Co Publishers	Image pg. A102
	C 5 Baker Leroy O A AT	R.L. Polk Co Publishers	Image pg. A102
	C 6 Vacant	R.L. Polk Co Publishers	Image pg. A102
	C 7 Saiki Naota	R.L. Polk Co Publishers	Image pg. A102
	C 8 Dolan Wm	R.L. Polk Co Publishers	Image pg. A102
	C 9 Rued Gail P Mrs	R.L. Polk Co Publishers	Image pg. A102
	C 10 OLeary Thos	R.L. Polk Co Publishers	Image pg. A102
	D 1 Boos Beatrice C Mrs A AT	R.L. Polk Co Publishers	Image pg. A102
	D 2 Butler Billy D A AT	R.L. Polk Co Publishers	Image pg. A102
	D 3 Vacant	R.L. Polk Co Publishers	Image pg. A102
	D 4 Keenan Barbara A AT	R.L. Polk Co Publishers	Image pg. A102
	D 5 Laase Ed	R.L. Polk Co Publishers	Image pg. A102
	D 6 Lynch Joe H A AT	R.L. Polk Co Publishers	Image pg. A102
	D 7 Starr David	R.L. Polk Co Publishers	Image pg. A102
	D 8 Vacant	R.L. Polk Co Publishers	Image pg. A102
1955	A 6 Saito Morlya	R.L. Polk Co Publishers	Image pg. A128
	A 7 8 Vacant	R.L. Polk Co Publishers	Image pg. A128
	A 9 Murray MA Mrs	R.L. Polk Co Publishers	Image pg. A128
	B 1 Vacant	R.L. Polk Co Publishers	Image pg. A128
	B 2 Lundy Margt MI	R.L. Polk Co Publishers	Image pg. A128
	B 3 Yankowitz F J	R.L. Polk Co Publishers	Image pg. A128
	B 4 Stair Herbert F	R.L. Polk Co Publishers	Image pg. A128
	B 5 Wanless Walter MI	R.L. Polk Co Publishers	Image pg. A128
	B 6 Miller Marie G Mrs	R.L. Polk Co Publishers	Image pg. A128
	B 17 Stewart Richd N	R.L. Polk Co Publishers	Image pg. A128
	B 8 Hasegawa Yoshinabu mgr	R.L. Polk Co Publishers	Image pg. A128
	Cl Smith Frances L	R.L. Polk Co Publishers	Image pg. A128
	C 2 Reynolds B Mirs	R.L. Polk Co Publishers	Image pg. A128
	C 3 Smith Lots A	R.L. Polk Co Publishers	Image pg. A128
	C 4 La Caze Georgia Mrs	R.L. Polk Co Publishers	Image pg. A128
	C 5 Baker Leroy	R.L. Polk Co Publishers	Image pg. A128
	C 6 Miurray A M	R.L. Polk Co Publishers	Image pg. A128
	C 7 Briggs Paul	R.L. Polk Co Publishers	Image pg. A128
	C 8 Cornelius Betty	R.L. Polk Co Publishers	Image pg. A128
	De La Mar Apartments	R.L. Polk Co Publishers	Image pg. A128
A Moye Russell B	R.L. Polk Co Publishers	Image pg. A128	

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	A 2 Woodford John	R.L. Polk Co Publishers	Image pg. A128
	A 3 Horner Lucille E Mrs	R.L. Polk Co Publishers	Image pg. A128
	A 4 Hughes Jas	R.L. Polk Co Publishers	Image pg. A128
	AS Rosenstrom Reino V	R.L. Polk Co Publishers	Image pg. A128
	C 9 Myers Bennie G	R.L. Polk Co Publishers	Image pg. A128
	DI Boos Beatrice C Mirs	R.L. Polk Co Publishers	Image pg. A128
	D 2 Sunde Ivar	R.L. Polk Co Publishers	Image pg. A128
	D 3 Wasson Joan	R.L. Polk Co Publishers	Image pg. A128
	D 4 Hocikett Ethel L Mrs	R.L. Polk Co Publishers	Image pg. A128
	D 5 White Olwe Mrs	R.L. Polk Co Publishers	Image pg. A128
	D 6 Ireland Margt J Mrs	R.L. Polk Co Publishers	Image pg. A128
	D 7 Grant Wanda J	R.L. Polk Co Publishers	Image pg. A128
	1D 8 Blachtel Evelyn C Mirs	R.L. Polk Co Publishers	Image pg. A128
	DO Mylet Gertrude C	R.L. Polk Co Publishers	Image pg. A128
	D 10 Rice Myrtle M Mrs	R.L. Polk Co Publishers	Image pg. A128
	EI Phillips Horace G	R.L. Polk Co Publishers	Image pg. A128
	E 2 Miller Clifford L	R.L. Polk Co Publishers	Image pg. A128
	E 3 Davis H A	R.L. Polk Co Publishers	Image pg. A128
	d av W intersects	R.L. Polk Co Publishers	Image pg. A128
	1951	Curry Marie G	R.L. Polk Co Publishers
Dodson Wm AL 8 C		R.L. Polk Co Publishers	Image pg. A147
Donohue T F GA		R.L. Polk Co Publishers	Image pg. A147
Foloy M S Mrs AL		R.L. Polk Co Publishers	Image pg. A147
Fraser C B AL		R.L. Polk Co Publishers	Image pg. A147
Grant Helen JT AL		R.L. Polk Co Publishers	Image pg. A147
Grant W J Mrs AL		R.L. Polk Co Publishers	Image pg. A147
Hegwine Alma L AL		R.L. Polk Co Publishers	Image pg. A147
Kallander G 3 AL		R.L. Polk Co Publishers	Image pg. A147
Jacoblson L L AL		R.L. Polk Co Publishers	Image pg. A147
Kelley F G AL		R.L. Polk Co Publishers	Image pg. A147
Lants Joyce M 1 AL		R.L. Polk Co Publishers	Image pg. A147
Jdanini Marin B AL 8 S		R.L. Polk Co Publishers	Image pg. A147
Manus W R jr AL G		R.L. Polk Co Publishers	Image pg. A147
Dela Mar Apartments		R.L. Polk Co Publishers	Image pg. A147
Achats Marat Mrs GA		R.L. Polk Co Publishers	Image pg. A147
Backlund C V GA 6 S&7		R.L. Polk Co Publishers	Image pg. A147
Bailey A F		R.L. Polk Co Publishers	Image pg. A147
Baker L 0 GA		R.L. Polk Co Publishers	Image pg. A147

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Banll B Mrs GA	R.L. Polk Co Publishers	Image pg. A147
	Cannell E D GA	R.L. Polk Co Publishers	Image pg. A147
	Croglhan B D GA	R.L. Polk Co Publishers	Image pg. A147
	Marquette Lucille AL	R.L. Polk Co Publishers	Image pg. A147
	Merrlainen Geo GA	R.L. Polk Co Publishers	Image pg. A147
	Mylet Gertrude C AL	R.L. Polk Co Publishers	Image pg. A147
	Norton D C AL	R.L. Polk Co Publishers	Image pg. A147
	ODristoll Freda Mrs	R.L. Polk Co Publishers	Image pg. A147
	Randa Werner GA OG	R.L. Polk Co Publishers	Image pg. A147
	Routh N WV AL	R.L. Polk Co Publishers	Image pg. A147
	Wanlees WV M GA	R.L. Polk Co Publishers	Image pg. A147
	esterlund E K Mrs GA	R.L. Polk Co Publishers	Image pg. A147
1944	De La Mar Apartments	R. L. Polk & Co.	Image pg. A160
	Randa Werner mgr	R. L. Polk & Co.	Image pg. A160
1940	Magee Regina M Mrs	R.L. Polk Co publishers	Image pg. A173
	Malchester Helen	R.L. Polk Co publishers	Image pg. A173
	Markwell Bert	R.L. Polk Co publishers	Image pg. A173
	Meador Robt B	R.L. Polk Co publishers	Image pg. A173
	Nettleton Alice L	R.L. Polk Co publishers	Image pg. A173
	Newth Arth W	R.L. Polk Co publishers	Image pg. A173
	Rumburg Rae Mrs	R.L. Polk Co publishers	Image pg. A173
	Shoemaker Sami W	R.L. Polk Co publishers	Image pg. A173
	Shorrock Harold	R.L. Polk Co publishers	Image pg. A173
	Simpsoni Jennie L Mrs	R.L. Polk Co publishers	Image pg. A173
	Singleton Jos L	R.L. Polk Co publishers	Image pg. A173
	Smith Herman	R.L. Polk Co publishers	Image pg. A173
	Stoke Laura Mrs	R.L. Polk Co publishers	Image pg. A173
	Talen Don E	R.L. Polk Co publishers	Image pg. A173
	Delamar Apartments	R.L. Polk Co publishers	Image pg. A173
	Ritscher John F mgr	R.L. Polk Co publishers	Image pg. A173
	Asbury Harry L	R.L. Polk Co publishers	Image pg. A173
	Barada Richd E	R.L. Polk Co publishers	Image pg. A173
	Barcus Mae Mrs	R.L. Polk Co publishers	Image pg. A173
	Bartlett J Mrs	R.L. Polk Co publishers	Image pg. A173
Bateman Edwin J	R.L. Polk Co publishers	Image pg. A173	
Bergen H William	R.L. Polk Co publishers	Image pg. A173	
Bower Mima	R.L. Polk Co publishers	Image pg. A173	
Brannon Arth D	R.L. Polk Co publishers	Image pg. A173	

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1940	Buse Aug R	R.L. Polk Co publishers	Image pg. A173
	Carlin Glen A	R.L. Polk Co publishers	Image pg. A173
	Cason Zack T	R.L. Polk Co publishers	Image pg. A173
	Culp Billie Mrs	R.L. Polk Co publishers	Image pg. A173
	Culver Severina Mrs	R.L. Polk Co publishers	Image pg. A173
	Ferry E Mrs	R.L. Polk Co publishers	Image pg. A173
	Gardo Jos	R.L. Polk Co publishers	Image pg. A173
	Haines Harry A	R.L. Polk Co publishers	Image pg. A173
	Haw May E Mrs	R.L. Polk Co publishers	Image pg. A173
	Hopper Leslie A	R.L. Polk Co publishers	Image pg. A173
	Houtaker Bertha Mrs	R.L. Polk Co publishers	Image pg. A173
	Krause Wm H	R.L. Polk Co publishers	Image pg. A173
	Krows Ralph	R.L. Polk Co publishers	Image pg. A173
Lawrence Willis	R.L. Polk Co publishers	Image pg. A173	
1935	Allen Randolph Thelma caretkr Delamar Apts h	R.L. Polk Co Publishers	
	Andrew Arch Erickson & Anderson h	R.L. Polk Co Publishers	
	ANDERSON Mildred V tchr r	R.L. Polk Co Publishers	
	ANDERSON Peter G Olive h	R.L. Polk Co Publishers	
	CARPENTER Fred H Ruth C h	R.L. Polk Co Publishers	
	CARPENTER Fredk C stdt r	R.L. Polk Co Publishers	
	Ronald A Alice F h	R.L. Polk Co Publishers	
	CASE	R.L. Polk Co Publishers	
	Elkins Beatrice Mrs h	R.L. Polk Co Publishers	
	Fay Jean reporter P I r	R.L. Polk Co Publishers	
	Walters Ainsworth K sec treas Sanito Mop Co Inc h	R.L. Polk Co Publishers	
	WALTERS Henry R appr Associated Electric & Machinery Co r	R.L. Polk Co Publishers	
	Ferry Dani H r	R.L. Polk Co Publishers	
	Gardo Jos h	R.L. Polk Co Publishers	
	GIBSON Jas H Vina eng h	R.L. Polk Co Publishers	
	Lindman Mildred G dom	R.L. Polk Co Publishers	
	Mac Helen h	R.L. Polk Co Publishers	
	Plummer Fannie C wid Fremont C h	R.L. Polk Co Publishers	
	REYNOLDS Eliz wid Francis J r	R.L. Polk Co Publishers	
	Roley Mabel bkpr WMBC r	R.L. Polk Co Publishers	
Richd h	R.L. Polk Co Publishers		
Rueger Chas V Maude h	R.L. Polk Co Publishers		
Rueger Maude elk RDS r	R.L. Polk Co Publishers		

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<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Al Mayme eng h	R.L. Polk Co Publishers
	Walters Ainsworth K sec treas Sanito Mop Co Inc h	R.L. Polk Co Publishers
	Al jr electn r	R.L. Polk Co Publishers
1930	ALLISON Wm B commdr USNR	R.L. Polk Co Publishers
	Wm J Myrtle mech h	R.L. Polk Co Publishers
	Co h	R.L. Polk Co Publishers
	Glennan Gaynelle Mrs wtrs Walter E Cadman h	R.L. Polk Co Publishers
	Harrison Dave B hi	R.L. Polk Co Publishers
	Hutton Arth F Ellen mach WT&BCo h	R.L. Polk Co Publishers
	Locknane Charlotte M solr P I h	R.L. Polk Co Publishers
Mac Evan J Nolia chkr h	R.L. Polk Co Publishers	
1925	Roy Benj J Rafaela violinmkr 1612	R.L. Polk Co Publishers
	r	R.L. Polk Co Publishers
	Spaulding Fred E janitor r	R.L. Polk Co Publishers
	STANLEY Wilfred P phys	R.L. Polk Co Publishers
	Delaloye Apartments	R.L. Polk Co Publishers
	Fowler David P Dottie D dep colr USIR h Cl	R.L. Polk Co Publishers
	HINTON Florence Mrs r	R.L. Polk Co Publishers
1920	Clayton Edith I bkpr Seattle Custom Garment Mkrs r	R.L. Polk Co Publishers
	Cluff	R.L. Polk Co Publishers
	Delamar Apartments	R.L. Polk Co Publishers
	Driese Edwd R mgr Territory Fish & Pkg Co r	R.L. Polk Co Publishers
	Forbes Elbert H Mildred salsn Fahey Brockman h Di	R.L. Polk Co Publishers
	Harrah Wm S Helen M h Al	R.L. Polk Co Publishers
	Long Thos D Josephine Shepard & Long h	R.L. Polk Co Publishers
	SMITHIBrea Maud clk F PCo r	R.L. Polk Co Publishers
	Turrell	R.L. Polk Co Publishers

### OLYMPIC PL E

#### 115 OLYMPIC PL E

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	GREGORY Jas h	R.L. Polk Co Publishers

## FINDINGS

### OLYMPIC WAY

#### 100 OLYMPIC WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	GRAY Genevieve Mrs beauty opr M&SCo r	R.L. Polk Co Publishers

#### 101 OLYMPIC WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Corson Byron r	R.L. Polk Co Publishers

#### 115 OLYMPIC WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Antrim Oscar C Helen radio opr h	R.L. Polk Co Publishers
	Ober Eliz K nurse City Health Dept h	R.L. Polk Co Publishers
1925	SMITH Frank E Maud slsmn h	R.L. Polk Co Publishers
	LEE Nels Mabel fishermn h El	R.L. Polk Co Publishers
1920	Clarke Archer B Maude M mgr Hydraulic Equipment Co h	R.L. Polk Co Publishers
	Grover Helen elk F N r	R.L. Polk Co Publishers

### OTTE M PUGILIST H 105 MERCER St

#### 1 OTTE M PUGILIST H 105 MERCER St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Payne Cecil C Char	R.L. Polk Co Publishers

### OTTE R BKPR H 621 1ST AVE W

#### 1 OTTE R BKPR H 621 1ST AVE W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Edgar Everett E Char	R.L. Polk Co Publishers

### P SKAGGS SYSTEM R 20 W ROY St

#### 0 P SKAGGS SYSTEM R 20 W ROY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Willes Wm H br mgr	R.L. Polk Co Publishers

## FINDINGS

### **PLSTR H 115 OLYMPIC St**

#### **0 PLSTR H 115 OLYMPIC St**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Greenwood Frank Frances	R.L. Polk Co Publishers

### **PRAIRIE MBCO R 119 W ROY St**

#### **1 PRAIRIE MBCO R 119 W ROY St**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Christian Edgar A h	R.L. Polk Co Publishers

### **PRAIRIE TDD R 115 OLYMPIC PL**

#### **1 PRAIRIE TDD R 115 OLYMPIC PL**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Copeland Harold C h	R.L. Polk Co Publishers

### **PRAIRIE WILDWOOD DAIRY R 608 1 AVE N**

#### **1 PRAIRIE WILDWOOD DAIRY R 608 1 AVE N**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	ERICKSON Willis E h	R.L. Polk Co Publishers

### **QUEEN ANE AVE**

#### **600 QUEEN ANE AVE**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Hull Curtis verifier USC h	R.L. Polk Co Publishers

### **QUEEN ANINE AV R St**

#### **619 QUEEN ANINE AV R St**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Hartman Holger C barber	R.L. Polk Co Publishers

### **Queen Anne 1024 St**

#### **21 Queen Anne 1024 St**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Mc DERMOTT PRANK Pres The Bon	R.L. Polk Co Publishers

## FINDINGS

### Queen Anne apt 307 St

#### 13 Queen Anne apt 307 St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Burton Harold G Almeda restr	R.L. Polk Co Publishers

### Queen Anne Av Tel Queen Anne 2000 St

#### 17 Queen Anne Av Tel Queen Anne 2000 St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	AUGUSTINE	R.L. Polk Co Publishers

### Queen Anne av apt 104

#### 615 Queen Anne av apt 104

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	WRIGHT Jas W Gerda Wright Music Co h 1428	R.L. Polk Co Publishers

### Queen Anne av apt 106

#### 731 Queen Anne av apt 106

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Gruber Alta M Mrs Queen Anne Pet Shop h 600	R.L. Polk Co Publishers

### Queen Anne av apt 107 St

#### 1 Queen Anne av apt 107 St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Bernier Ear	R.L. Polk Co Publishers

### Queen Anne av apt 110 St

#### 11 Queen Anne av apt 110 St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	LANG Ernest Ragnhild S eng Marqueen Apts h 600	R.L. Polk Co Publishers

## FINDINGS

### Queen Anne av apt 205

#### 621 Queen Anne av apt 205

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Russell Claire L wid Fred C smstrs F&N h 1305	R.L. Polk Co Publishers

### Queen Anne av apt 309 St

#### 1 Queen Anne av apt 309 St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Mapes Darrell E formn Adhesive Products Co r 600	R.L. Polk Co Publishers

### Queen Anne av apt 407 St

#### 1 Queen Anne av apt 407 St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Mayfair Kath	R.L. Polk Co Publishers

### QUEEN ANNE AV CLK IN CHGE F T St

#### 35 QUEEN ANNE AV CLK IN CHGE F T St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	UNITED STATES ningham	R.L. Polk Co Publishers R.L. Polk Co Publishers

### QUEEN ANNE AV TEL QUEEN ANNE St

#### 822 QUEEN ANNE AV TEL QUEEN ANNE St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	CASSEILS ANGUS W ELIZABETH B	R.L. Polk Co Publishers

### QUEEN ANNE AVE

#### 0 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	GLOVER Chas	R.L. Polk Co Publishers

#### 1 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Alice F	R.L. Polk Co Publishers
	Holby Fred fisherinn r	R.L. Polk Co Publishers

## FINDINGS

### 3 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Swanson Wm A	R.L. Polk Co Publishers	Image pg. A131

### 4 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Roeschley Howard S	R.L. Polk Co Publishers	Image pg. A131

### 5 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Mathiss Gould G	R.L. Polk Co Publishers	Image pg. A131
	Sanvig Alice M Mrs	R.L. Polk Co Publishers	Image pg. A131

### 6 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	SIKrueger Adeline	R.L. Polk Co Publishers	Image pg. A131
	Whitney Chester C	R.L. Polk Co Publishers	Image pg. A131

### 7 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Martin Lloyd W	R.L. Polk Co Publishers	Image pg. A131

### 8 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Gabrielson Eliz E Mrs	R.L. Polk Co Publishers	Image pg. A131
	Meek Leslie L	R.L. Polk Co Publishers	Image pg. A131
	Stokes Emmia J Mrs	R.L. Polk Co Publishers	Image pg. A131
	III Tuttle Clyde	R.L. Polk Co Publishers	Image pg. A131
	Street continued	R.L. Polk Co Publishers	Image pg. A131
	Vacant	R.L. Polk Co Publishers	Image pg. A131
	Harvey Alonzo M	R.L. Polk Co Publishers	Image pg. A131
	Platt Virginia B Mrs	R.L. Polk Co Publishers	Image pg. A131

### 11 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Si Dockery Jas C	R.L. Polk Co Publishers	Image pg. A129

### 13 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1925	FOX Reeves lab h	R.L. Polk Co Publishers	

## FINDINGS

### 15 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Adeles Drapery Shop	R.L. Polk Co Publishers	Image pg. A130

### 60 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	PARRY Howell Beatrice M lab r	R.L. Polk Co Publishers
	Hugh electn TDD r	R.L. Polk Co Publishers

### 567 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	JONES Thos E Pearl P contr	R.L. Polk Co Publishers

### 600 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Rowland Eug J	R.L. Polk Co Publishers	Image pg. A111
	Gracia Lola A	R.L. Polk Co Publishers	Image pg. A111
	Vacant	R.L. Polk Co Publishers	Image pg. A111
	Lang Ida L	R.L. Polk Co Publishers	Image pg. A111
	Miller Ward W	R.L. Polk Co Publishers	Image pg. A111
	Ross Walter C	R.L. Polk Co Publishers	Image pg. A111
	Lundquist Mae I Mrs altera	R.L. Polk Co Publishers	Image pg. A111
	tions	R.L. Polk Co Publishers	Image pg. A111
	Mc Farlane Wilfred S	R.L. Polk Co Publishers	Image pg. A111
	Me Millan Donald J	R.L. Polk Co Publishers	Image pg. A111
	Banas Michl G	R.L. Polk Co Publishers	Image pg. A111
	Berkman Fannie Mrs	R.L. Polk Co Publishers	Image pg. A111
	Bernier John L	R.L. Polk Co Publishers	Image pg. A111
	Heath Eleanor Mrs	R.L. Polk Co Publishers	Image pg. A111
	Johnson Mabel E	R.L. Polk Co Publishers	Image pg. A111
	Kyler Herschel I	R.L. Polk Co Publishers	Image pg. A111
	Mc Guern Walter W	R.L. Polk Co Publishers	Image pg. A111
	Fransen Chas T	R.L. Polk Co Publishers	Image pg. A111
	Johnston Alex	R.L. Polk Co Publishers	Image pg. A111
	Ketchum Karma J	R.L. Polk Co Publishers	Image pg. A111
	Hamilton Coleen Mrs	R.L. Polk Co Publishers	Image pg. A111
	Brown Patk	R.L. Polk Co Publishers	Image pg. A111
	Glantz Conrad	R.L. Polk Co Publishers	Image pg. A111
	Huber Verna M	R.L. Polk Co Publishers	Image pg. A111
	Frajole Earl	R.L. Polk Co Publishers	Image pg. A111

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	De Muth Edyth Mrs	R.L. Polk Co Publishers	Image pg. A111
	Harrigan Gerald J	R.L. Polk Co Publishers	Image pg. A111
	Clein Sam R	R.L. Polk Co Publishers	Image pg. A111
	Brockmeyer Adel as	R.L. Polk Co Publishers	Image pg. A111
	Bartel Elmer H	R.L. Polk Co Publishers	Image pg. A111
	Madden Esther A	R.L. Polk Co Publishers	Image pg. A111
	Fields Daisy A Mrs	R.L. Polk Co Publishers	Image pg. A111
	Johnson Marian M	R.L. Polk Co Publishers	Image pg. A111
	Mc Kay Martha Mrs	R.L. Polk Co Publishers	Image pg. A111
	Winge Edw T	R.L. Polk Co Publishers	Image pg. A111
	Mac Donald Helen L Mrs	R.L. Polk Co Publishers	Image pg. A111
	Cox Lester E	R.L. Polk Co Publishers	Image pg. A111
	Hancock Joan O Mrs	R.L. Polk Co Publishers	Image pg. A111
	Richhelmer Milton	R.L. Polk Co Publishers	Image pg. A111
	Weibber Ruby C	R.L. Polk Co Publishers	Image pg. A111
	09 Dimetroff Kay	R.L. Polk Co Publishers	Image pg. A111
	Hodges Elsie Al Mrs	R.L. Polk Co Publishers	Image pg. A111
	Rhodes Bert H	R.L. Polk Co Publishers	Image pg. A111
	Vacant	R.L. Polk Co Publishers	Image pg. A111
	Nordstrom Kurt A	R.L. Polk Co Publishers	Image pg. A111
	Stead Gladys L	R.L. Polk Co Publishers	Image pg. A111
	Gresham Thos D	R.L. Polk Co Publishers	Image pg. A111
	Brandt Mae Mrs	R.L. Polk Co Publishers	Image pg. A111
	OHara Evelyn R	R.L. Polk Co Publishers	Image pg. A111
	Vacant	R.L. Polk Co Publishers	Image pg. A111
	Lynch Ada Mrs	R.L. Polk Co Publishers	Image pg. A111
	Voris G	R.L. Polk Co Publishers	Image pg. A111
	Sims H	R.L. Polk Co Publishers	Image pg. A111
	Hunt Trtessa E Mrs	R.L. Polk Co Publishers	Image pg. A111
	Buhler Bertha MI Mrs	R.L. Polk Co Publishers	Image pg. A111
	Street continued	R.L. Polk Co Publishers	Image pg. A111
	Marqueen Apartments	R.L. Polk Co Publishers	Image pg. A111
	Bragonier Lloyd C mgr	R.L. Polk Co Publishers	Image pg. A111
	Mc Lauhlin Helen L Mrs	R.L. Polk Co Publishers	Image pg. A111
	Ralph Albia M Mrs	R.L. Polk Co Publishers	Image pg. A111
	Jandl & Pierce aocits	R.L. Polk Co Publishers	Image pg. A111
	Millar Ann Mirs	R.L. Polk Co Publishers	Image pg. A111
	Kalland Manfred I dentist	R.L. Polk Co Publishers	Image pg. A111

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Gilchrist Harry T	R.L. Polk Co Publishers	Image pg. A111
	Hornsby Jane MArS	R.L. Polk Co Publishers	Image pg. A111
	Vacant	R.L. Polk Co Publishers	Image pg. A111
	Poplack Ida Mrs	R.L. Polk Co Publishers	Image pg. A111
	Hustwayte Geoffrey	R.L. Polk Co Publishers	Image pg. A111
	Powell Anna M Mrs	R.L. Polk Co Publishers	Image pg. A111
	Leonard Ethel L Mrs	R.L. Polk Co Publishers	Image pg. A111
	Mefford Mae	R.L. Polk Co Publishers	Image pg. A111
1951	Marqueen Apartments	R.L. Polk Co Publishers	Image pg. A143
	Applegate H V	R.L. Polk Co Publishers	Image pg. A143
	Banas M G AL	R.L. Polk Co Publishers	Image pg. A143
	Burrell `W I I	R.L. Polk Co Publishers	Image pg. A143
	Benedict C A AL	R.L. Polk Co Publishers	Image pg. A143
	Benedict L W GA	R.L. Polk Co Publishers	Image pg. A143
	Boner E E AL	R.L. Polk Co Publishers	Image pg. A143
	Bragonier L C GA	R.L. Polk Co Publishers	Image pg. A143
	Brockmeyer Adellas M	R.L. Polk Co Publishers	Image pg. A143
	AL 209 B	R.L. Polk Co Publishers	Image pg. A143
	Brown C R AL	R.L. Polk Co Publishers	Image pg. A143
	Brown P H	R.L. Polk Co Publishers	Image pg. A143
	Buhler B M Mrs AL	R.L. Polk Co Publishers	Image pg. A143
	Gilchrist H F AL	R.L. Polk Co Publishers	Image pg. A143
	Glantz Conrad	R.L. Polk Co Publishers	Image pg. A143
	Gracia L A Mrs GA	R.L. Polk Co Publishers	Image pg. A143
	Hansen Ann M AL	R.L. Polk Co Publishers	Image pg. A143
	Tarrigan G J AL	R.L. Polk Co Publishers	Image pg. A143
	Hawkins Karen S	R.L. Polk Co Publishers	Image pg. A143
	Heath Eleanor Mrs AL	R.L. Polk Co Publishers	Image pg. A143
	Horenstein Mollie AL	R.L. Polk Co Publishers	Image pg. A143
	Jackson E H Mrs GA	R.L. Polk Co Publishers	Image pg. A143
	James J R GA	R.L. Polk Co Publishers	Image pg. A143
	Jandl R P acct GA	R.L. Polk Co Publishers	Image pg. A143
	Johnson A M Mrs GA	R.L. Polk Co Publishers	Image pg. A143
	Johnson Mabel E AL	R.L. Polk Co Publishers	Image pg. A143
	Johnston Alex AL	R.L. Polk Co Publishers	Image pg. A143
	Kelly T F mfrs agt GA	R.L. Polk Co Publishers	Image pg. A143
Keyes Hannah Mrs	R.L. Polk Co Publishers	Image pg. A143	
Kyler H H GA	R.L. Polk Co Publishers	Image pg. A143	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Leonard E L	R.L. Polk Co Publishers	Image pg. A143
	Lundquist M I Mrs AL	R.L. Polk Co Publishers	Image pg. A143
	Lynch Ada Mrs	R.L. Polk Co Publishers	Image pg. A143
	Mac Donald H L Mrs AL	R.L. Polk Co Publishers	Image pg. A143
	Maher Ruth V AL	R.L. Polk Co Publishers	Image pg. A143
	Me Farlane Fredk AL	R.L. Polk Co Publishers	Image pg. A143
	Mc Guern W W AL	R.L. Polk Co Publishers	Image pg. A143
	Mc Kay N J AL	R.L. Polk Co Publishers	Image pg. A143
	Mc Laughlin J J	R.L. Polk Co Publishers	Image pg. A143
	Me Millan D J GA	R.L. Polk Co Publishers	Image pg. A143
	Nygren C G Mrs	R.L. Polk Co Publishers	Image pg. A143
	Nordstrom K A AL	R.L. Polk Co Publishers	Image pg. A143
	Ness Gena W	R.L. Polk Co Publishers	Image pg. A143
	OHara Evelyn R AL	R.L. Polk Co Publishers	Image pg. A143
	Palmatier J C	R.L. Polk Co Publishers	Image pg. A143
	Penix J W GA	R.L. Polk Co Publishers	Image pg. A143
	Poplack David AL	R.L. Polk Co Publishers	Image pg. A143
	Price Del AL	R.L. Polk Co Publishers	Image pg. A143
	Ralph A M Mrs	R.L. Polk Co Publishers	Image pg. A143
	Richheimer Frances J	R.L. Polk Co Publishers	Image pg. A143
	Rhodes B H GA	R.L. Polk Co Publishers	Image pg. A143
	Shaffrath Paul lawyer	R.L. Polk Co Publishers	Image pg. A143
	Stanton V M Mrs	R.L. Polk Co Publishers	Image pg. A143
	Van Buskirk AL	R.L. Polk Co Publishers	Image pg. A143
	Clein Sam GA	R.L. Polk Co Publishers	Image pg. A143
	Cowling B B 3 Mrs	R.L. Polk Co Publishers	Image pg. A143
	Cox L E GA	R.L. Polk Co Publishers	Image pg. A143
	Douglas M XW AL	R.L. Polk Co Publishers	Image pg. A143
	Drabbs Ethel M AL	R.L. Polk Co Publishers	Image pg. A143
	Finn C L AL	R.L. Polk Co Publishers	Image pg. A143
	Garns Velma L A AL	R.L. Polk Co Publishers	Image pg. A143
1944	Marqueen Apartments	R. L. Polk & Co.	Image pg. A158
	Eastburg Philip S mgr	R. L. Polk & Co.	Image pg. A158
1935	Parry Cath slswn BAInc r	R.L. Polk Co Publishers	

### 601 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Price Less Stores drugs	R.L. Polk Co Publishers	Image pg. A111
1951	Price Less Drug Co GA	R.L. Polk Co Publishers	Image pg. A143

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Macks Watch Repr GA	R.L. Polk Co Publishers	Image pg. A143
1944	Prico Less Drugs	R. L. Polk & Co.	Image pg. A158

### 603 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Queen Anne Electric	R. L. Polk & Co.	Image pg. A158
	Bakery	R. L. Polk & Co.	Image pg. A158

### 605 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Ozzles Cafe	R.L. Polk Co Publishers	Image pg. A111
1951	Ring Grill restr AL	R.L. Polk Co Publishers	Image pg. A143

### 607 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Uptown Grocery	R. L. Polk & Co.	Image pg. A158

### 609 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Uptown Market meats	R. L. Polk & Co.	Image pg. A158

### 611 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Uptown Gro	R.L. Polk Co Publishers	Image pg. A111
	Uptown Mkt meats	R.L. Polk Co Publishers	Image pg. A111
1951	Uptown Meat Mkt GA	R.L. Polk Co Publishers	Image pg. A143
	Uptown Gro GA	R.L. Polk Co Publishers	Image pg. A143
1944	Store	R. L. Polk & Co.	Image pg. A158
	Il Uptown Five and Ten Cent	R. L. Polk & Co.	Image pg. A158

### 613 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Uptown Five and Ten varieties	R.L. Polk Co Publishers	Image pg. A111
1951	varieties AL	R.L. Polk Co Publishers	Image pg. A143
	Uptown Five and Ten	R.L. Polk Co Publishers	Image pg. A143
1944	Cabrel John shoe repr	R. L. Polk & Co.	Image pg. A158

### 615 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Eaton John Couturier mlrns	R.L. Polk Co Publishers	Image pg. A111
	Apartments	R.L. Polk Co Publishers	Image pg. A111

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>		
1955	Eaton John A	R.L. Polk Co Publishers	Image pg. A111	
	Neher Jas W	R.L. Polk Co Publishers	Image pg. A111	
	Smlth Mange	R.L. Polk Co Publishers	Image pg. A111	
	Hawkins Grace P Mrs	R.L. Polk Co Publishers	Image pg. A111	
	Erickson Clarence A	R.L. Polk Co Publishers	Image pg. A111	
	Hansen Josephine MI Mrs	R.L. Polk Co Publishers	Image pg. A111	
	Hurst Alla Mae Mrs	R.L. Polk Co Publishers	Image pg. A111	
	Zaiss Martha W Mrs	R.L. Polk Co Publishers	Image pg. A111	
	Pedlch Andrew	R.L. Polk Co Publishers	Image pg. A111	
	Chestnut John R	R.L. Polk Co Publishers	Image pg. A111	
	QUEEN ANNE AV Contd	R.L. Polk Co Publishers	Image pg. A111	
	Apartments Contd	R.L. Polk Co Publishers	Image pg. A111	
	Pinnell Mary Mrs	R.L. Polk Co Publishers	Image pg. A111	
	Emery Chas D	R.L. Polk Co Publishers	Image pg. A111	
1951	a 623a Lindbergh Apartments	R.L. Polk Co Publishers	Image pg. A111	
	b Averbeck Neubecker Realty	R.L. Polk Co Publishers	Image pg. A111	
	Browne F 10 AL	R.L. Polk Co Publishers	Image pg. A143	
	Chestnut J R AL	R.L. Polk Co Publishers	Image pg. A143	
	Curnett A R	R.L. Polk Co Publishers	Image pg. A143	
	Duet Andw AL	R.L. Polk Co Publishers	Image pg. A143	
	Emery C D GA	R.L. Polk Co Publishers	Image pg. A143	
	Fountain Rexford AL	R.L. Polk Co Publishers	Image pg. A143	
	Hansen Josephine M	R.L. Polk Co Publishers	Image pg. A143	
	Harris Ray AL	R.L. Polk Co Publishers	Image pg. A143	
	Hawkins Wallace AL	R.L. Polk Co Publishers	Image pg. A143	
	Hottinger E H	R.L. Polk Co Publishers	Image pg. A143	
	Queen Anne Hat Box	R.L. Polk Co Publishers	Image pg. A143	
	Stanford H R AL	R.L. Polk Co Publishers	Image pg. A143	
	Fermstrom R E	R.L. Polk Co Publishers	Image pg. A143	
	Wyatt W 0 GA	R.L. Polk Co Publishers	Image pg. A143	
	a 623a lindbergsh Apartments	R.L. Polk Co Publishers	Image pg. A143	
	b Averbeck Neubecker Realty Co AL	R.L. Polk Co Publishers	Image pg. A143	
	1944	A 23 A Lindbergh Apartments	R. L. Polk & Co.	Image pg. A158
		Dunseath John D mgr	R. L. Polk & Co.	Image pg. A158
BBetter Business Service		R. L. Polk & Co.	Image pg. A158	

## FINDINGS

### 617 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	b Underfoot Products Laby	R.L. Polk Co Publishers	Image pg. A111
	a Prime Beauty Shop	R.L. Polk Co Publishers	Image pg. A111
	orthopedic appliances	R.L. Polk Co Publishers	Image pg. A111
1951	Vacant	R.L. Polk Co Publishers	Image pg. A143
	Prime Beauty Shop GA	R.L. Polk Co Publishers	Image pg. A143
1944	B Queen Anne Record Shop	R. L. Polk & Co.	Image pg. A158
	Prime Beauty Shop	R. L. Polk & Co.	Image pg. A158

### 619 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Hanko Gift Shop The	R.L. Polk Co Publishers	Image pg. A111
1951	Plymouth Card & Gift Shop	R.L. Polk Co Publishers	Image pg. A143
1944	Kopland F Mrs art gds	R. L. Polk & Co.	Image pg. A158

### 621 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	You Chan	R.L. Polk Co Publishers	Image pg. A111
	Uptown Lndry hand	R.L. Polk Co Publishers	Image pg. A111
1951	Uptown Lndy GA	R.L. Polk Co Publishers	Image pg. A143
	You Chan	R.L. Polk Co Publishers	Image pg. A143
1944	Wong Shek G	R. L. Polk & Co.	Image pg. A158
	You Chan	R. L. Polk & Co.	Image pg. A158
	Woo Lee Hand Laundry	R. L. Polk & Co.	Image pg. A158

### 623 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Diefenderfer Robt	R.L. Polk Co Publishers	Image pg. A111
	Rayne Kittie Mrs	R.L. Polk Co Publishers	Image pg. A111
	Wyatt Warren	R.L. Polk Co Publishers	Image pg. A111
	Edmonds Alf 0 A AL	R.L. Polk Co Publishers	Image pg. A111
	Moen Ivar 0 A AL	R.L. Polk Co Publishers	Image pg. A111
	Duet Armand A AL	R.L. Polk Co Publishers	Image pg. A111
	Joy Grace Mlrs	R.L. Polk Co Publishers	Image pg. A111
	Johnson Donald F	R.L. Polk Co Publishers	Image pg. A111
	Stanford Kenneth R	R.L. Polk Co Publishers	Image pg. A111
	Street continued	R.L. Polk Co Publishers	Image pg. A111
	Gray Max	R.L. Polk Co Publishers	Image pg. A111
	Leonard Shirley	R.L. Polk Co Publishers	Image pg. A111

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Ilickey Leona Mrs	R.L. Polk Co Publishers	Image pg. A111
	Mc Lean Jas A myopractor	R.L. Polk Co Publishers	Image pg. A111
	Stanford Florence Mrs mgr	R.L. Polk Co Publishers	Image pg. A111
	Apartments	R.L. Polk Co Publishers	Image pg. A111
1951	Scherer Joanne Mrs	R.L. Polk Co Publishers	Image pg. A143
	a Mc Conaghy Herbt AL	R.L. Polk Co Publishers	Image pg. A143
	Royne Kittlo Mrs	R.L. Polk Co Publishers	Image pg. A143
	Marino E J AL	R.L. Polk Co Publishers	Image pg. A143
	Joy Gracie U AL	R.L. Polk Co Publishers	Image pg. A143
	Higgins L 10 Mrs	R.L. Polk Co Publishers	Image pg. A143
	Fagan R J GA	R.L. Polk Co Publishers	Image pg. A143
	Ewing E J Mrs	R.L. Polk Co Publishers	Image pg. A143
1944	Dunseath Don	R. L. Polk & Co.	Image pg. A158
	United Service Co repr shlop	R. L. Polk & Co.	Image pg. A158
	Lindberg Apartments	R. L. Polk & Co.	Image pg. A158

### 629 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Mc Cartys Home Auto Sup	R.L. Polk Co Publishers	Image pg. A143
	Co auto accessories	R.L. Polk Co Publishers	Image pg. A143
1944	Acme Cleaners dclo prsrs	R. L. Polk & Co.	Image pg. A158

### 700 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Mc Kales Corp br gas sta	R.L. Polk Co Publishers	Image pg. A111
1951	Mcrales Inc gas sta	R.L. Polk Co Publishers	Image pg. A143
1944	Mc Kales Inc No 7 gas sta	R. L. Polk & Co.	Image pg. A158

### 720 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Thompson G E AL	R.L. Polk Co Publishers	Image pg. A143
	Mand AI Apartments	R.L. Polk Co Publishers	Image pg. A143
	Johnson Robt	R.L. Polk Co Publishers	Image pg. A143
	Kurz V G Mrs AL	R.L. Polk Co Publishers	Image pg. A143
	Mefford Mae	R.L. Polk Co Publishers	Image pg. A143
	Molony D C AL	R.L. Polk Co Publishers	Image pg. A143
	Morrison Corinna AL	R.L. Polk Co Publishers	Image pg. A143
	Morrison G 0 jr AL	R.L. Polk Co Publishers	Image pg. A143
	Morri Eon H 0 Ci A	R.L. Polk Co Publishers	Image pg. A143

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Reid H R AL	R.L. Polk Co Publishers	Image pg. A143
	Reynolds V R GA	R.L. Polk Co Publishers	Image pg. A143
	Scogin A M Mrs AL	R.L. Polk Co Publishers	Image pg. A143
1944	Mandal Apartments	R. L. Polk & Co.	Image pg. A158
	Morrison Howell O mgr	R. L. Polk & Co.	Image pg. A158
1930	Hart Dorothy r	R.L. Polk Co Publishers	
	HART Lucy E Mrs h	R.L. Polk Co Publishers	

### 729 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	I ller Rosemary	R.L. Polk Co Publishers	Image pg. A111
	Bryan Mildred	R.L. Polk Co Publishers	Image pg. A111
	Grant Jas H	R.L. Polk Co Publishers	Image pg. A111
	Foster Carroll B	R.L. Polk Co Publishers	Image pg. A111
	Cham berlain Phyllis	R.L. Polk Co Publishers	Image pg. A111
	Larroche Donald F	R.L. Polk Co Publishers	Image pg. A111
	Poole Hilda Mrs	R.L. Polk Co Publishers	Image pg. A111
	Willis Apartments	R.L. Polk Co Publishers	Image pg. A111
	B 1 Houston Nancy	R.L. Polk Co Publishers	Image pg. A111
	B 2 Plummer Willis A mgr	R.L. Polk Co Publishers	Image pg. A111
	Klaus Albert C	R.L. Polk Co Publishers	Image pg. A111
	Grimes Isadora M	R.L. Polk Co Publishers	Image pg. A111

### 809 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Kinnear Ohas A	R.L. Polk Co Publishers	Image pg. A111
1951	Kinnear C A GA	R.L. Polk Co Publishers	Image pg. A143
1944	Kinnear Chas A	R. L. Polk & Co.	Image pg. A158

### 812 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Berry Elmer P	R.L. Polk Co Publishers	Image pg. A111
1951	Berry B P O AL	R.L. Polk Co Publishers	Image pg. A143
1944	Westoby Wm P lodgings	R. L. Polk & Co.	Image pg. A158

### 819 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Kinnear Geo C	R.L. Polk Co Publishers	Image pg. A111
1951	Rinnear G C AL	R.L. Polk Co Publishers	Image pg. A143

## FINDINGS

### 822 QUEEN ANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Castle Court Apartments	R.L. Polk Co Publishers	Image pg. A111
	West Esther B Mrs mgr	R.L. Polk Co Publishers	Image pg. A111
	Woolsey M 3ae H	R.L. Polk Co Publishers	Image pg. A111
	Klingback Martha B Mrs	R.L. Polk Co Publishers	Image pg. A111
	Hartney Ruth H	R.L. Polk Co Publishers	Image pg. A111
	Sandvold Christine P Mrs	R.L. Polk Co Publishers	Image pg. A111
	Benson Edna D Mrs	R.L. Polk Co Publishers	Image pg. A111
	2 West Logan	R.L. Polk Co Publishers	Image pg. A111
	Bradshaw Thos	R.L. Polk Co Publishers	Image pg. A111
	Bateman Erma E	R.L. Polk Co Publishers	Image pg. A111
	Meyers La Merne	R.L. Polk Co Publishers	Image pg. A111
	Michaud Hazel L	R.L. Polk Co Publishers	Image pg. A111
	Vacant	R.L. Polk Co Publishers	Image pg. A111
	Smith Thos	R.L. Polk Co Publishers	Image pg. A111
	Putnam Ellis B	R.L. Polk Co Publishers	Image pg. A111
	Holley Lorraine	R.L. Polk Co Publishers	Image pg. A111
	Coleman Rovia Mrs	R.L. Polk Co Publishers	Image pg. A111
	Caldwell David F	R.L. Polk Co Publishers	Image pg. A111
	Mehan Paul G	R.L. Polk Co Publishers	Image pg. A111
	Blanchi Kathryn Mrs	R.L. Polk Co Publishers	Image pg. A111
	Maller John B	R.L. Polk Co Publishers	Image pg. A111
	Cleveland Christine Mrs	R.L. Polk Co Publishers	Image pg. A111
	Moore Lillian Mrs	R.L. Polk Co Publishers	Image pg. A111
	Higgins Gracie M	R.L. Polk Co Publishers	Image pg. A111
Roberts Bernard B	R.L. Polk Co Publishers	Image pg. A111	
1951	Castle Court Apartments	R.L. Polk Co Publishers	Image pg. A143
	Amundson L M AL	R.L. Polk Co Publishers	Image pg. A143
	Brazier B H GA	R.L. Polk Co Publishers	Image pg. A143
	Caldwell D F GA	R.L. Polk Co Publishers	Image pg. A143
	Cleveland Christine Mrs	R.L. Polk Co Publishers	Image pg. A143
	Crim Iorothy M AL	R.L. Polk Co Publishers	Image pg. A143
	Coon W E GA	R.L. Polk Co Publishers	Image pg. A143
	Elder Eleanor J AL	R.L. Polk Co Publishers	Image pg. A143
	Glynn John AL	R.L. Polk Co Publishers	Image pg. A143
	Gauss J J AL 12 G	R.L. Polk Co Publishers	Image pg. A143
	Hadley Anne	R.L. Polk Co Publishers	Image pg. A143
	Jann A W AL	R.L. Polk Co Publishers	Image pg. A143

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Jessen L W AL	R.L. Polk Co Publishers	Image pg. A143
	Larson G N AL	R.L. Polk Co Publishers	Image pg. A143
	Little J M AL	R.L. Polk Co Publishers	Image pg. A143
	Mayberry R M AL	R.L. Polk Co Publishers	Image pg. A143
	Mehan P G GA	R.L. Polk Co Publishers	Image pg. A143
	Miller Thelma V GA	R.L. Polk Co Publishers	Image pg. A143
	Parsel Beth J AL	R.L. Polk Co Publishers	Image pg. A143
	Rasmussen V B AL	R.L. Polk Co Publishers	Image pg. A143
	Roberts B Z GA	R.L. Polk Co Publishers	Image pg. A143
	Schollmayer Marilyn GA	R.L. Polk Co Publishers	Image pg. A143
	Smith Thos AL	R.L. Polk Co Publishers	Image pg. A143
	Strobel G W AL	R.L. Polk Co Publishers	Image pg. A143
	Walthev Margt E AL	R.L. Polk Co Publishers	Image pg. A143
1944	Castle Court Apartments	R. L. Polk & Co.	Image pg. A158
	Danforth Wallace S mngr	R. L. Polk & Co.	Image pg. A158
	Aloha and W Aloha begin	R. L. Polk & Co.	Image pg. A158

### **QUEEN ANNE AVE K**

#### **600 QUEEN ANNE AVE K**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	La Pelie at The Mar Queen Hote	Cole Information Services	Image pg. A3
	Marqueen Hotel	Cole Information Services	Image pg. A3
	Intermezzo Piccolo	Cole Information Services	Image pg. A3
	Catffe Ladro	Cole Information Services	Image pg. A3
	Building	Cole Information Services	Image pg. A3

#### **601 QUEEN ANNE AVE K**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Choys Chinese Cuisine	Cole Information Services	Image pg. A3

#### **603 QUEEN ANNE AVE K**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Oa Cleaners	Cole Information Services	Image pg. A3

#### **605 QUEEN ANNE AVE K**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Pesos Taco Lounge	Cole Information Services	Image pg. A3

## FINDINGS

### 615 QUEEN ANNE AVE K

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Nsn Enterprises Inc i	Cole Information Services	Image pg. A3
	Queen Anne Smoke Shop	Cole Information Services	Image pg. A3

### 617 QUEEN ANNE AVE K

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Apartments	Cole Information Services	Image pg. A3
	Nicholas Brawley	Cole Information Services	Image pg. A3
	Glory Cho	Cole Information Services	Image pg. A3
	ADuckworth	Cole Information Services	Image pg. A3
	Heather JWilcox	Cole Information Services	Image pg. A3
	Chad Kunz	Cole Information Services	Image pg. A3
	J Naim	Cole Information Services	Image pg. A3
	Rene P Ruiz	Cole Information Services	Image pg. A3
	Julio Cesa Garcla Sandoval	Cole Information Services	Image pg. A3

### 619 QUEEN ANNE AVE K

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Cool Kid	Cole Information Services	Image pg. A3

### 621 QUEEN ANNE AVE K

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Salon Image	Cole Information Services	Image pg. A3
	Percheno Corp	Cole Information Services	Image pg. A3

### 623 QUEEN ANNE AVE K

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Paperspace	Cole Information Services	Image pg. A3
	Monkey Love Rubber Stamps	Cole Information Services	Image pg. A3

### 625 QUEEN ANNE AVE K

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Apartments	Cole Information Services	Image pg. A3
	Lee Fwechtencht	Cole Information Services	Image pg. A3
	Maria M Madden	Cole Information Services	Image pg. A3
	Mateo Zapata Zachal	Cole Information Services	Image pg. A3
	Nicole Rogers	Cole Information Services	Image pg. A3
	Michael Tesitor	Cole Information Services	Image pg. A3
	Canddo Munoz	Cole Information Services	Image pg. A3

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### 700 QUEEN ANNE AVE K

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Jenifer Hallock	Cole Information Services	Image pg. A3

### 702 QUEEN ANNE AVE K

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	4 JOB Werxcom	Cole Information Services	Image pg. A3

### 720 QUEEN ANNE AVE K

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	building	Cole Information Services	Image pg. A3
	Willis Condominiums	Cole Information Services	Image pg. A3
	Anemone	Cole Information Services	Image pg. A3
	Anemone	Cole Information Services	Image pg. A3
	ODavid Sean Atkinson	Cole Information Services	Image pg. A3
	Molly A Barclay	Cole Information Services	Image pg. A3
	OWayne G Barclay	Cole Information Services	Image pg. A3
	Alex H Braun	Cole Information Services	Image pg. A3
	Stein Broader	Cole Information Services	Image pg. A3
	Lou Isa Chang	Cole Information Services	Image pg. A3
	Willam WChen	Cole Information Services	Image pg. A3
	Andrew F Ching	Cole Information Services	Image pg. A3
	Ida SCole	Cole Information Services	Image pg. A3
	Susana Covarrubials Bunste	Cole Information Services	Image pg. A3
	Laurie ACrocker	Cole Information Services	Image pg. A3
	Peter Davis	Cole Information Services	Image pg. A3
	Katharine L Dixon	Cole Information Services	Image pg. A3
	Nicole Engel	Cole Information Services	Image pg. A3
	Kay M Ferguson	Cole Information Services	Image pg. A3
	Thomas W Ferguson	Cole Information Services	Image pg. A3
	Nancy D Fleming	Cole Information Services	Image pg. A3
	Julle Frelse	Cole Information Services	Image pg. A3
	Ida D Fremont	Cole Information Services	Image pg. A3
	Stanley D Fremont	Cole Information Services	Image pg. A3
	Alan R Fritzberg	Cole Information Services	Image pg. A3
	Usbeth M Frftzberg	Cole Information Services	Image pg. A3
	Klm R Gluskoter	Cole Information Services	Image pg. A3
	Suzanne B Graves	Cole Information Services	Image pg. A3
	Hannah Greenfeld	Cole Information Services	Image pg. A3
	Joe S Greengard	Cole Information Services	Image pg. A3

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Ula T Greengard	Cole Information Services	Image pg. A3
	Marjorie E Gullick	Cole Information Services	Image pg. A3
	Craig A Jeppesen	Cole Information Services	Image pg. A3
	Barbara A Johnston	Cole Information Services	Image pg. A3
	Julle A Kays	Cole Information Services	Image pg. A3
	John S Kutscher	Cole Information Services	Image pg. A3
	Benjamin S Llu	Cole Information Services	Image pg. A3
	Alison C Lorig	Cole Information Services	Image pg. A3
	Lols E Mc Connell	Cole Information Services	Image pg. A3
	0 Brandon L Morgen	Cole Information Services	Image pg. A3
	OSandra G Morgan	Cole Information Services	Image pg. A3
	Chleko Mukase	Cole Information Services	Image pg. A3
	Thomas T Mukasa	Cole Information Services	Image pg. A3
	Mercy Perez	Cole Information Services	Image pg. A3
	Lols C Pocock	Cole Information Services	Image pg. A3
	Mary Raftery	Cole Information Services	Image pg. A3
	Blake M Takamura	Cole Information Services	Image pg. A3
	eidre AAflca	Cole Information Services	Image pg. A3

### 800 QUEEN ANNE AVE K

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Sachie Hirama	Cole Information Services	Image pg. A3
	Scott Michael Harrfson	Cole Information Services	Image pg. A3
	Mellisa L Huther	Cole Information Services	Image pg. A3
	Kill M Johnson	Cole Information Services	Image pg. A3
	Kikelly Kristen	Cole Information Services	Image pg. A3
	TLewis	Cole Information Services	Image pg. A3
	Mark BMc Govern	Cole Information Services	Image pg. A3
	Larry 0 Nelson	Cole Information Services	Image pg. A3
	Kdril Ovechkin	Cole Information Services	Image pg. A3
	Bet B Ranwell	Cole Information Services	Image pg. A3
	Michael Rayhelson	Cole Information Services	Image pg. A3
	Nancy Russell	Cole Information Services	Image pg. A3
	Najat Thompson	Cole Information Services	Image pg. A3
	Afonteaode	Cole Information Services	Image pg. A3
	Sarah Unbehagen	Cole Information Services	Image pg. A3
	Cldy Willlts	Cole Information Services	Image pg. A3
	Jason Willts	Cole Information Services	Image pg. A3
	Misha Zaitsevsky	Cole Information Services	Image pg. A3

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Apartments	Cole Information Services	Image pg. A3
	Brian KBaker	Cole Information Services	Image pg. A3
	Clayton F Bell I	Cole Information Services	Image pg. A3
	Michea BELlemeur	Cole Information Services	Image pg. A3
	Howard WBulson	Cole Information Services	Image pg. A3
	Reynaldo Canbela	Cole Information Services	Image pg. A3
	Claude Chllcott	Cole Information Services	Image pg. A3
	Janet J Ciancl	Cole Information Services	Image pg. A3
	OWlliam J ClancI	Cole Information Services	Image pg. A3
	Michael C Davles	Cole Information Services	Image pg. A3
	Cameron E Gauld	Cole Information Services	Image pg. A3
	Robert DGauld	Cole Information Services	Image pg. A3
	Kathy Guerra	Cole Information Services	Image pg. A3
	Mel Huther	Cole Information Services	Image pg. A3

### 822 QUEEN ANNE AVE K

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Any E Boehm	Cole Information Services	Image pg. A3
	John S Boehm	Cole Information Services	Image pg. A3
	Brian Daniel Breyfogle	Cole Information Services	Image pg. A3
	Nellie Browne	Cole Information Services	Image pg. A3
	Nephele J Browne	Cole Information Services	Image pg. A3
	Wendy J Colgan	Cole Information Services	Image pg. A3
	MartIn H Delgado	Cole Information Services	Image pg. A3
	Chris Dougherty	Cole Information Services	Image pg. A3
	Anne H Hickey	Cole Information Services	Image pg. A3
	Christin A Larsen	Cole Information Services	Image pg. A3
	Emily Malasielcz	Cole Information Services	Image pg. A3
	J P Mayer	Cole Information Services	Image pg. A3
	Jaime C Preston	Cole Information Services	Image pg. A3
	Richard A Preston	Cole Information Services	Image pg. A3
	Nancy B Robbins	Cole Information Services	Image pg. A3
	MStock	Cole Information Services	Image pg. A3
	WAR 201 Srt Sn S Yevdlevich	Cole Information Services	Image pg. A3
	Apartments	Cole Information Services	Image pg. A3
	Stuart Arentzen	Cole Information Services	Image pg. A3

## FINDINGS

### **Queen Anne Ave N**

#### **528 Queen Anne Ave N**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
2014	WORLD WRAPPS NORTHWEST INC	EDR Digital Archive
	ATHINA	EDR Digital Archive
2010	ATHINA	EDR Digital Archive
	WORLD WRAPPS NORTHWEST INC	EDR Digital Archive

#### **529 Queen Anne Ave N**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
2014	SPECTATOR	EDR Digital Archive
2010	SPECTATOR	EDR Digital Archive

#### **531 Queen Anne Ave N**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
2014	K V HOLDINGS INC	EDR Digital Archive
2010	K V HOLDINGS INC	EDR Digital Archive

#### **532 Queen Anne Ave N**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
2014	PERIDOT BOUTIQUE	EDR Digital Archive
	THREE SEASONS	EDR Digital Archive
2010	NAMMACHER ALICIA DESIGN	EDR Digital Archive
	UNDERDAWG RECORDS	EDR Digital Archive

#### **539 Queen Anne Ave N**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
2014	MICROLOANS NW	EDR Digital Archive
	MCCARTHY RETAIL FINCL SVCS LLC	EDR Digital Archive
	MCCARTHY FINANCE INC	EDR Digital Archive
	MCCARTHY FINANCE INC	EDR Digital Archive
2010	MCCARTHY FINANCE INC	EDR Digital Archive
	INTERNATIONAL PROF ASSOC	EDR Digital Archive

#### **541 Queen Anne Ave N**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
2014	CORRYS FINE DRY CLEANING	EDR Digital Archive
	GUTIERREZ CRISTOVAL	EDR Digital Archive
2010	CORRYS FINE DRY CLEANING	EDR Digital Archive

## FINDINGS

### 550 Queen Anne Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	BAFFETTO INC	EDR Digital Archive
2010	BAFFETTO INC	EDR Digital Archive

### 600 Queen Anne Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	LAPELLE AT MARQUEEN HOTEL	EDR Digital Archive
	MARQUEEN ASSOCIATES LLC	EDR Digital Archive
	SARAH KAHN HAIR	EDR Digital Archive
	BUCY JILL SKIN CARE	EDR Digital Archive
	PNW ASSOCIATES LLC	EDR Digital Archive
	METROPOLITAN MANAGEMENT CO	EDR Digital Archive
2010	METROPOLITAN MGMT CO	EDR Digital Archive
	JILL BUCY SKIN CARE	EDR Digital Archive
	LAPELLE AT MARQUEEN HOTEL	EDR Digital Archive
	MARJOE LLC	EDR Digital Archive

### 601 Queen Anne Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	TOULOUSE KITCHEN AND LOUNGE	EDR Digital Archive
2010	TOULOUSE KITCHEN AND LOUNGE	EDR Digital Archive

### 605 Queen Anne Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	EL DIABLO INC	EDR Digital Archive
2010	EL DIABLO INC	EDR Digital Archive

### 613 Queen Anne Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	LIBERTY TATOO	EDR Digital Archive
	MARTINIS I SPA	EDR Digital Archive
2010	MONKEY LOVE RUBBER STAMPS	EDR Digital Archive

### 615 Queen Anne Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	NOBUS BOUTIQUE	EDR Digital Archive
2010	ANTIQUES ACCENTS & ART	EDR Digital Archive

## FINDINGS

### 617 Queen Anne Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2010	PARADISE INTERIOR PLANTS	EDR Digital Archive

### 619 Queen Anne Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	JUST AROUND CORN DOG GROOM	EDR Digital Archive

### 621 Queen Anne Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	OSKARS KITCHEN	EDR Digital Archive
	MOS RESTAURANT LLC	EDR Digital Archive
	GOLDINBLACK	EDR Digital Archive
	NUCLEUS	EDR Digital Archive
	MOS SUB SHOP	EDR Digital Archive
2010	SALON IMAGE	EDR Digital Archive
	EMERGENCY ANY LOCKSMITH	EDR Digital Archive
	MTK VENTURES LLC	EDR Digital Archive
	NUCLEUS	EDR Digital Archive

### 623 Queen Anne Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	PIECE OF MIND SEATTLE	EDR Digital Archive
	DIAMOND NAILS INC	EDR Digital Archive
2010	DIAMOND NAILS INC	EDR Digital Archive
	PIECE OF MIND SEATTLE	EDR Digital Archive

### 625 Queen Anne Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	ASCADA BISTRO	EDR Digital Archive
	LUIGIS PIZZA & PASTA	EDR Digital Archive
2010	ASCADA BISTRO	EDR Digital Archive

### 720 Queen Anne Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	NANCYS FINISHING TOUCH	EDR Digital Archive
	WILLIS CONDOMINIUMS	EDR Digital Archive
	RIOT OF ORANGE LLC	EDR Digital Archive
	FIFTH GENERATION LLC	EDR Digital Archive
	PIKE PLACE CONSULTING LLC	EDR Digital Archive
	ANEMONE	EDR Digital Archive

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	BART R MAYRON MANAGEMENT LLC	EDR Digital Archive
2010	BART R MAYRON MANAGEMENT LLC	EDR Digital Archive
	WILLIS CONDOMINIUMS	EDR Digital Archive
	FIFTH GENERATION LLC	EDR Digital Archive
	NICHOLE ENGEL	EDR Digital Archive
	FLEMING PROPERTIES 2	EDR Digital Archive
	ANEMONE	EDR Digital Archive

### 800 Queen Anne Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	CRANWELL BETTI	EDR Digital Archive
	VAL ANNE	EDR Digital Archive
2010	MERCER APARTMENTS	EDR Digital Archive
	CRANWELL BETTI	EDR Digital Archive
	VAL ANNE	EDR Digital Archive

### 822 Queen Anne Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	CAC MANAGEMENT	EDR Digital Archive
2010	CAC MANAGEMENT	EDR Digital Archive
	MY RISING SUN INC	EDR Digital Archive

### 900 Queen Anne Ave N

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	BAUMANN HANS CHRISTOPHER	EDR Digital Archive
	MALLORY GROUP LLC	EDR Digital Archive
2010	MULLALLY BUILT HOMES INC	EDR Digital Archive

### QUEEN ANNE AVENUE 1400 3RD AVE

#### 601 QUEEN ANNE AVENUE 1400 3RD AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	JAMIESON Drug Stores Inc Frank T Jamieson pres office	R.L. Polk Co Publishers

### Queen Anne avr Coe Sc r 190. St

#### 702 Queen Anne avr Coe Sc r 190. St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	TURNER L Gordon Dorothy student h	R.L. Polk Co Publishers

# FINDINGS

## **QUEEN ANNE DR**

### **1 QUEEN ANNE DR**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>	
1960	Newcomb Paul J jr	R.L. Polk Co Publishers	Image pg. A103
	Gerber John J A AT	R.L. Polk Co Publishers	Image pg. A103
	Mayo Ronald	R.L. Polk Co Publishers	Image pg. A103
	La Course Richd D A AT	R.L. Polk Co Publishers	Image pg. A103
	Macdonald Fiona	R.L. Polk Co Publishers	Image pg. A103
	Shadvolt Shirley	R.L. Polk Co Publishers	Image pg. A103
	Vacant	R.L. Polk Co Publishers	Image pg. A103
	Frankel Claire a AT	R.L. Polk Co Publishers	Image pg. A103
	Baldwin Jerry	R.L. Polk Co Publishers	Image pg. A103
	ri n ML ri Y	R.L. Polk Co Publishers	Image pg. A103
	Schlange Mary E	R.L. Polk Co Publishers	Image pg. A103
	Tolan Wm J A AT	R.L. Polk Co Publishers	Image pg. A103
	Fields Jane	R.L. Polk Co Publishers	Image pg. A103
	Jones Paula	R.L. Polk Co Publishers	Image pg. A103
	Finch Amanda C Mrs	R.L. Polk Co Publishers	Image pg. A103
	Swan Geo	R.L. Polk Co Publishers	Image pg. A103
	Weaver Harold A AT	R.L. Polk Co Publishers	Image pg. A103
	Morrison Edith Mrs A AT	R.L. Polk Co Publishers	Image pg. A103
	Mueller Leonhard M	R.L. Polk Co Publishers	Image pg. A103
	Vandenberg Russell A AT	R.L. Polk Co Publishers	Image pg. A103
1955	st av W intersects	R.L. Polk Co Publishers	Image pg. A132

### **6 QUEEN ANNE DR**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
1935	Lackstrom Reuben E Gertrude E firem SFD h	R.L. Polk Co Publishers

### **11 QUEEN ANNE DR**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
1930	h	R.L. Polk Co Publishers
	Hans Hillman IM whsmn BM&T h	R.L. Polk Co Publishers

### **12 QUEEN ANNE DR**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
1930	S Antsa h O	R.L. Polk Co Publishers
	NW Russell M elk r	R.L. Polk Co Publishers
	apt 12	R.L. Polk Co Publishers

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Emery E Gifford jr eng rl	R.L. Polk Co Publishers

### 13 QUEEN ANNE DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Co Willard C cabtmkr hl	R.L. Polk Co Publishers

### 15 QUEEN ANNE DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Honold Fred W Thelma elk hl	R.L. Polk Co Publishers
	BURNS Nellie Mrs Indrs rl	R.L. Polk Co Publishers
	HONORE C SHEET METAIL WORPCS Carl E Honore Roofing Gutters	R.L. Polk Co Publishers
	Honold Thelma clk hl	R.L. Polk Co Publishers

### 16 QUEEN ANNE DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Town Geo S Rose F treas Gateway Ptg Co hll	R.L. Polk Co Publishers

### 18 QUEEN ANNE DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	JONES Marget Indrs rl	R.L. Polk Co Publishers
	JONES Mae cash rl	R.L. Polk Co Publishers
	JONES M Edw Susie mtctr hl	R.L. Polk Co Publishers
	JONES Felix S Margt hl	R.L. Polk Co Publishers
	Jones Albt J rl	R.L. Polk Co Publishers

### 600 QUEEN ANNE DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Lynch Ada Mrs A AT	R.L. Polk Co Publishers	Image pg. A104
	Abbott Lillian H Mrs	R.L. Polk Co Publishers	Image pg. A104
	Grinager Hazel V Mrs A AT	R.L. Polk Co Publishers	Image pg. A104
	Ever Fine Meats A AT	R.L. Polk Co Publishers	Image pg. A101
	Vacant	R.L. Polk Co Publishers	Image pg. A101
	Buhler Bertha M Mrs A AT	R.L. Polk Co Publishers	Image pg. A101
	Marqueen Apartments A AT	R.L. Polk Co Publishers	Image pg. A104
	Brown Elmer B A AT	R.L. Polk Co Publishers	Image pg. A104
	Rhodes Robt	R.L. Polk Co Publishers	Image pg. A104
	Ralph Albia M Mrs	R.L. Polk Co Publishers	Image pg. A104
	Conover Clara A Mrs A AT	R.L. Polk Co Publishers	Image pg. A104
	Bernsten Ella T Mrs A AT	R.L. Polk Co Publishers	Image pg. A104

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Kalland Manfred I dentist A AT	R.L. Polk Co Publishers	Image pg. A104
	Millar Anna Mrs A AT	R.L. Polk Co Publishers	Image pg. A104
	Gosline Don A AT	R.L. Polk Co Publishers	Image pg. A104
	West Caroline Mrs	R.L. Polk Co Publishers	Image pg. A104
	Stewart Jeannett R Mrs A AT	R.L. Polk Co Publishers	Image pg. A104
	Vacant	R.L. Polk Co Publishers	Image pg. A104
	Summers Hazel Mrs	R.L. Polk Co Publishers	Image pg. A104
	Rafferty Dorothy	R.L. Polk Co Publishers	Image pg. A104
	Young Marta Mrs	R.L. Polk Co Publishers	Image pg. A104
	Rowland Eug J	R.L. Polk Co Publishers	Image pg. A104
	Mc Laughlin Helen Mrs A AT	R.L. Polk Co Publishers	Image pg. A104
	Bailey G Russ A AT	R.L. Polk Co Publishers	Image pg. A104
	Vacant	R.L. Polk Co Publishers	Image pg. A104
	Miller Ward W	R.L. Polk Co Publishers	Image pg. A104
	Poplack Ida Mrs A AT	R.L. Polk Co Publishers	Image pg. A104
	Trogden Grace E Mrs A AT	R.L. Polk Co Publishers	Image pg. A104
	Mc Farland Wilfred S A AT	R.L. Polk Co Publishers	Image pg. A104
	Mc Millan Marion E Mrs A AT	R.L. Polk Co Publishers	Image pg. A104
	Mc Clelland Meada A AT	R.L. Polk Co Publishers	Image pg. A104
	Allen Myrtle Mrs A AT	R.L. Polk Co Publishers	Image pg. A104
	Heathcote Betty R Mrs A AT	R.L. Polk Co Publishers	Image pg. A104
	Moore Loretta E Mrs A AT	R.L. Polk Co Publishers	Image pg. A104
	Johnson Mabel E A AT	R.L. Polk Co Publishers	Image pg. A104
	Hancock Joan O Mrs A AT	R.L. Polk Co Publishers	Image pg. A104
	Mc Guern Walter W A AT	R.L. Polk Co Publishers	Image pg. A104
	Fransen Chas T A AT	R.L. Polk Co Publishers	Image pg. A104
	Mc Cabe Lorene N	R.L. Polk Co Publishers	Image pg. A104
	Anderson Chas V A AT	R.L. Polk Co Publishers	Image pg. A104
	Mulhearn Patricia M	R.L. Polk Co Publishers	Image pg. A104
	Brown Patk H A AT	R.L. Polk Co Publishers	Image pg. A104
	Glantz Conrad A AT	R.L. Polk Co Publishers	Image pg. A104
	Mc Lees Anna E Mrs A AT	R.L. Polk Co Publishers	Image pg. A104
	Mulhearn Rena	R.L. Polk Co Publishers	Image pg. A104
	De Muth Edythe Mrs A AT	R.L. Polk Co Publishers	Image pg. A104
	Harrigan Gerald J A AT	R.L. Polk Co Publishers	Image pg. A104
	Bogan Walter	R.L. Polk Co Publishers	Image pg. A104
	Cohen Rhea A AT	R.L. Polk Co Publishers	Image pg. A104
	Sopwith Alice Mrs A AT	R.L. Polk Co Publishers	Image pg. A104

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Foster Kay	R.L. Polk Co Publishers	Image pg. A104
	Johnston Marion M A AT	R.L. Polk Co Publishers	Image pg. A104
	Vacant	R.L. Polk Co Publishers	Image pg. A104
	Mc Kay Martha Mrs A AT	R.L. Polk Co Publishers	Image pg. A104
	Netzer Ernest	R.L. Polk Co Publishers	Image pg. A104
	Hillhouse Ottis A AT	R.L. Polk Co Publishers	Image pg. A104
	Cox Lester E	R.L. Polk Co Publishers	Image pg. A104
	Peterson Albin A AT	R.L. Polk Co Publishers	Image pg. A104
	Vacant	R.L. Polk Co Publishers	Image pg. A104
	Weber Ruby C Mrs A AT	R.L. Polk Co Publishers	Image pg. A104
	Paul Phillip S	R.L. Polk Co Publishers	Image pg. A104
	Vacant	R.L. Polk Co Publishers	Image pg. A104
	Vacant	R.L. Polk Co Publishers	Image pg. A104
	Surber Marie Mrs A AT	R.L. Polk Co Publishers	Image pg. A104
	Vacant	R.L. Polk Co Publishers	Image pg. A104
	Vacant	R.L. Polk Co Publishers	Image pg. A104
	Gresbam Thos D A AT	R.L. Polk Co Publishers	Image pg. A104
	Howard Larry J A AT	R.L. Polk Co Publishers	Image pg. A104
	OHara Evelyn R Mrs A AT	R.L. Polk Co Publishers	Image pg. A104
	Sheehan Adelle F	R.L. Polk Co Publishers	Image pg. A104
1940	Marqueen Apartments	R.L. Polk Co publishers	Image pg. A170
	Eastburg Philip S mgr	R.L. Polk Co publishers	Image pg. A170
	Albertson Betty	R.L. Polk Co publishers	Image pg. A170
	Beales Dorothy	R.L. Polk Co publishers	Image pg. A170
	Bevelaqua Richd A	R.L. Polk Co publishers	Image pg. A170
	Blinn Isabelle music tchr	R.L. Polk Co publishers	Image pg. A170
	Brown F J	R.L. Polk Co publishers	Image pg. A170
	Burt Wm H	R.L. Polk Co publishers	Image pg. A170
	Campbell Cath Mrs	R.L. Polk Co publishers	Image pg. A170
	Church Jas W	R.L. Polk Co publishers	Image pg. A170
	Coates Robt	R.L. Polk Co publishers	Image pg. A170
	Coleman Geo W	R.L. Polk Co publishers	Image pg. A170
	Compton Perry	R.L. Polk Co publishers	Image pg. A170
	Cranford Maude	R.L. Polk Co publishers	Image pg. A170
	Daniel John	R.L. Polk Co publishers	Image pg. A170
	Derby Edith S	R.L. Polk Co publishers	Image pg. A170
	Dodds Clifford A	R.L. Polk Co publishers	Image pg. A170
	Duss Julia M Mrs	R.L. Polk Co publishers	Image pg. A170

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Excell Isaac E	R.L. Polk Co publishers	Image pg. A170
	Fitzgerald John J	R.L. Polk Co publishers	Image pg. A170
	Galyon Raymond H	R.L. Polk Co publishers	Image pg. A170
	Glantz Conrad	R.L. Polk Co publishers	Image pg. A170
	Gresham Thos D	R.L. Polk Co publishers	Image pg. A170
	Hall Wm J	R.L. Polk Co publishers	Image pg. A170
	Harlow Zona L	R.L. Polk Co publishers	Image pg. A170
	Hauprich John J	R.L. Polk Co publishers	Image pg. A170
	Hedeem Arnold	R.L. Polk Co publishers	Image pg. A170
	Hull Curtis	R.L. Polk Co publishers	Image pg. A170
	Keyes Vincent H	R.L. Polk Co publishers	Image pg. A170
	Landgraff Chauncey W	R.L. Polk Co publishers	Image pg. A170
	Leister Irvin F	R.L. Polk Co publishers	Image pg. A170
	Luhrsen Edith Mrs	R.L. Polk Co publishers	Image pg. A170
	Macbeth John E	R.L. Polk Co publishers	Image pg. A170
	Mac Donald John R A	R.L. Polk Co publishers	Image pg. A170
	Mc Guern Walter W	R.L. Polk Co publishers	Image pg. A170
	Mc Kay Norman J	R.L. Polk Co publishers	Image pg. A170
	Mc Eachern Archie D	R.L. Polk Co publishers	Image pg. A170
	Meehan Vincent D	R.L. Polk Co publishers	Image pg. A170
	Meyer B G	R.L. Polk Co publishers	Image pg. A170
	Miller Anna Mrs	R.L. Polk Co publishers	Image pg. A170
	Noehl A	R.L. Polk Co publishers	Image pg. A170
	Peppers S Margt Mrs	R.L. Polk Co publishers	Image pg. A170
	Pierce Guthrie G	R.L. Polk Co publishers	Image pg. A170
	Pinney Raymond V	R.L. Polk Co publishers	Image pg. A170
	Portogalo Anna Mrs	R.L. Polk Co publishers	Image pg. A170
	Post Rutherford B	R.L. Polk Co publishers	Image pg. A170
	Preston Russell R	R.L. Polk Co publishers	Image pg. A170
	Rhodes Bert H	R.L. Polk Co publishers	Image pg. A170
	Sechler Dean A	R.L. Polk Co publishers	Image pg. A170
	Shawver Russell L	R.L. Polk Co publishers	Image pg. A170
	Skene Curtis P	R.L. Polk Co publishers	Image pg. A170
	Sopwith Chas B	R.L. Polk Co publishers	Image pg. A170
	Teel Gordon	R.L. Polk Co publishers	Image pg. A170
	Thomsen Clara Mrs	R.L. Polk Co publishers	Image pg. A170
	Warren Bert B	R.L. Polk Co publishers	Image pg. A170
	Wellington Fred G	R.L. Polk Co publishers	Image pg. A170

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Weltzin Martha M Mrs	R.L. Polk Co publishers	Image pg. A170
	Zeufeldt Saml F	R.L. Polk Co publishers	Image pg. A170
1935	Sells Minnie A Mrs blkpr Battle Hulbert Helsell & Bettens r	R.L. Polk Co Publishers	
	SW Edna M Mrs drsmkr	R.L. Polk Co Publishers	
	WEAVER Lloyd E Jeannette C h	R.L. Polk Co Publishers	
	Loren A Lora C h	R.L. Polk Co Publishers	
	Wesslen Mary presser Barg French Cleaners h	R.L. Polk Co Publishers	
	WILLIAMS Fred V slsmn GRB r	R.L. Polk Co Publishers	
	Boies Norman H Jeannette C asst mgr Kelpekoe Inc h	R.L. Polk Co Publishers	
	BROWN Roy Edna L h	R.L. Polk Co Publishers	
	COOK Clifford C Bonnie E mtpkr h	R.L. Polk Co Publishers	
	Maud cash A&K h	R.L. Polk Co Publishers	
	Cranford Kessen MAIattie slsmn h	R.L. Polk Co Publishers	
	CRAWFORD Maud cash A&K r	R.L. Polk Co Publishers	
	Daley Sarah F Mrs elk h	R.L. Polk Co Publishers	
	DIAMOND Louis Diamond Auto Park Central Auto Park Moore Parking Service pres Parking Service Inc Central Parking Service Inc and	R.L. Polk Co Publishers	
	Paul M Minnie A carp h	R.L. Polk Co Publishers	
	Doke Mabel F Mrs beauty opr Mabel L Westlund h	R.L. Polk Co Publishers	
	Drysdale Chas E Beatrice eng h	R.L. Polk Co Publishers	
	Ewins Thos H r	R.L. Polk Co Publishers	
	Excell Isaac E Nan carp h	R.L. Polk Co Publishers	
	FULLER Howard A fctywkr h	R.L. Polk Co Publishers	
	GIBSONX Warren S stdt r	R.L. Polk Co Publishers	
	h	R.L. Polk Co Publishers	
	Gifford Sumner B A Margt h	R.L. Polk Co Publishers	
	Gresham Thos D eng PT&TCo h	R.L. Polk Co Publishers	
	Gruber H Clifford Alta M mech Marqueen Garage h	R.L. Polk Co Publishers	
	Hoyle Lester A E Opal slsmn Quintin B Griffin h	R.L. Polk Co Publishers	
	tical Co h	R.L. Polk Co Publishers	
	JONES Mollie D wid Gaylord W r	R.L. Polk Co Publishers	
	Kathryn Mary R Mrs nurse Seattle Visiting Nurse Service h	R.L. Polk Co Publishers	
	Kyler Herschel Judith D beauty opr M&SCo h	R.L. Polk Co Publishers	

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1935	Lingo Andrew A servmn SGCo h	R.L. Polk Co Publishers	
	Mac John R stdt r	R.L. Polk Co Publishers	
	John R A Helen L slsmn h	R.L. Polk Co Publishers	
	Mac Agnes S wid Alex r	R.L. Polk Co Publishers	
	Mac Bessie bkpr h	R.L. Polk Co Publishers	
	Mapes Verna B Mrs sec treas Adhesive Products Co h	R.L. Polk Co Publishers	
	Marqueen Apartments Mrs A Margt Gifford mgr	R.L. Polk Co Publishers	
	Morgan Sidney H Rev pastor St Pauls Episcopal Ch h	R.L. Polk Co Publishers	
	Pinney Raymond V Hilma E slsmn h	R.L. Polk Co Publishers	
	Schuster Orin L H Ruth driver PHT h	R.L. Polk Co Publishers	
	1930	av apt 217	R.L. Polk Co Publishers
		CHRISTENSEN Bert E tchr Uof W r	R.L. Polk Co Publishers
		Parlor h	R.L. Polk Co Publishers
		CHRISTENSEN Jess Bess J drugless phys	R.L. Polk Co Publishers
Ballard Eagles bldg h		R.L. Polk Co Publishers	
av apt 104		R.L. Polk Co Publishers	
COOK Harry E Dorothy M slsmn Firestone		R.L. Polk Co Publishers	
Serv Inc h		R.L. Polk Co Publishers	
122		R.L. Polk Co Publishers	
Corby Sena E r		R.L. Polk Co Publishers	
& Rogers Inc h		R.L. Polk Co Publishers	
DITTY Jas jr Thelma R whsmn Van Waters		R.L. Polk Co Publishers	
apt 109		R.L. Polk Co Publishers	
DOLL Howard B r		R.L. Polk Co Publishers	
DONOHUE R GEO Rose Circulation Man		R.L. Polk Co Publishers	
r		R.L. Polk Co Publishers	
Dunker Ralph Nina h	R.L. Polk Co Publishers		
111	R.L. Polk Co Publishers		
EDWARDS Geo S Mildred A sign pntr Shell Oil Co h	R.L. Polk Co Publishers		
Elge Kath sten Kay Stenographic Service r	R.L. Polk Co Publishers		
FERGUSON Van B Nellie h	R.L. Polk Co Publishers		
apt 304	R.L. Polk Co Publishers		
Hatley Neva B sten CECO r	R.L. Polk Co Publishers		
apt 212	R.L. Polk Co Publishers		
JACKSON Lora r	R.L. Polk Co Publishers		

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<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	JACOBSON H r	R.L. Polk Co Publishers
	and Co h	R.L. Polk Co Publishers
	Jameson Helen R beauty opr Courtesy Beauty Shop r	R.L. Polk Co Publishers
	JTensen Allen K Margt B reinstater WCLICo h	R.L. Polk Co Publishers
	Jensen Tom B Emy T restr	R.L. Polk Co Publishers
	av h	R.L. Polk Co Publishers
	KAY Lillienne I Mrs Kay Stenographic Serv r	R.L. Polk Co Publishers
	King Anne V primary prin r	R.L. Polk Co Publishers
	Andw pntr Wm G Clark r	R.L. Polk Co Publishers
	King Andw M Peggy pntr h	R.L. Polk Co Publishers
	av apt 202	R.L. Polk Co Publishers
	KNUTSON Clara smstrs F&N r	R.L. Polk Co Publishers
	Monheim Bertha Mrs h	R.L. Polk Co Publishers
	av apt 305	R.L. Polk Co Publishers
	Myers Carrol S Lorena W chf eng Ballard	R.L. Polk Co Publishers
	Ludlow Ferry Co h	R.L. Polk Co Publishers
	av apt 324	R.L. Polk Co Publishers
	MYERS Lorena W Mrs smstrs Auditorium Dye Wks r	R.L. Polk Co Publishers
	John W Laura C fishermn h	R.L. Polk Co Publishers
	Neslund Arth J Sylvia T slsmn UOCo h	R.L. Polk Co Publishers
	Pollard Dorothy Mrs sten Underwriters Report h	R.L. Polk Co Publishers
	Presley Inez D Mrs h	R.L. Polk Co Publishers
	Presley Kindric H prsr E S Twist r	R.L. Polk Co Publishers
	n Verona elk r	R.L. Polk Co Publishers
	Reddie Jacobina S r	R.L. Polk Co Publishers
	apt 323	R.L. Polk Co Publishers
	Reed E Jane h	R.L. Polk Co Publishers
	Ridenour Eagan Vera L court reporter 311	R.L. Polk Co Publishers
	Thompson bldg h	R.L. Polk Co Publishers
	apt 115	R.L. Polk Co Publishers
	h	R.L. Polk Co Publishers
	Sa	R.L. Polk Co Publishers
	Sherrard Wade E Alice L city slsmgr SMTCo h	R.L. Polk Co Publishers
	Sherrer Esther wtrs Coliseum Cafe r 9615	R.L. Polk Co Publishers
	Shields Transportation Co	R.L. Polk Co Publishers

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<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Viola acct WDPCo h	R.L. Polk Co Publishers
	apt 118	R.L. Polk Co Publishers
	SMITH Grant C Olive slsmn Wells Butchers Supply Co h	R.L. Polk Co Publishers
	Sopwith Chas R Alice Acme Dye Works h	R.L. Polk Co Publishers
	Abney Chas H elk PSSCo r	R.L. Polk Co Publishers
	ARMSTRONG Thos J Lillian agt Canada Life Assurance Co h	R.L. Polk Co Publishers
	bldg r	R.L. Polk Co Publishers
	Ayres Madeline M Mrs C S pract	R.L. Polk Co Publishers
	Ayres Nelson Madaline ship clk SBInc h 4125	R.L. Polk Co Publishers
	Oil Co Ltd r	R.L. Polk Co Publishers
	Barcus Fried L Lucille W driver Gilmore 319	R.L. Polk Co Publishers R.L. Polk Co Publishers
	Barcus Lucille W Mrs elev starter RDS r 600	R.L. Polk Co Publishers
	Queen Anne av apt 319	R.L. Polk Co Publishers
	Barcus Mae E Mrs slswn Bon Marche h 600	R.L. Polk Co Publishers
	Queen Anne av apt 319	R.L. Polk Co Publishers
	Barcus Wm L Mae E h	R.L. Polk Co Publishers
	apt 319	R.L. Polk Co Publishers
	Vance Apts h	R.L. Polk Co Publishers
	Bassett Belle C wid Willard G mgr 101	R.L. Polk Co Publishers R.L. Polk Co Publishers
	Bassett Ralph W stdt Uof W r av apt 101	R.L. Polk Co Publishers R.L. Polk Co Publishers
	Bassett Saml B Vanderveer Bassett & Levinson r Benj Franklin H	R.L. Polk Co Publishers
	Blair Bell M wid Arth B h	R.L. Polk Co Publishers
	av apt 220	R.L. Polk Co Publishers
	Bull Saml E Cath electn h	R.L. Polk Co Publishers
	SW Maude E dentist Roy cor Queen Anne av h	R.L. Polk Co Publishers
	SPENCE	R.L. Polk Co Publishers
	Staats Ted Lorene slsmn h	R.L. Polk Co Publishers
	av apt 302	R.L. Polk Co Publishers
	Helen V Mrs h	R.L. Polk Co Publishers
	Summers Glen lab r 219	R.L. Polk Co Publishers R.L. Polk Co Publishers

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<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Talley Elvin L Valeria Talley & Stubbs h	R.L. Polk Co Publishers
	THOMPSON Jack R clk PT&TCo r	R.L. Polk Co Publishers
	av apt 301	R.L. Polk Co Publishers
	THOMPSON Mabel Mrs h	R.L. Polk Co Publishers
	301	R.L. Polk Co Publishers
	THOMPSON Wm stdt h	R.L. Polk Co Publishers
	THOMPSON Wm whsmn UT CFS r	R.L. Polk Co Publishers
	Republic H	
	Edith L Mrs slswn Peter Michael r	R.L. Polk Co Publishers
	Tilton Caroline B Mrs hl	R.L. Polk Co Publishers
	Trenchard Edw D Irene The Malt Shop h	R.L. Polk Co Publishers
	Vance Apartments Mrs Belle C Bassett	R.L. Polk Co Publishers
	mgr	
	Vigor Lee E plant mgr Richfield Oil Co of	R.L. Polk Co Publishers
	Calif h	
	Vigus Arch V E Maud cementwkr h 812	R.L. Polk Co Publishers
	WEBER Wm H Martha J h	R.L. Polk Co Publishers
	av apt 123	R.L. Polk Co Publishers
	L ouise Mrs r	R.L. Polk Co Publishers
	Woodward Clem r	R.L. Polk Co Publishers
	219	R.L. Polk Co Publishers
	WOODWARD	R.L. Polk Co Publishers
	Wyatt Earl F Hannah h	R.L. Polk Co Publishers
	apt 322	R.L. Polk Co Publishers
	r Hannah elk BM&T r	R.L. Polk Co Publishers
	WYATT Fredk D mgr Wyatts Lighting Fix	R.L. Polk Co Publishers

### 601 QUEEN ANNE DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Price Less Stores drugs A AT	R.L. Polk Co Publishers	Image pg. A101
1940	Price Less Drugs	R.L. Polk Co publishers	Image pg. A170

### 603 QUEEN ANNE DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Bakery	R.L. Polk Co publishers	Image pg. A170
	Queen Anne Electric	R.L. Polk Co publishers	Image pg. A170
1935	Queen Anne Dry Goods Co Warren 0	R.L. Polk Co Publishers	
	Fusselman		
	Harry B Glassman	R.L. Polk Co Publishers	
1925	Kath M sten Sch H Co r	R.L. Polk Co Publishers	
	WOODS Julia r	R.L. Polk Co Publishers	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1925	DAHL Sigurd H chkr WBC r	R.L. Polk Co Publishers	
	DAHL Henrietta M Mrs tchr Warren Avenue Sch h	R.L. Polk Co Publishers	
	DAHL Helen E slswn r	R.L. Polk Co Publishers	
1920	SPRAGUE Mary G milliner r	R.L. Polk Co Publishers	
	Bender Christie C Margaret E C C Bender Co h	R.L. Polk Co Publishers	
<b>605 QUEEN ANNE DR</b>			
<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Buon Gusto restr A AT	R.L. Polk Co Publishers	Image pg. A101
<b>607 QUEEN ANNE DR</b>			
<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Uptown Grocery	R.L. Polk Co publishers	Image pg. A170
<b>609 QUEEN ANNE DR</b>			
<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Uptown Market meats	R.L. Polk Co publishers	Image pg. A170
<b>611 QUEEN ANNE DR</b>			
<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Uptown Gro A AT	R.L. Polk Co Publishers	Image pg. A101
	Uptown Meat Mkt a AT	R.L. Polk Co Publishers	Image pg. A101
1940	Uptown Five and Ten Cent Store	R.L. Polk Co publishers	Image pg. A170
		R.L. Polk Co publishers	Image pg. A170
<b>613 QUEEN ANNE DR</b>			
<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Vacant	R.L. Polk Co Publishers	Image pg. A101
1940	Young Wm A shoe repr	R.L. Polk Co publishers	Image pg. A170
1935	TAYLOR Benj MAargt E shoe repr	R.L. Polk Co Publishers	
<b>615 QUEEN ANNE DR</b>			
<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Hansen Josephine M Mrs A AT	R.L. Polk Co Publishers	Image pg. A101
	Vacant	R.L. Polk Co Publishers	Image pg. A101
	Mc Gready Joanna Mrs A AT	R.L. Polk Co Publishers	Image pg. A101
	Vacant	R.L. Polk Co Publishers	Image pg. A101
	Addington Perry A AT	R.L. Polk Co Publishers	Image pg. A101
	Chestnut Laura Mrs A AT	R.L. Polk Co Publishers	Image pg. A101

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Pinnell Mary A Mrs A AT	R.L. Polk Co Publishers	Image pg. A101
	Emery Chas D A AT	R.L. Polk Co Publishers	Image pg. A101
	a Johnnies Shoe Shop A B	R.L. Polk Co Publishers	Image pg. A101
	b Averbeck Realty Co A AT	R.L. Polk Co Publishers	Image pg. A101
	Lindbergh Apartments	R.L. Polk Co Publishers	Image pg. A101
	Coslow Eliz A AT	R.L. Polk Co Publishers	Image pg. A101
	Dowd Minnie Mrs a AT	R.L. Polk Co Publishers	Image pg. A101
	Abollns Pauline A AT	R.L. Polk Co Publishers	Image pg. A101
	Benwell Anna	R.L. Polk Co Publishers	Image pg. A101
1940	Stenstrom Aug N tlr	R.L. Polk Co publishers	Image pg. A170
	Book Den The lending library	R.L. Polk Co publishers R.L. Polk Co publishers	Image pg. A170 Image pg. A170
	Lindbergh Apartments	R.L. Polk Co publishers	Image pg. A170
	Berglund John H	R.L. Polk Co publishers	Image pg. A170
	Birchfield Arth W	R.L. Polk Co publishers	Image pg. A170
	Everett Ethel Mrs	R.L. Polk Co publishers	Image pg. A170
	Fountain R	R.L. Polk Co publishers	Image pg. A170
	Ginder Beth Mrs	R.L. Polk Co publishers	Image pg. A170
	Hemlow Herbert A	R.L. Polk Co publishers	Image pg. A170
	Mc Cracken Chas T	R.L. Polk Co publishers	Image pg. A170
	Murphy Mansfield	R.L. Polk Co publishers	Image pg. A170
	Prunmmner Chris A	R.L. Polk Co publishers	Image pg. A170
	Riley R	R.L. Polk Co publishers	Image pg. A170
	Rink Wm N	R.L. Polk Co publishers	Image pg. A170
	Wray Chas L	R.L. Polk Co publishers	Image pg. A170
	B Vacant	R.L. Polk Co publishers	Image pg. A170
1935	Case Arth W clk Nati Screen Serv r	R.L. Polk Co Publishers	
	Craig Mervyn Hf Nettie C maeh h	R.L. Polk Co Publishers	
	Denney Jos R Elsie B mach h	R.L. Polk Co Publishers	
	HIGHLAND Sig Margt Ingshrmn h	R.L. Polk Co Publishers	
1930	Alley Nestor Lottie meats	R.L. Polk Co Publishers	
	HUPF Rufus C carrier PO r	R.L. Polk Co Publishers	
	HULME J H S Victoria gro	R.L. Polk Co Publishers	
1925	Alles Vera clk Bon Marche r	R.L. Polk Co Publishers	
	Alleys Nestor meats	R.L. Polk Co Publishers	
	Argent T Edw janitor r	R.L. Polk Co Publishers	
	Boyle Claude M Gladys L insp ITSCustoms h E	R.L. Polk Co Publishers	
	Hul Mme Henry M r	R.L. Polk Co Publishers	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	h C	R.L. Polk Co Publishers
	Randish & Hulme Matthew Randish J H S Hulme gro	R.L. Polk Co Publishers
	TAYLOR Fred Mazie mgr Aroostook Apts h F	R.L. Polk Co Publishers
	WILSON Jas Mae L real est	R.L. Polk Co Publishers
1920	Jas B Angela P h D	R.L. Polk Co Publishers
	Aroostook Apartments	R.L. Polk Co Publishers
	DAHL Henrietta M Mrs h F	R.L. Polk Co Publishers
	DAHL Sigurd H clk r F	R.L. Polk Co Publishers
	Lux Dorothy Mrs elk r D	R.L. Polk Co Publishers
	MXOTTON Elizabeth Mrs inspr Parker Cloak & Suit Co h D	R.L. Polk Co Publishers
	MOBT Lucile clk r D	R.L. Polk Co Publishers
	NOBTON Lucille stngr r	R.L. Polk Co Publishers
	Peek Wm H Ploy grocer	R.L. Polk Co Publishers
	Randles Matilda Mrs r E	R.L. Polk Co Publishers
	THORSON Paul L clk r F	R.L. Polk Co Publishers
	Wales Margaret I cashr F W Woolworth r EE	R.L. Polk Co Publishers
	Yesler Agnes B stngr B	R.L. Polk Co Publishers
	WILLIAMS Jas X r B	R.L. Polk Co Publishers

### 617 QUEEN ANNE DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	orthopedic appliances A AT	R.L. Polk Co Publishers	Image pg. A101
	a Prime Beauty Shop A AT	R.L. Polk Co Publishers	Image pg. A101
	b Underfoot Products Laby	R.L. Polk Co Publishers	Image pg. A101
1940	P 0 sub sta	R.L. Polk Co publishers	Image pg. A170
	B Dutch Nook	R.L. Polk Co publishers	Image pg. A170
	Prime Barber & Beauty	R.L. Polk Co publishers	Image pg. A170

### 619 QUEEN ANNE DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Leahs Gift Shop A AT	R.L. Polk Co Publishers	Image pg. A101
1940	Kopland F Mrs art gds	R.L. Polk Co publishers	Image pg. A170
1930	Alonzo L confr	R.L. Polk Co Publishers	
	Young Alice I r	R.L. Polk Co Publishers	
1925	MADISON Madeline art gds	R.L. Polk Co Publishers	
	M Sarah gro	R.L. Polk Co Publishers	
1920	HUIDS & Luth L A Hurd A E Luth grocers	R.L. Polk Co Publishers	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Luth & Hurd A E Luth L A Hurd delicatessen	R.L. Polk Co Publishers

### 621 QUEEN ANNE DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Chan You	R.L. Polk Co Publishers	Image pg. A101
	Uptown Lndry A AT	R.L. Polk Co Publishers	Image pg. A101
1940	Lew Harry	R.L. Polk Co publishers	Image pg. A170
	Woo Lee Hand Laundry	R.L. Polk Co publishers	Image pg. A170
1935	Woo Lee Indy	R.L. Polk Co Publishers	

### 623 QUEEN ANNE DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Apartments	R.L. Polk Co Publishers	Image pg. A101
	Jontes Oswald S chiropractor A AT	R.L. Polk Co Publishers	Image pg. A101
	Adeock Matilda	R.L. Polk Co Publishers	Image pg. A101
	Smith Dorothy Mrs	R.L. Polk Co Publishers	Image pg. A101
	Smith Peter A AT	R.L. Polk Co Publishers	Image pg. A101
	Parrls R L	R.L. Polk Co Publishers	Image pg. A101
	Rayne Kittle Mrs A AT	R.L. Polk Co Publishers	Image pg. A101
	Wyatt Edith Mrs A AT	R.L. Polk Co Publishers	Image pg. A101
	Vacant	R.L. Polk Co Publishers	Image pg. A101
	Moen Ivar O A AT	R.L. Polk Co Publishers	Image pg. A101
	Schuyler John B	R.L. Polk Co Publishers	Image pg. A101
	Gargon Jos E	R.L. Polk Co Publishers	Image pg. A101
	Stanford Kenneth R A AT	R.L. Polk Co Publishers	Image pg. A101
1940	Hardy Edith V Mrs gro	R.L. Polk Co publishers	Image pg. A170
	A Lindbergh Apartments	R.L. Polk Co publishers	Image pg. A170
	Albertson Jas	R.L. Polk Co publishers	Image pg. A170
	Evans Kaye	R.L. Polk Co publishers	Image pg. A170
	Howard Fred J	R.L. Polk Co publishers	Image pg. A170
	Larson Edw	R.L. Polk Co publishers	Image pg. A170
	Mc Kay Saml B	R.L. Polk Co publishers	Image pg. A170
	Metzger Glenn A	R.L. Polk Co publishers	Image pg. A170
	Moen Ivar	R.L. Polk Co publishers	Image pg. A170
	Sherer Edwin W	R.L. Polk Co publishers	Image pg. A170
	Sherwood Geo	R.L. Polk Co publishers	Image pg. A170
	Smith Vernon F	R.L. Polk Co publishers	Image pg. A170
	Weymouth Harold K	R.L. Polk Co publishers	Image pg. A170

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Kolander Tony J Lena C gro	R.L. Polk Co Publishers
	MITCHELL Ralph Goldie driver h	R.L. Polk Co Publishers
	Moen Bernice A stdt r	R.L. Polk Co Publishers
	Nordby Lars pntr h	R.L. Polk Co Publishers
	Roles Geo R Ruth R h	R.L. Polk Co Publishers
	Trunkhill Chas J Myrtle h	R.L. Polk Co Publishers
	BERGER John R Eliz store mgr United States Cigar Co h	R.L. Polk Co Publishers
	Hargett Lloyd Lucille h	R.L. Polk Co Publishers
	h	R.L. Polk Co Publishers
	Hosp Fredk J Georgiana S meats	R.L. Polk Co Publishers
1925	BROWN Francis I Clara h II	R.L. Polk Co Publishers
	ELLIOTT Clifton M Pearl E h JJ	R.L. Polk Co Publishers
	Farmer Geo H Birdie L r G	R.L. Polk Co Publishers
	GRANDY & Watkinson V I Grandy E R Watkinson delicatessen	R.L. Polk Co Publishers
	Watkinson Emily R Mrs Grandy & Watkinson h	R.L. Polk Co Publishers
Watkinson Fay W auto mech r LL	R.L. Polk Co Publishers	
1920	Cessna Wm T Olga h J	R.L. Polk Co Publishers
	Drolesbaugh Gurney M Grace eng h K	R.L. Polk Co Publishers
	JOm Mary Mrs smstrs h	R.L. Polk Co Publishers
	LONG Fredk S macht r G	R.L. Polk Co Publishers
	Musolf Peter P Nora I shipwkr h HH	R.L. Polk Co Publishers
	Musolf Thos mech r HH	R.L. Polk Co Publishers
	Newbanks Leon E Dora B floormgr P C Biscuit Co h G	R.L. Polk Co Publishers

### 627 QUEEN ANNE DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Queen Anne Beauty Parlor Mrs Bessie J Christensen	R.L. Polk Co Publishers
1925	Nystrom Andw Olga shoemkr	R.L. Polk Co Publishers
	Bergin Jos A Pearl V Bergin & Bergin h J	R.L. Polk Co Publishers

### 629 QUEEN ANNE DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1940	Acme Cleaners dclo clnrs	R.L. Polk Co publishers
1935	ACME Cleaners Chas R Sopwith	R.L. Polk Co Publishers

Image pg. A170

## FINDINGS

### 700 QUEEN ANNE DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Mn Kales Corp br gas sta A AT	R.L. Polk Co Publishers	Image pg. A101

### 716 QUEEN ANNE DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Davies Wm H Annie h	R.L. Polk Co Publishers
1930	DAVIES Wm H Annie h	R.L. Polk Co Publishers
1925	DAVIES Wm H Annie h	R.L. Polk Co Publishers
1920	Dupee Cherie M tchr r	R.L. Polk Co Publishers

### 718 QUEEN ANNE DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	WHITE	R.L. Polk Co Publishers
	WHITE FPrank M Anna E lab h	R.L. Polk Co Publishers
	Fred clk SOCo r	R.L. Polk Co Publishers
	HILLMAN Geraldine M mlnr r	R.L. Polk Co Publishers
	r Fred r	R.L. Polk Co Publishers
1920	MTLLETT Maude E manicurist r	R.L. Polk Co Publishers

### 720 QUEEN ANNE DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Willis Apartments	R.L. Polk Co Publishers	Image pg. A101
	SI Shochley Peggy	R.L. Polk Co Publishers	Image pg. A101
	Plummnr Willis A A AT	R.L. Polk Co Publishers	Image pg. A101
	Mc Cormick Gordon A AT	R.L. Polk Co Publishers	Image pg. A101
	Mitchell Emma Mrs A AT	R.L. Polk Co Publishers	Image pg. A101
	Mc Bride Patk	R.L. Polk Co Publishers	Image pg. A101
	Kuebloer Albert H & ATV	R.L. Polk Co Publishers	Image pg. A101
	Tapp Albert A AT	R.L. Polk Co Publishers	Image pg. A101
	De Sisto Paul G A AT	R.L. Polk Co Publishers	Image pg. A101
	Wahl Ed	R.L. Polk Co Publishers	Image pg. A101
	Ln Roche Donald F	R.L. Polk Co Publishers	Image pg. A101
	Thompson Donald E	R.L. Polk Co Publishers	Image pg. A101
1940	Mandal Apartments	R.L. Polk Co publishers	Image pg. A170
	Fisher Allan G	R.L. Polk Co publishers	Image pg. A170
	Barbee Dale	R.L. Polk Co publishers	Image pg. A170
	Clark Mildred	R.L. Polk Co publishers	Image pg. A170
	Costigan Kathryn L	R.L. Polk Co publishers	Image pg. A170
	Gray Mary C	R.L. Polk Co publishers	Image pg. A170

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Grow Herman C	R.L. Polk Co publishers	Image pg. A170
	Hayes Herbert	R.L. Polk Co publishers	Image pg. A170
	Ereider Anne	R.L. Polk Co publishers	Image pg. A170
	Mc Donald J Wiley	R.L. Polk Co publishers	Image pg. A170
	Ray Maxine	R.L. Polk Co publishers	Image pg. A170
1935	Mitbo Mirre r	R.L. Polk Co Publishers	
	Odlaug Ann wid Arnt slswn h	R.L. Polk Co Publishers	
	Sneddon Robt Mary A mldr h	R.L. Polk Co Publishers	
	CAMPBELL Eldon D Margt E opr Standard Stations f	R.L. Polk Co Publishers	
	Fisher Allen G Marvel A h	R.L. Polk Co Publishers	
	Middaugh Henry E Ella G h	R.L. Polk Co Publishers	
	Ralph W Gertrude h	R.L. Polk Co Publishers	
1930	ANDERSON Harry Dorothy M h	R.L. Polk Co Publishers	
	BURNS Jos Freida clk h	R.L. Polk Co Publishers	
	BURNS Jos C Margt appr OSMWks h 3406	R.L. Polk Co Publishers	
	FULTON Jas I Grace J slsmn Brewster Cigar Co Inc h	R.L. Polk Co Publishers	
	Hogberg Claus G Mandel Apts shoemkr North Coast Shoe Co h	R.L. Polk Co Publishers	
	Irwin see also Erven Ervin Erwin Irvin and Irving Irvi A F slsmn h	R.L. Polk Co Publishers	
	KING John Myrtle I clk h	R.L. Polk Co Publishers	
	Mandal Apartments Claus G Hogberg	R.L. Polk Co Publishers	
	Thuleen Jennie Mrs mgr Mandel Apts r	R.L. Polk Co Publishers	
	Weatherford Marion W Nina C formn Mc Kales Inc h	R.L. Polk Co Publishers	
1925	Carrie wid David h	R.L. Polk Co Publishers	
	Rodgers B N Co B N Rodgers cabtmkrs 1 1st av	R.L. Polk Co Publishers	
1920	STEVENS Wm J eng r	R.L. Polk Co Publishers	

### 722 QUEEN ANNE DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1925	Byam Mary wid Elias D h	R.L. Polk Co Publishers	
1920	Van Keuren Harry Katherine asst mngr Jordan Terminal Inc h	R.L. Polk Co Publishers	

### 724 QUEEN ANNE DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1925	Barclay Walter P bkpr r	R.L. Polk Co Publishers	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	LYNCH Thos Flora painter h	R.L. Polk Co Publishers
	Gertrude V Mrs stngr r	R.L. Polk Co Publishers
	Leigh edwd O Vera T h	R.L. Polk Co Publishers

### 800 QUEEN ANNE DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Vacant	R.L. Polk Co Publishers	Image pg. A101
	Val Ann apts A AT	R.L. Polk Co Publishers	Image pg. A101
	Vacant	R.L. Polk Co Publishers	Image pg. A101
	Flennery B	R.L. Polk Co Publishers	Image pg. A101
	Crane Leland T	R.L. Polk Co Publishers	Image pg. A101
	Mills B A AT 4 768 S	R.L. Polk Co Publishers	Image pg. A101
	Butcher John	R.L. Polk Co Publishers	Image pg. A101
	Laird Bonnie A AT	R.L. Polk Co Publishers	Image pg. A101
	Mac Donald E A A AT	R.L. Polk Co Publishers	Image pg. A101
	Cook Patricia A AT	R.L. Polk Co Publishers	Image pg. A101
	Tngebritson IDEz A AT	R.L. Polk Co Publishers	Image pg. A101
	Fuiller Barbara G A AT	R.L. Polk Co Publishers	Image pg. A101
	Coolk M E	R.L. Polk Co Publishers	Image pg. A101
	Grindy Janice M A AT	R.L. Polk Co Publishers	Image pg. A101
	Vacant	R.L. Polk Co Publishers	Image pg. A101
	Horton Helen A AT	R.L. Polk Co Publishers	Image pg. A101
	Vacant	R.L. Polk Co Publishers	Image pg. A101
	Peper Berdean	R.L. Polk Co Publishers	Image pg. A101
	Wilken M	R.L. Polk Co Publishers	Image pg. A101
	Cook Edna	R.L. Polk Co Publishers	Image pg. A101
	Butt Linda L	R.L. Polk Co Publishers	Image pg. A101
	Ostrom J	R.L. Polk Co Publishers	Image pg. A101
	Vacant	R.L. Polk Co Publishers	Image pg. A101
	Farrell K	R.L. Polk Co Publishers	Image pg. A101
	Grider Joan M	R.L. Polk Co Publishers	Image pg. A101
	Vacant	R.L. Polk Co Publishers	Image pg. A101
	Vacant	R.L. Polk Co Publishers	Image pg. A101
	Newland Vivian E	R.L. Polk Co Publishers	Image pg. A101
	Little B	R.L. Polk Co Publishers	Image pg. A101
	Vacant	R.L. Polk Co Publishers	Image pg. A101
	Vacant	R.L. Polk Co Publishers	Image pg. A101
	Facer L Jack A AT	R.L. Polk Co Publishers	Image pg. A101
	Graff Rola V A AT	R.L. Polk Co Publishers	Image pg. A101

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Stone John R	R.L. Polk Co Publishers	Image pg. A101
	Browvn H Joseph A AT	R.L. Polk Co Publishers	Image pg. A101
	Peterson L	R.L. Polk Co Publishers	Image pg. A101
	Reinke John A AT	R.L. Polk Co Publishers	Image pg. A101
	Stanko V	R.L. Polk Co Publishers	Image pg. A101
	Wallace R G	R.L. Polk Co Publishers	Image pg. A101
	Steinburg Doris A AT	R.L. Polk Co Publishers	Image pg. A101
	Olmstead Ralph W Jr A AT	R.L. Polk Co Publishers	Image pg. A101
	Vacant	R.L. Polk Co Publishers	Image pg. A101
	Vacant	R.L. Polk Co Publishers	Image pg. A101
	Muller G	R.L. Polk Co Publishers	Image pg. A101
	Dailey Barbara A AT	R.L. Polk Co Publishers	Image pg. A101
	Vacant	R.L. Polk Co Publishers	Image pg. A101
	Lane Rowland P A AT	R.L. Polk Co Publishers	Image pg. A101
1930	Curry Clyde C slsmn Coast Radio Co r Am	R.L. Polk Co Publishers	
	Curry Chas H Gertrude M mgr W H Pierson Co Inc h	R.L. Polk Co Publishers	
	bassador H	R.L. Polk Co Publishers	

### 801 QUEEN ANNE DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	No return	R.L. Polk Co Publishers	Image pg. A101

### 809 QUEEN ANNE DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Kinnear Chas A	R.L. Polk Co publishers	Image pg. A170
1935	CUNNINGHAM Arth Christina dom	R.L. Polk Co Publishers	
1930	Kinnear Arth C Alice Kinnear Dye Works h	R.L. Polk Co Publishers	
	King Andw T Almah B r	R.L. Polk Co Publishers	
1925	Kinnear Chas A Grace P pres G Kinnear Co h	R.L. Polk Co Publishers	
	Matthews Danl S gard	R.L. Polk Co Publishers	
	Madison Iva S dom	R.L. Polk Co Publishers	
1920	Kinnear Chas A Grace P pres G Kinnear Co h	R.L. Polk Co Publishers	
		R.L. Polk Co Publishers	

## FINDINGS

### 812 QUEEN ANNE DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Westoby Wm P	R.L. Polk Co publishers	Image pg. A170
	Morwena Apartments	R.L. Polk Co publishers	Image pg. A170
1935	Fredlund Kenneth elk WCE&PA r	R.L. Polk Co Publishers	
	Edlunds Naomi clk WCE&PA r	R.L. Polk Co Publishers	
	Avery Ida S wid Wm A h	R.L. Polk Co Publishers	
1930	AVERY Margaret H sten r	R.L. Polk Co Publishers	
	AVERY Ida S wid Wm A h	R.L. Polk Co Publishers	
	Armistead Helen L sten CD Stimson Co r	R.L. Polk Co Publishers	
	Avery Dorothy L r	R.L. Polk Co Publishers	
1925	Veberg Ragnald dom	R.L. Polk Co Publishers	
	AVERY Ida S wid Wm A h	R.L. Polk Co Publishers	
1920	Avery Ida S wid Wm A h	R.L. Polk Co Publishers	

### 819 QUEEN ANNE DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Klnnear Geo C	R.L. Polk Co publishers	Image pg. A170
1935	Simmons Eva h	R.L. Polk Co Publishers	
	Gertrude E sten NPRy r	R.L. Polk Co Publishers	
	WALLACE Gertrude A asst Wm J Jones r	R.L. Polk Co Publishers	
1930	IRELANID John T Essie wtchmn AOCo h 4123	R.L. Polk Co Publishers	
	SIMMONS Eva H h	R.L. Polk Co Publishers	
	IRELANID Hellena B Mrs nurse r	R.L. Polk Co Publishers	
1925	Eva r	R.L. Polk Co Publishers	
	SIMIONS COMPANY THE D W Gillespie I VMgr Manufacturers of Brass and Steel Beds 1st Av S and Spokana	R.L. Polk Co Publishers	
	Kinnear Angie C wid Geo h	R.L. Polk Co Publishers	
1920	Kinnear Angie C wid Geo h	R.L. Polk Co Publishers	
	SIMMONS Eva r	R.L. Polk Co Publishers	

### 822 QUEEN ANNE DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Woolsey Mae H A AT	R.L. Polk Co Publishers	Image pg. A101
	KlInghack Martha B Mrs A AT	R.L. Polk Co Publishers	Image pg. A101
	Vacant	R.L. Polk Co Publishers	Image pg. A101
	Carter Mary A A AT	R.L. Polk Co Publishers	Image pg. A101
	Baker Rhea	R.L. Polk Co Publishers	Image pg. A101
	Fudge Loretta	R.L. Polk Co Publishers	Image pg. A101

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Crisp Kathleen IF Mrs	R.L. Polk Co Publishers	Image pg. A101
	Hanson Mattie B A AT	R.L. Polk Co Publishers	Image pg. A101
	Fuglestad Leonard	R.L. Polk Co Publishers	Image pg. A101
	Ruden Robt J	R.L. Polk Co Publishers	Image pg. A101
	Smith I Thos A AT	R.L. Polk Co Publishers	Image pg. A101
	Putnam Ellis L A AT	R.L. Polk Co Publishers	Image pg. A101
	Otis Annette	R.L. Polk Co Publishers	Image pg. A101
	Schmidt Wm J	R.L. Polk Co Publishers	Image pg. A101
	Mischaud Hazel	R.L. Polk Co Publishers	Image pg. A101
	Mehan Paul G A AT	R.L. Polk Co Publishers	Image pg. A101
	Bianchi Kathryn Mrs A AT	R.L. Polk Co Publishers	Image pg. A101
	Vacant	R.L. Polk Co Publishers	Image pg. A101
	Diunsmioor E Mrs	R.L. Polk Co Publishers	Image pg. A101
	Kallgren Esther K	R.L. Polk Co Publishers	Image pg. A101
	Vacant	R.L. Polk Co Publishers	Image pg. A101
	Roberts Loncil M Mrs A AT	R.L. Polk Co Publishers	Image pg. A101
	Castle Court Apartments	R.L. Polk Co Publishers	Image pg. A101
1940	Castle Court Apartments	R.L. Polk Co publishers	Image pg. A170
	Leonard Lee J mgr	R.L. Polk Co publishers	Image pg. A170
	Borcher Adele Mrs	R.L. Polk Co publishers	Image pg. A170
	Boydston Max L	R.L. Polk Co publishers	Image pg. A170
	Brown Edw W	R.L. Polk Co publishers	Image pg. A170
	Cleveland Chas	R.L. Polk Co publishers	Image pg. A170
	Edwards Fred W	R.L. Polk Co publishers	Image pg. A170
	Fletcher Roland E	R.L. Polk Co publishers	Image pg. A170
	Frazelle Evelyn C Mrs	R.L. Polk Co publishers	Image pg. A170
	Guinotte John A	R.L. Polk Co publishers	Image pg. A170
	Mahaffey Clarence E	R.L. Polk Co publishers	Image pg. A170
	Malone Robt J	R.L. Polk Co publishers	Image pg. A170
	Mehan Paul	R.L. Polk Co publishers	Image pg. A170
	Norwood Bertha Mrs	R.L. Polk Co publishers	Image pg. A170
	Prater Bertha Mrs	R.L. Polk Co publishers	Image pg. A170
	Radovich N Jos	R.L. Polk Co publishers	Image pg. A170
	Saarela John H	R.L. Polk Co publishers	Image pg. A170
Sanborn Olga	R.L. Polk Co publishers	Image pg. A170	
Swedman Walter F	R.L. Polk Co publishers	Image pg. A170	
Wende Chas T	R.L. Polk Co publishers	Image pg. A170	
Young C W	R.L. Polk Co publishers	Image pg. A170	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Aloha and W Aloha begin	R.L. Polk Co publishers	Image pg. A170
1935	BRENNAN Eliz wid Jos h	R.L. Polk Co Publishers	
	COOK Louis A r	R.L. Polk Co Publishers	
	Glennan Gaynelle Mrs h	R.L. Polk Co Publishers	
	Glennan Willard B r	R.L. Polk Co Publishers	
	Groh Val Savoy Barber Shop h	R.L. Polk Co Publishers	
	Guinotte John Sarah M civ eng CMSt P&PRRCo h	R.L. Polk Co Publishers	
	Guinotte Sarah M Mrs slsw n F&N h	R.L. Polk Co Publishers	
	Hyde Clara wrid Thos h	R.L. Polk Co Publishers	
	LEONARD Lee J Josephine A mgr Browne Cassel Apts h	R.L. Polk Co Publishers	
	Oregonian Madeline I r	R.L. Polk Co Publishers	
	Betty stdt r	R.L. Polk Co Publishers	
	Oregonian Robt E r	R.L. Polk Co Publishers	
	Stein Hazel M leatherwkr Northwestern Luggage Co r	R.L. Polk Co Publishers	
	Tru Wm W Mabel G v pres Industrial Products Co h	R.L. Polk Co Publishers	
1930	Bert Fred W jr slsmn h	R.L. Polk Co Publishers	
	av apt 16	R.L. Polk Co Publishers	
	Bert Wilfred K instr Modern Sch of Radio Service r	R.L. Polk Co Publishers	
	Brennan Eliz wid Jos r	R.L. Polk Co Publishers	
	42	R.L. Polk Co Publishers	
	Browne see also Braun and Brown well Jr mgr	R.L. Polk Co Publishers	
	COOK Cathorn stdt r	R.L. Polk Co Publishers	
	45	R.L. Polk Co Publishers	
	CURRY Gertrude M Mrs bkpr W H Pierson Co Inc h	R.L. Polk Co Publishers	
	Galer Herbt E clk Crane Co r	R.L. Polk Co Publishers	
	av apt 26	R.L. Polk Co Publishers	
	HART Frances Mrs r	R.L. Polk Co Publishers	
	26	R.L. Polk Co Publishers	
	Kimiya fctywkr Howe Co Inc r 1626	R.L. Polk Co Publishers	
	Hasbrouck Lester L Grace L slsmn h	R.L. Polk Co Publishers	
	Mathew Georgia E sht mti wks 322	R.L. Polk Co Publishers	
	Hyde Thos slsmn r	R.L. Polk Co Publishers	
	Thos J Clara h	R.L. Polk Co Publishers	
	apt 32	R.L. Polk Co Publishers	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Insp Serv State Dept of Agri h 4613	R.L. Polk Co Publishers
	Jeffrey Grace M r	R.L. Polk Co Publishers
	Grocery h	R.L. Polk Co Publishers
	JTensen Anna F wid Hans r	R.L. Polk Co Publishers
	apt 14	R.L. Polk Co Publishers
	Neilson see also Neilsen Nelson Nielsen and Nielson Agnes Mrs elk King Co Humane Society	R.L. Polk Co Publishers
	h	R.L. Polk Co Publishers
	Andw Adeline S wood turner h 2213	R.L. Polk Co Publishers
	Pape Aloys H slswn Seattle Paper Co h	R.L. Polk Co Publishers
	Pape Donald elk r	R.L. Polk Co Publishers
	n Dorothy T slswn Bon Marche r 822	R.L. Polk Co Publishers
	Thompson h	R.L. Polk Co Publishers
	Peyton Dorothy S Mrs X ray technician H B	R.L. Polk Co Publishers
	21	R.L. Polk Co Publishers
	Peyton M Harry Hazel state agt National	R.L. Polk Co Publishers
	Ida wid D P r	R.L. Polk Co Publishers
	Sackett Helen M Mrs elk F W Woolworth Co r	R.L. Polk Co Publishers
	21	R.L. Polk Co Publishers
	SW Chauncey H Therzy h	R.L. Polk Co Publishers
	av apt 24	R.L. Polk Co Publishers
	Southwell Ambrose N jr Anna M mgr	R.L. Polk Co Publishers
	Browne Cassel Apts h	R.L. Polk Co Publishers
	av apt 14	R.L. Polk Co Publishers
Truesdell Wm W Mabel G purch agt PC&FCo h	R.L. Polk Co Publishers	
WATKINS John W dist slsmgr Ohio Brass Co h	R.L. Polk Co Publishers	
1925	HAMMER Herbt H Cath ofc mgr Schermmerhorn Bros Co	R.L. Polk Co Publishers
	Houle Frank L slsmn General Factors Inc	R.L. Polk Co Publishers
	Hu Thos J Clara	R.L. Polk Co Publishers
	Jno A Anna C dept mgr USSB	R.L. Polk Co Publishers
	Mc Keown Alba G dentist	R.L. Polk Co Publishers
	MARSHALL	R.L. Polk Co Publishers
	Dental bldg	R.L. Polk Co Publishers
	Ryrie Donald Coletta agt Port of Seat	R.L. Polk Co Publishers
	Brennan Clarence W carp r	R.L. Polk Co Publishers

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	g Elizab wid Jos	R.L. Polk Co Publishers
	BROWN Cassell Apartments	R.L. Polk Co Publishers
	Browne Cassel Apartments	R.L. Polk Co Publishers
	Chas H Gertrude M master mariner	R.L. Polk Co Publishers
	Curry Chas porter h I	R.L. Polk Co Publishers
	Curry Gertrude M Mrs bkpr W H Pierson Co Inc r	R.L. Polk Co Publishers
	DAVIS Lita	R.L. Polk Co Publishers
	DAVIS Louis L broker	R.L. Polk Co Publishers
	Denton Frances sten	R.L. Polk Co Publishers
	DICKIEY Roy N Prances E v pres Meets ANeed Mfg Co	R.L. Polk Co Publishers
	tle	R.L. Polk Co Publishers
	Spangenberg Chas H Lou M slsmn WV &Co	R.L. Polk Co Publishers R.L. Polk Co Publishers
	Vincent H Curtis Evelyn R traf and pass agt AT&SFRy	R.L. Polk Co Publishers
	Washington Harry E clk	R.L. Polk Co Publishers
	WATKINS Jno W trav	R.L. Polk Co Publishers
	WHEELER Jas A Doris R slsmn CCBGCo	R.L. Polk Co Publishers
	Beecher Herbt F Grace master mariner	R.L. Polk Co Publishers
1920	Barrall Arthur D Elizabeth acet 500	R.L. Polk Co Publishers
	Lowman bldg h	R.L. Polk Co Publishers
	Beecher	R.L. Polk Co Publishers
	BBOW Castle Apartments	R.L. Polk Co Publishers
	Hardebeck	R.L. Polk Co Publishers
	Lachman Benj Ethel trav salsn h 22	R.L. Polk Co Publishers
	Mc Everett C Venita sales mgr Burke & Farrar h	R.L. Polk Co Publishers

### QUEEN ANNE DR E

#### 5 QUEEN ANNE DR E

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1955	th av N intersects	R.L. Polk Co Publishers

Image pg. A132

### QUEENANNE AVE

#### 1 QUEENANNE AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	OLSEN Thor	R.L. Polk Co Publishers

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	NELSON Car	R.L. Polk Co Publishers

### **R H 615 QUEEN ANNE AVE**

#### **1 R H 615 QUEEN ANNE AVE**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Case Rebecca A wid Ear	R.L. Polk Co Publishers

### **RAY**

#### **2 RAY**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	d av N intersects	R.L. Polk Co Publishers	Image pg. A133

#### **4 RAY**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N Intersects	R.L. Polk Co Publishers	Image pg. A133

#### **8 RAY**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Duren Emma E Mlrs	R.L. Polk Co Publishers	Image pg. A133

#### **9 RAY**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	La Grandeur Bernard G	R.L. Polk Co Publishers	Image pg. A133

#### **10 RAY**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Rutherford Harry W	R.L. Polk Co Publishers	Image pg. A133

#### **14 RAY**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Krause Frank M	R.L. Polk Co Publishers	Image pg. A133

#### **15 RAY**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Johnson C Patk O	R.L. Polk Co Publishers	Image pg. A133

#### **16 RAY**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Gillgan Wm A	R.L. Polk Co Publishers	Image pg. A133

## FINDINGS

### 21 RAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Iles John SO	R.L. Polk Co Publishers	Image pg. A133

### 22 RAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Burns Ellen J Mrs	R.L. Polk Co Publishers	Image pg. A133

### 115 RAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Lidgate Robt J	R.L. Polk Co Publishers	Image pg. A133

### 116 RAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	leckendorf Ewald A	R.L. Polk Co Publishers	Image pg. A133

### Ray M Merci elk City Light Dept .h 4559 St

#### 1 Ray M Merci elk City Light Dept .h 4559 St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1935	FERGUT ON Pear	R.L. Polk Co Publishers	

### RAY St

#### 3 RAY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Duren Patk	R. L. Polk & Co.	Image pg. A161

### RAY ST

#### 8 RAY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Church Ruth M	R.L. Polk Co Publishers	Image pg. A148

### RAY St

#### 8 RAY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Thomason Leslie	R.L. Polk Co publishers	Image pg. A174

## FINDINGS

### RAY ST

#### 9 RAY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Durham Oran AL	R.L. Polk Co Publishers	Image pg. A148

### RAY St

#### 9 RAY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Walls F Wesley	R. L. Polk & Co.	Image pg. A161
	Helgren Robt E	R. L. Polk & Co.	Image pg. A161
1940	Gretorex Ruby N Mrs	R.L. Polk Co publishers	Image pg. A174

### RAY ST

#### 10 RAY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Rutherford H W GA	R.L. Polk Co Publishers	Image pg. A148

### RAY St

#### 10 RAY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Outherford Harry W	R. L. Polk & Co.	Image pg. A161
1940	Rutherford Harry W	R.L. Polk Co publishers	Image pg. A174

### RAY ST

#### 14 RAY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Krause F M 6 AL	R.L. Polk Co Publishers	Image pg. A148

### RAY St

#### 14 RAY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Leisa Jesse K	R. L. Polk & Co.	Image pg. A161
1940	Leise Jesse K	R.L. Polk Co publishers	Image pg. A174
1935	Jos J Iris M slsmn Texas Co h	R.L. Polk Co Publishers	
	Dailey Jas R stdt r	R.L. Polk Co Publishers	
1930	Leo M Salome mech CHWInc h 2617	R.L. Polk Co Publishers	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	DAILEY Iris M sten NWMFA r	R.L. Polk Co Publishers
	DAILEY Jos J slsmn Texas Co r	R.L. Polk Co Publishers

### RAY ST

#### 15 RAY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Johnson C FP 6 GA	R.L. Polk Co Publishers	Image pg. A148

### RAY St

#### 15 RAY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	o Johnson C Patk	R. L. Polk & Co.	Image pg. A161
1940	Johnson Patk	R.L. Polk Co publishers	Image pg. A174
1935	Rasamen Regina S dom	R.L. Polk Co Publishers	
1930	JONES Wm P r	R.L. Polk Co Publishers	
	W Wm P Mary E shoemkr h	R.L. Polk Co Publishers	

### RAY ST

#### 16 RAY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Staley J T Mrs GA	R.L. Polk Co Publishers	Image pg. A148

### RAY St

#### 16 RAY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Brown Wilhelmina E M 3rs	R. L. Polk & Co.	Image pg. A161
1940	Schrader Wm	R.L. Polk Co publishers	Image pg. A174
1935	Bachelor Elda W Mrs inspr Paramount Picture Distr Co h	R.L. Polk Co Publishers	
1930	RINGER Irving W Irene E pres Associated Packing Co Inc pres Associated ByProducts Co Inc hl	R.L. Polk Co Publishers	
	Katz Karl K Ruth M trav pass agt NPRY h	R.L. Polk Co Publishers	
1925	KATZ Karl K Ruth M elk NPRy h	R.L. Polk Co Publishers	
1920	ALBRIGHT Geo H Grace A lab h	R.L. Polk Co Publishers	

## FINDINGS

### RAY ST

#### 21 RAY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Iles J S 6 GA	R.L. Polk Co Publishers	Image pg. A148

### RAY St

#### 21 RAY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Iles John S	R. L. Polk & Co.	Image pg. A161
1940	Sidcerius Raymond H	R.L. Polk Co publishers	Image pg. A174
1935	Siderius Raymond H Cath A eng PT&TCo h	R.L. Polk Co Publishers	
1925	BROWN Esther M asst sec Industrial Finance Co h	R.L. Polk Co Publishers	

### RAY ST

#### 22 RAY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Sexton Cath M GA	R.L. Polk Co Publishers	Image pg. A148

### RAY St

#### 22 RAY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Kelly Lillian C Mrs	R. L. Polk & Co.	Image pg. A161
	Burns Ellen J Mrs	R. L. Polk & Co.	Image pg. A161
	Sexton Cath M	R. L. Polk & Co.	Image pg. A161
1940	Vacant	R.L. Polk Co publishers	Image pg. A174
1935	BURNS Ellen J wid Clyde nurse	R.L. Polk Co Publishers	
	Sexton Cath M clk h	R.L. Polk Co Publishers	
	Sexton Dorothy R private sec KCHS r	R.L. Polk Co Publishers	
1930	B 3 URNS	R.L. Polk Co Publishers	
	Ellen J wid Clyde r	R.L. Polk Co Publishers	
	Sexton Cath M r	R.L. Polk Co Publishers	
	Sexton Chas J Mary L Sexton Optical Co	R.L. Polk Co Publishers	
	Sexton Mary M wid Danl h	R.L. Polk Co Publishers	
1925	Berridge Arthur Mary B slsmn E C Busse h	R.L. Polk Co Publishers	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Grafton Catherine Mrs bkpr Love Warren Monroe Co r	R.L. Polk Co Publishers
	Grafton Guy N Catherine salsn h	R.L. Polk Co Publishers

### RAY ST

#### 115 RAY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Lidgaate I J GA	R.L. Polk Co Publishers	Image pg. A148

### RAY St

#### 115 RAY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Lidgate Robt J	R. L. Polk & Co.	Image pg. A161

### RAY ST

#### 116 RAY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Heckendort E A 6 GA	R.L. Polk Co Publishers	Image pg. A148

### RAY St

#### 116 RAY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Reynolds Wm H	R. L. Polk & Co.	Image pg. A161
1940	Reynolds Wm H	R.L. Polk Co publishers	Image pg. A174
1935	REYNOLDS Wm A Lola M seamn h	R.L. Polk Co Publishers	

#### 117 RAY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Spanos Louis lab r	R.L. Polk Co Publishers

### RAY ST W

#### 4 RAY ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Roach M H	R.L. Polk Co Publishers	Image pg. A148

## FINDINGS

### 8 RAY ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Church C C 6 GA	R.L. Polk Co Publishers	Image pg. A148

### 11 RAY ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Wand C H AL	R.L. Polk Co Publishers	Image pg. A148

### 14 RAY ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Daidsaon B R AL	R.L. Polk Co Publishers	Image pg. A148

### 17 RAY ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Vacant	R.L. Polk Co Publishers	Image pg. A148

### 18 RAY ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Satoris Fredk GA	R.L. Polk Co Publishers	Image pg. A148

### 21 RAY ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Bergman 3 Md GA	R.L. Polk Co Publishers	Image pg. A148

### 22 RAY ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Weld P 0 6 GA	R.L. Polk Co Publishers	Image pg. A148

### 23 RAY ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Shelley B F 6 GA	R.L. Polk Co Publishers	Image pg. A148

### 103 RAY ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Anderson A I GA	R.L. Polk Co Publishers	Image pg. A148

### 107 RAY ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Mc Gregor J A 6 GA	R.L. Polk Co Publishers	Image pg. A148

### 109 RAY ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Wick H C 6 GA	R.L. Polk Co Publishers	Image pg. A148

## FINDINGS

### 115 RAY ST W

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Hart Victor 8 writer	R.L. Polk Co Publishers	Image pg. A148
	Evergreen Park	R.L. Polk Co Publishers	Image pg. A148

### RIOY St

#### 11 RIOY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	r	R.L. Polk Co Publishers
	MADISON Madeline art gds	R.L. Polk Co Publishers

### ROY

#### 1 ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	st av N Intersects	R.L. Polk Co Publishers	Image pg. A134
	Mc Cread Joanna E Mrs	R.L. Polk Co Publishers	Image pg. A134
1935	WALLACE Frank J Edith	R.L. Polk Co Publishers	

#### 3 ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	d av N intersects	R.L. Polk Co Publishers	Image pg. A134

#### 4 ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N Intersects	R.L. Polk Co Publishers	Image pg. A134

#### 5 ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N Intersects	R.L. Polk Co Publishers	Image pg. A134

#### 6 ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A134

#### 8 ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A134

## FINDINGS

### 9 ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Marqueen Garage rear entr	R.L. Polk Co Publishers	Image pg. A105
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A134
	Marqueen Garage rear	R.L. Polk Co Publishers	Image pg. A134

### 12 ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Regal Barber Shop Robt Oliver 500	R.L. Polk Co Publishers
	Refsnes Ole fishermn r	R.L. Polk Co Publishers

### 13 ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A134

### 14 ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Paramount Clns A AT	R.L. Polk Co Publishers	Image pg. A105
1955	Matelot Inc dlo clns	R.L. Polk Co Publishers	Image pg. A134

### 15 ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	St Pauls Episcopal Cli A AT	R.L. Polk Co Publishers	Image pg. A105
	Schnellhardt Wo	R.L. Polk Co Publishers	Image pg. A105
1955	St Pauls Epis Ch	R.L. Polk Co Publishers	Image pg. A134
1940	St Pauls Episcopal Church	R.L. Polk Co publishers	Image pg. A175
1935	tor	R.L. Polk Co Publishers	
	St Episcopal Church Rev H Sidney Morgan pas	R.L. Polk Co Publishers	
	Shaw Benj janitor St Pauls Episcopal Ch h	R.L. Polk Co Publishers	
1930	Episcopal Church	R.L. Polk Co Publishers	
	Shaw Benj janitor SFCo r	R.L. Polk Co Publishers	
	Bosti Ceasar lab r	R.L. Polk Co Publishers	
	Bostian Arth E Emma mech h 1210	R.L. Polk Co Publishers	
	Medica Louise Mrs rl	R.L. Polk Co Publishers	
	ST & Tacoma Employment Office Mrs Ella	R.L. Polk Co Publishers	
1925	Bliss Horace B Marguerite h	R.L. Polk Co Publishers	
	St Pauls Episcopal Church	R.L. Polk Co Publishers	
	EWru	R.L. Polk Co Publishers	
	SEci r	R.L. Polk Co Publishers	

## FINDINGS

### 16 ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	Chas N Florence C checker h	R.L. Polk Co Publishers
	DAWSON Chas B Mary contr h	R.L. Polk Co Publishers
	Eric r	R.L. Polk Co Publishers
	Schmidt Adolf F Maud E foremn BACo	R.L. Polk Co Publishers
	Nystrom Matilda E filer Bradstreet Co r	R.L. Polk Co Publishers
	av h	R.L. Polk Co Publishers
	Nystrom Andw Olga shoemkr	R.L. Polk Co Publishers
1920	Seil Mary wid Abraham h	R.L. Polk Co Publishers
	Nystrom Andw Olga Queen Anne Shoe Shop h	R.L. Polk Co Publishers
	Kavanaugh Lester L Mattie shipwkr h	R.L. Polk Co Publishers

### 17 ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Lusher Nonie Mrs clk STInc hl	R.L. Polk Co Publishers
1920	ST s Episcopal Church	R.L. Polk Co Publishers

### 21 ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Giles Geo A installer WECO Inc r	R.L. Polk Co Publishers

### Roy

### 22 Roy

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	Whittemore Clement J lawyer 553	R.L. Polk Co Publishers

### ROY

### 22 ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	AUSTIN John S draftsman r	R.L. Polk Co Publishers

### 27 ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Macllat Painlanna A AT	R.L. Polk Co Publishers	Image pg. A105
	Maries Beauty Shop A AT	R.L. Polk Co Publishers	Image pg. A105
	Mc Kendry Chas A AT	R.L. Polk Co Publishers	Image pg. A105
1955	Maries Beauty Shop	R.L. Polk Co Publishers	Image pg. A134

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Mc Kendry Marle Mrs	R.L. Polk Co Publishers	Image pg. A134
1940	Preuss Louis	R.L. Polk Co publishers	Image pg. A175
	Shapton Fredk	R.L. Polk Co publishers	Image pg. A175
	Tritch Monty	R.L. Polk Co publishers	Image pg. A175
1935	Dutton A C Lumber Corp Leonard Schumaker	R.L. Polk Co Publishers	
	Preuss Louis mach r	R.L. Polk Co Publishers	
	Eliz F wid Wm C h	R.L. Polk Co Publishers	
1930	Wing Benj r	R.L. Polk Co Publishers	
	Twitchell Maud wid Chas M h	R.L. Polk Co Publishers	
	Louis mach r	R.L. Polk Co Publishers	
	Preuss Carl lab Bryant Lbr Co	R.L. Polk Co Publishers	
	Granger Wm B trmn SMRy r	R.L. Polk Co Publishers	
	Delaney Wm D Laura mach Rossoe Mfg Co h	R.L. Polk Co Publishers	
	BLACK Louis C Ruth E trucker ACCo h	R.L. Polk Co Publishers	
1925	Twitchell Maude Mrs r	R.L. Polk Co Publishers	
	Twitchell Chas M Hester M h	R.L. Polk Co Publishers	
	Louis C Ruth E lab h	R.L. Polk Co Publishers	
	BLACK Louis r	R.L. Polk Co Publishers	
1920	Twitchell Chas Maud h	R.L. Polk Co Publishers	
	REESE Rudolph R r	R.L. Polk Co Publishers	
	Preuss Louis macht r	R.L. Polk Co Publishers	
	BXADY Mathew P r	R.L. Polk Co Publishers	
	Waldeck Wm B lino opr r	R.L. Polk Co Publishers	

### 28 ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Harriss Emmett W	R.L. Polk Co publishers	Image pg. A175
	Stevens Howard B	R.L. Polk Co publishers	Image pg. A175
1935	HARRIS Emmett Maud D slsmn h	R.L. Polk Co Publishers	
1930	Hairdressing Emmet W Maud agt Guarantee Cash Register Co h	R.L. Polk Co Publishers	
	Naughton Gene r	R.L. Polk Co Publishers	
1925	HARRIS Emmett Maud slsmn h	R.L. Polk Co Publishers	
1920	Spring Clayton stngr r	R.L. Polk Co Publishers	
	Radosavich Emerick salsn r	R.L. Polk Co Publishers	
	Licitar Alexander chemist r	R.L. Polk Co Publishers	
	JOHNSON Edwin A elk h	R.L. Polk Co Publishers	
	HARRIS Emmett Maud salsn h	R.L. Polk Co Publishers	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Ailes Elsinio salsn r	R.L. Polk Co Publishers

### 100 ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	A 43 OBrien Carol A AT	R.L. Polk Co Publishers	Image pg. A105
	A 42 Fennestad Archie V A AT	R.L. Polk Co Publishers	Image pg. A105
	One Hundred Roy Street Apartments A AT	R.L. Polk Co Publishers	Image pg. A105
	A 10 Vacant All Neville TT P A AT	R.L. Polk Co Publishers	Image pg. A105
	A 20 Hoffman Henry A AT	R.L. Polk Co Publishers	Image pg. A105
	A 21 Egar Alexandra Mrs A AT	R.L. Polk Co Publishers	Image pg. A105
	A 22 Newell Robt H A 23 Larson Natalie W A AT	R.L. Polk Co Publishers	Image pg. A105
	A 30 Brown Maryan J Mrs A AT	R.L. Polk Co Publishers	Image pg. A105
	A 31 Kulander John H A AT	R.L. Polk Co Publishers	Image pg. A105
	A 32 Riedel Erich C A AT	R.L. Polk Co Publishers	Image pg. A105
	A 33 Lee Anna C Mrs A 40 Bullock Harvey H A AT	R.L. Polk Co Publishers	Image pg. A105
	A 41 Ramnco Mfg & Engineering Co dlec heaters A AT	R.L. Polk Co Publishers	Image pg. A105
	Hdstrom Carl A	R.L. Polk Co Publishers	Image pg. A105
1955	One Hundred Roy Street	R.L. Polk Co Publishers	Image pg. A134
	A 010 Vacant	R.L. Polk Co Publishers	Image pg. A134
	All Neville Chas R	R.L. Polk Co Publishers	Image pg. A134
	A 20 Hoffmann Henry	R.L. Polk Co Publishers	Image pg. A134
	A 21 Seymour Sarah B Mrs	R.L. Polk Co Publishers	Image pg. A134
	A 22 Sandell Lela Mrs	R.L. Polk Co Publishers	Image pg. A134
	A 23 Haner Kenneth L	R.L. Polk Co Publishers	Image pg. A134
	A 30 Browne Maran J Mrs	R.L. Polk Co Publishers	Image pg. A134
	A 31 Mc Hugh Edw F	R.L. Polk Co Publishers	Image pg. A134
	A 32 Finirel Anner J	R.L. Polk Co Publishers	Image pg. A134
	A 33 Welch Selma F Mrs	R.L. Polk Co Publishers	Image pg. A134
	A 40 Berry Jas L	R.L. Polk Co Publishers	Image pg. A134
	A 41 Long Spencer D	R.L. Polk Co Publishers	Image pg. A134
	A 43 Donalds R E	R.L. Polk Co Publishers	Image pg. A134
	A 42 Vacant	R.L. Polk Co Publishers	Image pg. A134

### 107 ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	Bucey Gerald H Elizabeth M Huffer Hayden Merritt Summers & Bucey h	R.L. Polk Co Publishers

## FINDINGS

### 108 ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	B 43 Selesnick Beverly A AT	R.L. Polk Co Publishers	Image pg. A105
	One Hundred Eight Roy	R.L. Polk Co Publishers	Image pg. A105
	B 21 Hanawalt Anne D Mrs A AT	R.L. Polk Co Publishers	Image pg. A105
	B 22 CGlover Pearl M Mrs A AT	R.L. Polk Co Publishers	Image pg. A105
	B 23 Goodson Win M A AT	R.L. Polk Co Publishers	Image pg. A105
	B 30 Seim Oliver P A AT	R.L. Polk Co Publishers	Image pg. A105
	B 31 Powers Alex F A AT	R.L. Polk Co Publishers	Image pg. A105
	B 32 Kacer tiuth A AT	R.L. Polk Co Publishers	Image pg. A105
	B 33 Smith Grace M Mrs	R.L. Polk Co Publishers	Image pg. A105
	B 40 Christie Thelma I Mrs B 41 Tilton Evelyn C A AT	R.L. Polk Co Publishers	Image pg. A105
B 42 Vacant	R.L. Polk Co Publishers	Image pg. A105	
1955	B 42 Gallagher Ollie M 1 Mrs	R.L. Polk Co Publishers	Image pg. A134
	B 43 Hill Gordon T	R.L. Polk Co Publishers	Image pg. A134
	One Hundred Eight Roy	R.L. Polk Co Publishers	Image pg. A134
	B 21 Leder Michael	R.L. Polk Co Publishers	Image pg. A134
	B 22 Hansen Ivan S	R.L. Polk Co Publishers	Image pg. A134
	B 23 Goodson Wm M	R.L. Polk Co Publishers	Image pg. A134
	B 30 Seim O Parks	R.L. Polk Co Publishers	Image pg. A134
	B 31 Peterson Myrtle A Mlrs	R.L. Polk Co Publishers	Image pg. A134
	B 32 Felzer Mary	R.L. Polk Co Publishers	Image pg. A134
	B 33 Smith Grace M 1 Mrs	R.L. Polk Co Publishers	Image pg. A134
B 40 Sommers Sam	R.L. Polk Co Publishers	Image pg. A134	
B 41 Tilton Evelyn C	R.L. Polk Co Publishers	Image pg. A134	
B 20 Hanawalt Anne D Mrs	R.L. Polk Co Publishers	Image pg. A134	

### 112 ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	C 42 Byrholdt Plillis M A AT	R.L. Polk Co Publishers	Image pg. A105
	C 41 Vacant	R.L. Polk Co Publishers	Image pg. A105
	C 40 Whitworti F Hale A AT	R.L. Polk Co Publishers	Image pg. A105
	C 33 Vacant	R.L. Polk Co Publishers	Image pg. A105
	C 32 Stevenson John H jr A AT	R.L. Polk Co Publishers	Image pg. A105
	C 31 Hanson Elma A AT	R.L. Polk Co Publishers	Image pg. A105
	C 30 Rossell Ruth E Mrs A AT	R.L. Polk Co Publishers	Image pg. A105
	C 23 Dawley Dorothy J Mrs A AT	R.L. Polk Co Publishers	Image pg. A105
	C 21 Lynch Florence Mrs C 22 Barth Frances L A AT	R.L. Polk Co Publishers	Image pg. A105

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	C 20 Bell Frances C Mrs A AT	R.L. Polk Co Publishers	Image pg. A105
	C 11 Mc Daniel Jack W A AT	R.L. Polk Co Publishers	Image pg. A105
	C 10 Berner Lucille Mrs A AT	R.L. Polk Co Publishers	Image pg. A105
	One Hundred Twelve Roy	R.L. Polk Co Publishers	Image pg. A105
	C 43 Bitz Hildegard C A AT	R.L. Polk Co Publishers	Image pg. A105
1955	C 100 Berner Lillian Mrs	R.L. Polk Co Publishers	Image pg. A134
	CII Trenkenschuh Leonard ingr	R.L. Polk Co Publishers	Image pg. A134
	C 20 Vacant	R.L. Polk Co Publishers	Image pg. A134
	Burt Chas E	R.L. Polk Co Publishers	Image pg. A134
	C 22 Lindstrom Carl A	R.L. Polk Co Publishers	Image pg. A134
	C 23 Way Ellien B Mrs	R.L. Polk Co Publishers	Image pg. A134
	C 30 Adams Walde L	R.L. Polk Co Publishers	Image pg. A134
	C 31 Von Klein Louis jr	R.L. Polk Co Publishers	Image pg. A134
	C 32 Hansen Carl L	R.L. Polk Co Publishers	Image pg. A134
	C 33 Hooper Luva L	R.L. Polk Co Publishers	Image pg. A134
	C 40 Whitworth F Hale	R.L. Polk Co Publishers	Image pg. A134
	C 43 Campbell C	R.L. Polk Co Publishers	Image pg. A134
	C 42 Rutt Eug M	R.L. Polk Co Publishers	Image pg. A134
	C 41 Palmer Sami	R.L. Polk Co Publishers	Image pg. A134
	One Hundred Twelve Roy	R.L. Polk Co Publishers	Image pg. A134
1940	Hinman Clifford M	R.L. Polk Co publishers	Image pg. A175
	Vacant	R.L. Polk Co publishers	Image pg. A175
1935	Mc Geo F Ida plmbr h	R.L. Polk Co Publishers	
1930	Mc Kasson Clyde H stdt Uof W r	R.L. Polk Co Publishers	
1925	REINTERTSEN	R.L. Polk Co Publishers	
	Theo B window clnr h	R.L. Polk Co Publishers	
	Sunde Louis Ella fishermn h	R.L. Polk Co Publishers	
1920	FICTEr Louis T r	R.L. Polk Co Publishers	
	Reinertsen Theo B Jessie barber av h	R.L. Polk Co Publishers R.L. Polk Co Publishers	

### 115 ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Hegstrom Ester	R.L. Polk Co Publishers	Image pg. A105
1955	Campbell Johanna Mrs	R.L. Polk Co Publishers	Image pg. A134
1940	Adolfson Einar M	R.L. Polk Co publishers	Image pg. A175
1935	Bandenberg Peter C Bell cook h	R.L. Polk Co Publishers	
	WALKER Emerson L Mattie lab r	R.L. Polk Co Publishers	
1925	FRENCH Norman K Audrey I mech h	R.L. Polk Co Publishers	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	Breen Walter G Ada E trmn h	R.L. Polk Co Publishers
	FRENCH Nell M cashr RDS r	R.L. Polk Co Publishers
	Roy Nellie h	R.L. Polk Co Publishers
1920	Weir Wm watchman r	R.L. Polk Co Publishers

### 116 ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	D 43 Kirkmeyer Lawrence	R.L. Polk Co Publishers	Image pg. A105
	D 42 Dixon Win J A AT	R.L. Polk Co Publishers	Image pg. A105
	One Hundred Sixteen Roy	R.L. Polk Co Publishers	Image pg. A105
	D 20 Gaukel Jean C Mrs A AT	R.L. Polk Co Publishers	Image pg. A105
	D 21 Noyer Jewell Mrs A AT	R.L. Polk Co Publishers	Image pg. A105
	D 22 Dahli Bernice M Mrs A AT	R.L. Polk Co Publishers	Image pg. A105
	D 23 Ropp R illo A AT	R.L. Polk Co Publishers	Image pg. A105
	D 30 Bernth Beverly M Mrs A AT	R.L. Polk Co Publishers	Image pg. A105
	D 31 Lewis Jas L A AT	R.L. Polk Co Publishers	Image pg. A105
	D 32 Ivanhoe Lucille Mrs	R.L. Polk Co Publishers	Image pg. A105
	D 33 De Vorre Helen E Mrs A AT	R.L. Polk Co Publishers	Image pg. A105
	D 40 Rockhill Win E Jr A AT	R.L. Polk Co Publishers	Image pg. A105
	D 41 Frisch Robt E A AT	R.L. Polk Co Publishers	Image pg. A105
1955	D 43 Beall Betty	R.L. Polk Co Publishers	Image pg. A134
	One Hundred Sixteen Roy	R.L. Polk Co Publishers	Image pg. A134
	D 20 OHalloran Leo	R.L. Polk Co Publishers	Image pg. A134
	D 21 Noyer Jas A Ai L	R.L. Polk Co Publishers	Image pg. A134
	D 122 Donahue Jas	R.L. Polk Co Publishers	Image pg. A134
	D 23 Ropp R Milo	R.L. Polk Co Publishers	Image pg. A134
	D 30 Lucas Margt I	R.L. Polk Co Publishers	Image pg. A134
	D 31 Nehr Jas L	R.L. Polk Co Publishers	Image pg. A134
	D 32 Lasley WA	R.L. Polk Co Publishers	Image pg. A134
	D 33 De Vore Helen Mrs	R.L. Polk Co Publishers	Image pg. A134
	D 40 Dyke R B	R.L. Polk Co Publishers	Image pg. A134
	D 41 Plant Edw G	R.L. Polk Co Publishers	Image pg. A134
	D 42 Newell R H	R.L. Polk Co Publishers	Image pg. A134
	Street continued	R.L. Polk Co Publishers	Image pg. A134
1925	Nystrom Jno reamer h	R.L. Polk Co Publishers	

### 117 ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Church of Jesus Christ of	R.L. Polk Co Publishers	Image pg. A105

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Latter Day Saints Sta Pzo Ofe A AT	R.L. Polk Co Publishers	Image pg. A105
1955	Holmes Bill B	R.L. Polk Co Publishers	Image pg. A134
	Toftoy Harry	R.L. Polk Co Publishers	Image pg. A134
1940	Vacant	R.L. Polk Co publishers	Image pg. A175
1935	Alexander Alex Arhontuola fuel	R.L. Polk Co Publishers	
	Liakatas Peter Mary lab h	R.L. Polk Co Publishers	
	Lilies Gust Marina slsmn r	R.L. Polk Co Publishers	
	Xinor Theo Dora elk Better Fuel Co r	R.L. Polk Co Publishers	
1925	Rancour Geo May condr h	R.L. Polk Co Publishers	
	Edw T elev opr h	R.L. Polk Co Publishers	
	Riviere Joe A Gertrude lab h	R.L. Polk Co Publishers	
	Mc Frank B boiler mkr h	R.L. Polk Co Publishers	
1920	Marvich Stephen Francis r	R.L. Polk Co Publishers	
	LEWIS Benj R carman r	R.L. Polk Co Publishers	
	Mravich Stephen Frances shipwkr h	R.L. Polk Co Publishers	
	Urkhart J P real est r	R.L. Polk Co Publishers	

### 119 ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	Reede Geraldine M sten Goodyear Tire & Rubber Co r	R.L. Polk Co Publishers
	JOHNSON Theo Minnie slsmn Pathe Exchange Inc	R.L. Polk Co Publishers

### 120 ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	E 31 Darrali Jane A AT	R.L. Polk Co Publishers	Image pg. A105
	E 32 Johnson Ann L Mrs A AT	R.L. Polk Co Publishers	Image pg. A105
	E 33 Dooley Mary A Mrs A AT	R.L. Polk Co Publishers	Image pg. A105
	E 40 Vacant	R.L. Polk Co Publishers	Image pg. A105
	E 41 Neiharth Olivia A AT	R.L. Polk Co Publishers	Image pg. A105
	E 42 Guzzo Alfouso K A AT	R.L. Polk Co Publishers	Image pg. A105
	E 43 Bunt Owen A AT	R.L. Polk Co Publishers	Image pg. A105
	E 30 Vacant	R.L. Polk Co Publishers	Image pg. A105
	E 22 Vacant	R.L. Polk Co Publishers	Image pg. A105
	E 23 Kindred Karen Mrs A AT	R.L. Polk Co Publishers	Image pg. A105
	E 21 OHalloran Leo A AT	R.L. Polk Co Publishers	Image pg. A105
	E 20 Way Ellien Mrs	R.L. Polk Co Publishers	Image pg. A105
	E 11 Graham Franees K Mrs A AT	R.L. Polk Co Publishers	Image pg. A105
	Hundred Twenty Roy	R.L. Polk Co Publishers	Image pg. A105

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	E 43 Soule Sadie Mrs	R.L. Polk Co Publishers	Image pg. A134
	E 42 Rowell Mary A Mrs	R.L. Polk Co Publishers	Image pg. A134
	E 41 Reill Gordon G	R.L. Polk Co Publishers	Image pg. A134
	E 40 Barrett Elsie Mrs	R.L. Polk Co Publishers	Image pg. A134
	E 33 Sarg Fredk J	R.L. Polk Co Publishers	Image pg. A134
	One Hundred Twenty Roy	R.L. Polk Co Publishers	Image pg. A134
	E 10 Wightman Walter B	R.L. Polk Co Publishers	Image pg. A134
	E 11 Graham Frances M Mrs	R.L. Polk Co Publishers	Image pg. A134
	E 20 Leland Uyuyenne Mrs	R.L. Polk Co Publishers	Image pg. A134
	E 21 Wheeler Louella H Mrs	R.L. Polk Co Publishers	Image pg. A134
	E 22 Elfers T	R.L. Polk Co Publishers	Image pg. A134
	E 23 Kindred Jos H	R.L. Polk Co Publishers	Image pg. A134
	E 30 Eger Jacob J	R.L. Polk Co Publishers	Image pg. A134
	E 31 Allen Myrtle Mrs	R.L. Polk Co Publishers	Image pg. A134
	E 22 Halferty Guy P Jr	R.L. Polk Co Publishers	Image pg. A134
1940	Vacant	R.L. Polk Co publishers	Image pg. A175
1935	Collins Marie E r	R.L. Polk Co Publishers	
	Marjorie h	R.L. Polk Co Publishers	
1930	Long Alice G stdt r	R.L. Polk Co Publishers	
	Andw J Sadie L lab h	R.L. Polk Co Publishers	
	LONG Della demonstrator RRBSInc r	R.L. Polk Co Publishers	
1925	Queen Anne av h	R.L. Polk Co Publishers	
	Mc Kasson Geo F Ida plmbr	R.L. Polk Co Publishers	
1920	Barlow Wm W clk r	R.L. Polk Co Publishers	
	Ferris Mott Maude tailor h	R.L. Polk Co Publishers	
	Halero Jessie P clk Mac D SCo r	R.L. Polk Co Publishers	
	WHALLEY John H emp Seattle Brass Co r	R.L. Polk Co Publishers	

### 121 ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	SUNDE Louis C Ellen fishermn h	R.L. Polk Co Publishers

### Roy Tel Queen Anne 578 St

#### 108 Roy Tel Queen Anne 578 St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	SEATTLE PRINTING & PUBLISHING CO INC 3 B L Smyser Mgr Publrs	R.L. Polk Co Publishers

## FINDINGS

### **ROY A BURKE SEC St**

#### **104 ROY A BURKE SEC St**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Lathers Union No	R.L. Polk Co Publishers

### **Roy apt 106**

#### **119 Roy apt 106**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Geyer Albert asst dept mgr Shell Oil Co h	R.L. Polk Co Publishers

### **Roy apt 111**

#### **119 Roy apt 111**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	WHITE Geo P Kath I plant supvr WCE&PA h	R.L. Polk Co Publishers

### **Roy apt 201**

#### **119 Roy apt 201**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Bergere Jos M Ann M mstr mariner h	R.L. Polk Co Publishers

### **Roy apt 203**

#### **119 Roy apt 203**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Ziem R Francis Maxine B musician h	R.L. Polk Co Publishers

### **Roy apt 204**

#### **25 Roy apt 204**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Broadhurst Henry F Evelyn M bkpr h	R.L. Polk Co Publishers

### **Roy apt 210**

#### **25 Roy apt 210**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Kronquist Alfd N Mildred H Ingshrmn h	R.L. Polk Co Publishers

## FINDINGS

### Roy apt 311

#### 119 Roy apt 311

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	HAINES S Ross Naomi E wharfinger AML h	R.L. Polk Co Publishers

### Roy apt 402

#### 119 Roy apt 402

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Kean Harold C Margt I poster PSTICo h	R.L. Polk Co Publishers

### Roy J Ruth M slsmn Shell Co h 1000 St

#### 114 Roy J Ruth M slsmn Shell Co h 1000 St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	THOMAS PETER & CO INC Peter Thomas Pres Lena Thomas Sec Builders of Pleasure Commercial and Heavy Truck Bodies Auto Painting and	R.L. Polk Co Publishers

### ROY L St

#### 112 ROY L St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Mc Geo F Ida plmbr	R.L. Polk Co Publishers
	Mc Kay see also Mac Kay and Mackey	R.L. Polk Co Publishers

### ROY St

#### 0 ROY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	23	R.L. Polk Co Publishers
	FISHER Clide	R.L. Polk Co Publishers
1925	FISHER Clide	R.L. Polk Co Publishers

### ROY ST

#### 1 ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	Waler James B	R.L. Polk Co. Publishers	Image pg. A17
	Imauwan Sakda	R.L. Polk Co. Publishers	Image pg. A17

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	Toblason M	R.L. Polk Co. Publishers	Image pg. A17
1980	NORTH OF MERCER ST	R.L. Polk Co. Publishers	Image pg. A55
1951	Ma rqueen Beauty Shop	R.L. Polk Co Publishers	Image pg. A149

### 9 ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1966	MARQUEEN GARAGE REAR ENT	R.L. Polk Co Publishers	Image pg. A95
1951	Marcineen Garage rear	R.L. Polk Co Publishers	Image pg. A151

### ROY St

#### 9 ROY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	graph Co whse	R. L. Polk & Co.	Image pg. A162
	Pacific Telephone & Tele	R. L. Polk & Co.	Image pg. A162

### Roy St

#### 11 Roy St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	DUELING PIANOS	EDR Digital Archive
	CHOPSTIX	EDR Digital Archive
2010	CHOPSTIX	EDR Digital Archive

### ROY ST

#### 11 ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Chopstx	Cole Information Services	Image pg. A4

#### 14 ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1990	Vacant	R.L. Polk Co. Publishers	Image pg. A28
1986	Vacant	R.L. Polk Co. Publishers	Image pg. A43
1980	Pablos Especial restr	R.L. Polk Co. Publishers	Image pg. A55
1975	Paramount Cleaners Inc	R.L. Polk Co. Publishers	Image pg. A71
1970	PARAMOUNT CLEANERS INC AT	R.L. Polk Co Publishers	Image pg. A81
1966	PARAMOUNT CLEANERS INC AT	R.L. Polk Co Publishers	Image pg. A95
1951	Clyde Cinra GA	R.L. Polk Co Publishers	Image pg. A151

## FINDINGS

### Roy St

#### 15 Roy St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	ST PAULS EPISCOPAL CHURCH	EDR Digital Archive
2010	ST PAULS EPISCOPAL CHURCH	EDR Digital Archive

### ROY ST

#### 15 ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	St Pauls Episcopal Church	Cole Information Services	Image pg. A4
	Paul St	Cole Information Services	Image pg. A4
1996	CHURCH	R.L. Polk Co. Publishers	Image pg. A17
	SAINT PAULS EPISCOPAL	R.L. Polk Co. Publishers	Image pg. A17
1990	Saint Pauls Episcopal Church	R.L. Polk Co. Publishers	Image pg. A28
1986	Saint Pauls Episcopal Church	R.L. Polk Co. Publishers	Image pg. A43
1980	Saint Pauls Episcopal Church	R.L. Polk Co. Publishers	Image pg. A55
	St Pauls Pre School	R.L. Polk Co. Publishers	Image pg. A55
1975	Saint Pauls Episcopal Church	R.L. Polk Co. Publishers	Image pg. A71
1970	SAINT PAULS EPISCOPAL CHURCH AT	R.L. Polk Co Publishers	Image pg. A81
1966	SAINT PAULS EPISCOPAL CHURCH CHURCH AT	R.L. Polk Co Publishers	Image pg. A95
1951	St Pauls Episcopal Ch	R.L. Polk Co Publishers	Image pg. A151

### ROY St

#### 15 ROY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	St Pauls Episcopal Church	R. L. Polk & Co.	Image pg. A162

### Roy St

#### 16 Roy St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	ROSEFIELD MICHAEL DR	EDR Digital Archive
2010	ROSEFIELD MICHAEL DR	EDR Digital Archive

#### 18 Roy St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	NUMBER ONE PRO NAILS	EDR Digital Archive

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2010	NUMBER ONE PRO NAILS	EDR Digital Archive

### **ROY ST**

#### **18 ROY ST**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2005	Pro Nal	Cole Information Services
		Image pg. A4

### **Roy St**

#### **20 Roy St**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	CRAZY MONKEY	EDR Digital Archive
	MASONRY	EDR Digital Archive

#### **24 Roy St**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	PROGENIST SYSTEMS LLC	EDR Digital Archive
	HEAVY INDUSTRIES NETWORKS INC	EDR Digital Archive
	CORPORATE ENTERPRISES CO	EDR Digital Archive
	ENSI DESIGN CORP	EDR Digital Archive
	SUNERGOS INTERNATIONAL	EDR Digital Archive
	VOLTERRA LLC	EDR Digital Archive
	MELODY IVORY CREATIONS INC	EDR Digital Archive
	EULIE INC	EDR Digital Archive
	ACG SEATTLE INC	EDR Digital Archive
	MICHAEL DRYJA	EDR Digital Archive
	4 BROTHERS CONSTRUCTION	EDR Digital Archive
	KEN NESLAND LANDSCAPE DESIGN	EDR Digital Archive
	KAREN LUCHT ENTERPRISES I	EDR Digital Archive
	WEST COAST BEHAVIORAL CONS INC	EDR Digital Archive
	CHARLES SCHACHT CONSULTING	EDR Digital Archive
	COLCHUCK CONSULTING LLC	EDR Digital Archive
	NATIONAL ASSOC OF COR DIR NW C	EDR Digital Archive
	ADAPTATIONS INC	EDR Digital Archive
	7 DAYS LLC	EDR Digital Archive
	ARC DESIGN & BUILD LLC	EDR Digital Archive
	KRIMMELWORKS	EDR Digital Archive
	GLENN SOUND COMPANY INC	EDR Digital Archive
	GERKE HANDYMAN SERVICES	EDR Digital Archive

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	HI IM CATHY GOODWIN	EDR Digital Archive
	CENTER FOR WOMEN AND DEMOCRACY	EDR Digital Archive
	NORTHWEST COMPENSATION FORUM	EDR Digital Archive
	LECTROHSALES	EDR Digital Archive
	SILICON VALLEY RES GROUP INC	EDR Digital Archive
	EXCELLNCE LIMOSNE SVCS SEATTLE	EDR Digital Archive
	BEST LIMOS	EDR Digital Archive
	MARKET INSIGHTS	EDR Digital Archive
	VALU VALU	EDR Digital Archive
	ACACIA FINE CARPENTRY LLC	EDR Digital Archive
	CROWN VENDING	EDR Digital Archive
	MALLARD PRODUCTIONS	EDR Digital Archive
	DIACON INC	EDR Digital Archive
	MULTI-M CONTRACTING	EDR Digital Archive
	CONDUIT COFFEE COMPANY	EDR Digital Archive
	BEN BECKER PHOTOGRAPHY	EDR Digital Archive
	SALT INTERIORS	EDR Digital Archive
	GROUNDSPK INC	EDR Digital Archive
	SECURE COMFORT	EDR Digital Archive
	A B SIMS LLC	EDR Digital Archive
	TOJO LLC	EDR Digital Archive
	AIRSAFECOM LLC	EDR Digital Archive
	TWO ZERO SIX INC	EDR Digital Archive
KITTY HAWK TEXTILES CORP	EDR Digital Archive	
2010	KITTY HAWK TEXTILES CORP	EDR Digital Archive
	J9 TECHNOLOGIES INC	EDR Digital Archive
	TWO ZERO SIX INC	EDR Digital Archive
	CENTERHOUSE BISTRO	EDR Digital Archive
	AIRSAFECOM LLC	EDR Digital Archive
	DR2AF LLC	EDR Digital Archive
	NORTHWEST COMPENSATION FORUM	EDR Digital Archive
	CENTER FOR WOMEN AND DEMOCRACY	EDR Digital Archive
	DIACON INC	EDR Digital Archive
	LZ VENTURES LLC	EDR Digital Archive
	ACTIVE BUILDING LLC	EDR Digital Archive
	TOJO LLC	EDR Digital Archive
RUFFNECKWEARCOM	EDR Digital Archive	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2010	SHERYL WISER	EDR Digital Archive
	CLEARSPECIES	EDR Digital Archive
	MQBAS LLC	EDR Digital Archive
	CROWN VENDING	EDR Digital Archive
	SILVERBOLT MARKETING LLC	EDR Digital Archive
	WRAZZ LLC	EDR Digital Archive
	AIRPURE	EDR Digital Archive
	MARKET INSIGHTS	EDR Digital Archive
	ADAPTATIONS INC	EDR Digital Archive
	CASCADE CORPORATE HOUSING	EDR Digital Archive
	HI IM CATHY GOODWIN	EDR Digital Archive
	MALLARD PRODUCTIONS	EDR Digital Archive
	SYNTHESE LLC	EDR Digital Archive
	URAL CLEANING SERVICE	EDR Digital Archive
	802 MARINE ELECTRONICS	EDR Digital Archive
	LYNCSOLVE PUBLISHING LLC	EDR Digital Archive
	AMERICAN GARAGE DOORS	EDR Digital Archive
	DMA AUTO INSURANCE	EDR Digital Archive
	7 DAYS LLC	EDR Digital Archive
	SILICON VALLEY RES GROUP INC	EDR Digital Archive
	KAREN LUCHT ENTERPRISES I	EDR Digital Archive
	INSPIRAYA ENTERPRISES LLC	EDR Digital Archive
	PROGENIST SYSTEMS LLC	EDR Digital Archive
	GERKE HANDYMAN SERVICES	EDR Digital Archive
	EXCELLNCE LIMOSNE SVCS SEATTLE	EDR Digital Archive
	PETNET PHARMACEUTICAL SERVICES	EDR Digital Archive
	WEST COAST BEHAVIORAL CONS INC	EDR Digital Archive
	NEAL AVIATION CONSULTING	EDR Digital Archive
	CHARLES SCHACHT CONSULTING	EDR Digital Archive
	ULTIMATE AUTO GLASS	EDR Digital Archive
	A WELL BALANCED HOME	EDR Digital Archive
	HALCYON HOMES INC	EDR Digital Archive
	CALICO COMPANY	EDR Digital Archive
	EULIE INC	EDR Digital Archive
	MELODY IVORY CREATIONS INC	EDR Digital Archive
	VOLTERRA LLC	EDR Digital Archive
	PRINCIPAL APPRAISAL	EDR Digital Archive
	KIRIN INTERNATIONAL INC	EDR Digital Archive

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2010	SUNERGOS INTERNATIONAL	EDR Digital Archive
	ENSI DESIGN CORP	EDR Digital Archive
	AIRSAFE COM FOUNDATION	EDR Digital Archive
	CORPORATE ENTERPRISES CO	EDR Digital Archive
	HOLLAND & REID LLC	EDR Digital Archive
	VENTRIPOINT INC	EDR Digital Archive
	HEAVY INDUSTRIES NETWORKS INC	EDR Digital Archive
	GTECHDEV LLC	EDR Digital Archive

### ROY ST

#### 24 ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	61ack Creek Botanicals	Cole Information Services	Image pg. A4
	Black Creek Botanicals	Cole Information Services	Image pg. A4
	AEA Enterprises	Cole Information Services	Image pg. A4
	building	Cole Information Services	Image pg. A4
	Glen Steven Cook	Cole Information Services	Image pg. A4
	Westem Puget Sound Hrd	Cole Information Services	Image pg. A4
	Two Zero Slx Inc Ups Store 01 G	Cole Information Services	Image pg. A4
	The Airsafe Co	Cole Information Services	Image pg. A4
	Forest Bay Consulting Inc	Cole Information Services	Image pg. A4
	Gamedyne Uc	Cole Information Services	Image pg. A4
	Grante Ridge Consulting Inc	Cole Information Services	Image pg. A4
	Silks KHabedank	Cole Information Services	Image pg. A4
	Koobkul Illustration & Design	Cole Information Services	Image pg. A4
	Mone Consulting	Cole Information Services	Image pg. A4
	Onpo Int Appraisal Corp	Cole Information Services	Image pg. A4
	Parking Managempt Spdstl nc	Cole Information Services	Image pg. A4
	Parking Management Special Ists Inc	Cole Information Services	Image pg. A4
	Pelican Shippers	Cole Information Services	Image pg. A4
	Gary Atone Reiter	Cole Information Services	Image pg. A4
	James A Reiter	Cole Information Services	Image pg. A4
	Seattle Meat Market	Cole Information Services	Image pg. A4

#### 25 ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	Broday S	R.L. Polk Co. Publishers	Image pg. A17

## FINDINGS

### 27 ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	EPISCOPAL 800 K STORE	R.L. Polk Co. Publishers	Image pg. A17
1990	Episcopal Book Store religious bk store	R.L. Polk Co. Publishers	Image pg. A28
1986	Episcopal Book Store religious bk store	R.L. Polk Co. Publishers	Image pg. A43
	1ST AV N INTERSECTS	R.L. Polk Co. Publishers	Image pg. A43
1980	Episcopal Book Store	R.L. Polk Co. Publishers	Image pg. A55
1975	Episcopal Book Store	R.L. Polk Co. Publishers	Image pg. A71
1970	HIGGINS FRANCES SVDBOOA ALBERT G O AT	R.L. Polk Co Publishers	Image pg. A81
	COBURN MABEL AT	R.L. Polk Co Publishers	Image pg. A81
1966	MC KENDRY MARIE MRS	R.L. Polk Co Publishers	Image pg. A95
	CLARK RENA MRS AT	R.L. Polk Co Publishers	Image pg. A95
	COBURN MABEL AT	R.L. Polk Co Publishers	Image pg. A95
1951	Preuss Louis B GA	R.L. Polk Co Publishers	Image pg. A151

### ROY St

#### 27 ROY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Preuss Louis	R. L. Polk & Co.	Image pg. A162

#### 28 ROY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Harris Emmett W	R. L. Polk & Co.	Image pg. A162

### Roy St

#### 100 Roy St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	OLSEN PER	EDR Digital Archive
	RICHARDS C PHOTOGRAPHY	EDR Digital Archive
2010	RICHARDS C PHOTOGRAPHY	EDR Digital Archive

### ROY ST

#### 100 ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	building	Cole Information Services	Image pg. A4
	James Bizon	Cole Information Services	Image pg. A4
	A 41 Donald MBollinger	Cole Information Services	Image pg. A4

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>		
2005	Michael C Cotta	Cole Information Services	Image pg. A4	
	Jeremy WDinsel	Cole Information Services	Image pg. A4	
	A 30 OHaigh	Cole Information Services	Image pg. A4	
	Noel Hingerton	Cole Information Services	Image pg. A4	
	All Brian Lawson	Cole Information Services	Image pg. A4	
	A 31 Yacht Uang	Cole Information Services	Image pg. A4	
	A 30 Nortl Pole Connect	Cole Information Services	Image pg. A4	
	A 23 Nick Nots	Cole Information Services	Image pg. A4	
	Justn Roberson	Cole Information Services	Image pg. A4	
1996	A 21 Roy Street Apartenta	Cole Information Services	Image pg. A4	
	B m Larry	R.L. Polk Co. Publishers	Image pg. A17	
	Boilingar Donald	R.L. Polk Co. Publishers	Image pg. A17	
	B crolo Lewi	R.L. Polk Co. Publishers	Image pg. A17	
	Cummlns Charles	R.L. Polk Co. Publishers	Image pg. A17	
	Dinkeman Crili	R.L. Polk Co. Publishers	Image pg. A17	
	Oink eman Vernon	R.L. Polk Co. Publishers	Image pg. A17	
	Je dje 1mo Srbjan	R.L. Polk Co. Publishers	Image pg. A17	
	Muchmrn Patrick	R.L. Polk Co. Publishers	Image pg. A17	
	Pauloon K	R.L. Polk Co. Publishers	Image pg. A17	
	Rowland J N	R.L. Polk Co. Publishers	Image pg. A17	
	Ruk I Mechar Ru P b Tffany 4020 C	R.L. Polk Co. Publishers	Image pg. A17	
	Shatter Nancy A	R.L. Polk Co. Publishers	Image pg. A17	
	Si n Mark	R.L. Polk Co. Publishers	Image pg. A17	
	Taylor A	R.L. Polk Co. Publishers	Image pg. A17	
	Thompon lhn	R.L. Polk Co. Publishers	Image pg. A17	
	1990	One Hundred Roy Street Apartments	R.L. Polk Co. Publishers	Image pg. A28
		A 11 Benavideo Leon	R.L. Polk Co. Publishers	Image pg. A28
		A 20 Davenport Meril	R.L. Polk Co. Publishers	Image pg. A28
A 21 Craven G		R.L. Polk Co. Publishers	Image pg. A28	
A 22 Carpenter A 23 Eckley Doris		R.L. Polk Co. Publishers	Image pg. A28	
A 30 Kerns P		R.L. Polk Co. Publishers	Image pg. A28	
A 31 Caldwell J		R.L. Polk Co. Publishers	Image pg. A28	
A 32 Siver Betty		R.L. Polk Co. Publishers	Image pg. A28	
A 33 Neuharth		R.L. Polk Co. Publishers	Image pg. A28	
A 40 Sparks J		R.L. Polk Co. Publishers	Image pg. A28	
A 41 Sichel J		R.L. Polk Co. Publishers	Image pg. A28	
A 42 Johnson Kristin M		R.L. Polk Co. Publishers	Image pg. A28	
A 43 Holman B G		R.L. Polk Co. Publishers	Image pg. A28	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1986	One Hundred Roy Street Apartments	R.L. Polk Co. Publishers	Image pg. A43
	AllAlcantara Antonio S	R.L. Polk Co. Publishers	Image pg. A43
	A 20Hoepfner Patk	R.L. Polk Co. Publishers	Image pg. A43
	A 21 Tilbian A Yessai	R.L. Polk Co. Publishers	Image pg. A43
	A 22Molieri M	R.L. Polk Co. Publishers	Image pg. A43
	A 23 Gingera Anne	R.L. Polk Co. Publishers	Image pg. A43
	A 30 Kerns P	R.L. Polk Co. Publishers	Image pg. A43
	A 31 Lidnin A 32Silver Betty	R.L. Polk Co. Publishers	Image pg. A43
	A 33 Neuharth	R.L. Polk Co. Publishers	Image pg. A43
	A 40Hartson Art P	R.L. Polk Co. Publishers	Image pg. A43
	A 41Howard K L	R.L. Polk Co. Publishers	Image pg. A43
	A 42 Ignacio lIuminad	R.L. Polk Co. Publishers	Image pg. A43
	A 43Holman B G	R.L. Polk Co. Publishers	Image pg. A43
1980	One Hundred Roy Street Apartments	R.L. Polk Co. Publishers	Image pg. A55
	AIO Smith Howard M	R.L. Polk Co. Publishers	Image pg. A55
	All Wieting V A 20Johnson Lonnie D	R.L. Polk Co. Publishers	Image pg. A55
	A 21 Gould	R.L. Polk Co. Publishers	Image pg. A55
	A 22Couderc L A 23 Gingera Anne	R.L. Polk Co. Publishers	Image pg. A55
	A 30Ahmann B J	R.L. Polk Co. Publishers	Image pg. A55
	A 31 Friedli Wm J	R.L. Polk Co. Publishers	Image pg. A55
	A 32 Wilson A 33 Newharth	R.L. Polk Co. Publishers	Image pg. A55
	A 40 Thompson Jas L	R.L. Polk Co. Publishers	Image pg. A55
	A 41OConnell M J	R.L. Polk Co. Publishers	Image pg. A55
	A 42Galeher Tom	R.L. Polk Co. Publishers	Image pg. A55
	A 43 Vacant	R.L. Polk Co. Publishers	Image pg. A55
	1975	One Hundred Roy Street Apartments	R.L. Polk Co. Publishers
AIO Smith Howard M		R.L. Polk Co. Publishers	Image pg. A71
All Williams Lenora L		R.L. Polk Co. Publishers	Image pg. A71
A 20 Baker Ralph J		R.L. Polk Co. Publishers	Image pg. A71
A 21 White Claudine Mrs		R.L. Polk Co. Publishers	Image pg. A71
A 22Rose Leonie		R.L. Polk Co. Publishers	Image pg. A71
A 23 Gingera Anne		R.L. Polk Co. Publishers	Image pg. A71
A 30 Browne Maryan J Mrs		R.L. Polk Co. Publishers	Image pg. A71
A 31Friedli Wm J		R.L. Polk Co. Publishers	Image pg. A71
A 32Je nen Z L		R.L. Polk Co. Publishers	Image pg. A71
A 33 Hague Martha K Mrs		R.L. Polk Co. Publishers	Image pg. A71
A 40 Murphy Lone		R.L. Polk Co. Publishers	Image pg. A71
A 41 Keith Joseph J		R.L. Polk Co. Publishers	Image pg. A71

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1975	A 42 Heroux Wm D	R.L. Polk Co. Publishers	Image pg. A71
	A 43Riff Thos M	R.L. Polk Co. Publishers	Image pg. A71
1970	ONE HUNDRED ROY STREET	R.L. Polk Co Publishers	Image pg. A81
	A 10 MC MULLIN GABRIEL AT	R.L. Polk Co Publishers	Image pg. A81
	A 11 BUELL EDITH M MRS AT	R.L. Polk Co Publishers	Image pg. A81
	A 20 BAKER RALPH J AT	R.L. Polk Co Publishers	Image pg. A81
	A 21 WHITE CLAUDINE MRS	R.L. Polk Co Publishers	Image pg. A81
	A 22 JACKY MABLE C AT	R.L. Polk Co Publishers	Image pg. A81
	A 23 GINGERA ANNE AT	R.L. Polk Co Publishers	Image pg. A81
	A 30 BROWNE MARYAN J MRS AT	R.L. Polk Co Publishers	Image pg. A81
	A 33 HAGUE MARTHA MRS	R.L. Polk Co Publishers	Image pg. A81
	A 40 MURPHY LONA A AT	R.L. Polk Co Publishers	Image pg. A81
	A 41 KEITH JOSEPH J AT	R.L. Polk Co Publishers	Image pg. A81
	A 42 HEROUX WM D AT	R.L. Polk Co Publishers	Image pg. A81
	A 43 OBRIEN CAROL M AT	R.L. Polk Co Publishers	Image pg. A81
	A 31 KULANOER JOHN H	R.L. Polk Co Publishers	Image pg. A81
A 32 SHELLEY ROSS	R.L. Polk Co Publishers	Image pg. A81	
1966	ONE HUNDRED ROY STREET	R.L. Polk Co Publishers	Image pg. A95
	A 10 TOMPKINS CLAIRE A AT	R.L. Polk Co Publishers	Image pg. A95
	A 11 BUELL EDITH M MRS	R.L. Polk Co Publishers	Image pg. A95
	A 20 HOFFMANN HELEN A MRS AT	R.L. Polk Co Publishers	Image pg. A95
	A 21 THOMPSON FRED AT	R.L. Polk Co Publishers	Image pg. A95
	A 22 PORTER ETHEL A MRS AT	R.L. Polk Co Publishers	Image pg. A95
	A 23 DE LAPPE JAMES	R.L. Polk Co Publishers	Image pg. A95
	A 30 BROWNE MARYAN J MRS AT	R.L. Polk Co Publishers	Image pg. A95
	A 31 KULANDER JOHN H AT	R.L. Polk Co Publishers	Image pg. A95
	A 32 RIEDEL ERICH C AT	R.L. Polk Co Publishers	Image pg. A95
	A 33 HAGUE MARTHA MRS AT	R.L. Polk Co Publishers	Image pg. A95
	A 40 VACANT	R.L. Polk Co Publishers	Image pg. A95
	A 41 KEITH JOSEPH J AT	R.L. Polk Co Publishers	Image pg. A95
	A 42 HEROUX WM D AT	R.L. Polk Co Publishers	Image pg. A95
A 43 OBRIEN CAROL M AT	R.L. Polk Co Publishers	Image pg. A95	
1951	One Hundred Roy Street	R.L. Polk Co Publishers	Image pg. A149
	Benniaghof HA GA	R.L. Polk Co Publishers	Image pg. A149
	Bopp B W GA	R.L. Polk Co Publishers	Image pg. A149
	Browne M J Mrs AL	R.L. Polk Co Publishers	Image pg. A149
	Burdick H A AL	R.L. Polk Co Publishers	Image pg. A149
	Curtis T M AL	R.L. Polk Co Publishers	Image pg. A149

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Fanran Virginia B Mrs	R.L. Polk Co Publishers	Image pg. A149
	Foster L H Mrs AL	R.L. Polk Co Publishers	Image pg. A149
	Jackson L H AL	R.L. Polk Co Publishers	Image pg. A149
	Judd H V jr GA	R.L. Polk Co Publishers	Image pg. A149
	Lancaster WV T	R.L. Polk Co Publishers	Image pg. A149
	Neavig B T	R.L. Polk Co Publishers	Image pg. A149
	Neavig C C Mrs GA	R.L. Polk Co Publishers	Image pg. A149
	Nichols T E GA	R.L. Polk Co Publishers	Image pg. A149
	Piper A Li AL	R.L. Polk Co Publishers	Image pg. A149
	Smith H V Mrs	R.L. Polk Co Publishers	Image pg. A149

### 106 ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Jose Baneag B 33 SDyls Engen	Cole Information Services	Image pg. A4
	B 31 Renny Wnetzel	Cole Information Services	Image pg. A4
	Frances S Thompson	Cole Information Services	Image pg. A4
	B 30 Teresta Ramos	Cole Information Services	Image pg. A4
	Per L Menees	Cole Information Services	Image pg. A4
	B 32 Salyy AMc Gregor	Cole Information Services	Image pg. A4
	Aparhments	Cole Information Services	Image pg. A4
	B 43 Dena Hampton	Cole Information Services	Image pg. A4
	B 22 Mark ostoff	Cole Information Services	Image pg. A4
	B 23 David Undes	Cole Information Services	Image pg. A4
	B 21 Sarah Maxwell	Cole Information Services	Image pg. A4

### 108 ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	Anilnser Sara	R.L. Polk Co. Publishers	Image pg. A17
	Berg Tyla	R.L. Polk Co. Publishers	Image pg. A17
	Denn Is Robedt I Fraga L 4022 C	R.L. Polk Co. Publishers	Image pg. A17
	Hackett Brel	R.L. Polk Co. Publishers	Image pg. A17
	Jobh on Andrew Mahie A 4022 C	R.L. Polk Co. Publishers	Image pg. A17
	Murray	R.L. Polk Co. Publishers	Image pg. A17
	Nanda Seam a	R.L. Polk Co. Publishers	Image pg. A17
	Schwendemrrrr Dann	R.L. Polk Co. Publishers	Image pg. A17
	Warren S B	R.L. Polk Co. Publishers	Image pg. A17
1990	Apartments	R.L. Polk Co. Publishers	Image pg. A28
	B 20 Zellermoyer	R.L. Polk Co. Publishers	Image pg. A28
	B 21 Nakagawa Sandra A	R.L. Polk Co. Publishers	Image pg. A28

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1990	B 22 Thompson	R.L. Polk Co. Publishers	Image pg. A28
	B 23 No Return	R.L. Polk Co. Publishers	Image pg. A28
	B 30 Ledbetter	R.L. Polk Co. Publishers	Image pg. A28
	B 31 Vacant	R.L. Polk Co. Publishers	Image pg. A28
	B 32 Schwehm John H Mrs	R.L. Polk Co. Publishers	Image pg. A28
	B 33 Ayers Roy B	R.L. Polk Co. Publishers	Image pg. A28
	B 40 Franklin S	R.L. Polk Co. Publishers	Image pg. A28
	B 41 Gorgas Dennis	R.L. Polk Co. Publishers	Image pg. A28
	B 42 Bieber Frances D Mrs	R.L. Polk Co. Publishers	Image pg. A28
1986	B 43 Berg Mamie M	R.L. Polk Co. Publishers	Image pg. A28
	Apartments B 20Bine Alan	R.L. Polk Co. Publishers	Image pg. A43
	B 21 Nakagawa Sandra A	R.L. Polk Co. Publishers	Image pg. A43
	B 22 Langill Scott W	R.L. Polk Co. Publishers	Image pg. A43
	B 23 Crane B 30Eckley Doris	R.L. Polk Co. Publishers	Image pg. A43
	B 31 Vacant B 32 Schwehm John H	R.L. Polk Co. Publishers	Image pg. A43
	B 33Douglas Emma Lou	R.L. Polk Co. Publishers	Image pg. A43
	B 40 Franklin B 41Sande M	R.L. Polk Co. Publishers	Image pg. A43
	B 42 Bieber Frances D Mrs B 43 Berg Mamie M	R.L. Polk Co. Publishers	Image pg. A43
1980	Apartments B 20 Clay Alton P	R.L. Polk Co. Publishers	Image pg. A55
	B 21 Faciu B 22Plants Jeff R	R.L. Polk Co. Publishers	Image pg. A55
	Peterson P Roger	R.L. Polk Co. Publishers	Image pg. A55
	B 30 Scott Gloria J Mrs	R.L. Polk Co. Publishers	Image pg. A55
	B 31 Powers Maurine Mrs	R.L. Polk Co. Publishers	Image pg. A55
	B 32 Buck Gertrude M	R.L. Polk Co. Publishers	Image pg. A55
	B 33 Douglas E L	R.L. Polk Co. Publishers	Image pg. A55
	B 40 Smith J E Mrs	R.L. Polk Co. Publishers	Image pg. A55
	B 41 Buckly B 42 Bieber Frances D Mrs	R.L. Polk Co. Publishers	Image pg. A55
1975	B 43 Berg Mamie M	R.L. Polk Co. Publishers	Image pg. A55
	Apartments	R.L. Polk Co. Publishers	Image pg. A71
	B 20 Clay Alton P	R.L. Polk Co. Publishers	Image pg. A71
	B 21 Banks Betty Mrs	R.L. Polk Co. Publishers	Image pg. A71
	B 22 Seamen Florence J Mrs	R.L. Polk Co. Publishers	Image pg. A71
	B 23 Goodson Wm M	R.L. Polk Co. Publishers	Image pg. A71
	B 30 Scott Gloria J Mrs	R.L. Polk Co. Publishers	Image pg. A71
	B 31 Powers Maurine Mrs	R.L. Polk Co. Publishers	Image pg. A71
	B 32Swift Carl D	R.L. Polk Co. Publishers	Image pg. A71
B 33 Douglas Emrma Lou Mrs	R.L. Polk Co. Publishers	Image pg. A71	
B 40 Smith Jean E Mrs	R.L. Polk Co. Publishers	Image pg. A71	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1975	B 41 Tilton Evelyn C	R.L. Polk Co. Publishers	Image pg. A71
	B 42 Biever Frances D Mrs	R.L. Polk Co. Publishers	Image pg. A71
	B 43 Berg Mamie M	R.L. Polk Co. Publishers	Image pg. A71
1970	APARTMENTS	R.L. Polk Co Publishers	Image pg. A81
	B 20 CLAY ALTON P AT	R.L. Polk Co Publishers	Image pg. A81
	B 21 BANK BETTY AT	R.L. Polk Co Publishers	Image pg. A81
	B 22 SEAMEN FLORENCE J AT	R.L. Polk Co Publishers	Image pg. A81
	B 23 GOODSON WM M AT	R.L. Polk Co Publishers	Image pg. A81
	B 30 ANDERSON CHRIS R	R.L. Polk Co Publishers	Image pg. A81
	B 31 POWERS ALEX F AT	R.L. Polk Co Publishers	Image pg. A81
	B 32 WOOLORIOGE ZOLA AT	R.L. Polk Co Publishers	Image pg. A81
	B 33 DOUGLAS EMMA LOU MRS AT	R.L. Polk Co Publishers	Image pg. A81
	B 40 SMITH JEAN E MRS AT	R.L. Polk Co Publishers	Image pg. A81
	B 41 TILTON EVELYN C AT	R.L. Polk Co Publishers	Image pg. A81
	B 42 BIEVER FRANCES MRS AT	R.L. Polk Co Publishers	Image pg. A81
	B 43 BERG MAMIE M AT	R.L. Polk Co Publishers	Image pg. A81
1966	BRODY SADIE	R.L. Polk Co Publishers	Image pg. A95
	APARTMENTS	R.L. Polk Co Publishers	Image pg. A95
	B 20 NEWELL ROBT H AT	R.L. Polk Co Publishers	Image pg. A95
	B 21 HANAWALT ANNE O MRS	R.L. Polk Co Publishers	Image pg. A95
	B 22 LEISY EUNICE S MRS AT	R.L. Polk Co Publishers	Image pg. A95
	B 23 GOODSON WM M AT	R.L. Polk Co Publishers	Image pg. A95
1951	Leder Mich bldg contr	R.L. Polk Co Publishers	Image pg. A150
	Murry J H AL	R.L. Polk Co Publishers	Image pg. A150
	Phillips P L AL	R.L. Polk Co Publishers	Image pg. A150
	Sedgley G A	R.L. Polk Co Publishers	Image pg. A150
	Slavisky R D AL	R.L. Polk Co Publishers	Image pg. A150
	One Hundred Eight Roy	R.L. Polk Co Publishers	Image pg. A150
	Eger J J GA	R.L. Polk Co Publishers	Image pg. A150
	Elvin Richendo	R.L. Polk Co Publishers	Image pg. A150
	Finkel Anner AL	R.L. Polk Co Publishers	Image pg. A150
	Haselton K K Mrs	R.L. Polk Co Publishers	Image pg. A150
Haskell G E AL	R.L. Polk Co Publishers	Image pg. A150	

### Roy St

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<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	PAULL NOBUKO	EDR Digital Archive

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2010	PAULL NOBUKO	EDR Digital Archive
	NOBUS BOUTIQUE	EDR Digital Archive

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Nobus Boutique	Cole Information Services	Image pg. A4
1996	CREAM	R.L. Polk Co. Publishers	Image pg. A17
	BASKIN R 0881 N 5 ICE	R.L. Polk Co. Publishers	Image pg. A17

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Shenee Adcams	Cole Information Services	Image pg. A4
	C 42 Aaron Brawn	Cole Information Services	Image pg. A4
	C 21 Nancy J Franin	Cole Information Services	Image pg. A4
	C 30 Barbara R Grganoff	Cole Information Services	Image pg. A4
	C 30 Jtmnie JGlriganoff	Cole Information Services	Image pg. A4
	C 20 Claudia V Grwver	Cole Information Services	Image pg. A4
	C 20 C Gvera	Cole Information Services	Image pg. A4
	C 23 Wibur Meisner	Cole Information Services	Image pg. A4
	C 40 Ataina SPerez	Cole Information Services	Image pg. A4
	M RPsles	Cole Information Services	Image pg. A4
	Micael Rossman	Cole Information Services	Image pg. A4
	C 10 EKSanders	Cole Information Services	Image pg. A4
	C 10 Manrdette T Sanders	Cole Information Services	Image pg. A4
	C 22 Kevin LSpetz	Cole Information Services	Image pg. A4
	C 23 Gartied Street Jr	Cole Information Services	Image pg. A4
	C 41 Benjamin aschke	Cole Information Services	Image pg. A4
	C 33 MWright	Cole Information Services	Image pg. A4
	Apartments	Cole Information Services	Image pg. A4
	Barry M Adais	Cole Information Services	Image pg. A4
1996	Heasard Danny	R.L. Polk Co. Publishers	Image pg. A17
	Kolell D	R.L. Polk Co. Publishers	Image pg. A17
	Lashley Casey	R.L. Polk Co. Publishers	Image pg. A17
	Marwig Jennler A	R.L. Polk Co. Publishers	Image pg. A17
	Minoe Paul	R.L. Polk Co. Publishers	Image pg. A17
	Mondy H M I	R.L. Polk Co. Publishers	Image pg. A17
	Norbeug Donald	R.L. Polk Co. Publishers	Image pg. A17

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<u>Year</u>	<u>Uses</u>	<u>Source</u>		
1996	Palman Jeremy	R.L. Polk Co. Publishers	Image pg. A17	
	Sire a Gadle Jr	R.L. Polk Co. Publishers	Image pg. A17	
	Wa M	R.L. Polk Co. Publishers	Image pg. A17	
	Willoughby Emily	R.L. Polk Co. Publishers	Image pg. A17	
	Wiloughby Randy	R.L. Polk Co. Publishers	Image pg. A17	
1990	Apartments	R.L. Polk Co. Publishers	Image pg. A28	
	C 10 Borson J	R.L. Polk Co. Publishers	Image pg. A28	
	C 11 Falter	R.L. Polk Co. Publishers	Image pg. A28	
	C 20 Devish A Jacqueline	R.L. Polk Co. Publishers	Image pg. A28	
	C 21 Jensen Gladys	R.L. Polk Co. Publishers	Image pg. A28	
	C 22 Smith Howard M	R.L. Polk Co. Publishers	Image pg. A28	
	C 23 Mallon J	R.L. Polk Co. Publishers	Image pg. A28	
	C 30 Cooper W	R.L. Polk Co. Publishers	Image pg. A28	
	C 31 Surnmy Michl F	R.L. Polk Co. Publishers	Image pg. A28	
	C 32 Beck J	R.L. Polk Co. Publishers	Image pg. A28	
	C 33 Olson Karen	R.L. Polk Co. Publishers	Image pg. A28	
	C 40 Levenberg Barry Lee	R.L. Polk Co. Publishers	Image pg. A28	
	C 41 Miller Paul	R.L. Polk Co. Publishers	Image pg. A28	
	C 42 Thomas A	R.L. Polk Co. Publishers	Image pg. A28	
	C 43 Alvidrez Art	R.L. Polk Co. Publishers	Image pg. A28	
1986	Apartments	R.L. Polk Co. Publishers	Image pg. A43	
	CIO Borson ClIPaillet L	R.L. Polk Co. Publishers	Image pg. A43	
	C 20Urevig K L	R.L. Polk Co. Publishers	Image pg. A43	
	C 21 Mackey Patric	R.L. Polk Co. Publishers	Image pg. A43	
	C 22 Smith Howard M	R.L. Polk Co. Publishers	Image pg. A43	
	C 23 Kent K L	R.L. Polk Co. Publishers	Image pg. A43	
	C 30Fremming K	R.L. Polk Co. Publishers	Image pg. A43	
	C 31 Vacant	R.L. Polk Co. Publishers	Image pg. A43	
	C 32 Tony C 33 Olson Karen	R.L. Polk Co. Publishers	Image pg. A43	
	C 40Baker S E	R.L. Polk Co. Publishers	Image pg. A43	
	C 41 Miller Paul	R.L. Polk Co. Publishers	Image pg. A43	
	C 42 Wright	R.L. Polk Co. Publishers	Image pg. A43	
	C 43 Taylor	R.L. Polk Co. Publishers	Image pg. A43	
	1980	C 3301asn K C 40 Demmert D	R.L. Polk Co. Publishers	Image pg. A55
		C 41 Ricks C 42 Mullins Mary E Mrs	R.L. Polk Co. Publishers	Image pg. A55
C 43 Hagen John M		R.L. Polk Co. Publishers	Image pg. A55	
Apartments CIO Hag strom Esther J		R.L. Polk Co. Publishers	Image pg. A55	
CIIMc Camey Barbars C 20 Hutchinson Juanita Mrs		R.L. Polk Co. Publishers	Image pg. A55	

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1980	C 21 Me Williams Alice B	R.L. Polk Co. Publishers	Image pg. A55
	C 22 Vacant C 23 Mefford Mae E	R.L. Polk Co. Publishers	Image pg. A55
	C 30 Kearney Chas H Mrs	R.L. Polk Co. Publishers	Image pg. A55
	C 31 Hanson Elm	R.L. Polk Co. Publishers	Image pg. A55
	C 32 Sebring Jean L	R.L. Polk Co. Publishers	Image pg. A55
1975	Apartments	R.L. Polk Co. Publishers	Image pg. A71
	C 10Hegstrom Esther J	R.L. Polk Co. Publishers	Image pg. A71
	Cli Fitting Arth	R.L. Polk Co. Publishers	Image pg. A71
	C 20Harding W E	R.L. Polk Co. Publishers	Image pg. A71
	C 21 Mc Williams Alice B	R.L. Polk Co. Publishers	Image pg. A71
	C 22 Moir Lucille I Mrs	R.L. Polk Co. Publishers	Image pg. A71
	C 23Mefford Mae	R.L. Polk Co. Publishers	Image pg. A71
	C 30 Kearney Martha E Mrs	R.L. Polk Co. Publishers	Image pg. A71
	C 31 Hanson ELM	R.L. Polk Co. Publishers	Image pg. A71
	C 33Snyder M J	R.L. Polk Co. Publishers	Image pg. A71
	C 40 Fiala Kath V Mrs	R.L. Polk Co. Publishers	Image pg. A71
	C 41 Johaneon Elsie M	R.L. Polk Co. Publishers	Image pg. A71
	C 42 Mullins Mary E Mrs	R.L. Polk Co. Publishers	Image pg. A71
	C 43 Wood Rosemary T Mr	R.L. Polk Co. Publishers	Image pg. A71
1970	APARTMENTS	R.L. Polk Co Publishers	Image pg. A81
	C 10 COOK JEAN	R.L. Polk Co Publishers	Image pg. A81
	C 11 FITTING ARTH AT	R.L. Polk Co Publishers	Image pg. A81
	C 20 LEISY EUNICE MRS AT	R.L. Polk Co Publishers	Image pg. A81
	C 21 MC WILLIAMS ALICE B AT	R.L. Polk Co Publishers	Image pg. A81
	C 22 BARTH FRANCES L MRS AT	R.L. Polk Co Publishers	Image pg. A81
	C 23 MEDFORO MAE MRS	R.L. Polk Co Publishers	Image pg. A81
	C 30 ROBERTSON HAROLD R AT	R.L. Polk Co Publishers	Image pg. A81
	C 31 HANSON ELMat	R.L. Polk Co Publishers	Image pg. A81
	C 33 ROSE LEONIE AT	R.L. Polk Co Publishers	Image pg. A81
	C 40 HENRY MILDRED E MRS AT	R.L. Polk Co Publishers	Image pg. A81
	C 41 JOHANSON ELSIE M AT	R.L. Polk Co Publishers	Image pg. A81
	C 42 MULLINS MARY E MRS AT	R.L. Polk Co Publishers	Image pg. A81
	C 43 WOOD ROSEMARY I AT	R.L. Polk Co Publishers	Image pg. A81
1966	APARTMENTS	R.L. Polk Co Publishers	Image pg. A95
	C 10 COOPER LEONARD	R.L. Polk Co Publishers	Image pg. A95
	C 11 GREGORY WILFRED R AT	R.L. Polk Co Publishers	Image pg. A95
	C 20 VACANT	R.L. Polk Co Publishers	Image pg. A95
	C 21 MC WILLIAMS ALICE B AT	R.L. Polk Co Publishers	Image pg. A95

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1966	C 22 BARTH FRANCES L MRS AT	R.L. Polk Co Publishers	Image pg. A95
	C 23 MEFFORD MAE MRS AT	R.L. Polk Co Publishers	Image pg. A95
	C 30 ROBERTSON HAROLD R AT	R.L. Polk Co Publishers	Image pg. A95
	C 31 HANSON ELMat	R.L. Polk Co Publishers	Image pg. A95
	BECK MARGIE L MRS	R.L. Polk Co Publishers	Image pg. A95
	C 33 ROSE LEONIE AT	R.L. Polk Co Publishers	Image pg. A95
	C 40 WHITWORTH FREDK H AT	R.L. Polk Co Publishers	Image pg. A95
	C 41 WHITE CLAUDINE MRS AT	R.L. Polk Co Publishers	Image pg. A95
	C 42 MULLINS MARY E MRS AT	R.L. Polk Co Publishers	Image pg. A95
	C 43 WOOD ROSEMARY T AT	R.L. Polk Co Publishers	Image pg. A95
1951	One Hundred Twelve Roy	R.L. Polk Co Publishers	Image pg. A150
	Binogham B S AL	R.L. Polk Co Publishers	Image pg. A150
	Bugge R T AL	R.L. Polk Co Publishers	Image pg. A150
	Dalthorp Lillian M AL	R.L. Polk Co Publishers	Image pg. A150
	Farrington Louise Mrs	R.L. Polk Co Publishers	Image pg. A150
	Freegurg R A L AL	R.L. Polk Co Publishers	Image pg. A150
	Proctor W R AL	R.L. Polk Co Publishers	Image pg. A150
	Richardson Harold AL	R.L. Polk Co Publishers	Image pg. A150
	Schonewill C K AL	R.L. Polk Co Publishers	Image pg. A150
	Soma Leila L AL	R.L. Polk Co Publishers	Image pg. A150
	Trenkenschuh Leonard apt mgr GA	R.L. Polk Co Publishers	Image pg. A150
	Weller K C Mrs AL	R.L. Polk Co Publishers	Image pg. A150
Whitworth F H AL	R.L. Polk Co Publishers	Image pg. A150	

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1970	HEGSTROM ESTHER J MRS S AT	R.L. Polk Co Publishers	Image pg. A81
1966	HEGSTROM ESTHER J MRS	R.L. Polk Co Publishers	Image pg. A95
1951	Adolfsen B M AL	R.L. Polk Co Publishers	Image pg. A150

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Adolfsen Einar M	R. L. Polk & Co.	Image pg. A162

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	building	Cole Information Services	Image pg. A4
	Dan Burke	Cole Information Services	Image pg. A4
	B 33 Jaime C Coannell	Cole Information Services	Image pg. A4
	D 400 Phi Etting	Cole Information Services	Image pg. A4
	E 41 Mike Fmfoawen	Cole Information Services	Image pg. A4
	Undsay ELush	Cole Information Services	Image pg. A4
	Melissa Martin	Cole Information Services	Image pg. A4
	ORachet A Mcrea	Cole Information Services	Image pg. A4
	D 30 01a Soap	Cole Information Services	Image pg. A4
	D 32 Dana Petersen	Cole Information Services	Image pg. A4
	D 42 Karen Tracy	Cole Information Services	Image pg. A4
	E 42 S Tac	Cole Information Services	Image pg. A4
	Mark J Vid	Cole Information Services	Image pg. A4
	Couay Vestberg	Cole Information Services	Image pg. A4
1996	Bel I Elhan	R.L. Polk Co. Publishers	Image pg. A17
	Cadman J	R.L. Polk Co. Publishers	Image pg. A17
	Dang Tuan	R.L. Polk Co. Publishers	Image pg. A17
	Doslrاد Snan	R.L. Polk Co. Publishers	Image pg. A17
	Ehrklich Jodl	R.L. Polk Co. Publishers	Image pg. A17
	Karhula M	R.L. Polk Co. Publishers	Image pg. A17
	Laurlo Russel	R.L. Polk Co. Publishers	Image pg. A17
	Lipm nan S	R.L. Polk Co. Publishers	Image pg. A17
	M Cres R	R.L. Polk Co. Publishers	Image pg. A17
	Me 1e 1 David Miller 8r	R.L. Polk Co. Publishers	Image pg. A17
1990	Apartments	R.L. Polk Co. Publishers	Image pg. A28
	D 20 Ran Del Dorothy	R.L. Polk Co. Publishers	Image pg. A28
	D 21 Noyes Dennis R	R.L. Polk Co. Publishers	Image pg. A28
	D 22 Bickford S	R.L. Polk Co. Publishers	Image pg. A28
	D 23 Arend Todd	R.L. Polk Co. Publishers	Image pg. A28
	D 30 Smith Mark	R.L. Polk Co. Publishers	Image pg. A28
	D 31 Koth Peggy J	R.L. Polk Co. Publishers	Image pg. A28
	D 32 Nutz Karen M	R.L. Polk Co. Publishers	Image pg. A28
	D 33 Beck T	R.L. Polk Co. Publishers	Image pg. A28
	D 40 Dean F	R.L. Polk Co. Publishers	Image pg. A28
D 41 Snyder M J	R.L. Polk Co. Publishers	Image pg. A28	

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1990	D 42 Fleek	R.L. Polk Co. Publishers	Image pg. A28
	D 43 Moody Helen M Mrs	R.L. Polk Co. Publishers	Image pg. A28
1986	Apartments	R.L. Polk Co. Publishers	Image pg. A43
	D 20Gerry V D 21 Tilbian Avedis	R.L. Polk Co. Publishers	Image pg. A43
	D 22Kenyon Thos W	R.L. Polk Co. Publishers	Image pg. A43
	D 23 Ropp Frances M Mrs	R.L. Polk Co. Publishers	Image pg. A43
	D 30 Hartson	R.L. Polk Co. Publishers	Image pg. A43
	D 31 Koth Peggy J D 32Nute Karen M	R.L. Polk Co. Publishers	Image pg. A43
	D 33 Fairchild Gertrude Mrs D 40Swedin Aron	R.L. Polk Co. Publishers	Image pg. A43
	D 41 Snyder M J	R.L. Polk Co. Publishers	Image pg. A43
	D 42Hood Vincent P	R.L. Polk Co. Publishers	Image pg. A43
	D 43 Moody Helen M Mrs	R.L. Polk Co. Publishers	Image pg. A43
1980	Apartments	R.L. Polk Co. Publishers	Image pg. A55
	D 20 Unseld D 21 Mall v James E	R.L. Polk Co. Publishers	Image pg. A55
	D 22 Ehriaman D 23 Ropp Frances M Mrs	R.L. Polk Co. Publishers	Image pg. A55
	D 30 Kirsop Cath J	R.L. Polk Co. Publishers	Image pg. A55
	D 31 Koth 1eggy J D 32 Gartlinghouse Ida R	R.L. Polk Co. Publishers	Image pg. A55
	D 33 Fairchild Gertrude Mrs D 40 Martin Betty L	R.L. Polk Co. Publishers	Image pg. A55
	D 41 Vacant	R.L. Polk Co. Publishers	Image pg. A55
	D 42 Batleson D 43 Moody Helen M Mrs	R.L. Polk Co. Publishers	Image pg. A55
1975	Apartments	R.L. Polk Co. Publishers	Image pg. A71
	D 20 Kirkemyr Dorothy E Mrs	R.L. Polk Co. Publishers	Image pg. A71
	D 21 Malloy James E 28a 3967	R.L. Polk Co. Publishers	Image pg. A71
	D 22 Hanbery Doris Mrs	R.L. Polk Co. Publishers	Image pg. A71
	D 23 Ropp Frances M Mrs	R.L. Polk Co. Publishers	Image pg. A71
	D 30 Kirsop Ceth J	R.L. Polk Co. Publishers	Image pg. A71
	D 31Koth Peggy J	R.L. Polk Co. Publishers	Image pg. A71
	D 32 Nordstrom Kurt	R.L. Polk Co. Publishers	Image pg. A71
	D 33 Fairchild Gertrude Mrs	R.L. Polk Co. Publishers	Image pg. A71
	D 40 Martin Betty L	R.L. Polk Co. Publishers	Image pg. A71
1970	D 41 Kest Irvine L	R.L. Polk Co. Publishers	Image pg. A71
	D 42 Worthington Constance H Mrs	R.L. Polk Co. Publishers	Image pg. A71
	D 43 Moody Helen M Mrs	R.L. Polk Co. Publishers	Image pg. A71
	APARTMENTS	R.L. Polk Co Publishers	Image pg. A81
	D 20 FIALA KATH MRS	R.L. Polk Co Publishers	Image pg. A81
	D 21 MALLOY JAMES E AT	R.L. Polk Co Publishers	Image pg. A81
	D 22 HANBERRY DORIS AT	R.L. Polk Co Publishers	Image pg. A81

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1970	D 23 ROPP FRANCES M MRS AT	R.L. Polk Co Publishers	Image pg. A81
	D 30 KIRSOP CATH J AT	R.L. Polk Co Publishers	Image pg. A81
	D 31 LEE JERALD T AT	R.L. Polk Co Publishers	Image pg. A81
	D 32 NORDSTROM KURT A AT	R.L. Polk Co Publishers	Image pg. A81
	D 33 FAIRCHILD GERTRUDE MRS	R.L. Polk Co Publishers	Image pg. A81
	D 40 JENNINGS ALBERTA	R.L. Polk Co Publishers	Image pg. A81
	D 41 SAYRE IRENE MRS AT	R.L. Polk Co Publishers	Image pg. A81
	D 42 WORTHINGTON CONSTANCE H MRS AT	R.L. Polk Co Publishers	Image pg. A81
	D 43 MOODY HELEN M AT	R.L. Polk Co Publishers	Image pg. A81
	1966	D 32 IVANHOE LUCILE C MRS	R.L. Polk Co Publishers
D 33 FAIRCHILD GEO		R.L. Polk Co Publishers	Image pg. A95
D 40 VACANT		R.L. Polk Co Publishers	Image pg. A95
D 41 SAYRE HOMER AT		R.L. Polk Co Publishers	Image pg. A95
D 42 WORTHINGTON CONSTANCE H MRS AT		R.L. Polk Co Publishers	Image pg. A95
D 43 MOODY HELEN M AT		R.L. Polk Co Publishers	Image pg. A95
APARTMENTS		R.L. Polk Co Publishers	Image pg. A95
D 20 GAUKEL JEAN C MRS AT		R.L. Polk Co Publishers	Image pg. A95
D 21 MALLOY JAMES E A T		R.L. Polk Co Publishers	Image pg. A95
D 22 CROONENBERGHS BESS A MRS AT		R.L. Polk Co Publishers	Image pg. A95
D 23 ROPP R MILO AT		R.L. Polk Co Publishers	Image pg. A95
D 30 KIRSOP CATHEREN J AT		R.L. Polk Co Publishers	Image pg. A95
D 31 DUNCAN RUSSELL AT		R.L. Polk Co Publishers	Image pg. A95
1951	Brown Patricia E AL	R.L. Polk Co Publishers	Image pg. A150
	Dempsey G M Mrs GA	R.L. Polk Co Publishers	Image pg. A150
	Goldberg David GA	R.L. Polk Co Publishers	Image pg. A150
	Hoffman Doris C AL	R.L. Polk Co Publishers	Image pg. A150
	Kinkaid Wanda F AL	R.L. Polk Co Publishers	Image pg. A150
	Lee A L	R.L. Polk Co Publishers	Image pg. A150
	Morrison Beverly J AL	R.L. Polk Co Publishers	Image pg. A150
	Movsesian E M GA	R.L. Polk Co Publishers	Image pg. A150
	Oswood H A AL	R.L. Polk Co Publishers	Image pg. A150
	Andrich C F AL	R.L. Polk Co Publishers	Image pg. A150
	Bates J B AL	R.L. Polk Co Publishers	Image pg. A150
	One Hundred Sixteen Roy	R.L. Polk Co Publishers	Image pg. A150
	Albertson L A	R.L. Polk Co Publishers	Image pg. A150

## FINDINGS

### 117 ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1970	WALSH FRANK J	R.L. Polk Co Publishers	Image pg. A81
1966	VACANT	R.L. Polk Co Publishers	Image pg. A95
1951	Toftoy Harry GA	R.L. Polk Co Publishers	Image pg. A150
	Siegner C V AL	R.L. Polk Co Publishers	Image pg. A150

### ROY St

#### 117 ROY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Smith Clarence E	R. L. Polk & Co.	Image pg. A162

### Roy St

#### 119 Roy St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2010	ROY SMOKE PLUS	EDR Digital Archive

#### 120 Roy St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	EITHER/OR PRODUCTIONS LLC	EDR Digital Archive
	FERTITRADE CONSULTING INC	EDR Digital Archive
2010	PRIVATE FLUTE LESSONS	EDR Digital Archive
	BLS ENT	EDR Digital Archive

### ROY ST

#### 120 ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	building	Cole Information Services	Image pg. A4
	Kevin M Couse	Cole Information Services	Image pg. A4
	Katherine Davis	Cole Information Services	Image pg. A4
	Stave Garafalo	Cole Information Services	Image pg. A4
	E 23 Hands On Renovations	Cole Information Services	Image pg. A4
	Amanda Hataway	Cole Information Services	Image pg. A4
	Nina M Hauser	Cole Information Services	Image pg. A4
	E 32 Cathy Ann Hutto	Cole Information Services	Image pg. A4
	E 32 Ronnie Hutto	Cole Information Services	Image pg. A4
	Micelle Lafrance	Cole Information Services	Image pg. A4
	Susanne Upa	Cole Information Services	Image pg. A4

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Christine Martin	Cole Information Services	Image pg. A4
	Ell Fandous G Matcchev	Cole Information Services	Image pg. A4
	Sanla G Matichev	Cole Information Services	Image pg. A4
	Michaela Mattos	Cole Information Services	Image pg. A4
	Christian H Monberg	Cole Information Services	Image pg. A4
	Jenne Neptune	Cole Information Services	Image pg. A4
	E 22 Randee SPlatschnman	Cole Information Services	Image pg. A4
	E Lucy AShort	Cole Information Services	Image pg. A4
	OJohn Terence Sullivan	Cole Information Services	Image pg. A4
	OLeslie M Sullivan	Cole Information Services	Image pg. A4
Mamrissa Yanez	Cole Information Services	Image pg. A4	
1996	Abraham George V FPikse Eugeon H 402 C	R.L. Polk Co. Publishers	Image pg. A17
	Hamilton Jeff	R.L. Polk Co. Publishers	Image pg. A17
	Kulper Jody	R.L. Polk Co. Publishers	Image pg. A17
	Rams Rich	R.L. Polk Co. Publishers	Image pg. A17
	Rush Jnler	R.L. Polk Co. Publishers	Image pg. A17
	Ryan Ke By	R.L. Polk Co. Publishers	Image pg. A17
	Sulloan John J	R.L. Polk Co. Publishers	Image pg. A17
	Thompson Frances	R.L. Polk Co. Publishers	Image pg. A17
	Vaughn Glna	R.L. Polk Co. Publishers	Image pg. A17
	Wallon B K	R.L. Polk Co. Publishers	Image pg. A17
Weaver H	R.L. Polk Co. Publishers	Image pg. A17	
1990	Apartments	R.L. Polk Co. Publishers	Image pg. A28
	E 10 Friese Eug H	R.L. Polk Co. Publishers	Image pg. A28
	E 11 Rowland J N	R.L. Polk Co. Publishers	Image pg. A28
	E 20 Van Winkle Vivian	R.L. Polk Co. Publishers	Image pg. A28
	E 21 Strohecker J	R.L. Polk Co. Publishers	Image pg. A28
	E 22 Facio Felix	R.L. Polk Co. Publishers	Image pg. A28
	E 23 Walton K	R.L. Polk Co. Publishers	Image pg. A28
	E 30 Padlo R	R.L. Polk Co. Publishers	Image pg. A28
	E 31 Erwin John	R.L. Polk Co. Publishers	Image pg. A28
	E 32 Ramerman	R.L. Polk Co. Publishers	Image pg. A28
E 33 Erickson D	R.L. Polk Co. Publishers	Image pg. A28	
E 40 Matthiesen Molly	R.L. Polk Co. Publishers	Image pg. A28	
E 41 Alcantara Antonio L	R.L. Polk Co. Publishers	Image pg. A28	
E 42 Foss Peter	R.L. Polk Co. Publishers	Image pg. A28	
E 43 Erickson M	R.L. Polk Co. Publishers	Image pg. A28	
1986	Apartments E 10Friese Eug H	R.L. Polk Co. Publishers	Image pg. A43

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1986	E11 Grilley David S	R.L. Polk Co. Publishers	Image pg. A43
	E 20 Van Winkle Vivian	R.L. Polk Co. Publishers	Image pg. A43
	E 21 Strohecker J	R.L. Polk Co. Publishers	Image pg. A43
	E 22 Ledbetter	R.L. Polk Co. Publishers	Image pg. A43
	E 23 Brown Robt	R.L. Polk Co. Publishers	Image pg. A43
	E 30 Goldsberry	R.L. Polk Co. Publishers	Image pg. A43
	E 31 Vacant E 32 Reeder D J	R.L. Polk Co. Publishers	Image pg. A43
	E 33 Crandell E 40 Heiden Mary	R.L. Polk Co. Publishers	Image pg. A43
	E 41 Mc Carthy	R.L. Polk Co. Publishers	Image pg. A43
1980	E 42 Foss P E 43 Cutler Brian	R.L. Polk Co. Publishers	Image pg. A43
	Apartments	R.L. Polk Co. Publishers	Image pg. A55
	E1 O Jenkina W T	R.L. Polk Co. Publishers	Image pg. A55
	E11 Srruiell	R.L. Polk Co. Publishers	Image pg. A55
	E 20 Washington E 21 Filtz Irene B Mrs	R.L. Polk Co. Publishers	Image pg. A55
	E 22 Crowthers Helen A Mrs	R.L. Polk Co. Publishers	Image pg. A55
	E 23 Smith Isabel	R.L. Polk Co. Publishers	Image pg. A55
	E 30 Guenther Bruce	R.L. Polk Co. Publishers	Image pg. A55
	E 31 Powrie Charles W	R.L. Polk Co. Publishers	Image pg. A55
	E 32 Bass Randall	R.L. Polk Co. Publishers	Image pg. A55
	E 33 Badger	R.L. Polk Co. Publishers	Image pg. A55
	E 40 Davis E 41 Gamhart Edw	R.L. Polk Co. Publishers	Image pg. A55
	E 42 Dolgoff Lynn D	R.L. Polk Co. Publishers	Image pg. A55
	E 43 Schalestock Peter F	R.L. Polk Co. Publishers	Image pg. A55
1975	Apartments	R.L. Polk Co. Publishers	Image pg. A71
	E1 O Vassar Kath	R.L. Polk Co. Publishers	Image pg. A71
	E11 Denning F J	R.L. Polk Co. Publishers	Image pg. A71
	E 20 Marks Rozelle M Mrs	R.L. Polk Co. Publishers	Image pg. A71
	E 21 West Lila R	R.L. Polk Co. Publishers	Image pg. A71
	E 22 Crowther Helen A Mrs	R.L. Polk Co. Publishers	Image pg. A71
	E 23 Cence Theresa M Mrs	R.L. Polk Co. Publishers	Image pg. A71
	E 30 Bross Minnie Mrs	R.L. Polk Co. Publishers	Image pg. A71
	E 31 Larsen L	R.L. Polk Co. Publishers	Image pg. A71
	E 32 Molitor Ruth T	R.L. Polk Co. Publishers	Image pg. A71
	E 33 No Return	R.L. Polk Co. Publishers	Image pg. A71
	E 40 Denike Gemma C	R.L. Polk Co. Publishers	Image pg. A71
	E 41 Smith B J	R.L. Polk Co. Publishers	Image pg. A71
	E 42 Lyon Verona M	R.L. Polk Co. Publishers	Image pg. A71
E 43 Bunt Ida L Mrs	R.L. Polk Co. Publishers	Image pg. A71	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1970	APARTMENTS	R.L. Polk Co Publishers	Image pg. A81
	E 10 KAPLAN MAX AT	R.L. Polk Co Publishers	Image pg. A81
	E 11 GRAHAM FRANCES M MRS AT	R.L. Polk Co Publishers	Image pg. A81
	E 20 MARKS JAMES H AT	R.L. Polk Co Publishers	Image pg. A81
	E 21 OHALLORAN LEO P AT	R.L. Polk Co Publishers	Image pg. A81
	E 22 CROWTHERS HELEN MRS	R.L. Polk Co Publishers	Image pg. A81
	E 23 CENCE THERESA T	R.L. Polk Co Publishers	Image pg. A81
	E 30 BROSS MINNIE AT	R.L. Polk Co Publishers	Image pg. A81
	E 31 DARRAM JANE AT	R.L. Polk Co Publishers	Image pg. A81
	E 32 PHILLIPS CORA I AT	R.L. Polk Co Publishers	Image pg. A81
	E 33 DE NIKE GEMMA C	R.L. Polk Co Publishers	Image pg. A81
	E 40 WHITE BLANCHE MRS AT	R.L. Polk Co Publishers	Image pg. A81
	E 41 HUXFORD PETER AT	R.L. Polk Co Publishers	Image pg. A81
	E 42 BRISCOE THERESA AT	R.L. Polk Co Publishers	Image pg. A81
E 43 BUNT OWEN AT	R.L. Polk Co Publishers	Image pg. A81	
1966	APARTMENTS	R.L. Polk Co Publishers	Image pg. A95
	E 10 PATTERSON WEBSTER P AT	R.L. Polk Co Publishers	Image pg. A95
	E 11 GRAHAM FRANCES M MRS AT	R.L. Polk Co Publishers	Image pg. A95
	E 20 MARKS JAMES H AT	R.L. Polk Co Publishers	Image pg. A95
	E 21 OHALLORAN LEO P AT	R.L. Polk Co Publishers	Image pg. A95
	E 22 HENRY MILDRED E MRS AT	R.L. Polk Co Publishers	Image pg. A95
	E 23 WILKS HYMAN AT	R.L. Polk Co Publishers	Image pg. A95
	E 30 WALSH EDW E AT	R.L. Polk Co Publishers	Image pg. A95
	E 31 DARRAH JANE AT	R.L. Polk Co Publishers	Image pg. A95
	E 32 PHILLIPS CORA I AT	R.L. Polk Co Publishers	Image pg. A95
	E 33 BRYSON EDNA M AT	R.L. Polk Co Publishers	Image pg. A95
	E 40 WHITE BLANCHE MRS AT	R.L. Polk Co Publishers	Image pg. A95
	E 41 CUSICK K TED	R.L. Polk Co Publishers	Image pg. A95
	E 42 SARGENT ANNA M AT	R.L. Polk Co Publishers	Image pg. A95
E 43 BUNT OWEN AT	R.L. Polk Co Publishers	Image pg. A95	
1951	Anderson G L AL	R.L. Polk Co Publishers	Image pg. A150
	Baker J A Mrs AL	R.L. Polk Co Publishers	Image pg. A150
	Dwyer Rosalie I GA	R.L. Polk Co Publishers	Image pg. A150
	Gleeson Patricia A GA	R.L. Polk Co Publishers	Image pg. A150
	Harrison B I GA	R.L. Polk Co Publishers	Image pg. A150
	Hartford Dorothy M GA	R.L. Polk Co Publishers	Image pg. A150
	Lee Patricia AL	R.L. Polk Co Publishers	Image pg. A150
	Mc Mahan A V	R.L. Polk Co Publishers	Image pg. A150

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Montgomery Evelyn Mrs	R.L. Polk Co Publishers	Image pg. A150
	Nelson F W AL	R.L. Polk Co Publishers	Image pg. A150
	Pearce B J Mrs GA	R.L. Polk Co Publishers	Image pg. A150
	Peterson M W Mrs	R.L. Polk Co Publishers	Image pg. A150
	Rudquist J L AL	R.L. Polk Co Publishers	Image pg. A150
	Sarg F J AL	R.L. Polk Co Publishers	Image pg. A150
	Stenning Robt GA	R.L. Polk Co Publishers	Image pg. A150
	Yerrion R M AL	R.L. Polk Co Publishers	Image pg. A150
	Ward F S GA	R.L. Polk Co Publishers	Image pg. A150

### ROY St

#### 120 ROY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Hinman Clifford M	R. L. Polk & Co.	Image pg. A162
	1 Collins Marjorie	R. L. Polk & Co.	Image pg. A162

### Roy St

#### 123 Roy St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	NGUYEN ANH THU	EDR Digital Archive
	TOP NAILS	EDR Digital Archive
2010	NGUYEN ANH THU	EDR Digital Archive

### ROY ST

#### 123 ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Top Nals	Cole Information Services	Image pg. A4

### ry av apt 208 St

#### 1 ry av apt 208 St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Austin Char	R.L. Polk Co Publishers

## FINDINGS

### RY H 544 O 32ND AVE

#### 1 RY H 544 O 32ND AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Hession Thos Mary A trackmn SM	R.L. Polk Co Publishers

### RY St

#### 24 RY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Nutter Harold C Virena A asst w hse formn :G	R.L. Polk Co Publishers

### S QUEEN ANNEA AVE

#### 21 S QUEEN ANNEA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Mission Victor Eugenia electr	R.L. Polk Co Publishers

### SCOUTTS R 25 W ROY St

#### 1 SCOUTTS R 25 W ROY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Conner Florentine sec Gir	R.L. Polk Co Publishers

### ST AVENUE 822 QUEEN ANNE AVE S

#### 1 ST AVENUE 822 QUEEN ANNE AVE S

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	Sutthoff Jno H Mary B mfrs agt 906	R.L. Polk Co Publishers

### T ELK 1 H MERCER St

#### 1 T ELK 1 H MERCER St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Holly Car	R.L. Polk Co Publishers

### VAL U St

#### 1 VAL U St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	WLSON C ARMOTTE	R.L. Polk Co Publishers

# FINDINGS

## **VALLEY**

### **1 VALLEY**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Mc Clara wid Chas h	R.L. Polk Co Publishers

### **3 VALLEY**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	d av N intersects	R.L. Polk Co Publishers	Image pg. A136

### **4 VALLEY**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A136

### **5 VALLEY**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A136

### **7 VALLEY**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Advertising Counselors Inc A AT	R.L. Polk Co Publishers	Image pg. A108
1955	Gallagher Alice D Mrs	R.L. Polk Co Publishers	Image pg. A137
1940	Okertund Chas	R.L. Polk Co publishers	Image pg. A176

### **9 VALLEY**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av N intersects	R.L. Polk Co Publishers	Image pg. A138

### **10 VALLEY**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Perrin S G	R.L. Polk Co Publishers	Image pg. A135
1940	Edwards Arth F	R.L. Polk Co publishers	Image pg. A176
1935	ROBERTS Mary F wtrs r	R.L. Polk Co Publishers	
	EDWARDS Marion G r	R.L. Polk Co Publishers	
1925	EDWARDS Arthur F Elsie G phys	R.L. Polk Co Publishers	
1920	Lane Frances librarian r	R.L. Polk Co Publishers	
	LANE Geo W h	R.L. Polk Co Publishers	
	Wharton Chas H r	R.L. Polk Co Publishers	

### **15 VALLEY**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Sinar Paul A AT	R.L. Polk Co Publishers	Image pg. A108

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	a No return	R.L. Polk Co Publishers	Image pg. A108
1955	Hrdlicka Rudolph jr	R.L. Polk Co Publishers	Image pg. A135
1940	Swanstrom Kohlas J	R.L. Polk Co publishers	Image pg. A176
1935	GREEN John Caroline lab h	R.L. Polk Co Publishers	
1925	Anthony Alex L Florence h	R.L. Polk Co Publishers	
1920	Richfield Guy W Lillie salsn h	R.L. Polk Co Publishers	

### 16 VALLEY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Sohroeter Robt A AT	R.L. Polk Co Publishers	Image pg. A108
	Vacant	R.L. Polk Co Publishers	Image pg. A108
	Hayes Wm R	R.L. Polk Co Publishers	Image pg. A108
	Bailey Freda S Mrs A AT	R.L. Polk Co Publishers	Image pg. A108
	Brennan Bertram M A AT	R.L. Polk Co Publishers	Image pg. A108
	Ella Robert Apartments	R.L. Polk Co Publishers	Image pg. A108
	Dearing Ruth M A AT	R.L. Polk Co Publishers	Image pg. A108
	Rogers Millard F A AT	R.L. Polk Co Publishers	Image pg. A108
	Murphy Leo E A AT	R.L. Polk Co Publishers	Image pg. A108
	Vacant	R.L. Polk Co Publishers	Image pg. A108
	Marquardson E Eug acct A AT	R.L. Polk Co Publishers	Image pg. A108
	Mc Gilvrary V Grace A AT	R.L. Polk Co Publishers	Image pg. A108
	Miller Chas O A AT	R.L. Polk Co Publishers	Image pg. A108
	Scotness C H A AT	R.L. Polk Co Publishers	Image pg. A108
	Colorific Porcelain Co A AT	R.L. Polk Co Publishers	Image pg. A108
	Bargar Aletta I Mrs	R.L. Polk Co Publishers	Image pg. A108
	Reiner Egon E A AT	R.L. Polk Co Publishers	Image pg. A108
	Vacant	R.L. Polk Co Publishers	Image pg. A108
	Wadsley Anne S A AT	R.L. Polk Co Publishers	Image pg. A108
	Marquis Eliz	R.L. Polk Co Publishers	Image pg. A108
	Lunbom Gladys A A AT	R.L. Polk Co Publishers	Image pg. A108
	Knutson Olga A A AT	R.L. Polk Co Publishers	Image pg. A108
	Lopeman Frank E A AT	R.L. Polk Co Publishers	Image pg. A108
	Mott Niven T A AT	R.L. Polk Co Publishers	Image pg. A108
1955	Lyle Roy C	R.L. Polk Co Publishers	Image pg. A135
	Morgan Della L Mrs	R.L. Polk Co Publishers	Image pg. A135
	Smith Mary E	R.L. Polk Co Publishers	Image pg. A135
	Soderberg Wallace R	R.L. Polk Co Publishers	Image pg. A135
	Bettner Louise Mrs	R.L. Polk Co Publishers	Image pg. A135
	Stewart Hulda S Mrs	R.L. Polk Co Publishers	Image pg. A135

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Henderson Blanche	R.L. Polk Co Publishers	Image pg. A135
	Krebs Dorothy	R.L. Polk Co Publishers	Image pg. A135
	Mc Namara Hazel V Mrs	R.L. Polk Co Publishers	Image pg. A135
	Lopeman Frank A	R.L. Polk Co Publishers	Image pg. A135
	Mott Niven T	R.L. Polk Co Publishers	Image pg. A135
	Schroeter Robt	R.L. Polk Co Publishers	Image pg. A135
	Adams Phyllis D	R.L. Polk Co Publishers	Image pg. A135
	Morgan Harold P	R.L. Polk Co Publishers	Image pg. A135
	Bailey Freda i S Mrs	R.L. Polk Co Publishers	Image pg. A135
	Greedy Bess Mrs	R.L. Polk Co Publishers	Image pg. A135
	Street continued	R.L. Polk Co Publishers	Image pg. A135
	Roberts Ella Apartments	R.L. Polk Co Publishers	Image pg. A135
	Hulten Anna M	R.L. Polk Co Publishers	Image pg. A135
	Delnas Jean Mrs	R.L. Polk Co Publishers	Image pg. A135
	Marquardson E Eug mgr	R.L. Polk Co Publishers	Image pg. A135
	Mc Gilvray V Grace	R.L. Polk Co Publishers	Image pg. A135
	Marquardson E Eug aect	R.L. Polk Co Publishers	Image pg. A135
	Dam Oscar W	R.L. Polk Co Publishers	Image pg. A135
	Dailey Ellsworth E	R.L. Polk Co Publishers	Image pg. A135
	1940	Ella Robert Apartments	R.L. Polk Co publishers
Flowers Frank B mgr		R.L. Polk Co publishers	Image pg. A176
Alvick Mabel		R.L. Polk Co publishers	Image pg. A176
Bayley Frieda Mrs		R.L. Polk Co publishers	Image pg. A176
Bowman Agnes		R.L. Polk Co publishers	Image pg. A176
Brown Stewart H		R.L. Polk Co publishers	Image pg. A176
Calvert Earl		R.L. Polk Co publishers	Image pg. A176
Flynn Jas B		R.L. Polk Co publishers	Image pg. A176
Hopkins Rebecca Mrs		R.L. Polk Co publishers	Image pg. A176
Jeremeas Norman L		R.L. Polk Co publishers	Image pg. A176
Kirby Attwood A		R.L. Polk Co publishers	Image pg. A176
Logan John A		R.L. Polk Co publishers	Image pg. A176
Lyle Roy C		R.L. Polk Co publishers	Image pg. A176
Mc Cartney Frank		R.L. Polk Co publishers	Image pg. A176
Miller Chas E		R.L. Polk Co publishers	Image pg. A176
Monroe Henry A		R.L. Polk Co publishers	Image pg. A176
Moran Edna E		R.L. Polk Co publishers	Image pg. A176
Mott Nevin T		R.L. Polk Co publishers	Image pg. A176
Prisk Ronald C		R.L. Polk Co publishers	Image pg. A176

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Steendahl Marcus	R.L. Polk Co publishers	Image pg. A176
	Waymire Harry J	R.L. Polk Co publishers	Image pg. A176
	Wyatt Henry H	R.L. Polk Co publishers	Image pg. A176
1935	Ella Roberts Apartments RQy SchoenbergAigr	R.L. Polk Co Publishers	
	Gillham John C elk Municipal Court h	R.L. Polk Co Publishers	
	Mott Mary S Mrs private sec WCE&PA h	R.L. Polk Co Publishers	
1930	CHURCHIEILL Willard W Ethel B mech h apt 38	R.L. Polk Co Publishers	
	Elzey Medard A trnmn SMRy hl	R.L. Polk Co Publishers	
	Laquet Ethel H sten Seeley & Co r apt 35	R.L. Polk Co Publishers	
	Roberts Ella Apartments Mrs Nellie Durell mgr	R.L. Polk Co Publishers	
	Ruelle Harvey W Marjorie slsmn FSCorp h	R.L. Polk Co Publishers	
	Storage Marcus O Florence M slsmn Rattan	R.L. Polk Co Publishers	
	& Wood Chair Mfg Co h	R.L. Polk Co Publishers	
	apt 34	R.L. Polk Co Publishers	

### 17 VALLEY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Vacant	R.L. Polk Co Publishers	Image pg. A108
1955	Henry Jacqueline V Mrs	R.L. Polk Co Publishers	Image pg. A135
1940	Cole Fred I	R.L. Polk Co publishers	Image pg. A176
1935	JONES Thos F h	R.L. Polk Co Publishers	
1930	GREGG Geo R Marjorie elk Blue Star Line h	R.L. Polk Co Publishers	
1920	Gregtg G Ray Marjorie H sales mgr Cascade Motor Co h	R.L. Polk Co Publishers	

### 23 VALLEY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Vali Loa Apartments A AT	R.L. Polk Co Publishers	Image pg. A108
	Goerig Geo	R.L. Polk Co Publishers	Image pg. A108
	Snow Anna Mrs	R.L. Polk Co Publishers	Image pg. A108
	Kossove Harriett R	R.L. Polk Co Publishers	Image pg. A108
	Finkel Anner A AT	R.L. Polk Co Publishers	Image pg. A108
	Ackerman Norma Mrs A AT	R.L. Polk Co Publishers	Image pg. A108
	Shelton Jessie M Mrs A AT	R.L. Polk Co Publishers	Image pg. A108
	Prime Jennie Mrs A AT	R.L. Polk Co Publishers	Image pg. A108

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Hames Ted H A AT	R.L. Polk Co Publishers	Image pg. A108
	No return	R.L. Polk Co Publishers	Image pg. A108
	Carter Glen B A AT	R.L. Polk Co Publishers	Image pg. A108
	Funk Gloria	R.L. Polk Co Publishers	Image pg. A108
	Vizzard Leyola A Mrs	R.L. Polk Co Publishers	Image pg. A108

### 100 VALLEY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Vali Hai Apartments	R.L. Polk Co Publishers	Image pg. A106
	Bach Larry A AT	R.L. Polk Co Publishers	Image pg. A106
	Brown Sedonna A AT	R.L. Polk Co Publishers	Image pg. A106
	Kendall Doris A AT	R.L. Polk Co Publishers	Image pg. A106
	Uphus Shirley A AT	R.L. Polk Co Publishers	Image pg. A106
	Vacant	R.L. Polk Co Publishers	Image pg. A106
	Touchon Karen A AT	R.L. Polk Co Publishers	Image pg. A106
	Sullivan Howard A AT	R.L. Polk Co Publishers	Image pg. A106
	Olson Nancy A AT	R.L. Polk Co Publishers	Image pg. A106
	Lake Cal	R.L. Polk Co Publishers	Image pg. A106
	Gellerson Judith A AT	R.L. Polk Co Publishers	Image pg. A106
	Dahmen Lavina Mrs A AT	R.L. Polk Co Publishers	Image pg. A106
	Ditter I Sharon A AT	R.L. Polk Co Publishers	Image pg. A106
	Lee V O A AT	R.L. Polk Co Publishers	Image pg. A106
	West Carolyn L a AT	R.L. Polk Co Publishers	Image pg. A106
	Elliston Darleen Mrs	R.L. Polk Co Publishers	Image pg. A106
	Leibnitz Dale	R.L. Polk Co Publishers	Image pg. A106

### 101 VALLEY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Tollaksen Gustav A AT	R.L. Polk Co Publishers	Image pg. A106
	Fidler Robt IS osteo phys A P	R.L. Polk Co Publishers	Image pg. A107
1955	Finley Leo M	R.L. Polk Co Publishers	Image pg. A135

### 102 VALLEY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	La Veine Welden B	R.L. Polk Co Publishers	Image pg. A135
1940	Macaulay Muriel M Mrs	R.L. Polk Co publishers	Image pg. A176
1930	Corbett Grant C plmbr r	R.L. Polk Co Publishers	
1925	BROWN Sarah D wid Ulysses E h	R.L. Polk Co Publishers	
1920	SMITH Kathleen clk r	R.L. Polk Co Publishers	

## FINDINGS

### 103 VALLEY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Webster Sandra	R.L. Polk Co Publishers	Image pg. A107
1955	Mc Leod Edgar A	R.L. Polk Co Publishers	Image pg. A135

### 105 VALLEY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Hoffman Fredk W	R.L. Polk Co Publishers	Image pg. A107
1955	Williams Lillian I I Mrs	R.L. Polk Co Publishers	Image pg. A135

### 106 VALLEY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Mowvat Mi Doris	R.L. Polk Co Publishers	Image pg. A135
1940	Kolar Tony J	R.L. Polk Co publishers	Image pg. A176
1930	Moist Chas M Olga J dentist Roy M Mellor h	R.L. Polk Co Publishers	
1920	SM Wm J Frances B tchr h	R.L. Polk Co Publishers	

### 107 VALLEY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Pickrell Cyrus	R.L. Polk Co Publishers	Image pg. A107
1955	Pickrell Cyrus B	R.L. Polk Co Publishers	Image pg. A135

### 112 VALLEY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Belvedere Apartments	R.L. Polk Co Publishers	Image pg. A135
	Carter Robt R	R.L. Polk Co Publishers	Image pg. A135
	Pillsberry Gertie MI Mrs	R.L. Polk Co Publishers	Image pg. A135
	Krupp Albert	R.L. Polk Co Publishers	Image pg. A135
	Thomas Genette Mrs	R.L. Polk Co Publishers	Image pg. A135
	W Wellinmarth Jasper	R.L. Polk Co Publishers	Image pg. A135
	Boe Robt L	R.L. Polk Co Publishers	Image pg. A135
	Hnnaey Geo	R.L. Polk Co Publishers	Image pg. A135
	Wong Patricia Mrs	R.L. Polk Co Publishers	Image pg. A135
1940	Belvedere Apartments	R.L. Polk Co publishers	Image pg. A176
	Martin Myrtle Mrs mgr	R.L. Polk Co publishers	Image pg. A176
	Clark Jas P	R.L. Polk Co publishers	Image pg. A176
	Harthong Ernest M	R.L. Polk Co publishers	Image pg. A176
	Martin Jesse P	R.L. Polk Co publishers	Image pg. A176
	Moriarity Eliz Mrs	R.L. Polk Co publishers	Image pg. A176
	Webber Glenn R	R.L. Polk Co publishers	Image pg. A176

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Weidlich Oswald A	R.L. Polk Co publishers	Image pg. A176
1935	Rangwald A mach Nelson Iron Wks r	R.L. Polk Co Publishers	
1930	Belvedere Apartments Helen Duvall mgr	R.L. Polk Co Publishers	
	Chauncey Donald clk F&KCo r	R.L. Polk Co Publishers	
	Duvall Helen mgr Belvedere Apts h	R.L. Polk Co Publishers	
	Mc Emil V whsmn Am Wholesale Grocery r	R.L. Polk Co Publishers	
	Mc Emily Mrs Home Restaurant h 3012	R.L. Polk Co Publishers	
	Mc Ralph hlpr Fresh Apple Products Co r	R.L. Polk Co Publishers	
1925	Barker Herbt L Erma slsmn	R.L. Polk Co Publishers	
	Belvedere Apartments	R.L. Polk Co Publishers	
	HU Ernest real est	R.L. Polk Co Publishers	
	Lofflin Wm G driver r	R.L. Polk Co Publishers	
	Mc Donough Annie nurse	R.L. Polk Co Publishers	
	Mac Thos W Margery plstr	R.L. Polk Co Publishers	
	Slettengren Alfred elk F&N	R.L. Polk Co Publishers	
	Thirlwall Mina wid Christopher V housek Pr hi	R.L. Polk Co Publishers	
	Veding Hans fishermn hi	R.L. Polk Co Publishers	
	Watts Wialter A Margt clk	R.L. Polk Co Publishers	
1920	Belvedere Apartments	R.L. Polk Co Publishers	
	Fisc	R.L. Polk Co Publishers	
	Light Wm R Maude metalwkr h	R.L. Polk Co Publishers	
	Mac Goldie lab r	R.L. Polk Co Publishers	
	Mac Russell Goldie clk h	R.L. Polk Co Publishers	
	Mawr Robt J rodman CM&St PRy r	R.L. Polk Co Publishers	
	Perrott Cleve L Bertha E salsn h 26	R.L. Polk Co Publishers	
WELSH Wm W Leona h	R.L. Polk Co Publishers		

### 115 VALLEY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Erickson Andrew	R.L. Polk Co Publishers	Image pg. A135
1920	MADDEN Marguerite mach opr r	R.L. Polk Co Publishers	

### 116 VALLEY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	ERICKSON Russell G Vivian G baker VHDB h	R.L. Polk Co Publishers
1930	Waite Gilbert mech BACo r	R.L. Polk Co Publishers

## FINDINGS

### 119 VALLEY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Hunt Patricia Mrs	R.L. Polk Co Publishers	Image pg. A107
	Vacant	R.L. Polk Co Publishers	Image pg. A107
	Long Lowell C 4 AT	R.L. Polk Co Publishers	Image pg. A107
	Vacant	R.L. Polk Co Publishers	Image pg. A107
	Ingle Herbert L	R.L. Polk Co Publishers	Image pg. A107
	Kingston Apartments	R.L. Polk Co Publishers	Image pg. A107
	Smith Alice Mrs	R.L. Polk Co Publishers	Image pg. A107
	Starke Wolfgang H A AT	R.L. Polk Co Publishers	Image pg. A107
	Vacant	R.L. Polk Co Publishers	Image pg. A107
	Rowan Neal	R.L. Polk Co Publishers	Image pg. A107

### 125 VALLEY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Vacant	R.L. Polk Co Publishers	Image pg. A107

### VALLEY PL

#### 12 VALLEY PL

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1930	MAin Moreland hlpr Fresh Apple Products Co rl	R.L. Polk Co Publishers	
	Mc Jas I M Ellen hl	R.L. Polk Co Publishers	
	Mc John Annie plmbr hl	R.L. Polk Co Publishers	
	Duvall Olive rl	R.L. Polk Co Publishers	

#### 16 VALLEY PL

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1935	BAILEY Freda J Mrs clk UOCo h	R.L. Polk Co Publishers	
	Collett Bobt F elk WPF&Co h	R.L. Polk Co Publishers	
	Flynn Jas B Rose firemn SFD h	R.L. Polk Co Publishers	
	Hager Edna elk h	R.L. Polk Co Publishers	
	Holcomb Edna drsmkr h	R.L. Polk Co Publishers	
	Calma h	R.L. Polk Co Publishers	
	LARSON C Herman Carolyn janitor PSNav Co h 14051	R.L. Polk Co Publishers	
	LARSON Lillian r	R.L. Polk Co Publishers	
	LYLE Roy C Cleopatra H supvr of permits US Bur	R.L. Polk Co Publishers	
	Federal Office bldg h	R.L. Polk Co Publishers	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	MAIn Frank B dist mgr Apex Electric Supply Co h	R.L. Polk Co Publishers
	MONROE Henry A Eleanor P lawyer h	R.L. Polk Co Publishers R.L. Polk Co Publishers
	Prisk R C elk r	R.L. Polk Co Publishers
1930	Bakery Thos H P h	R.L. Polk Co Publishers
	Thos J Mary E whsmn NGCo h 1920	R.L. Polk Co Publishers
	Goldberg Abr Tillie pres Abe Goldberg Co Inc h	R.L. Polk Co Publishers
	HULL Verne M Charlotte V slsmn Hills Bros h	R.L. Polk Co Publishers
	Laquet Bert L Ethel H h	R.L. Polk Co Publishers
	35	R.L. Polk Co Publishers
	LYLE Roy C Cleo H h	R.L. Polk Co Publishers
	Pneumatic Tool Co h	R.L. Polk Co Publishers
	Marvin Eug L Violet formn PCCCo h	R.L. Polk Co Publishers
	Monroe Henry A Eleanor P atty bldg h	R.L. Polk Co Publishers R.L. Polk Co Publishers
	Fish Co h	R.L. Polk Co Publishers
	Stephanus Carolus J Rowena atty h 5131	R.L. Polk Co Publishers
	Stephen see also Steven	R.L. Polk Co Publishers
	Andw Jeannie A carp TDDInc h 3427	R.L. Polk Co Publishers
	SWEENEY Michl J Lois J agt Mut Benefit Life Ins Co h	R.L. Polk Co Publishers
	Waite Bayard r	R.L. Polk Co Publishers
	Waite Chas Lyzie S woodwkr GPCo h 5550	R.L. Polk Co Publishers
	Waite Mary L wid Frank E h	R.L. Polk Co Publishers
	22	R.L. Polk Co Publishers
	Waite Neville E aviator r	R.L. Polk Co Publishers
	Saml mech r	R.L. Polk Co Publishers
	WOLFF Norman A Dolly G slsmn Abe Goldberg Co Inc h	R.L. Polk Co Publishers
	Waite Sid Indymn Collins Family Lndy Sumner C Fern J elk GMTCo h 3733	R.L. Polk Co Publishers
	Waite Rogers Lumber Co John F Sharp mgr	R.L. Polk Co Publishers

### 112 VALLEY PL

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Mayfair Jesse P Myrtle L h	R.L. Polk Co Publishers
	Thomason Esther A asst W Ray Jones r	R.L. Polk Co Publishers

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Wagner Hazel I wtrs r	R.L. Polk Co Publishers

### 116 VALLEY PL

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Larson Anna wid Andrew h	R.L. Polk Co Publishers

### VALLEY St

#### 0 VALLEY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Palatine Harris F Jennie	R.L. Polk Co Publishers
	Palatine Hazal M wid Roy sten USVB h 5817	R.L. Polk Co Publishers

### VALLEY ST

#### 7 VALLEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	Saici Foleiy E	R.L. Polk Co. Publishers	Image pg. A18
	Stade Heather	R.L. Polk Co. Publishers	Image pg. A18
1990	Schram Karl G	R.L. Polk Co. Publishers	Image pg. A32
	United Negro College Fund	R.L. Polk Co. Publishers	Image pg. A32
1986	Schram Karl G	R.L. Polk Co. Publishers	Image pg. A44
1980	Schram Noel Advertising Inc	R.L. Polk Co. Publishers	Image pg. A56
1975	Schram Noel & Associates Inc adv agcy	R.L. Polk Co. Publishers	Image pg. A72
1970	SCHRAM NOEL & ASSOCIATES INC ADV AGCY AT	R.L. Polk Co Publishers	Image pg. A82
1966	SCHRAM NOEL & ASSOCIATES INC ADV AGCY AT	R.L. Polk Co Publishers	Image pg. A96
1951	Gidlund J H B GA	R.L. Polk Co Publishers	Image pg. A152

### VALLEY St

#### 7 VALLEY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Okerlund Chas	R. L. Polk & Co.	Image pg. A163
	Snyder Catth MS Mrs	R. L. Polk & Co.	Image pg. A163

## FINDINGS

### VALLEY ST

#### 10 VALLEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Wharton C H B AL	R.L. Polk Co Publishers	Image pg. A152

### VALLEY St

#### 10 VALLEY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Edwards Elsie K Mrs	R. L. Polk & Co.	Image pg. A163

### VALLEY ST

#### 15 VALLEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Anxess Lyman	R.L. Polk Co Publishers	Image pg. A152
	West H W AL	R.L. Polk Co Publishers	Image pg. A152

### VALLEY St

#### 15 VALLEY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Kempf Rudolph M	R. L. Polk & Co.	Image pg. A163

### Valley St

#### 16 Valley St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2014	MAXTECH DEVELOPEMENT LLC	EDR Digital Archive	
2010	MAXTECH DEVELOPEMENT LLC	EDR Digital Archive	

### VALLEY ST

#### 16 VALLEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Daniel W Hovey	Cole Information Services	Image pg. A5
	Almee Ingraham	Cole Information Services	Image pg. A5
	Karl Lorraine Presley	Cole Information Services	Image pg. A5
	Roseanne E Rostron	Cole Information Services	Image pg. A5
	Josiah Sangder	Cole Information Services	Image pg. A5
	Rachel JSangder	Cole Information Services	Image pg. A5

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Apartments	Cole Information Services	Image pg. A5
	Milchelle Baillie	Cole Information Services	Image pg. A5
	Jill Censor	Cole Information Services	Image pg. A5
	Joseph S Daniels	Cole Information Services	Image pg. A5
	John Dierks	Cole Information Services	Image pg. A5
	Sofia Echegaray	Cole Information Services	Image pg. A5
	Cristi R Eneberg	Cole Information Services	Image pg. A5
	0 Carlene C Greene	Cole Information Services	Image pg. A5
	Courtney C Greene	Cole Information Services	Image pg. A5
	Dan Ial W Haovey	Cole Information Services	Image pg. A5
1996	Danny P Hassard	Cole Information Services	Image pg. A5
	Barrett Tim P	R.L. Polk Co. Publishers	Image pg. A18
	Brozovich A	R.L. Polk Co. Publishers	Image pg. A18
	Brozovich J	R.L. Polk Co. Publishers	Image pg. A18
	Craig S	R.L. Polk Co. Publishers	Image pg. A18
	Hudak M	R.L. Polk Co. Publishers	Image pg. A18
	Johnson R A	R.L. Polk Co. Publishers	Image pg. A18
	Karau Albert Jr	R.L. Polk Co. Publishers	Image pg. A18
	Lloyd Jennifer	R.L. Polk Co. Publishers	Image pg. A18
	Lloyd Warren	R.L. Polk Co. Publishers	Image pg. A18
	Lopeman Frank A	R.L. Polk Co. Publishers	Image pg. A18
	Macarlene Andrew	R.L. Polk Co. Publishers	Image pg. A18
	Mathwg Jenniler A	R.L. Polk Co. Publishers	Image pg. A18
	Pelerson Timothy J	R.L. Polk Co. Publishers	Image pg. A18
	Presley Ka ri	R.L. Polk Co. Publishers	Image pg. A18
	Reay Else M	R.L. Polk Co. Publishers	Image pg. A18
	Shinlzu Michko	R.L. Polk Co. Publishers	Image pg. A18
	Sparre Vera	R.L. Polk Co. Publishers	Image pg. A18
	Slory David E	R.L. Polk Co. Publishers	Image pg. A18
	Swanson Vinca	R.L. Polk Co. Publishers	Image pg. A18
1990	Robert Ella Apartments	R.L. Polk Co. Publishers	Image pg. A30
	Carpenter B S	R.L. Polk Co. Publishers	Image pg. A30
	Kearns J	R.L. Polk Co. Publishers	Image pg. A30
	Higgins Mark S	R.L. Polk Co. Publishers	Image pg. A30
	Jeffery J	R.L. Polk Co. Publishers	Image pg. A30
	Keams Georg	R.L. Polk Co. Publishers	Image pg. A30
	Watchie Sandy	R.L. Polk Co. Publishers	Image pg. A30
	No Return	R.L. Polk Co. Publishers	Image pg. A30

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1990	Hoffman D	R.L. Polk Co. Publishers	Image pg. A30
	Elliott Y R	R.L. Polk Co. Publishers	Image pg. A30
	Pephyrs Steven	R.L. Polk Co. Publishers	Image pg. A30
	Patti Katherine	R.L. Polk Co. Publishers	Image pg. A30
	Scully Andrew	R.L. Polk Co. Publishers	Image pg. A30
	Carden Jeff	R.L. Polk Co. Publishers	Image pg. A30
	Whitney K	R.L. Polk Co. Publishers	Image pg. A30
	Van Devanter Mark	R.L. Polk Co. Publishers	Image pg. A30
	Lopeman Frank	R.L. Polk Co. Publishers	Image pg. A30
	Pegues John E	R.L. Polk Co. Publishers	Image pg. A30
	Buck Gary	R.L. Polk Co. Publishers	Image pg. A30
	Byrne J	R.L. Polk Co. Publishers	Image pg. A30
	Knutson Rachel R Mrs	R.L. Polk Co. Publishers	Image pg. A30
1986	Bailey Freda S Mrs	R.L. Polk Co. Publishers	Image pg. A30
	Williams Yvonne	R.L. Polk Co. Publishers	Image pg. A30
	Robert Ella Apartments	R.L. Polk Co. Publishers	Image pg. A44
	Carpenter B S	R.L. Polk Co. Publishers	Image pg. A44
	Kamps	R.L. Polk Co. Publishers	Image pg. A44
	Willson K	R.L. Polk Co. Publishers	Image pg. A44
	Heyaime Alvin	R.L. Polk Co. Publishers	Image pg. A44
	Kearns Georg	R.L. Polk Co. Publishers	Image pg. A44
	Conom	R.L. Polk Co. Publishers	Image pg. A44
	Pephurs Steven	R.L. Polk Co. Publishers	Image pg. A44
	Simms S	R.L. Polk Co. Publishers	Image pg. A44
	Patten J	R.L. Polk Co. Publishers	Image pg. A44
	Sparks W Richd	R.L. Polk Co. Publishers	Image pg. A44
	Watson T	R.L. Polk Co. Publishers	Image pg. A44
	Patten L	R.L. Polk Co. Publishers	Image pg. A44
	Carden Jeff	R.L. Polk Co. Publishers	Image pg. A44
	Whitney K	R.L. Polk Co. Publishers	Image pg. A44
	Van Devanter Mark	R.L. Polk Co. Publishers	Image pg. A44
Lopeman Frank	R.L. Polk Co. Publishers	Image pg. A44	
Thayer W	R.L. Polk Co. Publishers	Image pg. A44	
Meredith Id	R.L. Polk Co. Publishers	Image pg. A44	
Merrill	R.L. Polk Co. Publishers	Image pg. A44	
Knutson Rachel R Mrs	R.L. Polk Co. Publishers	Image pg. A44	
Bailey Freda S Mrs	R.L. Polk Co. Publishers	Image pg. A44	
Jungert P	R.L. Polk Co. Publishers	Image pg. A44	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1986	STREET CONTINUED	R.L. Polk Co. Publishers	Image pg. A44
1980	Robert Ella Apart	R.L. Polk Co. Publishers	Image pg. A56
	Vacant	R.L. Polk Co. Publishers	Image pg. A56
	Jackson Mark	R.L. Polk Co. Publishers	Image pg. A56
	Goolsby John P	R.L. Polk Co. Publishers	Image pg. A56
	Porcelain Airloom Co mfg	R.L. Polk Co. Publishers	Image pg. A56
	Kearns Ge	R.L. Polk Co. Publishers	Image pg. A56
	Enticknap J L	R.L. Polk Co. Publishers	Image pg. A56
	Mc Greaham Michl W	R.L. Polk Co. Publishers	Image pg. A56
	Keller Francine	R.L. Polk Co. Publishers	Image pg. A56
	Franco Paul	R.L. Polk Co. Publishers	Image pg. A56
	Kamps Page	R.L. Polk Co. Publishers	Image pg. A56
	Zylstra Adelbert C	R.L. Polk Co. Publishers	Image pg. A56
	Niabett Rishelle	R.L. Polk Co. Publishers	Image pg. A56
	Bender Jeff	R.L. Polk Co. Publishers	Image pg. A56
	Deignan J	R.L. Polk Co. Publishers	Image pg. A56
	Orr S	R.L. Polk Co. Publishers	Image pg. A56
	Lopeman Frank	R.L. Polk Co. Publishers	Image pg. A56
	Clarke Rod A	R.L. Polk Co. Publishers	Image pg. A56
	Schroeter Lillian Mrs	R.L. Polk Co. Publishers	Image pg. A56
	Yokoyama Richd M	R.L. Polk Co. Publishers	Image pg. A56
	Knutson Rachel R Mrs	R.L. Polk Co. Publishers	Image pg. A56
	Bailey Freda S Mrs	R.L. Polk Co. Publishers	Image pg. A56
	Daweon L	R.L. Polk Co. Publishers	Image pg. A56
	STREET CONTINUED	R.L. Polk Co. Publishers	Image pg. A56
1975	Mori Ten	R.L. Polk Co. Publishers	Image pg. A72
	Vacant	R.L. Polk Co. Publishers	Image pg. A72
	Mottle Joanne	R.L. Polk Co. Publishers	Image pg. A72
	Zylstra Adelbert C	R.L. Polk Co. Publishers	Image pg. A72
	Jackson Carrol	R.L. Polk Co. Publishers	Image pg. A72
	Hunter Susan	R.L. Polk Co. Publishers	Image pg. A72
	Munger Robt	R.L. Polk Co. Publishers	Image pg. A72
	Harrigan Wm R	R.L. Polk Co. Publishers	Image pg. A72
	Lopeman Frank	R.L. Polk Co. Publishers	Image pg. A72
	Mott Niven T	R.L. Polk Co. Publishers	Image pg. A72
	Schroeter Lillian Mrs	R.L. Polk Co. Publishers	Image pg. A72
	Milated Diane	R.L. Polk Co. Publishers	Image pg. A72
	Knuteon Rachel R Mrs	R.L. Polk Co. Publishers	Image pg. A72

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1975	Bailey Freda S Mrs	R.L. Polk Co. Publishers	Image pg. A72
	Kaskowski Runach Jaime	R.L. Polk Co. Publishers	Image pg. A72
	Ella Roberts Apartments	R.L. Polk Co. Publishers	Image pg. A72
	Karkainin K	R.L. Polk Co. Publishers	Image pg. A72
	Eafi John M	R.L. Polk Co. Publishers	Image pg. A72
	Blane Chris	R.L. Polk Co. Publishers	Image pg. A72
	Coloriflic Porcelain Co	R.L. Polk Co. Publishers	Image pg. A72
	Mahan Charles	R.L. Polk Co. Publishers	Image pg. A72
	Lambert David	R.L. Polk Co. Publishers	Image pg. A72
	Ryan Lynn E	R.L. Polk Co. Publishers	Image pg. A72
1970	ELLA ROBERT APARTMENTS AT	R.L. Polk Co Publishers	Image pg. A82
	BOS DONALD W AT	R.L. Polk Co Publishers	Image pg. A82
	MC GIVNEY FRANCIS A AT	R.L. Polk Co Publishers	Image pg. A82
	NO RETURN	R.L. Polk Co Publishers	Image pg. A82
	COLORIFIC PORCELAIN CO AT	R.L. Polk Co Publishers	Image pg. A82
	VACANT	R.L. Polk Co Publishers	Image pg. A82
	MC GILVRAY V GRACE AT	R.L. Polk Co Publishers	Image pg. A82
	JOHNSON ROBIN M AT	R.L. Polk Co Publishers	Image pg. A82
	GRIFFITH VERNA	R.L. Polk Co Publishers	Image pg. A82
	ALLGIRE MARTH	R.L. Polk Co Publishers	Image pg. A82
	FOSTER ORA M MRS AT	R.L. Polk Co Publishers	Image pg. A82
	RHODES MARGIE	R.L. Polk Co Publishers	Image pg. A82
	ZYLSTRA ADELBERT C	R.L. Polk Co Publishers	Image pg. A82
	ALLEN FLORINNE AT	R.L. Polk Co Publishers	Image pg. A82
	WEAVER MICHL	R.L. Polk Co Publishers	Image pg. A82
	CASEY MONICat	R.L. Polk Co Publishers	Image pg. A82
	HERIAN B RUSSELL	R.L. Polk Co Publishers	Image pg. A82
	LOPEMAN FRANK at	R.L. Polk Co Publishers	Image pg. A82
	MOTT NIVEN T AT	R.L. Polk Co Publishers	Image pg. A82
	SCHROETER LILLIAN MRS	R.L. Polk Co Publishers	Image pg. A82
	RIDER CECILE Y MRS AT	R.L. Polk Co Publishers	Image pg. A82
	KNUTSON RACHEL R MRS AT	R.L. Polk Co Publishers	Image pg. A82
	BAILEY FREDA S MRS AT	R.L. Polk Co Publishers	Image pg. A82
MARCY VICKI K	R.L. Polk Co Publishers	Image pg. A82	
1966	ELLA ROBERT APARTMENTS	R.L. Polk Co Publishers	Image pg. A96
	HOERTH PAUL HENRI	R.L. Polk Co Publishers	Image pg. A96
	MC GIUNY FRANCIS A AT	R.L. Polk Co Publishers	Image pg. A96
	NO RETURN	R.L. Polk Co Publishers	Image pg. A96

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1966	COLORIFIC PORCELAIN CO AT	R.L. Polk Co Publishers	Image pg. A96
	VACANT	R.L. Polk Co Publishers	Image pg. A96
	MARQUAK DSON E EUG ACCT AT	R.L. Polk Co Publishers	Image pg. A96
	MC GILVRAY V GRACE AT	R.L. Polk Co Publishers	Image pg. A96
	MONIER JULES	R.L. Polk Co Publishers	Image pg. A96
	EBERLY MEREDITH S MRS AT	R.L. Polk Co Publishers	Image pg. A96
	MATTICE VEDA L MRS	R.L. Polk Co Publishers	Image pg. A96
	HODGES LEO M ATJ 10b	R.L. Polk Co Publishers	Image pg. A96
	STEINER G L AT	R.L. Polk Co Publishers	Image pg. A96
	ZYLSTRA ARTH	R.L. Polk Co Publishers	Image pg. A96
	WADSLEY ANNE MRS	R.L. Polk Co Publishers	Image pg. A96
	MC DANIEL LALRA L AT	R.L. Polk Co Publishers	Image pg. A96
	THOMPSON ANNE E	R.L. Polk Co Publishers	Image pg. A96
	SWENSON ELVA M AT 3 711is	R.L. Polk Co Publishers	Image pg. A96
	LOPEMAN FRANK A AT	R.L. Polk Co Publishers	Image pg. A96
	MOTT NIVEN T AT	R.L. Polk Co Publishers	Image pg. A96
	SCHROETER LILLIAN MRS AT	R.L. Polk Co Publishers	Image pg. A96
	CAREY JAMES at	R.L. Polk Co Publishers	Image pg. A96
	KNUTSON RACHEL R MRS AT	R.L. Polk Co Publishers	Image pg. A96
	BAILEY FRED A S MRS AT	R.L. Polk Co Publishers	Image pg. A96
BRENNAN EDYTHE MRS AT	R.L. Polk Co Publishers	Image pg. A96	
1951	Roberts Ella Apartments	R.L. Polk Co Publishers	Image pg. A152
	Anderson Edna AL	R.L. Polk Co Publishers	Image pg. A152
	Bailey F S Mrs AL	R.L. Polk Co Publishers	Image pg. A152
	Benson Eliz AL	R.L. Polk Co Publishers	Image pg. A152
	Dam 0 W AL	R.L. Polk Co Publishers	Image pg. A152
	Domey Nina L AL	R.L. Polk Co Publishers	Image pg. A152
	Hulton Anna M AL	R.L. Polk Co Publishers	Image pg. A152
	Johnson Emma H AL	R.L. Polk Co Publishers	Image pg. A152
	Kirby B M Mrs GA	R.L. Polk Co Publishers	Image pg. A152
	Lanteford R A GA	R.L. Polk Co Publishers	Image pg. A152
	Lopeman F A AL	R.L. Polk Co Publishers	Image pg. A152
	Lusk H E real est broker	R.L. Polk Co Publishers	Image pg. A152
	Lyle R C GA	R.L. Polk Co Publishers	Image pg. A152
	Me Clinton M G Mrs GA	R.L. Polk Co Publishers	Image pg. A152
	Mc Donald Ethel Mrs AL	R.L. Polk Co Publishers	Image pg. A152
	Mo Gilvray Virginia G	R.L. Polk Co Publishers	Image pg. A152
Mc Namara Hazel V AL	R.L. Polk Co Publishers	Image pg. A152	

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Mitchum R M Mrs AL	R.L. Polk Co Publishers	Image pg. A152
	Molt N T AL	R.L. Polk Co Publishers	Image pg. A152
	Moore L B Mrs	R.L. Polk Co Publishers	Image pg. A152
	Morgan H P AL	R.L. Polk Co Publishers	Image pg. A152
	Mortenson Anna F AL	R.L. Polk Co Publishers	Image pg. A152
	Reynolds Glenn GA	R.L. Polk Co Publishers	Image pg. A152

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Flowers Frank B mngr	R. L. Polk & Co.	Image pg. A163
	Ella Robert Apartments	R. L. Polk & Co.	Image pg. A163

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2014	SSBA INC	EDR Digital Archive	
2010	SSBA INC	EDR Digital Archive	

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Apartments	Cole Information Services	Image pg. A5
	George EAlkins	Cole Information Services	Image pg. A5
	Patti ABingham	Cole Information Services	Image pg. A5
	M Chavuin	Cole Information Services	Image pg. A5
	Bruce Cole	Cole Information Services	Image pg. A5
	J E Darr	Cole Information Services	Image pg. A5
	Judith EDarr	Cole Information Services	Image pg. A5
	Terry RDrinkwalter	Cole Information Services	Image pg. A5
	Don LEwards	Cole Information Services	Image pg. A5
	Clare Israel	Cole Information Services	Image pg. A5
	Neil Jones	Cole Information Services	Image pg. A5
	David Sawchuk	Cole Information Services	Image pg. A5
	KSiriwangichai	Cole Information Services	Image pg. A5
	Michael P Snow	Cole Information Services	Image pg. A5
	Jared Suess	Cole Information Services	Image pg. A5

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Rose M Walter	Cole Information Services	Image pg. A5
	Dennis Paul Wilken	Cole Information Services	Image pg. A5
1996	Buler Melb sa	R.L. Polk Co. Publishers	Image pg. A18
	Caniton J	R.L. Polk Co. Publishers	Image pg. A18
	Dar J E	R.L. Polk Co. Publishers	Image pg. A18
	Durbrow Lorid	R.L. Polk Co. Publishers	Image pg. A18
	Endicott James	R.L. Polk Co. Publishers	Image pg. A18
	Hirons Fred C	R.L. Polk Co. Publishers	Image pg. A18
	Iraha Mika	R.L. Polk Co. Publishers	Image pg. A18
	Jenson Ma Ha	R.L. Polk Co. Publishers	Image pg. A18
	Martin Je	R.L. Polk Co. Publishers	Image pg. A18
	Mortord M Parker James 453 43 C	R.L. Polk Co. Publishers	Image pg. A18
	Parker Robert	R.L. Polk Co. Publishers	Image pg. A18
	Soot Richard D	R.L. Polk Co. Publishers	Image pg. A18
	Shean Hal	R.L. Polk Co. Publishers	Image pg. A18
	Shidle K	R.L. Polk Co. Publishers	Image pg. A18
	Stone Deml	R.L. Polk Co. Publishers	Image pg. A18
	Stone Den I O	R.L. Polk Co. Publishers	Image pg. A18
	Thieike M	R.L. Polk Co. Publishers	Image pg. A18
	Tlemey Sean	R.L. Polk Co. Publishers	Image pg. A18
	VALLEY ST onti Wd	R.L. Polk Co. Publishers	Image pg. A18
	Addeaa Zip 4 Carn Rte Phone	R.L. Polk Co. Publishers	Image pg. A18
Trapp Dennis M	R.L. Polk Co. Publishers	Image pg. A18	
Utley Lelie	R.L. Polk Co. Publishers	Image pg. A18	
Water R M	R.L. Polk Co. Publishers	Image pg. A18	
1990	Apartments	R.L. Polk Co. Publishers	Image pg. A31
	Wah Chung Mong	R.L. Polk Co. Publishers	Image pg. A31
	Moe Donald F	R.L. Polk Co. Publishers	Image pg. A31
	Woolett Dani	R.L. Polk Co. Publishers	Image pg. A31
	Ming Chun Yil	R.L. Polk Co. Publishers	Image pg. A31
	Lewis Jim	R.L. Polk Co. Publishers	Image pg. A31
	Rodin Jeffry	R.L. Polk Co. Publishers	Image pg. A31
	Vacant	R.L. Polk Co. Publishers	Image pg. A31
	Brinley M	R.L. Polk Co. Publishers	Image pg. A31
	Burroughs Scott	R.L. Polk Co. Publishers	Image pg. A31
	Juracich	R.L. Polk Co. Publishers	Image pg. A31
	Beattle F	R.L. Polk Co. Publishers	Image pg. A31
Lipovski Frank J	R.L. Polk Co. Publishers	Image pg. A31	

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1990	Rice Myrtle M	R.L. Polk Co. Publishers	Image pg. A31
	Johnson C	R.L. Polk Co. Publishers	Image pg. A31
	Randazzo S	R.L. Polk Co. Publishers	Image pg. A31
	Elmer Ruth	R.L. Polk Co. Publishers	Image pg. A31
	Svendsen Andy	R.L. Polk Co. Publishers	Image pg. A31
	Cole David W	R.L. Polk Co. Publishers	Image pg. A31
	Holloran H L	R.L. Polk Co. Publishers	Image pg. A31
	Kalof Terry K	R.L. Polk Co. Publishers	Image pg. A31
	No Return	R.L. Polk Co. Publishers	Image pg. A31
	Green Karen L	R.L. Polk Co. Publishers	Image pg. A31
	Wedel Oliver	R.L. Polk Co. Publishers	Image pg. A31
	Badders Melba L	R.L. Polk Co. Publishers	Image pg. A31
	Fujii Ginee	R.L. Polk Co. Publishers	Image pg. A31
	Woodfill Judith	R.L. Polk Co. Publishers	Image pg. A31
Di Blasi Charles	R.L. Polk Co. Publishers	Image pg. A31	
1986	Apartments	R.L. Polk Co. Publishers	Image pg. A44
	Wah Chung Mong	R.L. Polk Co. Publishers	Image pg. A44
	Baxter	R.L. Polk Co. Publishers	Image pg. A44
	Schantz James	R.L. Polk Co. Publishers	Image pg. A44
	Chin Lester	R.L. Polk Co. Publishers	Image pg. A44
	Foutz Thos	R.L. Polk Co. Publishers	Image pg. A44
	Campbell J	R.L. Polk Co. Publishers	Image pg. A44
	Bell Jacquelyn M	R.L. Polk Co. Publishers	Image pg. A44
	Lipovski Frank J	R.L. Polk Co. Publishers	Image pg. A44
	Rice Myrtle M	R.L. Polk Co. Publishers	Image pg. A44
	Milor	R.L. Polk Co. Publishers	Image pg. A44
	Johnson S	R.L. Polk Co. Publishers	Image pg. A44
	Elmer Ruth	R.L. Polk Co. Publishers	Image pg. A44
	Shojil	R.L. Polk Co. Publishers	Image pg. A44
	Johnson Iva	R.L. Polk Co. Publishers	Image pg. A44
	Tosic Miodray	R.L. Polk Co. Publishers	Image pg. A44
	Gonzales Dani	R.L. Polk Co. Publishers	Image pg. A44
	Hashimoto Allan	R.L. Polk Co. Publishers	Image pg. A44
	Veith Viod	R.L. Polk Co. Publishers	Image pg. A44
	Anderson Pat Mrs	R.L. Polk Co. Publishers	Image pg. A44
Badders Melba L	R.L. Polk Co. Publishers	Image pg. A44	
Marriott D	R.L. Polk Co. Publishers	Image pg. A44	
Woodfill Judith	R.L. Polk Co. Publishers	Image pg. A44	

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1986	Di Blasi Charles	R.L. Polk Co. Publishers	Image pg. A44
	Stevenson Henri	R.L. Polk Co. Publishers	Image pg. A44
	Mc Closkey Patrick	R.L. Polk Co. Publishers	Image pg. A44
	Kuhr William T	R.L. Polk Co. Publishers	Image pg. A44
	Brinley M	R.L. Polk Co. Publishers	Image pg. A44
1980	Seventeen Valley Apartments	R.L. Polk Co. Publishers	Image pg. A56
	sen M	R.L. Polk Co. Publishers	Image pg. A56
	Whiale R	R.L. Polk Co. Publishers	Image pg. A56
	Graif Joan	R.L. Polk Co. Publishers	Image pg. A56
	Reynolds S J	R.L. Polk Co. Publishers	Image pg. A56
	Leary J	R.L. Polk Co. Publishers	Image pg. A56
	Koba C	R.L. Polk Co. Publishers	Image pg. A56
	David Warren L	R.L. Polk Co. Publishers	Image pg. A56
	Barrios Rudy	R.L. Polk Co. Publishers	Image pg. A56
	Foutz Thou	R.L. Polk Co. Publishers	Image pg. A56
	Palmer Arvilla A	R.L. Polk Co. Publishers	Image pg. A56
	Bell Jacquelyn M	R.L. Polk Co. Publishers	Image pg. A56
	Hatch	R.L. Polk Co. Publishers	Image pg. A56
	Rice Myrtle M	R.L. Polk Co. Publishers	Image pg. A56
	Jylha Saima M Mrs	R.L. Polk Co. Publishers	Image pg. A56
	Hendricks James	R.L. Polk Co. Publishers	Image pg. A56
	Elmer Ruth	R.L. Polk Co. Publishers	Image pg. A56
	Ridgway Pamela N	R.L. Polk Co. Publishers	Image pg. A56
	Johnson I	R.L. Polk Co. Publishers	Image pg. A56
	Sullivan Michl C	R.L. Polk Co. Publishers	Image pg. A56
	Gonzalea D	R.L. Polk Co. Publishers	Image pg. A56
	Mills Kath	R.L. Polk Co. Publishers	Image pg. A56
	Berger E	R.L. Polk Co. Publishers	Image pg. A56
Anderson Pat Mrs	R.L. Polk Co. Publishers	Image pg. A56	
Badders Mabel L	R.L. Polk Co. Publishers	Image pg. A56	
Melton S E	R.L. Polk Co. Publishers	Image pg. A56	
Tate A	R.L. Polk Co. Publishers	Image pg. A56	
Guy Gifford C	R.L. Polk Co. Publishers	Image pg. A56	
1975	Seventeen Valley Apart	R.L. Polk Co. Publishers	Image pg. A72
	Johnaon Ruth H	R.L. Polk Co. Publishers	Image pg. A72
	Schwart hopf W	R.L. Polk Co. Publishers	Image pg. A72
	Healy Lyd	R.L. Polk Co. Publishers	Image pg. A72
	Denny Denise	R.L. Polk Co. Publishers	Image pg. A72

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1975	Maseart Fritz W	R.L. Polk Co. Publishers	Image pg. A72
	Conner Aleen W Mrs	R.L. Polk Co. Publishers	Image pg. A72
	W D W Co real eat	R.L. Polk Co. Publishers	Image pg. A72
	Wilhelm Eug	R.L. Polk Co. Publishers	Image pg. A72
	Sorley L	R.L. Polk Co. Publishers	Image pg. A72
	Foultz T	R.L. Polk Co. Publishers	Image pg. A72
	Vacant	R.L. Polk Co. Publishers	Image pg. A72
	Guis Albert	R.L. Polk Co. Publishers	Image pg. A72
	Lefor Mary L	R.L. Polk Co. Publishers	Image pg. A72
	Trompeter Ronald J	R.L. Polk Co. Publishers	Image pg. A72
	Jylha S M	R.L. Polk Co. Publishers	Image pg. A72
	Gonzales Dani	R.L. Polk Co. Publishers	Image pg. A72
	Vacant	R.L. Polk Co. Publishers	Image pg. A72
	Ridgway Pame	R.L. Polk Co. Publishers	Image pg. A72
	Johnson I	R.L. Polk Co. Publishers	Image pg. A72
	Grenier Robt B	R.L. Polk Co. Publishers	Image pg. A72
	Shock Winifred Mrs	R.L. Polk Co. Publishers	Image pg. A72
	David Warren L	R.L. Polk Co. Publishers	Image pg. A72
	Mills K	R.L. Polk Co. Publishers	Image pg. A72
	Anderson P	R.L. Polk Co. Publishers	Image pg. A72
Badders Mabel L	R.L. Polk Co. Publishers	Image pg. A72	
Burriss Pamela A	R.L. Polk Co. Publishers	Image pg. A72	
OShea Arth W	R.L. Polk Co. Publishers	Image pg. A72	
Berg Alvin J	R.L. Polk Co. Publishers	Image pg. A72	
1970	CARLSON ESTHER	R.L. Polk Co Publishers	Image pg. A82
	SHAW STEVE AT	R.L. Polk Co Publishers	Image pg. A82
	AKASKI ASAO	R.L. Polk Co Publishers	Image pg. A82
	W 0 W CO REAL EST AT	R.L. Polk Co Publishers	Image pg. A82
	WILHELM E 0 AT	R.L. Polk Co Publishers	Image pg. A82
	VACANT	R.L. Polk Co Publishers	Image pg. A82
	JENKINS WM AT	R.L. Polk Co Publishers	Image pg. A82
	PALMER ARVILLA A MRS AT	R.L. Polk Co Publishers	Image pg. A82
	MITCHELL FRANCES AT	R.L. Polk Co Publishers	Image pg. A82
	GRATTERI LEANNE	R.L. Polk Co Publishers	Image pg. A82
	GOBIET JAN L AT	R.L. Polk Co Publishers	Image pg. A82
	GOIA HAZEL	R.L. Polk Co Publishers	Image pg. A82
	MAINE STANLEY	R.L. Polk Co Publishers	Image pg. A82
BAKER RHEat	R.L. Polk Co Publishers	Image pg. A82	

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1970	SAUNDERS ROBT	R.L. Polk Co Publishers	Image pg. A82
	PEDERSEN RANDI	R.L. Polk Co Publishers	Image pg. A82
	SOWLES CHARLINE AT	R.L. Polk Co Publishers	Image pg. A82
	SHOCK WINIFRED MRS AT	R.L. Polk Co Publishers	Image pg. A82
	DIGERNESS DIANA AT	R.L. Polk Co Publishers	Image pg. A82
	CORCORAN GEO C	R.L. Polk Co Publishers	Image pg. A82
	ROCKWELL GLEN	R.L. Polk Co Publishers	Image pg. A82
	BADDERS MABEL L AT	R.L. Polk Co Publishers	Image pg. A82
	ELIAS JAY	R.L. Polk Co Publishers	Image pg. A82
	SKERLOCK BERNICE MRS	R.L. Polk Co Publishers	Image pg. A82
	BERG ALVIN J AT	R.L. Polk Co Publishers	Image pg. A82
	SEVENTEEN VALLEY APARTMENTS AT	R.L. Polk Co Publishers	Image pg. A82
	JOHNSON RUTH H AT	R.L. Polk Co Publishers	Image pg. A82
WATERS DOROTHY H AT	R.L. Polk Co Publishers	Image pg. A82	
GRAY DENNIS	R.L. Polk Co Publishers	Image pg. A82	
1966	APARTMENTS	R.L. Polk Co Publishers	Image pg. A96
	SEVENTEEN VALLEY	R.L. Polk Co Publishers	Image pg. A96
	JOHNSON RUTH H	R.L. Polk Co Publishers	Image pg. A96
	PUTMAN DIANE AT	R.L. Polk Co Publishers	Image pg. A96
	TRIPP ROBT M AT	R.L. Polk Co Publishers	Image pg. A96
	CARLSEN DENNIS H	R.L. Polk Co Publishers	Image pg. A96
	BOULE E	R.L. Polk Co Publishers	Image pg. A96
	WILLIAMS MARCELLA J MRS AT	R.L. Polk Co Publishers	Image pg. A96
	WILHELM E	R.L. Polk Co Publishers	Image pg. A96
	MILLER VIOLA	R.L. Polk Co Publishers	Image pg. A96
	HOLLIS LARRY AT	R.L. Polk Co Publishers	Image pg. A96
	PALMER ARVILLA A AT	R.L. Polk Co Publishers	Image pg. A96
	MITCHELL FRANCES AT	R.L. Polk Co Publishers	Image pg. A96
	MORSE RICHD F AT	R.L. Polk Co Publishers	Image pg. A96
	VACANT	R.L. Polk Co Publishers	Image pg. A96
	NIELSON CARISTA F AT	R.L. Polk Co Publishers	Image pg. A96
	FORBES FRANCES	R.L. Polk Co Publishers	Image pg. A96
	SCHWEIGER BILL	R.L. Polk Co Publishers	Image pg. A96
	PIXLEY CAROL J AT	R.L. Polk Co Publishers	Image pg. A96
	NO RETURN AT	R.L. Polk Co Publishers	Image pg. A96
KORRY B VAL AT	R.L. Polk Co Publishers	Image pg. A96	
BRADT HORACE G	R.L. Polk Co Publishers	Image pg. A96	
VACANT	R.L. Polk Co Publishers	Image pg. A96	

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1966	DAHLMAN P L AT	R.L. Polk Co Publishers	Image pg. A96
	VALLEJO LOUIS N AT	R.L. Polk Co Publishers	Image pg. A96
	MC TAGUE JAMES	R.L. Polk Co Publishers	Image pg. A96
	BAILEY ROST T AT	R.L. Polk Co Publishers	Image pg. A96
	STEPHENSON JOHN C AT	R.L. Polk Co Publishers	Image pg. A96
	DAY DEL AT	R.L. Polk Co Publishers	Image pg. A96
1951	Templeton L E AL	R.L. Polk Co Publishers	Image pg. A152

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1944	Cole Fred I	R. L. Polk & Co.	Image pg. A163

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Apartments	Cole Information Services	Image pg. A5
	MAcord	Cole Information Services	Image pg. A5
	S Bemard	Cole Information Services	Image pg. A5
	Michael JByrd	Cole Information Services	Image pg. A5
	Alen Ross Chao	Cole Information Services	Image pg. A5
	JLGreen	Cole Information Services	Image pg. A5
	Marian C Loewy	Cole Information Services	Image pg. A5
	Jennie E Mason	Cole Information Services	Image pg. A5
	AMezistrano	Cole Information Services	Image pg. A5
	Steven W Sparks	Cole Information Services	Image pg. A5
1996	Bawe Jia D	R.L. Polk Co. Publishers	Image pg. A18
	Canoll Susan	R.L. Polk Co. Publishers	Image pg. A18
	Canol Ted	R.L. Polk Co. Publishers	Image pg. A18
	Craig Donald E	R.L. Polk Co. Publishers	Image pg. A18
	Hammer J W	R.L. Polk Co. Publishers	Image pg. A18
	Hedrick Joseph	R.L. Polk Co. Publishers	Image pg. A18
	Hrmann John	R.L. Polk Co. Publishers	Image pg. A18
	Lever Ing Witlam R III	R.L. Polk Co. Publishers	Image pg. A18
	Loewy M	R.L. Polk Co. Publishers	Image pg. A18
	Loney Chad	R.L. Polk Co. Publishers	Image pg. A18
Nieken Larry	R.L. Polk Co. Publishers	Image pg. A18	

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	Sparks S W	R.L. Polk Co. Publishers	Image pg. A18
	Takenaga Scott	R.L. Polk Co. Publishers	Image pg. A18
1990	Vali Loa Apartments	R.L. Polk Co. Publishers	Image pg. A31
	Brown J	R.L. Polk Co. Publishers	Image pg. A31
	Mo Htor T Geo	R.L. Polk Co. Publishers	Image pg. A31
	Loewy M Marian	R.L. Polk Co. Publishers	Image pg. A31
	Lee Myri M	R.L. Polk Co. Publishers	Image pg. A31
	Talbot D J	R.L. Polk Co. Publishers	Image pg. A31
	Mc Crossin Robt	R.L. Polk Co. Publishers	Image pg. A31
	Shelton Jessie M Mrs	R.L. Polk Co. Publishers	Image pg. A31
	Prime Jennie Mrs	R.L. Polk Co. Publishers	Image pg. A31
	Wilson Mark F	R.L. Polk Co. Publishers	Image pg. A31
	Horman John	R.L. Polk Co. Publishers	Image pg. A31
	Craig Donald E	R.L. Polk Co. Publishers	Image pg. A31
	Adams Mc Taggard M	R.L. Polk Co. Publishers	Image pg. A31
1986	Vali Loa Apartments	R.L. Polk Co. Publishers	Image pg. A44
	Killoran Kevin	R.L. Polk Co. Publishers	Image pg. A44
	Molitor T Geo	R.L. Polk Co. Publishers	Image pg. A44
	Lowy M Marian	R.L. Polk Co. Publishers	Image pg. A44
	Lee Myri M	R.L. Polk Co. Publishers	Image pg. A44
	Vacant	R.L. Polk Co. Publishers	Image pg. A44
	Vacant	R.L. Polk Co. Publishers	Image pg. A44
	Shelton Jessie M Mrs	R.L. Polk Co. Publishers	Image pg. A44
	Prime Jennie Mrs	R.L. Polk Co. Publishers	Image pg. A44
	Wilson Mark E	R.L. Polk Co. Publishers	Image pg. A44
	Horman John	R.L. Polk Co. Publishers	Image pg. A44
	Craig Donald E	R.L. Polk Co. Publishers	Image pg. A44
	Adams Mc Taggard M	R.L. Polk Co. Publishers	Image pg. A44
1ST AV N INTERSECTS	R.L. Polk Co. Publishers	Image pg. A44	
1980	Vali Loa Apart	R.L. Polk Co. Publishers	Image pg. A56
	Matheson D M	R.L. Polk Co. Publishers	Image pg. A56
	Molitor T	R.L. Polk Co. Publishers	Image pg. A56
	Whatley Eug L	R.L. Polk Co. Publishers	Image pg. A56
	Bergey L C	R.L. Polk Co. Publishers	Image pg. A56
	Cook C	R.L. Polk Co. Publishers	Image pg. A56
	Stsdler Kevin K	R.L. Polk Co. Publishers	Image pg. A56
	Shellton Jessie M Mrs	R.L. Polk Co. Publishers	Image pg. A56
Prime Jennie Mrs	R.L. Polk Co. Publishers	Image pg. A56	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1980	Ortiz R	R.L. Polk Co. Publishers	Image pg. A56
	Mulligan L	R.L. Polk Co. Publishers	Image pg. A56
	Craig Donald E	R.L. Polk Co. Publishers	Image pg. A56
	Adams Mabel M Mrs	R.L. Polk Co. Publishers	Image pg. A56
1975	Prime Jennie Mrs	R.L. Polk Co. Publishers	Image pg. A72
	Poser A	R.L. Polk Co. Publishers	Image pg. A72
	Griff Mths Richd M	R.L. Polk Co. Publishers	Image pg. A72
	Craig Donald E	R.L. Polk Co. Publishers	Image pg. A72
	Adams Mabel M Mrs	R.L. Polk Co. Publishers	Image pg. A72
	1ST AV N INTERSECTS	R.L. Polk Co. Publishers	Image pg. A72
	Vali Loa Apartments	R.L. Polk Co. Publishers	Image pg. A72
	Maust Dolores	R.L. Polk Co. Publishers	Image pg. A72
	Whatley Eug L	R.L. Polk Co. Publishers	Image pg. A72
	Rice Myrtle M Mrs	R.L. Polk Co. Publishers	Image pg. A72
	Pepin Gerald T	R.L. Polk Co. Publishers	Image pg. A72
	Langmead Lester Mrs	R.L. Polk Co. Publishers	Image pg. A72
	Rosall Phyllis G Mrs	R.L. Polk Co. Publishers	Image pg. A72
	Shelton Jessie M Mrs	R.L. Polk Co. Publishers	Image pg. A72
1970	VALI LOA APARTMENTS AT	R.L. Polk Co Publishers	Image pg. A82
	KOHLER MEL AT	R.L. Polk Co Publishers	Image pg. A82
	COMSTOCK ELIZ E MRS AT	R.L. Polk Co Publishers	Image pg. A82
	RICE MYRTLE M MRS AT	R.L. Polk Co Publishers	Image pg. A82
	WHATLEY EUG L AT	R.L. Polk Co Publishers	Image pg. A82
	OENTON MORGAN	R.L. Polk Co Publishers	Image pg. A82
	ROSALLI P G	R.L. Polk Co Publishers	Image pg. A82
	SHELTON JESSIE M MRS AT	R.L. Polk Co Publishers	Image pg. A82
	PRIME JENNIE MRS AT	R.L. Polk Co Publishers	Image pg. A82
	GILMAN CAROLYN AT	R.L. Polk Co Publishers	Image pg. A82
	COOPER MARGT AT	R.L. Polk Co Publishers	Image pg. A82
	ADAMS MABEL M MRS AT	R.L. Polk Co Publishers	Image pg. A82
	CRAIG DONALD E AT	R.L. Polk Co Publishers	Image pg. A82
	1966	BOCKMAN PAUL A	R.L. Polk Co Publishers
MURRAY ALICE R MRS AT		R.L. Polk Co Publishers	Image pg. A96
ADAMS MABEL M MRS AT		R.L. Polk Co Publishers	Image pg. A96
CRAIG DONALD E AT		R.L. Polk Co Publishers	Image pg. A96
VALI LOA APARTMENTS AT		R.L. Polk Co Publishers	Image pg. A96
FITZGERALD MAE L AT		R.L. Polk Co Publishers	Image pg. A96
	KLOP BONNIE AT	R.L. Polk Co Publishers	Image pg. A96

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1966	WHATLEY EUG L AT	R.L. Polk Co Publishers	Image pg. A96
	FINKEL ANNER AT	R.L. Polk Co Publishers	Image pg. A96
	OLSEN GLEN S AT	R.L. Polk Co Publishers	Image pg. A96
	SHRAUNER JANET M AT	R.L. Polk Co Publishers	Image pg. A96
	SHELTON Jtc SSIE M MRS AT	R.L. Polk Co Publishers	Image pg. A96
	PRIME JENNIE MRS AT	R.L. Polk Co Publishers	Image pg. A96

### Valley St

#### 100 Valley St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2010	LELAND HARTWELL PHD	EDR Digital Archive
	AKO MARKETING	EDR Digital Archive
	SYMBIOTIC TRANSITIONS	EDR Digital Archive
	ELEVATED EXCURSIONS	EDR Digital Archive
	SCORCHING LOVE	EDR Digital Archive

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Apartments	Cole Information Services	Image pg. A5
	Christopher Caddy	Cole Information Services	Image pg. A5
	Jackson B Gates	Cole Information Services	Image pg. A5
	Sara Kermanshahi	Cole Information Services	Image pg. A5
	Elizabeth Mortimer	Cole Information Services	Image pg. A5
	Douglas Pressler	Cole Information Services	Image pg. A5
	Rachel Stewart	Cole Information Services	Image pg. A5
	Chdstopher Vonblaramberg	Cole Information Services	Image pg. A5
	Kenneth J Wagner	Cole Information Services	Image pg. A5
	no occupant	Cole Information Services	Image pg. A5
1996	Grandl Ron	R.L. Polk Co. Publishers	Image pg. A18
	Klnzle Danel J 4050 C 024 270 B	R.L. Polk Co. Publishers	Image pg. A18
	Mcinlosh J R	R.L. Polk Co. Publishers	Image pg. A18
	Molen M	R.L. Polk Co. Publishers	Image pg. A18
	Perry John A	R.L. Polk Co. Publishers	Image pg. A18
	Rudomnan L	R.L. Polk Co. Publishers	Image pg. A18
	Shaber Hugh	R.L. Polk Co. Publishers	Image pg. A18
	Starr Jason M	R.L. Polk Co. Publishers	Image pg. A18

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	Wagner Kennelth J	R.L. Polk Co. Publishers	Image pg. A18
	Cary Fprank 4050 C	R.L. Polk Co. Publishers	Image pg. A18
	Casper R G	R.L. Polk Co. Publishers	Image pg. A18
	Dodobara J	R.L. Polk Co. Publishers	Image pg. A18
	Gorges Carolle	R.L. Polk Co. Publishers	Image pg. A18
	Gorgas Dennis	R.L. Polk Co. Publishers	Image pg. A18
1990	Vali Hai Apartments	R.L. Polk Co. Publishers	Image pg. A29
	Krause G	R.L. Polk Co. Publishers	Image pg. A29
	Smith Robt	R.L. Polk Co. Publishers	Image pg. A29
	Woodcock Martin	R.L. Polk Co. Publishers	Image pg. A29
	Casper R G	R.L. Polk Co. Publishers	Image pg. A29
	Broz William R	R.L. Polk Co. Publishers	Image pg. A29
	Voss Michi	R.L. Polk Co. Publishers	Image pg. A29
	Miller Steven	R.L. Polk Co. Publishers	Image pg. A29
	Manararg	R.L. Polk Co. Publishers	Image pg. A29
	Morgenstern M	R.L. Polk Co. Publishers	Image pg. A29
	Wallace D Scott	R.L. Polk Co. Publishers	Image pg. A29
	Compinsky Gina M	R.L. Polk Co. Publishers	Image pg. A29
	Holbush Ted S	R.L. Polk Co. Publishers	Image pg. A29
	Jacobson Jeannette M	R.L. Polk Co. Publishers	Image pg. A29
	Wagner Kenneth J	R.L. Polk Co. Publishers	Image pg. A29
	Howell Donald	R.L. Polk Co. Publishers	Image pg. A29
Vacant	R.L. Polk Co. Publishers	Image pg. A29	
1986	Vali Hai Apartments	R.L. Polk Co. Publishers	Image pg. A44
	FOR OTHER OCCUp ANTS SEE	R.L. Polk Co. Publishers	Image pg. A44
	1ST AV N	R.L. Polk Co. Publishers	Image pg. A44
	Ediemiller	R.L. Polk Co. Publishers	Image pg. A44
	Smith Robt	R.L. Polk Co. Publishers	Image pg. A44
	Levene G	R.L. Polk Co. Publishers	Image pg. A44
	Casper R	R.L. Polk Co. Publishers	Image pg. A44
	Broz William R	R.L. Polk Co. Publishers	Image pg. A44
	Voss Michl	R.L. Polk Co. Publishers	Image pg. A44
	Sims S	R.L. Polk Co. Publishers	Image pg. A44
	Civitello Wm J	R.L. Polk Co. Publishers	Image pg. A44
	Eney W	R.L. Polk Co. Publishers	Image pg. A44
	Mafarlane Ross	R.L. Polk Co. Publishers	Image pg. A44
	Robinson Steven D	R.L. Polk Co. Publishers	Image pg. A44
Gillis L	R.L. Polk Co. Publishers	Image pg. A44	

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<u>Year</u>	<u>Uses</u>	<u>Source</u>		
1986	Mukhalian	R.L. Polk Co. Publishers	Image pg. A44	
	Wagner Kenneth J	R.L. Polk Co. Publishers	Image pg. A44	
	Vacant	R.L. Polk Co. Publishers	Image pg. A44	
	Hafey	R.L. Polk Co. Publishers	Image pg. A44	
1980	Wagner Kenneth J	R.L. Polk Co. Publishers	Image pg. A56	
	Meredith Calvin G	R.L. Polk Co. Publishers	Image pg. A56	
	Slakey	R.L. Polk Co. Publishers	Image pg. A56	
	STREET CONTINUED	R.L. Polk Co. Publishers	Image pg. A56	
	Vali Hai Apartment	R.L. Polk Co. Publishers	Image pg. A56	
	FOR OTHER OCCUPANTS SEE 800 1ST AV	R.L. Polk Co. Publishers	Image pg. A56	
	Shiveley Olsowaki	R.L. Polk Co. Publishers	Image pg. A56	
	Johnson	R.L. Polk Co. Publishers	Image pg. A56	
	Washburn J H	R.L. Polk Co. Publishers	Image pg. A56	
	Michelvitti	R.L. Polk Co. Publishers	Image pg. A56	
	Dayton Darlo D	R.L. Polk Co. Publishers	Image pg. A56	
	Fou Donald Jr	R.L. Polk Co. Publishers	Image pg. A56	
	Pastore	R.L. Polk Co. Publishers	Image pg. A56	
	Aldosaary Mohammed M	R.L. Polk Co. Publishers	Image pg. A56	
	Carter	R.L. Polk Co. Publishers	Image pg. A56	
	Neeham Robt	R.L. Polk Co. Publishers	Image pg. A56	
	Yamamoto Mayumi	R.L. Polk Co. Publishers	Image pg. A56	
	Bleck Sean R	R.L. Polk Co. Publishers	Image pg. A56	
	Needham	R.L. Polk Co. Publishers	Image pg. A56	
	1975	Vali Hai Apartments	R.L. Polk Co. Publishers	Image pg. A72
		FOR OTHER OCCUPANTS SEE 800 1ST AV	R.L. Polk Co. Publishers	Image pg. A72
		Estrin J	R.L. Polk Co. Publishers	Image pg. A72
		Robertson Harry C III	R.L. Polk Co. Publishers	Image pg. A72
Bernegau Herbert		R.L. Polk Co. Publishers	Image pg. A72	
Fogliano Andrew G		R.L. Polk Co. Publishers	Image pg. A72	
Hermsteen Robt H		R.L. Polk Co. Publishers	Image pg. A72	
Bench Harvey W		R.L. Polk Co. Publishers	Image pg. A72	
Hallman Genev		R.L. Polk Co. Publishers	Image pg. A72	
Boarke James J		R.L. Polk Co. Publishers	Image pg. A72	
Hammer Kernit W		R.L. Polk Co. Publishers	Image pg. A72	
Yosuda Joe		R.L. Polk Co. Publishers	Image pg. A72	
Butler Jack G		R.L. Polk Co. Publishers	Image pg. A72	
Vanaggelen John G		R.L. Polk Co. Publishers	Image pg. A72	

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<u>Year</u>	<u>Uses</u>	<u>Source</u>		
1975	Schlecht Susan K	R.L. Polk Co. Publishers	Image pg. A72	
	Wagner Kenneth J	R.L. Polk Co. Publishers	Image pg. A72	
	Sheffiler John F	R.L. Polk Co. Publishers	Image pg. A72	
	Amerson Herb	R.L. Polk Co. Publishers	Image pg. A72	
1970	VALI HAI APARTMENTS	R.L. Polk Co Publishers	Image pg. A82	
	NIX JOSEPH	R.L. Polk Co Publishers	Image pg. A82	
	VALLEAU VICTOR M SU	R.L. Polk Co Publishers	Image pg. A82	
	NAVARRO GEO C	R.L. Polk Co Publishers	Image pg. A82	
	CHAIGNEAU J CLAUDE	R.L. Polk Co Publishers	Image pg. A82	
	NO RETURN	R.L. Polk Co Publishers	Image pg. A82	
	CULLISON NED	R.L. Polk Co Publishers	Image pg. A82	
	HALLMAN BRUCE B	R.L. Polk Co Publishers	Image pg. A82	
	BLY WORTHINGTON	R.L. Polk Co Publishers	Image pg. A82	
	HAMMER KERMIT W AT	R.L. Polk Co Publishers	Image pg. A82	
	SANDSTROM MARILYN J AT	R.L. Polk Co Publishers	Image pg. A82	
	SORENSEN MARTIN B	R.L. Polk Co Publishers	Image pg. A82	
	HALETT ROST T	R.L. Polk Co Publishers	Image pg. A82	
	STANGLE DON	R.L. Polk Co Publishers	Image pg. A82	
	BRADY JOHN	R.L. Polk Co Publishers	Image pg. A82	
	MARTIN RICH D L	R.L. Polk Co Publishers	Image pg. A82	
	GLENN ELTON A	R.L. Polk Co Publishers	Image pg. A82	
	1966	VALI HAI APARTMENTS AT	R.L. Polk Co Publishers	Image pg. A96
		PERKINS BONNIE	R.L. Polk Co Publishers	Image pg. A96
		BLACKSTOCK CARL M AT	R.L. Polk Co Publishers	Image pg. A96
EMERY CINDY AT		R.L. Polk Co Publishers	Image pg. A96	
MC COULEY ZED AT		R.L. Polk Co Publishers	Image pg. A96	
IRONS DOROTHY		R.L. Polk Co Publishers	Image pg. A96	
ROBERT PAULA R		R.L. Polk Co Publishers	Image pg. A96	
LOGUE PATRICIA M AT		R.L. Polk Co Publishers	Image pg. A96	
HILL CARL P		R.L. Polk Co Publishers	Image pg. A96	
WHEATMAN HERBERT F AT		R.L. Polk Co Publishers	Image pg. A96	
SEITER MARY J AT		R.L. Polk Co Publishers	Image pg. A96	
RICHARDS PAUL A AT		R.L. Polk Co Publishers	Image pg. A96	
MINNICK KAY M AT		R.L. Polk Co Publishers	Image pg. A96	
SELLARS JANE		R.L. Polk Co Publishers	Image pg. A96	
NESS WALTER J H AT		R.L. Polk Co Publishers	Image pg. A96	
CHIAFALO PETER P AT		R.L. Polk Co Publishers	Image pg. A96	
ALSMEYER WM C AT	R.L. Polk Co Publishers	Image pg. A96		

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1990	Deberard M	R.L. Polk Co. Publishers	Image pg. A29
1986	Larson Donald L	R.L. Polk Co. Publishers	Image pg. A44
1980	Lee Arlene	R.L. Polk Co. Publishers	Image pg. A56
1975	Stol Lillian C Mrs	R.L. Polk Co. Publishers	Image pg. A72
1970	STOLZ LILLIAN C MRS	R.L. Polk Co Publishers	Image pg. A82
1966	STOLZ LILLIAN C MRS AT	R.L. Polk Co Publishers	Image pg. A96
1951	Tollaksen Gustav B	R.L. Polk Co Publishers	Image pg. A152

### VALLEY St

#### 101 VALLEY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Tollaksen Gustave	R. L. Polk & Co.	Image pg. A163

### VALLEY ST

#### 102 VALLEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Bell Betty R AL	R.L. Polk Co Publishers	Image pg. A152

### VALLEY St

#### 102 VALLEY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Macaulay Mlurlel M	R. L. Polk & Co.	Image pg. A163

### Valley St

#### 103 Valley St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2014	ALL SERVICES CONSTRUCTION INC	EDR Digital Archive	
2010	ALL SERVICES CONSTRUCTION INC	EDR Digital Archive	

### VALLEY ST

#### 103 VALLEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	A Cody M Enloe	Cole Information Services	Image pg. A5
	Sheila M Burns	Cole Information Services	Image pg. A5

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Aaron KVanderslice	Cole Information Services	Image pg. A5
	Apartments	Cole Information Services	Image pg. A5
1996	Enders Ericka	R.L. Polk Co. Publishers	Image pg. A18
	Forsland R	R.L. Polk Co. Publishers	Image pg. A18
	Ray S	R.L. Polk Co. Publishers	Image pg. A18
1990	No Return Vadset L	R.L. Polk Co. Publishers	Image pg. A29
1986	Pierson C L	R.L. Polk Co. Publishers	Image pg. A44
	Vadset L	R.L. Polk Co. Publishers	Image pg. A44
1980	Croft Raymond E	R.L. Polk Co. Publishers	Image pg. A56
	Fomess Elmer	R.L. Polk Co. Publishers	Image pg. A56
1975	Croft Raymond E	R.L. Polk Co. Publishers	Image pg. A72
	Porter Cath E	R.L. Polk Co. Publishers	Image pg. A72
1970	TYSZKA JUDITH MRS	R.L. Polk Co Publishers	Image pg. A82
1966	CELACURCID M	R.L. Polk Co Publishers	Image pg. A96
1951	Mc Leod E A B GA	R.L. Polk Co Publishers	Image pg. A152

### VALLEY St

#### 103 VALLEY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Inman Mary E Mrs	R. L. Polk & Co.	Image pg. A163

### Valley St

#### 105 Valley St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2010	JEFF SCOTT ARTIST	EDR Digital Archive	

### VALLEY ST

#### 105 VALLEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	no occupant	Cole Information Services	Image pg. A5
1996	Soot Je	R.L. Polk Co. Publishers	Image pg. A18
	Abeyta George	R.L. Polk Co. Publishers	Image pg. A18
1990	Vacant	R.L. Polk Co. Publishers	Image pg. A29
1986	Browin J S	R.L. Polk Co. Publishers	Image pg. A44
1980	Ryll M J	R.L. Polk Co. Publishers	Image pg. A56
1975	Hoffman Paula S Mrs	R.L. Polk Co. Publishers	Image pg. A72
1970	HOFFMAN PAULA S MRS S AT	R.L. Polk Co Publishers	Image pg. A82

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1966	HAFSMEN PAULA S MRS e AT	R.L. Polk Co Publishers	Image pg. A96
1951	Faigh M J B GA	R.L. Polk Co Publishers	Image pg. A152

### VALLEY St

#### 105 VALLEY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Manttas Clitas	R. L. Polk & Co.	Image pg. A163

### VALLEY ST

#### 106 VALLEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Hilditch R C AL	R.L. Polk Co Publishers	Image pg. A152

### VALLEY St

#### 106 VALLEY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	ti Pexton Fred A	R. L. Polk & Co.	Image pg. A163

### Valley St

#### 107 Valley St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2014	BLACK CREEK BOTANICALS	EDR Digital Archive	

### VALLEY ST

#### 107 VALLEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Wayne T Murphy	Cole Information Services	Image pg. A5
1990	Baar Jos B	R.L. Polk Co. Publishers	Image pg. A29
1986	Barr Joseph B	R.L. Polk Co. Publishers	Image pg. A44
1980	Barr Joseph B	R.L. Polk Co. Publishers	Image pg. A56
1975	Hrvatin Don F	R.L. Polk Co. Publishers	Image pg. A72
1970	HRVATIN DON F AT	R.L. Polk Co Publishers	Image pg. A82
1966	SCULLY DAN AT	R.L. Polk Co Publishers	Image pg. A96
1951	Pickrell C E B AL	R.L. Polk Co Publishers	Image pg. A152

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### VALLEY St

#### 107 VALLEY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Wells Laurence E	R. L. Polk & Co.	Image pg. A163

### VALLEY ST

#### 108 VALLEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1980	Goodin & Garvey Sub Ofc	R.L. Polk Co. Publishers	Image pg. A56

#### 109 VALLEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1980	Puget Sound Health Sys Agcy Research Section	R.L. Polk Co. Publishers R.L. Polk Co. Publishers	Image pg. A56 Image pg. A56

#### 111 VALLEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1980	Vacant	R.L. Polk Co. Publishers	Image pg. A56

#### 112 VALLEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Thomas Geo	R.L. Polk Co Publishers	Image pg. A152
	Thomas Genette Mrs	R.L. Polk Co Publishers	Image pg. A152
	Murphy Jack	R.L. Polk Co Publishers	Image pg. A152
	Lawson E L	R.L. Polk Co Publishers	Image pg. A152
	Belvedere Apartments	R.L. Polk Co Publishers	Image pg. A152
	Berg Suzzane Mrs	R.L. Polk Co Publishers	Image pg. A152
	Carter R R AL	R.L. Polk Co Publishers	Image pg. A152
	Dougherty Al	R.L. Polk Co Publishers	Image pg. A152
	Knupp Albert	R.L. Polk Co Publishers	Image pg. A152
	Donnelly Edw	R.L. Polk Co Publishers	Image pg. A152

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#### 112 VALLEY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Morton Htrold T mgr	R. L. Polk & Co.	Image pg. A163
	Belvedere Apartments	R. L. Polk & Co.	Image pg. A163

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### VALLEY ST

#### 115 VALLEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Finley Patricia GA	R.L. Polk Co Publishers	Image pg. A152
	Smith Mary Ella GA	R.L. Polk Co Publishers	Image pg. A152

#### 119 VALLEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Apartments	Cole Information Services	Image pg. A5
	Jayson Cottam	Cole Information Services	Image pg. A5
	+ Karen Gruber	Cole Information Services	Image pg. A5
	Hollie L Jacobs	Cole Information Services	Image pg. A5
	Stephen K.Jesionowski	Cole Information Services	Image pg. A5
	Lynn Milligan	Cole Information Services	Image pg. A5
	Kathleen A Minnis	Cole Information Services	Image pg. A5
	James Montgomery	Cole Information Services	Image pg. A5
	Johanna M Rogozensoltar	Cole Information Services	Image pg. A5
1996	Berkenpas	R.L. Polk Co. Publishers	Image pg. A18
	Butz Lofiann	R.L. Polk Co. Publishers	Image pg. A18
	Durgin Arthur	R.L. Polk Co. Publishers	Image pg. A18
	Frost Scott	R.L. Polk Co. Publishers	Image pg. A18
	Fro M Stephen	R.L. Polk Co. Publishers	Image pg. A18
	Mo Kinney Catherine L	R.L. Polk Co. Publishers	Image pg. A18
	Pennington P B	R.L. Polk Co. Publishers	Image pg. A18
	Salisbury J	R.L. Polk Co. Publishers	Image pg. A18
	Tapper W	R.L. Polk Co. Publishers	Image pg. A18
1990	Kingston Apartments	R.L. Polk Co. Publishers	Image pg. A29
	Kroweakowski Alex	R.L. Polk Co. Publishers	Image pg. A29
	Pimental David T	R.L. Polk Co. Publishers	Image pg. A29
	Davis Jeff	R.L. Polk Co. Publishers	Image pg. A29
	Dunn Thos R	R.L. Polk Co. Publishers	Image pg. A29
	Paxton J	R.L. Polk Co. Publishers	Image pg. A29
	Vacant	R.L. Polk Co. Publishers	Image pg. A29
	Jacobson John	R.L. Polk Co. Publishers	Image pg. A29
	Vacant	R.L. Polk Co. Publishers	Image pg. A29
	Goolsby John P	R.L. Polk Co. Publishers	Image pg. A29
1986	Kingston Apartments	R.L. Polk Co. Publishers	Image pg. A44
	Loucks Quinn	R.L. Polk Co. Publishers	Image pg. A44
	Vacant	R.L. Polk Co. Publishers	Image pg. A44

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1986	Kiplinger	R.L. Polk Co. Publishers	Image pg. A44
	Johnson Audrey L	R.L. Polk Co. Publishers	Image pg. A44
	Paxton	R.L. Polk Co. Publishers	Image pg. A44
	Vacant	R.L. Polk Co. Publishers	Image pg. A44
	Jacobson John	R.L. Polk Co. Publishers	Image pg. A44
	Buttcane	R.L. Polk Co. Publishers	Image pg. A44
	Goolsby John P	R.L. Polk Co. Publishers	Image pg. A44
1980	Kingston Apartments	R.L. Polk Co. Publishers	Image pg. A56
	IWinters A	R.L. Polk Co. Publishers	Image pg. A56
	Andris Liz	R.L. Polk Co. Publishers	Image pg. A56
	Carson	R.L. Polk Co. Publishers	Image pg. A56
	Tabery Fredk W	R.L. Polk Co. Publishers	Image pg. A56
	Anacker	R.L. Polk Co. Publishers	Image pg. A56
	Owens N	R.L. Polk Co. Publishers	Image pg. A56
	Jacobson John J	R.L. Polk Co. Publishers	Image pg. A56
	Tipton Mani	R.L. Polk Co. Publishers	Image pg. A56
Mc Namara Robt T	R.L. Polk Co. Publishers	Image pg. A56	
1975	Jacobson John J	R.L. Polk Co. Publishers	Image pg. A72
	Jarrett David C	R.L. Polk Co. Publishers	Image pg. A72
	Brahinsky R	R.L. Polk Co. Publishers	Image pg. A72
	Kingston Apartments	R.L. Polk Co. Publishers	Image pg. A72
	Zsel Jackson	R.L. Polk Co. Publishers	Image pg. A72
	Powell Dan D	R.L. Polk Co. Publishers	Image pg. A72
	Haltin J	R.L. Polk Co. Publishers	Image pg. A72
	Kitts Jeff	R.L. Polk Co. Publishers	Image pg. A72
1970	Mc Gary J	R.L. Polk Co. Publishers	Image pg. A72
	Smedley Grace A	R.L. Polk Co. Publishers	Image pg. A72
	KINGSTON APARTMENTS	R.L. Polk Co Publishers	Image pg. A82
	LINK DONALD D	R.L. Polk Co Publishers	Image pg. A82
	WALKER JOHN	R.L. Polk Co Publishers	Image pg. A82
	BUTLER JOHN G AT	R.L. Polk Co Publishers	Image pg. A82
1966	VACANT	R.L. Polk Co Publishers	Image pg. A82
	OHNO YUKI	R.L. Polk Co Publishers	Image pg. A82
	ALEXANDER ALF C J AT	R.L. Polk Co Publishers	Image pg. A82
	ANDREWS JAMES L	R.L. Polk Co Publishers	Image pg. A82
	WEGG STEPH AT	R.L. Polk Co Publishers	Image pg. A82
	WALSH PHILLIP AT	R.L. Polk Co Publishers	Image pg. A82
	VACANT	R.L. Polk Co Publishers	Image pg. A96

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1966	KINGSTON APARTMENTS	R.L. Polk Co Publishers	Image pg. A96
	COOK WM AT	R.L. Polk Co Publishers	Image pg. A96
	SHEETS CECELIA A AT	R.L. Polk Co Publishers	Image pg. A96
	VACANT	R.L. Polk Co Publishers	Image pg. A96
	CHANDLER MARGT AT	R.L. Polk Co Publishers	Image pg. A96
	CORNIA PETER W AT 3 b	R.L. Polk Co Publishers	Image pg. A96
	PETERSON MARGIE	R.L. Polk Co Publishers	Image pg. A96
	BROWN DAVID 8 JR AT	R.L. Polk Co Publishers	Image pg. A96
	MEACHAM LARNED G AT	R.L. Polk Co Publishers	Image pg. A96

### 121 VALLEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1980	Northwest Plan Center	R.L. Polk Co. Publishers	Image pg. A56
	:1 Contractors Daily publ	R.L. Polk Co. Publishers	Image pg. A56
	Data & Stuff Service Co dati processing	R.L. Polk Co. Publishers	Image pg. A56

### 123 VALLEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1980	:3 Pac N W Bell Installation Training Hse	R.L. Polk Co. Publishers	Image pg. A56

### 125 VALLEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Allen Johnson	Cole Information Services	Image pg. A5
1990	Federman D	R.L. Polk Co. Publishers	Image pg. A29
1986	Leedy A	R.L. Polk Co. Publishers	Image pg. A44
1980	Berry Ken	R.L. Polk Co. Publishers	Image pg. A56
1975	Crockett Larry D	R.L. Polk Co. Publishers	Image pg. A72
1970	HOLM GEOFFREY AT	R.L. Polk Co Publishers	Image pg. A82
1966	LIVINGSTON JOHN F AT	R.L. Polk Co Publishers	Image pg. A96

### 127 VALLEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	no occupant	Cole Information Services	Image pg. A5
1990	Mc Gloin M	R.L. Polk Co. Publishers	Image pg. A29
1986	Wilson Cynthia J	R.L. Polk Co. Publishers	Image pg. A44

## FINDINGS

### **VALLEY TFL GARIELD 9812 St**

#### **16 VALLEY TFL GARIELD 9812 St**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	NABP AVBMTY A V Pres Xgr Seeley & h	R.L. Polk Co Publishers R.L. Polk Co Publishers

### **W 1ST AVE**

#### **526 W 1ST AVE**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Gray & Williams Inc	Cole Information Services	Image pg. A6

#### **528 W 1ST AVE**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1975	American National Insurance Co	R.L. Polk Co. Publishers	Image pg. A73

#### **529 W 1ST AVE**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1990	Ozzies Restr Side Entrance	R.L. Polk Co. Publishers	Image pg. A33
1986	Ozzies Restr Side Entrance	R.L. Polk Co. Publishers	Image pg. A45
1980	Ozzies Restr Side Entrance	R.L. Polk Co. Publishers	Image pg. A57
1975	Ozzies Restr Stge	R.L. Polk Co. Publishers	Image pg. A73

#### **531 W 1ST AVE**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Art For Advertising	Cole Information Services	Image pg. A6
	Woodland Realty Serv Ices Inc	Cole Information Services	Image pg. A6
1996	ART FO ADVERTISING	R.L. Polk Co. Publishers	Image pg. A19
	Sewe N Rihard	R.L. Polk Co. Publishers	Image pg. A19
1990	Sewei Richard comi artist	R.L. Polk Co. Publishers	Image pg. A33
1986	Gon See Travel travel agcy	R.L. Polk Co. Publishers	Image pg. A45
1980	A & A Instant Print	R.L. Polk Co. Publishers	Image pg. A57
1975	Vacant	R.L. Polk Co. Publishers	Image pg. A73

#### **533 W 1ST AVE**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Diamond Nails &Waxing	Cole Information Services	Image pg. A6
1996	RYAN GUSTASON	R.L. Polk Co. Publishers	Image pg. A19
	SALON	R.L. Polk Co. Publishers	Image pg. A19
	GREGORY WAGNER HAIR	R.L. Polk Co. Publishers	Image pg. A19

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1990	Roberts Thomas G dentist	R.L. Polk Co. Publishers	Image pg. A33
1986	Roberts Thomas G dentist	R.L. Polk Co. Publishers	Image pg. A45
1980	Elburn M Kenneth dentist	R.L. Polk Co. Publishers	Image pg. A57
1975	Elburn Maynard K dentist	R.L. Polk Co. Publishers	Image pg. A73
1970	ELBURN MAYNARD K DENTIST AT	R.L. Polk Co Publishers	Image pg. A83

### 535 W 1ST AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	CHR 1ST	R.L. Polk Co. Publishers	Image pg. A19
	SEVENTH CHURCH OF	R.L. Polk Co. Publishers	Image pg. A19
1990	Christian Science Reading Room	R.L. Polk Co. Publishers	Image pg. A33
1986	Cascade Lithograph Co	R.L. Polk Co. Publishers	Image pg. A45
1980	Queen Anne Carpets	R.L. Polk Co. Publishers	Image pg. A57
1975	Uncle Als Plantation plants	R.L. Polk Co. Publishers	Image pg. A73
1970	ADEL DIVISION GENERAL	R.L. Polk Co Publishers	Image pg. A83
	METALS INC AIRCRAFT ACCESS & PARTS WHOL AT	R.L. Polk Co Publishers	Image pg. A83
	DE LAVAL TURBINE INC PUMP MFGS AT	R.L. Polk Co Publishers	Image pg. A83

### 538 W 1ST AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Sluggers Sports Bar	Cole Information Services	Image pg. A6

### 587 W 1ST AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1980	L	R.L. Polk Co. Publishers	Image pg. A58

### W Aloha St

#### 8 W Aloha St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2010	MIGHTYS GIRLS CLEANING & JANI	EDR Digital Archive	

#### 11 W Aloha St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2014	BAYVIEW MANOR FOUNDATION	EDR Digital Archive	
	BAYVIEW MANOR HOMES	EDR Digital Archive	
2010	BAYVIEW MANOR HOMES	EDR Digital Archive	
	AUTOS LTD	EDR Digital Archive	
	BAYVIEW MANOR FOUNDATION	EDR Digital Archive	

## FINDINGS

### W MERCER

#### 115 W MERCER

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	BURNS Saml A Rev Ella L pastor Hazel Mission h	R.L. Polk Co Publishers

#### 117 W MERCER

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	SHERMAN Jno W Kath S h	R.L. Polk Co Publishers

### W Mercer apt 102

#### 1 W Mercer apt 102

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	BROWN Sylvia E wid Kar	R.L. Polk Co Publishers

### W Mercer apt 301

#### 1 W Mercer apt 301

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Chesterfield Dare Mrs sec treas Peer	R.L. Polk Co Publishers

### W MERCER H 119 St

#### 10 W MERCER H 119 St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	MUNSON Magnus A Edna auto repr	R.L. Polk Co Publishers

### W MERCER H St

#### 101 W MERCER H St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	Eardley Chas Mary gro	R.L. Polk Co Publishers

### W MERCER ST

#### 2 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1955	d av W intersects	R.L. Polk Co Publishers

Image pg. A139

## FINDINGS

### 3 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	d av W intersects	R.L. Polk Co Publishers	Image pg. A139

### 4 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1980	Abbott David	R.L. Polk Co. Publishers	Image pg. A59
	Ronnie Kathleen Mrs	R.L. Polk Co. Publishers	Image pg. A59
	Hamilton S Murray	R.L. Polk Co. Publishers	Image pg. A59
	Ness Grace K	R.L. Polk Co. Publishers	Image pg. A59
	Han	R.L. Polk Co. Publishers	Image pg. A59
	Peters Ralph W	R.L. Polk Co. Publishers	Image pg. A59
	Sims Jayne	R.L. Polk Co. Publishers	Image pg. A59
	Coss Carol L	R.L. Polk Co. Publishers	Image pg. A59
	Strdting Edw R	R.L. Polk Co. Publishers	Image pg. A59
	Vacanta	R.L. Polk Co. Publishers	Image pg. A59
	Willianis Gary	R.L. Polk Co. Publishers	Image pg. A59
	Eberlv Meredith	R.L. Polk Co. Publishers	Image pg. A59
	:102 Vulpes Carl F	R.L. Polk Co. Publishers	Image pg. A59
	Printz 1 V	R.L. Polk Co. Publishers	Image pg. A59
	Trimble Harry	R.L. Polk Co. Publishers	Image pg. A59
	Counts Margt L	R.L. Polk Co. Publishers	Image pg. A59
	Hawken Lillian M	R.L. Polk Co. Publishers	Image pg. A59
	Dalbec Dorothy R	R.L. Polk Co. Publishers	Image pg. A59
	Sheldon John	R.L. Polk Co. Publishers	Image pg. A59
	Hepler Ten	R.L. Polk Co. Publishers	Image pg. A59
	Hussey Wm H	R.L. Polk Co. Publishers	Image pg. A59
	Darling Gloria	R.L. Polk Co. Publishers	Image pg. A59
	Kowalski Richd	R.L. Polk Co. Publishers	Image pg. A59
	Benedict Jack A	R.L. Polk Co. Publishers	Image pg. A59
	Wood Eliz	R.L. Polk Co. Publishers	Image pg. A59
	Diebert Marc	R.L. Polk Co. Publishers	Image pg. A59
	Yetter Robt L	R.L. Polk Co. Publishers	Image pg. A59
	Feldntan Morris	R.L. Polk Co. Publishers	Image pg. A59
	Kozen B K	R.L. Polk Co. Publishers	Image pg. A59
1955	th av W intersects	R.L. Polk Co Publishers	Image pg. A139

### 5 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	th av W Intersects	R.L. Polk Co Publishers	Image pg. A139

## FINDINGS

### 6 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	STARR CHIROPRACTIC CTR	R.L. Polk Co. Publishers	Image pg. A20
	Srtender John C	R.L. Polk Co. Publishers	Image pg. A21
	Ste Nao M E	R.L. Polk Co. Publishers	Image pg. A21
	Sister Robed W 3973 C	R.L. Polk Co. Publishers	Image pg. A21
	Richmond M	R.L. Polk Co. Publishers	Image pg. A21
	Reed M A 3 8 3973 C	R.L. Polk Co. Publishers	Image pg. A21
	Prootor Peter	R.L. Polk Co. Publishers	Image pg. A21
	Proctor Jnoy	R.L. Polk Co. Publishers	Image pg. A21
	Palerson H R	R.L. Polk Co. Publishers	Image pg. A21
	Modenso E S	R.L. Polk Co. Publishers	Image pg. A21
	Mign Kenneth F	R.L. Polk Co. Publishers	Image pg. A21
	Mo Nally Thames J	R.L. Polk Co. Publishers	Image pg. A21
	Larson V E	R.L. Polk Co. Publishers	Image pg. A21
	Korry B V	R.L. Polk Co. Publishers	Image pg. A21
	ch rs Jun	R.L. Polk Co. Publishers	Image pg. A21
	Hemiac Aus en 0 3973 COI 2 B	R.L. Polk Co. Publishers	Image pg. A21
	Hagiand	R.L. Polk Co. Publishers	Image pg. A21
	Geach Bill 3973 C	R.L. Polk Co. Publishers	Image pg. A21
	Boawell Waren El n Jae H 3973 C	R.L. Polk Co. Publishers	Image pg. A21
	Watson Wd 19m R Waene Nich I 373 COII	R.L. Polk Co. Publishers	Image pg. A21
	Slatery Mark J	R.L. Polk Co. Publishers	Image pg. A20
	c M 0 Bicker M 3973 C	R.L. Polk Co. Publishers	Image pg. A21

### W Mercer St

#### 8 W Mercer St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	THAN BROTHERS	EDR Digital Archive

### W MERCER ST

#### 8 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1990	Starr Chiropractic Center	R.L. Polk Co. Publishers	Image pg. A34
1986	Starr Chiropractic Center	R.L. Polk Co. Publishers	Image pg. A46
1980	Interstate Construction Co Lead Company Inc land development	R.L. Polk Co. Publishers	Image pg. A59
	Compounded Investments Co	R.L. Polk Co. Publishers	Image pg. A59

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1980	Mutual Of Seattle Inc real eat	R.L. Polk Co. Publishers	Image pg. A59
1975	Mutual Of Seattle Inc real eat	R.L. Polk Co. Publishers	Image pg. A74
1970	VACANT	R.L. Polk Co Publishers	Image pg. A84
1960	Acme Clns dlo cins A AT	R.L. Polk Co Publishers	Image pg. A109
1955	Acme Cins	R.L. Polk Co Publishers	Image pg. A139

### W Mercer St

#### 10 W Mercer St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	SCISSORS PALACE	EDR Digital Archive
2010	SCISSORS PALACE	EDR Digital Archive

### W MERCER ST

#### 10 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Scissors Palace	Cole Information Services	Image pg. A7
1996	SCISSORS PALACE	R.L. Polk Co. Publishers	Image pg. A20
1990	Tony & Lous Scissors Palace barber shop	R.L. Polk Co. Publishers	Image pg. A34
1986	Tony & Lous Scissors Palace barber shop	R.L. Polk Co. Publishers	Image pg. A46
1980	Tony & Lous Sc Psor alace	R.L. Polk Co. Publishers	Image pg. A59
1975	Fred & Lorls Barber Shop	R.L. Polk Co. Publishers	Image pg. A74
1970	VACANT	R.L. Polk Co Publishers	Image pg. A84
1966	ED & LOUIS BARBER SHOP AT	R.L. Polk Co Publishers	Image pg. A97
1960	Butrt & Louis Barber Shop A AT	R.L. Polk Co Publishers	Image pg. A109
1955	Bert and Lou Barber Shop	R.L. Polk Co Publishers	Image pg. A139
1944	Munson M A auto repr	R. L. Polk & Co.	Image pg. A164

#### 15 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	No return	R.L. Polk Co Publishers	Image pg. A139
1944	Hellman Wm B	R. L. Polk & Co.	Image pg. A164

#### 16 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1975	Mercer Street Mobil	R.L. Polk Co. Publishers	Image pg. A74
1970	MERCER MOBIL STATION AT	R.L. Polk Co Publishers	Image pg. A84
1966	VACANT	R.L. Polk Co Publishers	Image pg. A97
1960	Sbona Sal Serv gas sta A AT	R.L. Polk Co Publishers	Image pg. A109

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Gregorys Mobil Service	R.L. Polk Co Publishers	Image pg. A139
1944	Nilsen P G	R. L. Polk & Co.	Image pg. A164
	Keech Margt E	R. L. Polk & Co.	Image pg. A164
	Evans Evelyn J	R. L. Polk & Co.	Image pg. A164

### W Mercer St

#### 17 W Mercer St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	4MF LLC	EDR Digital Archive
	INFORMATION TECH ASSOC LLC	EDR Digital Archive
2010	INFORMATION TECH ASSOC LLC	EDR Digital Archive
	4MF LLC	EDR Digital Archive
	CELEBRATE FRANCE	EDR Digital Archive
	BUZZ BUILDERS CORP	EDR Digital Archive

### W MERCER ST

#### 17 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Richard CMarkus	Cole Information Services	Image pg. A7
	Christine A Mc Kinley	Cole Information Services	Image pg. A7
	Kathryn AMc Millan	Cole Information Services	Image pg. A7
	Glenn J Minnlck	Cole Information Services	Image pg. A7
	Andrew DMitchell	Cole Information Services	Image pg. A7
	TH 7 John R Portillo	Cole Information Services	Image pg. A7
	Toni Rallis	Cole Information Services	Image pg. A7
	Brian E Rlchardson	Cole Information Services	Image pg. A7
	Klm ERushing	Cole Information Services	Image pg. A7
	Brenda Senderofft	Cole Information Services	Image pg. A7
	Erica P Thomas	Cole Information Services	Image pg. A7
	Michael Thomas	Cole Information Services	Image pg. A7
	Tricla M Trias	Cole Information Services	Image pg. A7
	Willem DVanhamersfold	Cole Information Services	Image pg. A7
	Paulette J Vasconcellos	Cole Information Services	Image pg. A7
	Todd Vasconcellos	Cole Information Services	Image pg. A7
	Mimi Welch	Cole Information Services	Image pg. A7
	Daniel J Winters	Cole Information Services	Image pg. A7
	Megan Yelle	Cole Information Services	Image pg. A7

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Anja LZieglNr	Cole Information Services	Image pg. A7
	building	Cole Information Services	Image pg. A7
	Cassandra HAbero	Cole Information Services	Image pg. A7
	Rick Bowles	Cole Information Services	Image pg. A7
	Chad C Cagnolattl	Cole Information Services	Image pg. A7
	Janlce Cagnolattt	Cole Information Services	Image pg. A7
	Emily S Cannizzaro	Cole Information Services	Image pg. A7
	Adrian R Castillo	Cole Information Services	Image pg. A7
	Anthony RChavez	Cole Information Services	Image pg. A7
	Janet DCheng	Cole Information Services	Image pg. A7
	Kevin Chu	Cole Information Services	Image pg. A7
	Merry OCleary	Cole Information Services	Image pg. A7
	Peggy Sue Darrow	Cole Information Services	Image pg. A7
	Jennifer CDatlik	Cole Information Services	Image pg. A7
	James R Gilbert	Cole Information Services	Image pg. A7
	Peter Samuel Gorgone	Cole Information Services	Image pg. A7
	Jeffrey WHafey	Cole Information Services	Image pg. A7
	Domlnlc AHainje	Cole Information Services	Image pg. A7
	Sandra Haynes	Cole Information Services	Image pg. A7
	Daniel LHughes O	Cole Information Services	Image pg. A7
	IN Architects	Cole Information Services	Image pg. A7
	Kirk Alan Jones	Cole Information Services	Image pg. A7
	Krissa Jones	Cole Information Services	Image pg. A7
	Carol J Kross	Cole Information Services	Image pg. A7
	James William Kross	Cole Information Services	Image pg. A7
	ULnda Ueberman	Cole Information Services	Image pg. A7
	Todd K Liebermaen	Cole Information Services	Image pg. A7
Heather ELoman	Cole Information Services	Image pg. A7	
Tracey Luong	Cole Information Services	Image pg. A7	
William M Macvicar	Cole Information Services	Image pg. A7	
Reld B Maker	Cole Information Services	Image pg. A7	
1955	Vacant	R.L. Polk Co Publishers	Image pg. A139
1944	Rllch John M dentist	R. L. Polk & Co.	Image pg. A164

### W Mercer St

#### 18 W Mercer St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	SHOE FITTERS	EDR Digital Archive

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	NATIONAL CBLE CMMNICATIONS LLC	EDR Digital Archive
	CLAIRE CORDON PLLC	EDR Digital Archive
	SCHWERN CMPBLL BRNRD IGLTZN &	EDR Digital Archive
	CHAPMAN CURT L	EDR Digital Archive
	SEATTLE WHEELCHAIR RUGBY	EDR Digital Archive
	COMCAST SPOTLIGHT INC	EDR Digital Archive
	ONENAME CORPORATION	EDR Digital Archive
2010	ONENAME CORPORATION	EDR Digital Archive
	DB WHITLOCK & CO LLC	EDR Digital Archive
	COMCAST SPOTLIGHT INC	EDR Digital Archive
	SCHWERN CMPBLL BRNRD IGLTZN &	EDR Digital Archive
	CHAPMAN CURT L	EDR Digital Archive
	CLAIRE CORDON PLLC	EDR Digital Archive
	JENNIFER SIZEMORE	EDR Digital Archive
CARYL MICHAEL R P S	EDR Digital Archive	

### W MERCER ST

#### 18 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Golden Fleece Joint Venture	Cole Information Services	Image pg. A7
	Dmltrl Iglitzln Atty	Cole Information Services	Image pg. A7
	Comcast Advertlsing Sales	Cole Information Services	Image pg. A7
	building	Cole Information Services	Image pg. A7
	George C Kosmos	Cole Information Services	Image pg. A7
	Lelgh Stowell Co	Cole Information Services	Image pg. A7
	Vickl Mullet	Cole Information Services	Image pg. A7
	National Cable Communications	Cole Information Services	Image pg. A7
	Prime Sports Network	Cole Information Services	Image pg. A7
1996	USPAN	R.L. Polk Co. Publishers	Image pg. A20
	FACTORf Y TRAWLER	R.L. Polk Co. Publishers	Image pg. A20
	SUPPLY	R.L. Polk Co. Publishers	Image pg. A20
	GOLDEN AGE FISHERIES	R.L. Polk Co. Publishers	Image pg. A20
	MEDIA LINK	R.L. Polk Co. Publishers	Image pg. A20
	TECHNOLOGIES	R.L. Polk Co. Publishers	Image pg. A20
	NORTHWEST CABLE	R.L. Polk Co. Publishers	Image pg. A20
	ADVERTISING 3965 C 021 286 I	R.L. Polk Co. Publishers	Image pg. A20
	PRIME SPORTS	R.L. Polk Co. Publishers	Image pg. A20
NETWORK	R.L. Polk Co. Publishers	Image pg. A20	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	SEAFOOD TECHNOLOGY	R.L. Polk Co. Publishers	Image pg. A20
	TRAINING	R.L. Polk Co. Publishers	Image pg. A20
1990	Tanner Mary E	R.L. Polk Co. Publishers	Image pg. A34
	Northwest Cable Advertising	R.L. Polk Co. Publishers	Image pg. A34
1986	Generra Sportswear sportswear whol	R.L. Polk Co. Publishers	Image pg. A46
1935	HEALY Mary Mrs r	R.L. Polk Co Publishers	

### W Mercer St

#### 21 W Mercer St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	ACE LOCKOUTS	EDR Digital Archive
	GREAT CLIPS	EDR Digital Archive
2010	GREAT CLIPS	EDR Digital Archive

### W MERCER ST

#### 21 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Great Clps	Cole Information Services	Image pg. A7

#### 24 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Jarrett Freemont	R. L. Polk & Co.	Image pg. A164

### W Mercer St

#### 29 W Mercer St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2010	TACO DEL MAR	EDR Digital Archive

#### 100 W Mercer St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	BANK AMERICA NATIONAL ASSN	EDR Digital Archive
2010	BANK AMERICA NATIONAL ASSN	EDR Digital Archive

### W MERCER ST

#### 100 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	SEAPIRST BANK	R.L. Polk Co. Publishers	Image pg. A20

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1990	Security Pacific Bank Washington	R.L. Polk Co. Publishers	Image pg. A34
1986	Group W Cable	R.L. Polk Co. Publishers	Image pg. A46
	1ST AV W INTERSECTS	R.L. Polk Co. Publishers	Image pg. A46
	Rainier National Bank	R.L. Polk Co. Publishers	Image pg. A46
1980	Rainier National Bank queen anne oft	R.L. Polk Co. Publishers	Image pg. A59
1975	Rainier National Bank queen anne ofc	R.L. Polk Co. Publishers	Image pg. A74
1970	NATIONAL BANK OF COMMERCE	R.L. Polk Co Publishers	Image pg. A84
	OF SEATTLE QUEEN ANNE OFC	R.L. Polk Co Publishers	Image pg. A84
1966	NATIONAL BANK OF COMMERCE QUEEN ANNE OFC M	R.L. Polk Co Publishers	Image pg. A97
1960	Natl Baiik of Commerce	R.L. Polk Co Publishers	Image pg. A109
	of Seattle Queen Anne Brl A M	R.L. Polk Co Publishers	Image pg. A109

### 101 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Harolds One O One Cafe A AT	R.L. Polk Co Publishers	Image pg. A109
1955	One O One Beverage & Deli	R.L. Polk Co Publishers	Image pg. A139
	catessen	R.L. Polk Co Publishers	Image pg. A139

### 102 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Galliven Margt W Mrs	R.L. Polk Co Publishers	Image pg. A139

### 103 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	State Liquor Control Bd Store	R.L. Polk Co Publishers	Image pg. A139
1935	Iverson Mildred E stdt r	R.L. Polk Co Publishers	

### W Mercer St

#### 105 W Mercer St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2014	HOLLIDAY INC	EDR Digital Archive	
2010	HOLLIDAY INC	EDR Digital Archive	

### W MERCER ST

#### 105 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Building	Cole Information Services	Image pg. A7
	Mirror Stage Co	Cole Information Services	Image pg. A7

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Ozzies Restaurant	Cole Information Services	Image pg. A7
1996	OZZIES DINER	R.L. Polk Co. Publishers	Image pg. A20
1990	Ozzies Restaurant	R.L. Polk Co. Publishers	Image pg. A34
1986	Ozzies Restaurant	R.L. Polk Co. Publishers	Image pg. A46
1980	Ozzien Restaurant	R.L. Polk Co. Publishers	Image pg. A59
1975	Ozzies Restaurant	R.L. Polk Co. Publishers	Image pg. A74
1970	OZZIES CAFE RESTR AT	R.L. Polk Co Publishers	Image pg. A84
1966	OZZIES CAFE RESTR AT	R.L. Polk Co Publishers	Image pg. A97
1960	Ozzies Cafe A AT	R.L. Polk Co Publishers	Image pg. A109

### 107 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Slce Delivery Co The vending	R.L. Polk Co Publishers	Image pg. A109
1955	Ice Delivery Co The vending	R.L. Polk Co Publishers	Image pg. A139

### 108 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Sutherland Birdie E Mrs	R.L. Polk Co Publishers	Image pg. A139
	furn rms A	R.L. Polk Co Publishers	Image pg. A139
1944	Callahan Michl D	R. L. Polk & Co.	Image pg. A164

### W Mercer St

#### 109 W Mercer St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	EAC SAFARIS	EDR Digital Archive
	WASHINGTON STATE JAYCEES	EDR Digital Archive
	ALPINE ASCENTS INTERNATIONAL	EDR Digital Archive
2010	SEATTLE JNIOR CHAMBER COMMERCE	EDR Digital Archive
	EAC SAFARIS	EDR Digital Archive
	106 WEST MERCER LLC	EDR Digital Archive
	ALPINE ASCENTS INTERNATIONAL	EDR Digital Archive
	KENYA KIDS AIDS PROJECTS	EDR Digital Archive
	WASHINGTON STATE JAYCEES	EDR Digital Archive

## FINDINGS

### W MERCER ST

#### 109 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>		
2005	Dream On Foundation	Cole Information Services	Image pg. A7	
	Seattle Jaycees	Cole Information Services	Image pg. A7	
1996	SEATTLE JAYCEES	R.L. Polk Co. Publishers	Image pg. A20	
1990	Seattle Jaycees young peoples org	R.L. Polk Co. Publishers	Image pg. A34	
1986	Alaska Construction & Oil publisher	R.L. Polk Co. Publishers	Image pg. A46	
	Alaska From The Inside publ	R.L. Polk Co. Publishers	Image pg. A46	
	Nurse Practitioner Magazine The magazine	R.L. Polk Co. Publishers	Image pg. A46	
	Northwest Construction News publ	R.L. Polk Co. Publishers	Image pg. A46	
	Pacific Banker & Business magazine	R.L. Polk Co. Publishers	Image pg. A46	
	Pacific Builder & Engineer magazine	R.L. Polk Co. Publishers	Image pg. A46	
	Vemon Publications Inc	R.L. Polk Co. Publishers	Image pg. A46	
	Seattle Business Magazine Publ	R.L. Polk Co. Publishers	Image pg. A46	
	1980	Washington Purchaser business publ	R.L. Polk Co. Publishers	Image pg. A59
		Vernon Publications Inc	R.L. Polk Co. Publishers	Image pg. A59
		Pacific Builder & Engineer geni contr	R.L. Polk Co. Publishers	Image pg. A59
		Pacific Banker & Business magazine	R.L. Polk Co. Publishers	Image pg. A59
		Northwest Construction News pu 0bl	R.L. Polk Co. Publishers	Image pg. A59
		Alaska Construction & Oil mnmiuantile reports	R.L. Polk Co. Publishers	Image pg. A59
Alaska From Tlte Inside publ		R.L. Polk Co. Publishers	Image pg. A59	
Golden West Purchiasen publ		R.L. Polk Co. Publishers	Image pg. A59	
1975		Alaska Construction & Oil Report mercantile reports	R.L. Polk Co. Publishers	Image pg. A74
		Publishers Professional Services magazine publ	R.L. Polk Co. Publishers	Image pg. A74
	Alaska From The azids busines magazine	R.L. Polk Co. Publishers	Image pg. A74	
	Northwest Construction News ptxbl	R.L. Polk Co. Publishers	Image pg. A74	
	Pacific Builder & Engineer	R.L. Polk Co. Publishers	Image pg. A74	
	Washington Purchaser publ	R.L. Polk Co. Publishers	Image pg. A74	
	1970	VACANT	R.L. Polk Co Publishers	Image pg. A84
	1966	UNIVERSAL SERVICES INC CATERERS AT	R.L. Polk Co Publishers	Image pg. A97
1960	Universal Services Inc cater trs A AT	R.L. Polk Co Publishers	Image pg. A109	
1955	H & G Co Inc caterers	R.L. Polk Co Publishers	Image pg. A139	
	Universal Services Inc caterers	R.L. Polk Co Publishers	Image pg. A139	
1944	Swift & Co ice cream	R. L. Polk & Co.	Image pg. A164	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	plant	R. L. Polk & Co.	Image pg. A164

### 114 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1966	SCOTT RICHD 0 AT	R.L. Polk Co Publishers	Image pg. A97
1960	Weber Gretchen A AT	R.L. Polk Co Publishers	Image pg. A109
1955	Ellman Margt E Mrs	R.L. Polk Co Publishers	Image pg. A139

### W Mercer St

#### 115 W Mercer St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	RADIOSHACK CORPORATION	EDR Digital Archive
2010	RADIOSHACK CORPORATION	EDR Digital Archive

### W MERCER ST

#### 115 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>		
1996	RADIO SHACK	R.L. Polk Co. Publishers	Image pg. A20	
1990	One Fifteen West Mercer Street Building	R.L. Polk Co. Publishers	Image pg. A34	
	Radio Shack elec equip dlr	R.L. Polk Co. Publishers	Image pg. A34	
1986	One Fifteen West Mercer Street Building	R.L. Polk Co. Publishers	Image pg. A46	
	Radio Shack	R.L. Polk Co. Publishers	Image pg. A46	
1980	One Fifteen West Mercer Street Building	R.L. Polk Co. Publishers	Image pg. A59	
	Radio Shack	R.L. Polk Co. Publishers	Image pg. A59	
	Spic n Span Cleaners No	R.L. Polk Co. Publishers	Image pg. A59	
	First Impressions antique shop	R.L. Polk Co. Publishers	Image pg. A59	
	Bissig James F	R.L. Polk Co. Publishers	Image pg. A59	
	Dietz Alice A Mrs	R.L. Polk Co. Publishers	Image pg. A59	
	Anderson Edwin C	R.L. Polk Co. Publishers	Image pg. A59	
	Streamline Titvern	R.L. Polk Co. Publishers	Image pg. A59	
	Brownies Brass Bear Tavern	R.L. Polk Co. Publishers	Image pg. A59	
	Pacific Management Co property mgment	R.L. Polk Co. Publishers	Image pg. A59	
	Jandl & Pierce cp	R.L. Polk Co. Publishers	Image pg. A59	
	1975	Safeway Seattle Employees Federal Credit Union	R.L. Polk Co. Publishers	Image pg. A74
		Metro Construction Inc	R.L. Polk Co. Publishers	Image pg. A74
		Jandl & Pierce sects	R.L. Polk Co. Publishers	Image pg. A74
	Gross Alaska Inc theatres	R.L. Polk Co. Publishers	Image pg. A74	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1975	One Fifteen West Mer er Bldg of bldg	R.L. Polk Co. Publishers	Image pg. A74
1970	FEDERAL CREDIT UNION AT	R.L. Polk Co Publishers	Image pg. A84
	SAFEWAY SEATTLE EMPLOYEES	R.L. Polk Co Publishers	Image pg. A84
	IMPROVEMENT CONTRS AT	R.L. Polk Co Publishers	Image pg. A84
	METRO CONSTRUCTION INC HOME	R.L. Polk Co Publishers	Image pg. A84
	JANDL & PIERCE ACCTS AT	R.L. Polk Co Publishers	Image pg. A84
	CENTURY SAVINGS 6 LOAN ASSN AT	R.L. Polk Co Publishers	Image pg. A84
1966	CENTURY SAVINGS & LOAN ASSN AT	R.L. Polk Co Publishers	Image pg. A97
	JANDL & PIRECE ACCTS AT	R.L. Polk Co Publishers	Image pg. A97
	2ND FL SAFEWAY STORES CREDIT UNION AT	R.L. Polk Co Publishers	Image pg. A97
1960	Vacant	R.L. Polk Co Publishers	Image pg. A109
	Ristine Rex	R.L. Polk Co Publishers	Image pg. A109
1955	Lewis Roy	R.L. Polk Co Publishers	Image pg. A139
	I 13 Orick Earl	R.L. Polk Co Publishers	Image pg. A139
1944	01son Nels A	R. L. Polk & Co.	Image pg. A164
	Rohrer Clayton J	R. L. Polk & Co.	Image pg. A164

### **116 W MERCER ST**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1970	VACANT	R.L. Polk Co Publishers	Image pg. A84
1966	LEWIS ESTHER M AT	R.L. Polk Co Publishers	Image pg. A97
1960	Mc Clellan Walter F A AT	R.L. Polk Co Publishers	Image pg. A109
1955	Sparrow Walter J a	R.L. Polk Co Publishers	Image pg. A139

### **W Mercer St**

#### **117 W Mercer St**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2010	NEWS DATA CORP	EDR Digital Archive	
	ENERGY NEWSDATA CORPORATION	EDR Digital Archive	

### **W MERCER ST**

#### **117 W MERCER ST**

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Marples Business Newsletter	Cole Information Services	Image pg. A7
	Energy Newsdata Corp	Cole Information Services	Image pg. A7
	Building	Cole Information Services	Image pg. A7
1996	MODERN CLASSICS	R.L. Polk Co. Publishers	Image pg. A20

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	NEWSLETTERS	R.L. Polk Co. Publishers	Image pg. A20
	MARPLES BUSINESS	R.L. Polk Co. Publishers	Image pg. A20
	INVESTMENT CO	R.L. Polk Co. Publishers	Image pg. A20
	AMERICAN HOME	R.L. Polk Co. Publishers	Image pg. A20
	NEWSDATA CORP	R.L. Polk Co. Publishers	Image pg. A20
1990	Pacific Management Co property mgmt	R.L. Polk Co. Publishers	Image pg. A34
1986	Pacific Management Co property mgrnt	R.L. Polk Co. Publishers	Image pg. A46
1960	Bonar Gilbert H	R.L. Polk Co Publishers	Image pg. A109
1955	Smith Steve trucking	R.L. Polk Co Publishers	Image pg. A139
	Mc Grady Ruth	R.L. Polk Co Publishers	Image pg. A139
1944	Nelson Alfd	R. L. Polk & Co.	Image pg. A164
	Hawkins Harvey	R. L. Polk & Co.	Image pg. A164
1935	SMITH Eva T wid Edwin W h	R.L. Polk Co Publishers	

### W Mercer St

#### 118 W Mercer St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	24 HR LOCKOUT SERVICE	EDR Digital Archive
	TUP TIM THAI INC	EDR Digital Archive
2010	TUP TIM THAI INC	EDR Digital Archive
	EDWIN C ANDERSON	EDR Digital Archive

### W MERCER ST

#### 118 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Tup Tim Thali Corp	Cole Information Services	Image pg. A7
1996	TUP TIM THAI	R.L. Polk Co. Publishers	Image pg. A20
1990	Tup Tim Thai restr	R.L. Polk Co. Publishers	Image pg. A34
1986	Wok & Roll restr	R.L. Polk Co. Publishers	Image pg. A46
1975	Brownies Brass Bear Tavern	R.L. Polk Co. Publishers	Image pg. A74
1970	BROWNIES BRASS BEAR TAVERN AT	R.L. Polk Co Publishers	Image pg. A84
1960	Andersons Olympic Gro A AT	R.L. Polk Co Publishers	Image pg. A109
1955	Andersons Olympic Gro	R.L. Polk Co Publishers	Image pg. A139

#### 119 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	No return	R.L. Polk Co Publishers	Image pg. A109
	No return	R.L. Polk Co Publishers	Image pg. A109

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Vacant	R.L. Polk Co Publishers	Image pg. A139
1944	Rohrer Caroline L Mrs	R. L. Polk & Co.	Image pg. A164

### W Mercer St

#### 121 W Mercer St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2010	STREAMLINE TAVERN	EDR Digital Archive

### W MERCER ST

#### 121 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	STREAMLINE TAVERN	R.L. Polk Co. Publishers	Image pg. A20
1990	Streamline Tavern	R.L. Polk Co. Publishers	Image pg. A34
1986	Streamline Tavern	R.L. Polk Co. Publishers	Image pg. A46
1975	Under Consto	R.L. Polk Co. Publishers	Image pg. A74
1970	QUEEN ANNE MEDICAL CENTER AT KERR JAMES M PHYS AT	R.L. Polk Co Publishers R.L. Polk Co Publishers	Image pg. A84 Image pg. A84
1966	QUEEN ANNE MEDICAL CENTER AT	R.L. Polk Co Publishers	Image pg. A97
1960	Kerr Jas M phys A AT	R.L. Polk Co Publishers	Image pg. A109
1955	Tastie Home Bakery	R.L. Polk Co Publishers	Image pg. A139
1944	Sutherland Birdie B Mrs	R. L. Polk & Co.	Image pg. A164

### W Mercer St

#### 122 W Mercer St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	STEALTH MESSENGERS	EDR Digital Archive
2010	STEALTH MESSENGERS	EDR Digital Archive

### W MERCER ST

#### 122 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	Rilo Chr I	R.L. Polk Co. Publishers	Image pg. A20
	Dukes Patll M	R.L. Polk Co. Publishers	Image pg. A20
1990	De Boer Greg	R.L. Polk Co. Publishers	Image pg. A34
1986	Jarvis Eliz	R.L. Polk Co. Publishers	Image pg. A46
1975	Anderwon Edwin C	R.L. Polk Co. Publishers	Image pg. A74

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1970	ANDERSON EDWIN C AT	R.L. Polk Co Publishers	Image pg. A84
1966	ANDERSON EDWIN C	R.L. Polk Co Publishers	Image pg. A97
1960	Andersoil Edwin C	R.L. Polk Co Publishers	Image pg. A109
1955	Anderson Edwin C	R.L. Polk Co Publishers	Image pg. A139
1944	Peck Harry I	R. L. Polk & Co.	Image pg. A164

### 123 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	no occupant	Cole Information Services	Image pg. A7
1996	Detz Alce A	R.L. Polk Co. Publishers	Image pg. A20
1990	Dietz Alice A Mrs	R.L. Polk Co. Publishers	Image pg. A34
1986	Dietz Alice A Mrs	R.L. Polk Co. Publishers	Image pg. A46
1975	Dietz Alice A Mrs	R.L. Polk Co. Publishers	Image pg. A74
1970	DIETZ ALICE A MRS AT	R.L. Polk Co Publishers	Image pg. A84
1966	DIETZ ALICE A MRS AT	R.L. Polk Co Publishers	Image pg. A97
1960	Dietz Alice A Mrs A AT	R.L. Polk Co Publishers	Image pg. A109
1955	Brown Roy W	R.L. Polk Co Publishers	Image pg. A139
1944	Stoller Edwin A	R. L. Polk & Co.	Image pg. A164

### W Mercer St

#### 124 W Mercer St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2010	LATIN SOLUTIONS LLC	EDR Digital Archive

### W MERCER ST

#### 124 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Janle H Wright	Cole Information Services	Image pg. A7
	Believe	Cole Information Services	Image pg. A7
	Ascadablstro Co	Cole Information Services	Image pg. A7
	Troy E Wright	Cole Information Services	Image pg. A7
1996	Orman Spencer	R.L. Polk Co. Publishers	Image pg. A20
1990	Deal Rich	R.L. Polk Co. Publishers	Image pg. A34
1986	Bissig James F	R.L. Polk Co. Publishers	Image pg. A46
1975	Biasig James	R.L. Polk Co. Publishers	Image pg. A74
1970	VACANT	R.L. Polk Co Publishers	Image pg. A84
1966	D RWIN WM F AT	R.L. Polk Co Publishers	Image pg. A97
1960	Bugge Rolf T A AT	R.L. Polk Co Publishers	Image pg. A109

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Vacant	R.L. Polk Co Publishers	Image pg. A139
1944	Hustad Chester J	R. L. Polk & Co.	Image pg. A164

### W Mercer St

#### 125 W Mercer St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	BLACK MICHAEL REED ANTIQUES	EDR Digital Archive
2010	BLACK MICHAEL REED ANTIQUES	EDR Digital Archive

### W MERCER ST

#### 125 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Michael Reed Black Ant Iques	Cole Information Services	Image pg. A7
1996	ANTIQUES	R.L. Polk Co. Publishers	Image pg. A20
	MICHAEL REED BLACK	R.L. Polk Co. Publishers	Image pg. A20
1990	Black Michael Reed Antiques	R.L. Polk Co. Publishers	Image pg. A34
1986	Black Michael Reed Antiques	R.L. Polk Co. Publishers	Image pg. A46
1960	Jandl & Pierce acets A AT	R.L. Polk Co Publishers	Image pg. A109

### W Mercer St

#### 127 W Mercer St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	SPIC N SPAN CLEANERS INC	EDR Digital Archive
2010	SPIC N SPAN CLEANERS INC	EDR Digital Archive

### W MERCER ST

#### 127 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	SPICN SPAN CLEANERS	R.L. Polk Co. Publishers	Image pg. A20
1990	Spic n Span Cleaners No	R.L. Polk Co. Publishers	Image pg. A34
	Radio Shack elec equip dlr	R.L. Polk Co. Publishers	Image pg. A34
1986	2D AV W INTERSECTS	R.L. Polk Co. Publishers	Image pg. A46
	Spic n Span Cleaners No	R.L. Polk Co. Publishers	Image pg. A46
1975	Spic n Span Cleaners Br	R.L. Polk Co. Publishers	Image pg. A74
1970	SPIC N SPAN CLEANERS BR AT	R.L. Polk Co Publishers	Image pg. A84
1966	SPIC N SPAN CLEANERS BR AT	R.L. Polk Co Publishers	Image pg. A97

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Spic & Span Chins dlo clns A AT	R.L. Polk Co Publishers	Image pg. A109
1955	Vacant	R.L. Polk Co Publishers	Image pg. A139

### 144 W MERCER ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Shreckldngaust Ralph D	R. L. Polk & Co.	Image pg. A164

### W MERCER WAY

#### 13 W MERCER WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	BLAKE Harry M Minnie locksmith	R.L. Polk Co Publishers

#### 14 W MERCER WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Ernest C Anna M trnmn SMRy h 114	R.L. Polk Co Publishers
	tic Supp hl	R.L. Polk Co Publishers
	Pickeral see also Pickerill and Pickrell	R.L. Polk Co Publishers
	Anna M Mrs A & A Soap Mkt Diabe	

#### 15 W MERCER WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	ERICKSON Margt M r	R.L. Polk Co Publishers
	BUTRNS Sami A Rev Ella L pastor Hazael	R.L. Polk Co Publishers
	Mission hl	
1925	Sawyer Julia E wid Ludwig L r	R.L. Polk Co Publishers
	Newton Paul E clk r	R.L. Polk Co Publishers
	Mary E wid Chas E h	R.L. Polk Co Publishers
	Newton Margt L clk NPRy r	R.L. Polk Co Publishers
1920	NSEWTON Paul E elk r	R.L. Polk Co Publishers
	SAWYER Emily wid Ludwick r	R.L. Polk Co Publishers

#### 16 W MERCER WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Hirsch Eug G Marjorie H h	R.L. Polk Co Publishers
	EVANS Winifred A beauty opr r	R.L. Polk Co Publishers
	EVANS Evelyn J Mrs h	R.L. Polk Co Publishers
	EVANS Frances J cook r	R.L. Polk Co Publishers
	Cassel Vinnie M Mrs h	R.L. Polk Co Publishers
	Cassel Frances clk FNB r	R.L. Polk Co Publishers

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Otis Edna B Mrs fctywkr Vedder Mfg Co Inc r	R.L. Polk Co Publishers
	Grave nurse r	R.L. Polk Co Publishers
	OLIVERB Frances B elk SFCo rl OOO 6th av	R.L. Polk Co Publishers
	CARLSON Edwin H r	R.L. Polk Co Publishers
	Cassel A Park Myrtle F sec First Seattle	R.L. Polk Co Publishers
	Frances elk FSDHNB r	R.L. Polk Co Publishers
	Cassel Vinnie M Mrs h	R.L. Polk Co Publishers
	Garrett Malcolm H carp r	R.L. Polk Co Publishers
	LOWE Geo P plmbr r	R.L. Polk Co Publishers
	Geo W Lula M reprmn CTCoh 6553	R.L. Polk Co Publishers
1925	Cassel Frances clk DHNB r	R.L. Polk Co Publishers
	Cassel Mary J music tchr	R.L. Polk Co Publishers
	Cassel Vinnie M Mrs r	R.L. Polk Co Publishers
	Getchell Herbt F Selma A eng h	R.L. Polk Co Publishers
	SW Anna G elk r	R.L. Polk Co Publishers
	Weisel Arthur W r	R.L. Polk Co Publishers
1920	Crocker Lachman Rosamond office mgr Helen Ardelle Candy Co h	R.L. Polk Co Publishers
	DELANEY Wm F Irene M elec h	R.L. Polk Co Publishers
	DODGE Della Mrs clk h	R.L. Polk Co Publishers
	HOWE John chkr r	R.L. Polk Co Publishers
	MORTON Chas A carp r	R.L. Polk Co Publishers
	NELSON Edwd carp r	R.L. Polk Co Publishers
	Nevada John A dockwkr r	R.L. Polk Co Publishers
	Procter Adah smstrs r	R.L. Polk Co Publishers
	Zeek Bert A eng r	R.L. Polk Co Publishers

### 17 W MERCER WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Mc Manamou Mary presser D QAD&C h	R.L. Polk Co Publishers
1925	ABBOTT Roscoe C Iva M clk h	R.L. Polk Co Publishers
	ALLEN Lloyd L trucker r	R.L. Polk Co Publishers
	ALLEN Louise J wid Geo W nurse h	R.L. Polk Co Publishers

### 24 W MERCER WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	ARMSTRONG Edw W Minnie r	R.L. Polk Co Publishers
	Gastineau Elmer E Florence r	R.L. Polk Co Publishers

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Gerig Mary Mrs r	R.L. Polk Co Publishers
	Jos Lora r	R.L. Polk Co Publishers
	SCOTT Augusta L Mrs h	R.L. Polk Co Publishers
1930	Freewalt Paul W Imogene slsmn Olympic Ins Agcy r	R.L. Polk Co Publishers
	H arms John D Ida D h	R.L. Polk Co Publishers
	SCOTT Augusta Mrs real est r	R.L. Polk Co Publishers
	Turner Carl W Marie V mach hlpr AGMfg Co r	R.L. Polk Co Publishers
	Wertin Cecilia wid John r	R.L. Polk Co Publishers
	Wertin Jack C elk r	R.L. Polk Co Publishers
	Wertin Jas J pntr r	R.L. Polk Co Publishers
	Wertin Norbert M mach r	R.L. Polk Co Publishers
1925	Woodhouse Benj brklyr r	R.L. Polk Co Publishers
	Klockstad Erland Kari S h	R.L. Polk Co Publishers
	Mortenson C A contr r	R.L. Polk Co Publishers
1920	Yaunke Julius C Edith V Wagner Mfg Co h	R.L. Polk Co Publishers
	Gehrke Clarence W Mattie M inspr city eng dept h	R.L. Polk Co Publishers
	Bunce Chas D auto mech r	R.L. Polk Co Publishers
	ERICKSON Hilda dom r	R.L. Polk Co Publishers
	Hawkins Esther M acct F PCo r	R.L. Polk Co Publishers

### 101 W MERCER WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Elite Grocery Chas Eardley	R.L. Polk Co Publishers

### 102 W MERCER WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Thos Josephine h	R.L. Polk Co Publishers
	Mo	R.L. Polk Co Publishers

### 103 W MERCER WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Iverson Ogath Mrs candler WCE&PA r	R.L. Polk Co Publishers
1930	Klinger Josephine wid Fred h	R.L. Polk Co Publishers
	Monti Chas J barber Realistic Wave & Barber Shop r Northern H	R.L. Polk Co Publishers
	HILL Wm firemn r	R.L. Polk Co Publishers
	Montgrief Robt marine eng r	R.L. Polk Co Publishers
1925	ALLEN Fred M Amy M electn h	R.L. Polk Co Publishers

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	LEWIS Mary M r	R.L. Polk Co Publishers
	Robicheau Louis P beltmn r	R.L. Polk Co Publishers
	Robicheau M Isabel nurse r	R.L. Polk Co Publishers

### 108 W MERCER WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	BROWN Rosemary r	R.L. Polk Co Publishers
1930	Geo H Minnie M h	R.L. Polk Co Publishers
	Woodhouse G Harlan r	R.L. Polk Co Publishers
1925	WOODHOUSE GRUNBAUM Merle M sten r	R.L. Polk Co Publishers
	WOODHOUSE GRUNBAUM G Harlan electn r	R.L. Polk Co Publishers
	Woodhouse Geo H Minnie M slsmn W H Vincent Inc real est	R.L. Polk Co Publishers
1920	WOODHOUSE Geo H Minnie M Woodhouse Gasoline Engine Co h	R.L. Polk Co Publishers

### 109 W MERCER WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Dutch Boy Baking Co Harold E Chittick whol	R.L. Polk Co Publishers

### 114 W MERCER WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Watson Alfd P Josephine S elk SR and Co h 2622	R.L. Polk Co Publishers
	Allen r	R.L. Polk Co Publishers
	COX Helen wid Chas E r	R.L. Polk Co Publishers
1930	Watson Chas H r	R.L. Polk Co Publishers
	Chas E Helen I U S Coast Guard h	R.L. Polk Co Publishers
1925	CHRISTENSEN Wm C Mary driver h	R.L. Polk Co Publishers
	Jeannette B sten r	R.L. Polk Co Publishers
	Mc Jno mach r	R.L. Polk Co Publishers
	Mac Jno H mach r	R.L. Polk Co Publishers
	Realty Leroy W Irene porter r	R.L. Polk Co Publishers
	Assn r	R.L. Polk Co Publishers
1920	SMITH Herbert F Ruth M dept mgr F&N h	R.L. Polk Co Publishers
	Harvey Bessie M elk r	R.L. Polk Co Publishers
	HARVEY Ida M wid Jas G h	R.L. Polk Co Publishers
	HARVEY Jas R Katie V grocer	R.L. Polk Co Publishers

## FINDINGS

### 115 W MERCER WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	BJUi Saml A Rev Ella Hazel Mission h	R.L. Polk Co Publishers
	DUNEAM Margaret r	R.L. Polk Co Publishers

### 116 W MERCER WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Spurr Margt nurse r	R.L. Polk Co Publishers

### 117 W MERCER WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Newharth Lydia elk RBCo r	R.L. Polk Co Publishers
	Fish Edw B Fern r	R.L. Polk Co Publishers
1925	WVebler Mae nurse r	R.L. Polk Co Publishers
	ELLISON Millicent E wid Roy T bkpr Lbrmens Indemnity Exch h	R.L. Polk Co Publishers

### 119 W MERCER WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Flanagan Nellie r	R.L. Polk Co Publishers
	Flanagan Theo driver r	R.L. Polk Co Publishers

### 121 W MERCER WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	PARKER Violet E wid Chas L h	R.L. Polk Co Publishers
1930	Mc MAHON	R.L. Polk Co Publishers
	Henrietta I r	R.L. Polk Co Publishers
	PARKEI Violet E wid Chas Li h	R.L. Polk Co Publishers
1925	K	R.L. Polk Co Publishers
	Inc r	R.L. Polk Co Publishers
	K	R.L. Polk Co Publishers
	h	R.L. Polk Co Publishers
1920	Green L L stngr h	R.L. Polk Co Publishers

### 122 W MERCER WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Peck Emma A wid Lemman B h	R.L. Polk Co Publishers
	Louise wid I A dom	R.L. Polk Co Publishers
	Leo W Genevieve E h	R.L. Polk Co Publishers
1930	PECK Lemon B Emma A pres treas Peck Wood & Coal Co Inc h	R.L. Polk Co Publishers
1920	Peck Lemman B khmma A Peck & Peck h	R.L. Polk Co Publishers

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Peck Henry J salsn r	R.L. Polk Co Publishers

### 123 W MERCER WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Roop Roope Wm C Helen h	R.L. Polk Co Publishers
1930	Roope Wm C Helen h	R.L. Polk Co Publishers
1925	Roope Wm C Helen h	R.L. Polk Co Publishers
1920	FORBES Margaret H stngr r	R.L. Polk Co Publishers

### 124 W MERCER WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Krake W miningmn r	R.L. Polk Co Publishers
	SCOTT Donald C Mary A pntr h	R.L. Polk Co Publishers
1930	Stenstrom Clara M stdt r	R.L. Polk Co Publishers
	Ivan slsmn DHSCo r	R.L. Polk Co Publishers
	Stenstrom Clara M stdt r	R.L. Polk Co Publishers
	Helmer hlpr Seattle Brass Co r 4140	R.L. Polk Co Publishers
	Gertrude Mrs h	R.L. Polk Co Publishers
1925	PECK Harry I Clara B h	R.L. Polk Co Publishers
1920	Peck Edwin W Virginia Peck & Peck h	R.L. Polk Co Publishers

### W MEREER St

#### 121 W MEREER St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Mc Henrietta I r	R.L. Polk Co Publishers

### W MRCER St

#### 121 W MRCER St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	SVolet wid h L h	R.L. Polk Co Publishers
	PARKEI Thos J Cath real est	R.L. Polk Co Publishers

### W OLYMPIC PL

#### 1 W OLYMPIC PL

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	Anderson Larry	R.L. Polk Co. Publishers

Image pg. A60

## FINDINGS

### 2 W OLYMPIC PL

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1980	Morris Dale W	R.L. Polk Co. Publishers	Image pg. A64

### 100 W OLYMPIC PL

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	+Anne Grosse Ywilde	Cole Information Services	Image pg. A8
	Louis Haven	Cole Information Services	Image pg. A8
	Dylan Havens	Cole Information Services	Image pg. A8
	Jonathan IHeasman	Cole Information Services	Image pg. A8
	Elaitne MHil	Cole Information Services	Image pg. A8
	Jean Hill	Cole Information Services	Image pg. A8
	Deborah LHilpert	Cole Information Services	Image pg. A8
	Jarred Hodgden	Cole Information Services	Image pg. A8
	Sachikolbi	Cole Information Services	Image pg. A8
	Masamilkejima	Cole Information Services	Image pg. A8
	Yaeko inaba	Cole Information Services	Image pg. A8
	Adriana Minclan	Cole Information Services	Image pg. A8
	Robyn R Iley	Cole Information Services	Image pg. A8
	Alejandrod Johnson	Cole Information Services	Image pg. A8
	Jolene C Haneca	Cole Information Services	Image pg. A8
	TLJones	Cole Information Services	Image pg. A8
	Genevieve WKerwer	Cole Information Services	Image pg. A8
	Justin J Kerwin	Cole Information Services	Image pg. A8
	Song YMi Keum	Cole Information Services	Image pg. A8
	Lora King	Cole Information Services	Image pg. A8
	Takashi Kosugi	Cole Information Services	Image pg. A8
	Lee Kuranko	Cole Information Services	Image pg. A8
	Siu Lam	Cole Information Services	Image pg. A8
	Esther VLarson	Cole Information Services	Image pg. A8
	Johnny GLee	Cole Information Services	Image pg. A8
	building	Cole Information Services	Image pg. A8
	Evelyn D 0 Bittner	Cole Information Services	Image pg. A8
	Evelyn Bitwner DVM	Cole Information Services	Image pg. A8
	Ryan MGavey	Cole Information Services	Image pg. A8
	Tina Garvey	Cole Information Services	Image pg. A8
	Jeff Haubner	Cole Information Services	Image pg. A8
	Jufe MMateson	Cole Information Services	Image pg. A8
	Mc COarmnick Paul ERYpka	Cole Information Services	Image pg. A8
	Amy RTroutman	Cole Information Services	Image pg. A8

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Reinier Vane Lk	Cole Information Services	Image pg. A8
	t Meinax agner	Cole Information Services	Image pg. A8
	Nicole Su Banne West	Cole Information Services	Image pg. A8
	Jason E Witrams	Cole Information Services	Image pg. A8
	building	Cole Information Services	Image pg. A8
	Acme WEB Design	Cole Information Services	Image pg. A8
	Tomasz Aleksander	Cole Information Services	Image pg. A8
	John CAmeson	Cole Information Services	Image pg. A8
	Rxannr Bartertt	Cole Information Services	Image pg. A8
	Keiti J Bates	Cole Information Services	Image pg. A8
	Jeanette Bell	Cole Information Services	Image pg. A8
	Kristina Blackman	Cole Information Services	Image pg. A8
	Gavin KBorchert	Cole Information Services	Image pg. A8
	Beth Callentine	Cole Information Services	Image pg. A8
	Valarie S Camp	Cole Information Services	Image pg. A8
	Micheal Jon Carruthers	Cole Information Services	Image pg. A8
	Sgrun I Clarice	Cole Information Services	Image pg. A8
	Clare Clement	Cole Information Services	Image pg. A8
	Sean Cogley	Cole Information Services	Image pg. A8
	Patrick D Combs	Cole Information Services	Image pg. A8
	Michael Lee Conley	Cole Information Services	Image pg. A8
	Maura Idio Cruz	Cole Information Services	Image pg. A8
	0 Kimberly Anne Davis	Cole Information Services	Image pg. A8
	Kory A Deangelo	Cole Information Services	Image pg. A8
	YWo Takahara	Cole Information Services	Image pg. A8
	a FLLTaydra	Cole Information Services	Image pg. A8
	Amy LThomas	Cole Information Services	Image pg. A8
	Aa Rnlue	Cole Information Services	Image pg. A8
	Thomas Vanrwosendaaf	Cole Information Services	Image pg. A8
	Vticbrio SVncec	Cole Information Services	Image pg. A8
	Jacob Andreasw Vogel 00 G P	Cole Information Services	Image pg. A8
	Jason Cu s Wels	Cole Information Services	Image pg. A8
	Steve Wii Larsor	Cole Information Services	Image pg. A8
	Adam JZins	Cole Information Services	Image pg. A8
	Vatene LZins	Cole Information Services	Image pg. A8
	Evelyn Derooy	Cole Information Services	Image pg. A8
	Chris Eckland	Cole Information Services	Image pg. A8
	Linda JEdstrom	Cole Information Services	Image pg. A8

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	David PFriedl	Cole Information Services	Image pg. A8
	Vance Gikov	Cole Information Services	Image pg. A8
	Anne Groese Wile	Cole Information Services	Image pg. A8
	Robert W Leggate	Cole Information Services	Image pg. A8
	Kay Leman Weil	Cole Information Services	Image pg. A8
	VicIde Fonchin LI	Cole Information Services	Image pg. A8
	John B Lincoln	Cole Information Services	Image pg. A8
	Rosnmary Maary Uppert	Cole Information Services	Image pg. A8
	Lauren E Litzie	Cole Information Services	Image pg. A8
	Dewitt Lyken	Cole Information Services	Image pg. A8
	Hope CMc Glathery	Cole Information Services	Image pg. A8
	Loren Mc Narnara	Cole Information Services	Image pg. A8
	Jeff RMeadows	Cole Information Services	Image pg. A8
	John Mitchell	Cole Information Services	Image pg. A8
	Justin Oistad	Cole Information Services	Image pg. A8
	Dorothy LOsbom	Cole Information Services	Image pg. A8
	D Parny	Cole Information Services	Image pg. A8
	Pat APingree	Cole Information Services	Image pg. A8
	David Polac	Cole Information Services	Image pg. A8
	Matthew LPowell	Cole Information Services	Image pg. A8
	I Queensborough Developmeunt Co	Cole Information Services	Image pg. A8
	Dorli TRainey	Cole Information Services	Image pg. A8
	Natalie S Ralph	Cole Information Services	Image pg. A8
	John Ritter	Cole Information Services	Image pg. A8
	CRohlik	Cole Information Services	Image pg. A8
	Tom Michael Scanon	Cole Information Services	Image pg. A8
	Kage B Schner	Cole Information Services	Image pg. A8
	wam JShendge	Cole Information Services	Image pg. A8
	Alleicnre Be Sh ai	Cole Information Services	Image pg. A8
	MHc e Be Sh 19gs 92 W	Cole Information Services	Image pg. A8
0a S 3pson	Cole Information Services	Image pg. A8	
PSlaten	Cole Information Services	Image pg. A8	
o Brent MStewart	Cole Information Services	Image pg. A8	
Ew I g WString Lelb	Cole Information Services	Image pg. A8	
EW ng WStifetw	Cole Information Services	Image pg. A8	
Jos wa Swa V ns	Cole Information Services	Image pg. A8	
1996	Gn enn a Anon 70 374 C	R.L. Polk Co. Publishers	Image pg. A22
	Gubble P	R.L. Polk Co. Publishers	Image pg. A22

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	Khlnoasan Moham I R	R.L. Polk Co. Publishers	Image pg. A22
	Kumasaki C	R.L. Polk Co. Publishers	Image pg. A22
	Mathewa n Cillo	R.L. Polk Co. Publishers	Image pg. A22
	Mo Ne I Douglas	R.L. Polk Co. Publishers	Image pg. A22
	Mc Ne Linda	R.L. Polk Co. Publishers	Image pg. A22
	Splir Sled	R.L. Polk Co. Publishers	Image pg. A22
	W OLYMPIC PL cond	R.L. Polk Co. Publishers	Image pg. A22
	Addres Zip 4 Cart Fle Phona	R.L. Polk Co. Publishers	Image pg. A22
	Stoner John	R.L. Polk Co. Publishers	Image pg. A22
1990	Delphian Apartments	R.L. Polk Co. Publishers	Image pg. A35
	No Return	R.L. Polk Co. Publishers	Image pg. A35
	Steitz M	R.L. Polk Co. Publishers	Image pg. A35
	Todd J L	R.L. Polk Co. Publishers	Image pg. A35
	Johnson D	R.L. Polk Co. Publishers	Image pg. A35
	Houser M	R.L. Polk Co. Publishers	Image pg. A35
	Yang H	R.L. Polk Co. Publishers	Image pg. A35
	Hollars F A	R.L. Polk Co. Publishers	Image pg. A35
	Vacant	R.L. Polk Co. Publishers	Image pg. A35
	Dietsch D	R.L. Polk Co. Publishers	Image pg. A35
	Gottlieb E L	R.L. Polk Co. Publishers	Image pg. A35
	Schubert K	R.L. Polk Co. Publishers	Image pg. A35
	Lindley R S	R.L. Polk Co. Publishers	Image pg. A35
1986	Mc Coy Ralph H	R.L. Polk Co. Publishers	Image pg. A47
	Delphian Apartments	R.L. Polk Co. Publishers	Image pg. A47
	Bollen Constance L	R.L. Polk Co. Publishers	Image pg. A47
	Vacant	R.L. Polk Co. Publishers	Image pg. A47
	Todd J L	R.L. Polk Co. Publishers	Image pg. A47
	Holland C I	R.L. Polk Co. Publishers	Image pg. A47
	Hollars F A	R.L. Polk Co. Publishers	Image pg. A47
	Brickey S R	R.L. Polk Co. Publishers	Image pg. A47
	Dietsch D	R.L. Polk Co. Publishers	Image pg. A47
	Gottlieb E L	R.L. Polk Co. Publishers	Image pg. A47
	Garmire	R.L. Polk Co. Publishers	Image pg. A47
	Newman Fred L	R.L. Polk Co. Publishers	Image pg. A47
	Raub S	R.L. Polk Co. Publishers	Image pg. A47
1980	Delphin Apartments	R.L. Polk Co. Publishers	Image pg. A61
	Krausch Virginia A	R.L. Polk Co. Publishers	Image pg. A61
	Barkley Dorothy Mrs	R.L. Polk Co. Publishers	Image pg. A61

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1980	Couch Frank P	R.L. Polk Co. Publishers	Image pg. A61
	Skorick Richd R	R.L. Polk Co. Publishers	Image pg. A61
	Hollars J D	R.L. Polk Co. Publishers	Image pg. A61
	Farnan Mary Mrs	R.L. Polk Co. Publishers	Image pg. A61
	Pippenger Donald L	R.L. Polk Co. Publishers	Image pg. A61
	Helwick Alma	R.L. Polk Co. Publishers	Image pg. A61
	Moburg Bruce	R.L. Polk Co. Publishers	Image pg. A61
	Newman Fred L	R.L. Polk Co. Publishers	Image pg. A61
	Huber Gabrie	R.L. Polk Co. Publishers	Image pg. A61
Mc Coy Ralph H	R.L. Polk Co. Publishers	Image pg. A61	
1975	Delphin Apartments	R.L. Polk Co. Publishers	Image pg. A75
	Brasfield Michl D	R.L. Polk Co. Publishers	Image pg. A75
	Schreiber Delores	R.L. Polk Co. Publishers	Image pg. A75
	Barklay Dorothy Mrs	R.L. Polk Co. Publishers	Image pg. A76
	Roomer Virginia S Ms	R.L. Polk Co. Publishers	Image pg. A76
	Douglass Gladys Mrs	R.L. Polk Co. Publishers	Image pg. A76
	Hollars J D	R.L. Polk Co. Publishers	Image pg. A76
	Farnan Mary Mrs	R.L. Polk Co. Publishers	Image pg. A76
	Conr y P L	R.L. Polk Co. Publishers	Image pg. A76
	Landon Mabel H Mrs	R.L. Polk Co. Publishers	Image pg. A76
	Conroy Marion	R.L. Polk Co. Publishers	Image pg. A76
	Newman Fred L	R.L. Polk Co. Publishers	Image pg. A76
	Young Richd	R.L. Polk Co. Publishers	Image pg. A76
1970	DELPHIN APARTMENTS AT	R.L. Polk Co Publishers	Image pg. A85
	COCANOWER HULDA M MRS AT	R.L. Polk Co Publishers	Image pg. A85
	WELCH JEAN G MRS AT	R.L. Polk Co Publishers	Image pg. A85
	ROEMER VIRGINIA S MRS AT	R.L. Polk Co Publishers	Image pg. A85
	VALENTINE SIGRID AT	R.L. Polk Co Publishers	Image pg. A85
	LUXTON WM F	R.L. Polk Co Publishers	Image pg. A85
	FARNAN MICHL AT	R.L. Polk Co Publishers	Image pg. A85
	NO RETURN	R.L. Polk Co Publishers	Image pg. A85
	LANDON MABEL AT	R.L. Polk Co Publishers	Image pg. A85
	STEINFORD BLANCHE AT	R.L. Polk Co Publishers	Image pg. A85
	MERZ OTHMAR L AT	R.L. Polk Co Publishers	Image pg. A85
	SOPWITH EDW C AT	R.L. Polk Co Publishers	Image pg. A85
1966	BRYDGES ARTH B AT	R.L. Polk Co Publishers	Image pg. A98
	VACANT	R.L. Polk Co Publishers	Image pg. A98
	CASE HARRY L	R.L. Polk Co Publishers	Image pg. A98

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1966	MARSHALL R JEAN AT	R.L. Polk Co Publishers	Image pg. A98
	WILMS VIOLA R AT	R.L. Polk Co Publishers	Image pg. A98
	THOMPSON GEORGIA L MRS AT	R.L. Polk Co Publishers	Image pg. A98
	VACANT	R.L. Polk Co Publishers	Image pg. A98
	HURST ALTA M MRS AT	R.L. Polk Co Publishers	Image pg. A98
	PARHAM DOLLY MRS AT	R.L. Polk Co Publishers	Image pg. A98
	SOPWITH EDW C AT	R.L. Polk Co Publishers	Image pg. A98
	DELPHIN APARTMENTS	R.L. Polk Co Publishers	Image pg. A98
	COCANOWER HULDA M MRS AT	R.L. Polk Co Publishers	Image pg. A98

### W Olympic PI

#### 101 W Olympic PI

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	QDC INC	EDR Digital Archive
	STRINGFELLOW WILLIAM EWIN	EDR Digital Archive
	KOBO ART GARDEN LLC	EDR Digital Archive
	ABOUT TIME WATCH & JWLY REPR	EDR Digital Archive
	ACME WEB DESIGN	EDR Digital Archive
	CHRISTIAN FELLOWSHIP MEDIA LLC	EDR Digital Archive
2010	ACME WEB DESIGN	EDR Digital Archive
	ABOUT TIME WATCH & JWLY REPR	EDR Digital Archive
	KOBO ART GARDEN LLC	EDR Digital Archive
	PRETTYSERI	EDR Digital Archive
	VANLUE	EDR Digital Archive
	YINFANG INTERNATIONAL SERVICES	EDR Digital Archive
	STRINGFELLOW WILLIAM EWIN	EDR Digital Archive
	QDC INC	EDR Digital Archive
	AMERICAN ROBOT	EDR Digital Archive
	REDTOP CABS	EDR Digital Archive
	CARSON BOOKS	EDR Digital Archive
	HANDS-EYE VIEW MASSAGE	EDR Digital Archive

### W OLYMPIC PL

#### 101 W OLYMPIC PL

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	Edstrum L J	R.L. Polk Co. Publishers	Image pg. A22
	Elek S A Esseo L 3741 C	R.L. Polk Co. Publishers	Image pg. A22

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	Felder Ron	R.L. Polk Co. Publishers	Image pg. A22
	Flahedy Jason	R.L. Polk Co. Publishers	Image pg. A22
	Fond H H	R.L. Polk Co. Publishers	Image pg. A22
	Prantl J R	R.L. Polk Co. Publishers	Image pg. A22
	Gates S K Grimwood John L	R.L. Polk Co. Publishers	Image pg. A22
	Grogan Ma Guilbeng Peter E	R.L. Polk Co. Publishers	Image pg. A22
	Hadoham c Nedim	R.L. Polk Co. Publishers	Image pg. A22
	Ha Harry	R.L. Polk Co. Publishers	Image pg. A22
	Hassll C	R.L. Polk Co. Publishers	Image pg. A22
	QUEENSBOROUGH	R.L. Polk Co. Publishers	Image pg. A22
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	Whittall Judy	R.L. Polk Co. Publishers	Image pg. A76
	Novearo Luis P	R.L. Polk Co. Publishers	Image pg. A76
	Udaton Betty	R.L. Polk Co. Publishers	Image pg. A76
	Kokko EUz	R.L. Polk Co. Publishers	Image pg. A76
	Burns Robt	R.L. Polk Co. Publishers	Image pg. A76
	Vacant	R.L. Polk Co. Publishers	Image pg. A76
	Zurner Rumfield	R.L. Polk Co. Publishers	Image pg. A76
1970	HART HARRY R AT	R.L. Polk Co Publishers	Image pg. A85
	THOMPSON ETHEL B MRS AT	R.L. Polk Co Publishers	Image pg. A85
	DERHAM RICHO at	R.L. Polk Co Publishers	Image pg. A85
	DREWETT NORMAN P AT	R.L. Polk Co Publishers	Image pg. A85
	LOTTIER VERNON A AT	R.L. Polk Co Publishers	Image pg. A85
	SCOFIELD MAX	R.L. Polk Co Publishers	Image pg. A85
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	MOUAT MARGT at	R.L. Polk Co Publishers	Image pg. A85
	COX EDW J AT	R.L. Polk Co Publishers	Image pg. A85
	MC GINTY MADELINE W MRS AT	R.L. Polk Co Publishers	Image pg. A85
	KNUDSON THEO M AT	R.L. Polk Co Publishers	Image pg. A85
	VACANT	R.L. Polk Co Publishers	Image pg. A85
	DAGMAN AVIS AT	R.L. Polk Co Publishers	Image pg. A85
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	SAMUELSON HENRY AT	R.L. Polk Co Publishers	Image pg. A85
	STARIN JOSEPH AT	R.L. Polk Co Publishers	Image pg. A85
	CRATE ISOBEL	R.L. Polk Co Publishers	Image pg. A85
	MYLES JEAN D MRS AT	R.L. Polk Co Publishers	Image pg. A85
	MORAN KARL P	R.L. Polk Co Publishers	Image pg. A85
	GOTTSTEIN RICHD K	R.L. Polk Co Publishers	Image pg. A85
	ZASTROW ZONORA G	R.L. Polk Co Publishers	Image pg. A85
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	TREDWAY JAMES C AT	R.L. Polk Co Publishers	Image pg. A85
	LARSON FSTHER V AT	R.L. Polk Co Publishers	Image pg. A85
	DIXON MARY E AT	R.L. Polk Co Publishers	Image pg. A85

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	RAMWLU EDNA H MRS AT	R.L. Polk Co Publishers	Image pg. A85
	RIPLEY E K MRS AT	R.L. Polk Co Publishers	Image pg. A85
	LORING ANNE V	R.L. Polk Co Publishers	Image pg. A85
	MERRILL MARIE AT	R.L. Polk Co Publishers	Image pg. A85
	JONES MURIEL E	R.L. Polk Co Publishers	Image pg. A85
	PAVLIK W G	R.L. Polk Co Publishers	Image pg. A85
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	BELL JEAN O AT	R.L. Polk Co Publishers	Image pg. A85
	VERHULSt JOHN C	R.L. Polk Co Publishers	Image pg. A85
	VACANT	R.L. Polk Co Publishers	Image pg. A85
	VACANT	R.L. Polk Co Publishers	Image pg. A85
	VACANT	R.L. Polk Co Publishers	Image pg. A85
	STROUT CLIFFORD	R.L. Polk Co Publishers	Image pg. A85
	ARRASMITH ESTHER MRS AT	R.L. Polk Co Publishers	Image pg. A85
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	SCHLUTER LORRAINE AT	R.L. Polk Co Publishers	Image pg. A86
	CALHOUN CHARLES E	R.L. Polk Co Publishers	Image pg. A86
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	VACANT	R.L. Polk Co Publishers	Image pg. A86
	VACANT	R.L. Polk Co Publishers	Image pg. A86
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	AREVALO TERESA J AT	R.L. Polk Co Publishers	Image pg. A85

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	KELEMAN DESZO AT	R.L. Polk Co Publishers	Image pg. A85
	FLEMING GEO W AT	R.L. Polk Co Publishers	Image pg. A85
	HENRIOT ROBT at	R.L. Polk Co Publishers	Image pg. A85
	MILLER KARLOTTA K AT	R.L. Polk Co Publishers	Image pg. A85
	KRAUSE JOHN A	R.L. Polk Co Publishers	Image pg. A85
	SWEENEY IRENE H AT	R.L. Polk Co Publishers	Image pg. A85
	OSBORN DOROTHY L AT	R.L. Polk Co Publishers	Image pg. A85
	ANDERSON ESTHER AT	R.L. Polk Co Publishers	Image pg. A85
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	KLASSEN DOLORES M AT	R.L. Polk Co Publishers	Image pg. A85
	KIM JANE AT	R.L. Polk Co Publishers	Image pg. A85
	DAGE KATHLEEN L	R.L. Polk Co Publishers	Image pg. A85
	LO VERDE J B	R.L. Polk Co Publishers	Image pg. A85
	BURGHART JAMES T AT	R.L. Polk Co Publishers	Image pg. A85
	ABELSON REINARD W AT	R.L. Polk Co Publishers	Image pg. A85
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	CURRY MILDRED K AT	R.L. Polk Co Publishers	Image pg. A85
	EADIE SUSAN F AT	R.L. Polk Co Publishers	Image pg. A85
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	CHRISTIANSEN ALTA P AT	R.L. Polk Co Publishers	Image pg. A85
	QUIGLEY ELLEN P AT	R.L. Polk Co Publishers	Image pg. A85
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	BYERS BLANCHE AT	R.L. Polk Co Publishers	Image pg. A85
	GRIMWOOD JOHN L AT	R.L. Polk Co Publishers	Image pg. A85
	WEAVER RONALD E AT	R.L. Polk Co Publishers	Image pg. A85
	MILLS CLIFFORD U AT	R.L. Polk Co Publishers	Image pg. A85
	FENNER CARL at	R.L. Polk Co Publishers	Image pg. A85
	MARSH MILDRED M MRS AT	R.L. Polk Co Publishers	Image pg. A85
	ROBERTS ROY at	R.L. Polk Co Publishers	Image pg. A85
	TAFT GLENN E AT 3 0e	R.L. Polk Co Publishers	Image pg. A85
	SCHILLER VERN W	R.L. Polk Co Publishers	Image pg. A85
	ZIGICH MARK AT	R.L. Polk Co Publishers	Image pg. A85

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	HASSELL MARGUERITE C MRS AT	R.L. Polk Co Publishers	Image pg. A85
	KNIGHT DORRIS E AT	R.L. Polk Co Publishers	Image pg. A85
	DONAHUE MABEL E	R.L. Polk Co Publishers	Image pg. A85
	MAC LEAN NINAA MRS AT	R.L. Polk Co Publishers	Image pg. A85
	EDGEWORTH ALVIN E AT	R.L. Polk Co Publishers	Image pg. A85
	BRAZAS ALBERT W AT	R.L. Polk Co Publishers	Image pg. A85
	MC CARTY ELMER F AT	R.L. Polk Co Publishers	Image pg. A85
	SUNDERLIN DOROTHY E	R.L. Polk Co Publishers	Image pg. A85
	SEIBEL DAVID R	R.L. Polk Co Publishers	Image pg. A85
	GOULD VIRGINIA R MRS AT	R.L. Polk Co Publishers	Image pg. A85
	HOLICKY LUCY C AT	R.L. Polk Co Publishers	Image pg. A85
	HAWE ALICE MRS AT	R.L. Polk Co Publishers	Image pg. A85
	WENDT KATHRYN T AT	R.L. Polk Co Publishers	Image pg. A85
	GANT HARRIET G AT	R.L. Polk Co Publishers	Image pg. A85
	PUGH ROBT H AT	R.L. Polk Co Publishers	Image pg. A85
	NEUMILLER HELEN M	R.L. Polk Co Publishers	Image pg. A85
	HORST PAUL at	R.L. Polk Co Publishers	Image pg. A85
	DOLMAN DONALD J	R.L. Polk Co Publishers	Image pg. A85
	COCHRAN BEULAH MRS	R.L. Polk Co Publishers	Image pg. A85
	LLEWELLYN ROBT M	R.L. Polk Co Publishers	Image pg. A85
	BERLIN FRANCES G AT	R.L. Polk Co Publishers	Image pg. A85
	QUEENSBOROUGH APARTMENTS AT	R.L. Polk Co Publishers	Image pg. A85
	LOVELEIN ANDREA A	R.L. Polk Co Publishers	Image pg. A85
	CORNING BEVERLY A AT	R.L. Polk Co Publishers	Image pg. A85
	ALLEN AUDRIANNA P AT	R.L. Polk Co Publishers	Image pg. A86
	NELSON JACK AT	R.L. Polk Co Publishers	Image pg. A86
	CAPP LEONARD F AT	R.L. Polk Co Publishers	Image pg. A86
	DUNCAN JAMES R AT	R.L. Polk Co Publishers	Image pg. A86
	FLEISHER EDW	R.L. Polk Co Publishers	Image pg. A86
	WHITTALL LOUISE E AT	R.L. Polk Co Publishers	Image pg. A86
	VACANT	R.L. Polk Co Publishers	Image pg. A86
	PENDLETON WAYNE S AT	R.L. Polk Co Publishers	Image pg. A86
	VACANT	R.L. Polk Co Publishers	Image pg. A86
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	SHELL SANDRat	R.L. Polk Co Publishers	Image pg. A86

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1970	WALLACE MM A	R.L. Polk Co Publishers	Image pg. A86
1966	DUNCAN ARTH D	R.L. Polk Co Publishers	Image pg. A99
	WEAVER FRED P AT	R.L. Polk Co Publishers	Image pg. A99
	JASKE LOUISE M AT	R.L. Polk Co Publishers	Image pg. A99
	GARAPICH JOHN	R.L. Polk Co Publishers	Image pg. A99
	VACANT	R.L. Polk Co Publishers	Image pg. A99
	FRY LAURENCE G AT	R.L. Polk Co Publishers	Image pg. A99
	VACANT	R.L. Polk Co Publishers	Image pg. A99
	VACANT	R.L. Polk Co Publishers	Image pg. A99
	VACANT	R.L. Polk Co Publishers	Image pg. A99
	HECKER WALTER H AT	R.L. Polk Co Publishers	Image pg. A99
	VACANT	R.L. Polk Co Publishers	Image pg. A99
	VACANT	R.L. Polk Co Publishers	Image pg. A99
	VACANT	R.L. Polk Co Publishers	Image pg. A99
	HAZEN JAMES	R.L. Polk Co Publishers	Image pg. A99
	TEUSCHER ELIZ C AT	R.L. Polk Co Publishers	Image pg. A99
	CLERF HELEN AT	R.L. Polk Co Publishers	Image pg. A99
	ALLEN AUDRIANNA P AT	R.L. Polk Co Publishers	Image pg. A99
	ARRASMITH CLARENCE D AT	R.L. Polk Co Publishers	Image pg. A99
	ROBERGE MERTIE A MRS AT	R.L. Polk Co Publishers	Image pg. A99
	VACANT	R.L. Polk Co Publishers	Image pg. A99
	ROBERZE MERTIE A MRS AT	R.L. Polk Co Publishers	Image pg. A99
	SQUIRE THOS	R.L. Polk Co Publishers	Image pg. A99
	OROWAN EGON AT	R.L. Polk Co Publishers	Image pg. A99
	PENDLETON WAYNE S AT	R.L. Polk Co Publishers	Image pg. A99
	VACANT	R.L. Polk Co Publishers	Image pg. A99
	TUCKER BERT H	R.L. Polk Co Publishers	Image pg. A99
	GAINEY PHIL	R.L. Polk Co Publishers	Image pg. A99
	STASSI VICTOR B AT	R.L. Polk Co Publishers	Image pg. A99
	EDGEWORTH ALVIN E AT	R.L. Polk Co Publishers	Image pg. A98
	KNODEL SIEGFRIED CIV ENG	R.L. Polk Co Publishers	Image pg. A99
	ANDERSON ELWYN	R.L. Polk Co Publishers	Image pg. A99
	MORRILL EVELYN V AT	R.L. Polk Co Publishers	Image pg. A99
	CARR GEORGIA S MRS AT	R.L. Polk Co Publishers	Image pg. A99
	GOULD VIRGINIA R MRS AT	R.L. Polk Co Publishers	Image pg. A99
	WRIGHT EVELYN M AT	R.L. Polk Co Publishers	Image pg. A99
	HAVE ALICE MRS MRS AT	R.L. Polk Co Publishers	Image pg. A99
	WENOT KATH MRS AT	R.L. Polk Co Publishers	Image pg. A99

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1966	GANT HARRIET G AT	R.L. Polk Co Publishers	Image pg. A99
	VACANT	R.L. Polk Co Publishers	Image pg. A99
	NEUMILLER HELEN M AT	R.L. Polk Co Publishers	Image pg. A99
	GIBSON MERRILL G AT	R.L. Polk Co Publishers	Image pg. A99
	DUNSMOOR BARBARA	R.L. Polk Co Publishers	Image pg. A99
	COCHRAN BEULAH MRS AT	R.L. Polk Co Publishers	Image pg. A99
	CHANTLER DAVID C AT	R.L. Polk Co Publishers	Image pg. A99
	BERLIN FRANCES G AT	R.L. Polk Co Publishers	Image pg. A99
	NELSON HENRY	R.L. Polk Co Publishers	Image pg. A99
	THOMPSON ETHEL B MRS AT	R.L. Polk Co Publishers	Image pg. A99
	COURVILLE ALDEMORE J AT	R.L. Polk Co Publishers	Image pg. A99
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	WILLIAMS CLARENCE I AT	R.L. Polk Co Publishers	Image pg. A99
	VACANT	R.L. Polk Co Publishers	Image pg. A99
	COCHRAN DONALD	R.L. Polk Co Publishers	Image pg. A99
	DONNELLY PETER F AT	R.L. Polk Co Publishers	Image pg. A99
	ANDERSON ANOERS	R.L. Polk Co Publishers	Image pg. A99
	MC GINTY MADELINE W MRS AT	R.L. Polk Co Publishers	Image pg. A99
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	JAECK CARL L AT	R.L. Polk Co Publishers	Image pg. A99
	TRACY GLADYS P MRS AT	R.L. Polk Co Publishers	Image pg. A99
	DU CHENE HAROLD A AT	R.L. Polk Co Publishers	Image pg. A99
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	SCHWARTZ H H AT	R.L. Polk Co Publishers	Image pg. A99
	MC PHEE A V	R.L. Polk Co Publishers	Image pg. A99
	NO RETURN	R.L. Polk Co Publishers	Image pg. A99
	SLAGSVOL MARY L MRS	R.L. Polk Co Publishers	Image pg. A99
	HAMMONS J E AT	R.L. Polk Co Publishers	Image pg. A99
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	GILMAN EDNat	R.L. Polk Co Publishers	Image pg. A99

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	RAMULU EDNA H MRS	R.L. Polk Co Publishers	Image pg. A99
	HEALY W T AT	R.L. Polk Co Publishers	Image pg. A99
	STIEGLEDc R JOHN AT	R.L. Polk Co Publishers	Image pg. A99
	ELFORD HUGH N AT	R.L. Polk Co Publishers	Image pg. A99
	VACANT	R.L. Polk Co Publishers	Image pg. A99
	SHANNCN JOHN W AT	R.L. Polk Co Publishers	Image pg. A99
	BELL JEAN D AT	R.L. Polk Co Publishers	Image pg. A99
	RAY DIXY L	R.L. Polk Co Publishers	Image pg. A99
	BROWN CHARLES AT	R.L. Polk Co Publishers	Image pg. A99
	BYERS BLANCHE AT	R.L. Polk Co Publishers	Image pg. A99
	POFFLEY EDWIN C AT	R.L. Polk Co Publishers	Image pg. A99
	HARRIS GEO	R.L. Polk Co Publishers	Image pg. A99
	JACKSON WALTERENE	R.L. Polk Co Publishers	Image pg. A99
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	DAHMEN LAVINA MRS AT	R.L. Polk Co Publishers	Image pg. A99
	QUEENSBOROUGH APARTMENTS AT	R.L. Polk Co Publishers	Image pg. A98
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	DEAL BETTY J AT	R.L. Polk Co Publishers	Image pg. A98
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	GORE WILLARD T AT	R.L. Polk Co Publishers	Image pg. A98
	KIRK ANTHONY	R.L. Polk Co Publishers	Image pg. A98
	KENT SIDNEY AT	R.L. Polk Co Publishers	Image pg. A98
	HART HARRY AT	R.L. Polk Co Publishers	Image pg. A98

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	FOGELBERG LA RUE MRS AT	R.L. Polk Co Publishers	Image pg. A98
	ASTIN TRUMAN AT	R.L. Polk Co Publishers	Image pg. A98
	TOLLESEN HELEN T AT	R.L. Polk Co Publishers	Image pg. A98
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	LEENDERTSEN HOWARD K AT	R.L. Polk Co Publishers	Image pg. A98
	QUIGLEY ELLEN P AT	R.L. Polk Co Publishers	Image pg. A98
	FLOBERG RUTH B AT	R.L. Polk Co Publishers	Image pg. A98
	GRIMWOOD JOHN L AT	R.L. Polk Co Publishers	Image pg. A98
	PRICE NANCY AT	R.L. Polk Co Publishers	Image pg. A98
	SAND PHILLIP	R.L. Polk Co Publishers	Image pg. A98
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	MARSH MILDRED M AT	R.L. Polk Co Publishers	Image pg. A98
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	KNIGHT DORRIS E AT	R.L. Polk Co Publishers	Image pg. A98
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1980	Ragsdale E R	R.L. Polk Co. Publishers	Image pg. A62
	Tibbetts Lucille E	R.L. Polk Co. Publishers	Image pg. A62
	Derham Helen E Mrs	R.L. Polk Co. Publishers	Image pg. A62
	Watts	R.L. Polk Co. Publishers	Image pg. A62
	Colwell Harry B	R.L. Polk Co. Publishers	Image pg. A62
	Solari K H	R.L. Polk Co. Publishers	Image pg. A62
	Calhoun Cynthia M Mrs	R.L. Polk Co. Publishers	Image pg. A62
	Brockman Geraldine R Mrs	R.L. Polk Co. Publishers	Image pg. A62

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	Lynch Helen M	R.L. Polk Co. Publishers	Image pg. A62
	DPaulson Robt	R.L. Polk Co. Publishers	Image pg. A62
	Hargus Lowel	R.L. Polk Co. Publishers	Image pg. A62
	Thompson Corinne	R.L. Polk Co. Publishers	Image pg. A62
	Mc Call Donald F	R.L. Polk Co. Publishers	Image pg. A62
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	De Sai D G	R.L. Polk Co. Publishers	Image pg. A62
	Grant Gordon	R.L. Polk Co. Publishers	Image pg. A62
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	Hansen Dorothie	R.L. Polk Co. Publishers	Image pg. A62
	Willson Clara E	R.L. Polk Co. Publishers	Image pg. A62
	Fuhrman Eliz	R.L. Polk Co. Publishers	Image pg. A62
	Shinoda Nobor	R.L. Polk Co. Publishers	Image pg. A62
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2010	HEARTE MICHAEL K	EDR Digital Archive
	DARLING BRIDGE HOPE WASHINGTON	EDR Digital Archive
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	C 9 Adams John E	R.L. Polk Co. Publishers	Image pg. A63
	C 10Senuty Marilyn	R.L. Polk Co. Publishers	Image pg. A63
	Brien Peggy	R.L. Polk Co. Publishers	Image pg. A63
	D 2Venable Thos R	R.L. Polk Co. Publishers	Image pg. A63
	D 3Lawrenson Renee D 4De Maray J	R.L. Polk Co. Publishers	Image pg. A63
	D 5Wanna Kath	R.L. Polk Co. Publishers	Image pg. A63
	D 6Walthrop Gary	R.L. Polk Co. Publishers	Image pg. A63
	D 7Casaidy Diane D 8Diebold Steve	R.L. Polk Co. Publishers	Image pg. A63
	D 9Dean Robt	R.L. Polk Co. Publishers	Image pg. A63
	D 10Brinkley Constance L	R.L. Polk Co. Publishers	Image pg. A63
EITait Wm	R.L. Polk Co. Publishers	Image pg. A63	
E 2King Diane	R.L. Polk Co. Publishers	Image pg. A63	
E 3 Vacant	R.L. Polk Co. Publishers	Image pg. A63	
1975	EIGoason Don	R.L. Polk Co. Publishers	Image pg. A76

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1975	E 2 Walker Howard	R.L. Polk Co. Publishers	Image pg. A76
	D 8 Travis Kenneth R	R.L. Polk Co. Publishers	Image pg. A76
	D 10 Vacant	R.L. Polk Co. Publishers	Image pg. A76
	De La Mar Apartments	R.L. Polk Co. Publishers	Image pg. A76
	Al Stevens Harry	R.L. Polk Co. Publishers	Image pg. A76
	A 2 Magnees Beusie E	R.L. Polk Co. Publishers	Image pg. A76
	A 3SHays Lorraine Mrs	R.L. Polk Co. Publishers	Image pg. A76
	A 4Atkins Julie	R.L. Polk Co. Publishers	Image pg. A76
	A 5 Mayer Tom	R.L. Polk Co. Publishers	Image pg. A76
	A 6Roberson Marilyn	R.L. Polk Co. Publishers	Image pg. A76
	A 7 Ronning Donses Mrs	R.L. Polk Co. Publishers	Image pg. A76
	A 9 Lyikarenen Peter	R.L. Polk Co. Publishers	Image pg. A76
	BI Sant Cecil L	R.L. Polk Co. Publishers	Image pg. A76
	B 2 Connor Helen	R.L. Polk Co. Publishers	Image pg. A76
	B 3Cowen Cal	R.L. Polk Co. Publishers	Image pg. A76
	B 4 Whiting Thos	R.L. Polk Co. Publishers	Image pg. A76
	B 5White Tom	R.L. Polk Co. Publishers	Image pg. A76
	B 6 Mestel Martha	R.L. Polk Co. Publishers	Image pg. A76
	B 7Miller Crisanthias	R.L. Polk Co. Publishers	Image pg. A76
	B 8Sawyer C	R.L. Polk Co. Publishers	Image pg. A76
	CIKaufinan Melvin	R.L. Polk Co. Publishers	Image pg. A76
	C 2Davis Linda	R.L. Polk Co. Publishers	Image pg. A76
	C 3 Saito Maysuyo L Mrs	R.L. Polk Co. Publishers	Image pg. A76
	C 4 0 Keefe Herbert	R.L. Polk Co. Publishers	Image pg. A76
	C 5Failing Ann	R.L. Polk Co. Publishers	Image pg. A76
	C 6Se U Michi	R.L. Polk Co. Publishers	Image pg. A76
	C 7 Johnson Robt	R.L. Polk Co. Publishers	Image pg. A76
	C 8Yeager Mary L	R.L. Polk Co. Publishers	Image pg. A76
	C 9 Nelson Earl	R.L. Polk Co. Publishers	Image pg. A76
	CIO Jones Kath	R.L. Polk Co. Publishers	Image pg. A76
	DIDias Reuben B	R.L. Polk Co. Publishers	Image pg. A76
	D 2 Roberts Jen	R.L. Polk Co. Publishers	Image pg. A76
	D 3Lutz S H	R.L. Polk Co. Publishers	Image pg. A76
	D 4Shreve Robt	R.L. Polk Co. Publishers	Image pg. A76
	D 5 Vacant	R.L. Polk Co. Publishers	Image pg. A76
	D 6Kronewitter Sheila	R.L. Polk Co. Publishers	Image pg. A76
	D 7Blair Arn	R.L. Polk Co. Publishers	Image pg. A76
1970	DE LA MAR APARTMENTS AT	R.L. Polk Co Publishers	Image pg. A86

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1970	A 1 WHITE MARK R	R.L. Polk Co Publishers	Image pg. A86
	A 2 MAGNESS BESSIE AT	R.L. Polk Co Publishers	Image pg. A86
	A 3 LAMBERS KATHLEEN L AT	R.L. Polk Co Publishers	Image pg. A86
	A 4 MAC DONALD JAMES	R.L. Polk Co Publishers	Image pg. A86
	A 5 OKUDA YUTAKA A 6 BUNDY DAVID	R.L. Polk Co Publishers	Image pg. A86
	A 7 BROWN RODNEY at	R.L. Polk Co Publishers	Image pg. A86
	A 9 SANT SCOTT B AT	R.L. Polk Co Publishers	Image pg. A86
	B 3 WHEELER WM M AT	R.L. Polk Co Publishers	Image pg. A86
	B 4 STOUT JOHN	R.L. Polk Co Publishers	Image pg. A86
	B 5 VACANT	R.L. Polk Co Publishers	Image pg. A86
	B 6 VACANT	R.L. Polk Co Publishers	Image pg. A86
	B 7 VACANT	R.L. Polk Co Publishers	Image pg. A86
	B 8 MATARAZZO RALPH	R.L. Polk Co Publishers	Image pg. A86
	C 1 OBRIEN ETHEL	R.L. Polk Co Publishers	Image pg. A86
	C 2 KISSEE DIANNE M	R.L. Polk Co Publishers	Image pg. A86
	C 3 SAITO MATSUYO MRS AT	R.L. Polk Co Publishers	Image pg. A86
	B 1 SANT CECIL L AT	R.L. Polk Co Publishers	Image pg. A86
	B 2 HEADRICK JEANNE AT	R.L. Polk Co Publishers	Image pg. A86
	C 4 0 KEEFE HERBERT A AT	R.L. Polk Co Publishers	Image pg. A86
	C 5 VACANT	R.L. Polk Co Publishers	Image pg. A86
	C 6 REMEDIOS ANTONIO	R.L. Polk Co Publishers	Image pg. A86
	C 7 SAIKI NAOTO AT	R.L. Polk Co Publishers	Image pg. A86
	C 8 BYRD ROST C	R.L. Polk Co Publishers	Image pg. A86
	C 9 VACANT	R.L. Polk Co Publishers	Image pg. A86
	C 10 YOUNG THEO AT	R.L. Polk Co Publishers	Image pg. A86
	D 1 MOCH JULIE	R.L. Polk Co Publishers	Image pg. A86
	D 2 VACANT	R.L. Polk Co Publishers	Image pg. A86
	D 3 VACANT	R.L. Polk Co Publishers	Image pg. A86
	D 4 LESSER LEN	R.L. Polk Co Publishers	Image pg. A86
	D 5 COUNTER WM AT	R.L. Polk Co Publishers	Image pg. A86
	D 6 VARNEY MICHL	R.L. Polk Co Publishers	Image pg. A86
	D 7 ORAUJO JOAQUIN A JR	R.L. Polk Co Publishers	Image pg. A86
	D 8 VACANT	R.L. Polk Co Publishers	Image pg. A86
	D 9 KAY WM	R.L. Polk Co Publishers	Image pg. A86
	D 10 BAKENHUS HERBERT V	R.L. Polk Co Publishers	Image pg. A86
	E 1 DAWSON DAVID	R.L. Polk Co Publishers	Image pg. A86
	E 2 WALKER HOWARD	R.L. Polk Co Publishers	Image pg. A86

## FINDINGS

### W RAY ST

#### 4 W RAY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Roach Frank E	R. L. Polk & Co.	Image pg. A168

#### 8 W RAY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Church Curtis C	R. L. Polk & Co.	Image pg. A168

#### 11 W RAY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Welsh Lon A	R. L. Polk & Co.	Image pg. A166

#### 14 W RAY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Knight Robt N	R. L. Polk & Co.	Image pg. A168

#### 17 W RAY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Delaney Joe S 0 civ eng	R. L. Polk & Co.	Image pg. A168

#### 21 W RAY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Kulman Mforris	R. L. Polk & Co.	Image pg. A168

#### 22 W RAY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Wold Peder	R. L. Polk & Co.	Image pg. A168

#### 23 W RAY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Smith Brooks	R. L. Polk & Co.	Image pg. A168

### W RAY St

#### 25 W RAY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1930	Oakes Chas S Jennie M Handy Grocery 0 & C Mkt h	R.L. Polk Co Publishers	

## FINDINGS

### W RAY ST

#### 103 W RAY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Anderson Axel R	R. L. Polk & Co.	Image pg. A165

#### 107 W RAY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Mc Gregor John A	R. L. Polk & Co.	Image pg. A165

#### 109 W RAY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Wick Harry C	R. L. Polk & Co.	Image pg. A165

#### 115 W RAY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Sortor Iva E Mrs	R. L. Polk & Co.	Image pg. A167
	Evergreen Park	R. L. Polk & Co.	Image pg. A167

### W RO Y St

#### 20 W RO Y St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1925	Roy E elk City Light Dept r	R.L. Polk Co Publishers	
	Weigert Geo D Bernice gard h	R.L. Polk Co Publishers	

### W ROY

#### 2 W ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1935	HOUSE Theo E Eliz P mstr mariner WT&BCo h	R.L. Polk Co Publishers	

#### 11 W ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1935	LUNDGREN Oscar A Mildred M acet h	R.L. Polk Co Publishers	

#### 14 W ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1930	Earling Auto Repair Frank A Portin Wilbur C Malone	R.L. Polk Co Publishers	

## FINDINGS

### 17 W ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	Mary wid Ernest r	R.L. Polk Co Publishers
	Voker Minta Mrs h	R.L. Polk Co Publishers

### 19 W ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	WILCOX Newell h	R.L. Polk Co Publishers
1930	ANDREWS Pearl B wid Hugh H hl	R.L. Polk Co Publishers
	116	R.L. Polk Co Publishers
	ANDREWS Philip R Merle E slsmn PMSCo h 2605	R.L. Polk Co Publishers
	Barger Geo E slsmn hl	R.L. Polk Co Publishers
	Beckley John rl	R.L. Polk Co Publishers
	Crerar Alex elk rl	R.L. Polk Co Publishers
	DAVIES L Wayne Margie L clk Spring Mills Co hl	R.L. Polk Co Publishers
	ERICKSON Edmund oiler rl	R.L. Polk Co Publishers
	ERICKSON Gladys J tchr rl	R.L. Polk Co Publishers
	Evelyn Mrs hl	R.L. Polk Co Publishers
	Gillman Ethel P Mrs sten Climax Locomotive Co hl	R.L. Polk Co Publishers
	KENYON C CLorene M hl	R.L. Polk Co Publishers
	HARRIS Jay W clk ERPInc rl	R.L. Polk Co Publishers
	GARDNER Mabel F sten Northwestern Life & Acc Co rl	R.L. Polk Co Publishers
	Mac Josephine C tchr hl	R.L. Polk Co Publishers
	MOORE Chas L radio electn rl	R.L. Polk Co Publishers
	MOORE Serena J wid A L rl	R.L. Polk Co Publishers
	NE Paul E Newton Buchmann Hardware rl	R.L. Polk Co Publishers
	Ogle Clair clk rl	R.L. Polk Co Publishers
	Scrivner Byron S clk rl	R.L. Polk Co Publishers
	Scrivner Chas M Mabel driver RTCCo h 809	R.L. Polk Co Publishers
	Seely Edw C Lucy E hl	R.L. Polk Co Publishers
	Seely Harold L circ dept Star Pub Co h 2206	R.L. Polk Co Publishers
	Shaw Edgar W Amelia C Lines Service Corp hl	R.L. Polk Co Publishers

## FINDINGS

### 25 W ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Andrew Anton Dorothy eng h	R.L. Polk Co Publishers
	BAILEY Jerry E Harriet D whsmn C B Coselman	R.L. Polk Co Publishers
	h	R.L. Polk Co Publishers
	BENSON Howard J Alma h	R.L. Polk Co Publishers
	h	R.L. Polk Co Publishers
	Bevis J S r	R.L. Polk Co Publishers
	BROOKS Gertrude M wtrs h	R.L. Polk Co Publishers
	BROWN Lewis E Lila M bill mach opr PSP&LCo h	R.L. Polk Co Publishers
	Bryan Anna R wid Francis M cafeteria matron FRB h	R.L. Polk Co Publishers
	Bryan Frank r	R.L. Polk Co Publishers
	Burris Kath A wid Chas S floorwn BMfg Co h 519	R.L. Polk Co Publishers
	Lelia r	R.L. Polk Co Publishers
	Cofield Helen C r	R.L. Polk Co Publishers
	Connor Rose C Mrs mgr Del Roy Apts h	R.L. Polk Co Publishers
	Cronk Lillian G wid Chas E h	R.L. Polk Co Publishers
	Cronk Richd H elk Swift & Co r	R.L. Polk Co Publishers
	Ear Geo E Alice M h	R.L. Polk Co Publishers
	Froman Frances I elk SFCo r	R.L. Polk Co Publishers
	Gammon Dudley A r	R.L. Polk Co Publishers
	Gammon Ethel A wid Walter h	R.L. Polk Co Publishers
	GORDON Percy C Lenora L caretkr Del Roy Apts h	R.L. Polk Co Publishers
	HARRIS Inez W wid G Wm sten Wholesalers Adjustment Co h	R.L. Polk Co Publishers
	Hinton Amos E Florence M elk L&C h	R.L. Polk Co Publishers
	HOLTZ Marie M Mrs h	R.L. Polk Co Publishers
	HOUSE Wm W mariner WT&BCo r	R.L. Polk Co Publishers
	HUGHES Chas C Irene P plmbr h	R.L. Polk Co Publishers
	Jaren Erna r	R.L. Polk Co Publishers
	JOHNSON Olaf A Hansine h	R.L. Polk Co Publishers
	KING Chas J D Nellie shop supt Simonds Saw & Steel Co h	R.L. Polk Co Publishers
	Evelyn ptrn grader C&H r	R.L. Polk Co Publishers
	Kronquist Axel T carp h	R.L. Polk Co Publishers
	Lanyon Albert H Pauline coalmn PSP&LCo h	R.L. Polk Co Publishers

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	LOCKWOOD Watkins P Francese A Pac Coast agt Soo Line h	R.L. Polk Co Publishers
	Mc Daniel Annie wid Dani S r	R.L. Polk Co Publishers
	Mc Jos baker Am Cracker Co h	R.L. Polk Co Publishers
	Mc Jas H trnmn SMRy h	R.L. Polk Co Publishers
	Neville Alfd T Myrtle G Counter Balance Cafe h	R.L. Polk Co Publishers
	Pollard Theo E Dorothy M h	R.L. Polk Co Publishers
	Rasmussen Bonnell Ella mach h	R.L. Polk Co Publishers
	Seim Dorothy A Mrs elk Book Den r	R.L. Polk Co Publishers
	Seim Jas D Dorothy A h	R.L. Polk Co Publishers
	Seim Mamie D Mrs drsmkr	R.L. Polk Co Publishers
	Sergi Ann M Mrs Mnach opr Heils Style Mfg Co h	R.L. Polk Co Publishers
	SMITH Daisy slswn Tokio Tea Store h	R.L. Polk Co Publishers
	Trainor Edw M r	R.L. Polk Co Publishers
	Trainor Jos B Frances A cablemn SMY h	R.L. Polk Co Publishers
	Myrtle C elk F&N r	R.L. Polk Co Publishers
	WEBSTER J Lewis sis eng h	R.L. Polk Co Publishers
	WILLIAMS Benj B mech h	R.L. Polk Co Publishers
	Wistrom Mabel Mrs wtrs r	R.L. Polk Co Publishers
1930	ADAMS Alice E r	R.L. Polk Co Publishers
	ADAMS Edith E Mrs clk h	R.L. Polk Co Publishers
	Adams Wm G r	R.L. Polk Co Publishers
	BENSON Oscar A Ranghild M h	R.L. Polk Co Publishers
	Otillia wid Geo L h	R.L. Polk Co Publishers
	BROWN L Harold Ingshrmn r	R.L. Polk Co Publishers
	Butters Franklin W Clara H wtchmn PSSCo h	R.L. Polk Co Publishers
	Butterworth Albt R asst sec United Gro	R.L. Polk Co Publishers
	Caton Elmer J ship elk r	R.L. Polk Co Publishers
	Cofield Eugene C Martha T mech CH Fellows h	R.L. Polk Co Publishers
	Cogan Patricia B slswn Bon Marche r 1527	R.L. Polk Co Publishers
	Connor Rose C wid Bernard W asst R H Somers h	R.L. Polk Co Publishers
	Copeland Mildred D sten r	R.L. Polk Co Publishers
	De Helaine V sten r	R.L. Polk Co Publishers
	Elliott A F Mrs r	R.L. Polk Co Publishers
	ERICKSON Olga Mrs h	R.L. Polk Co Publishers

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Grandy Verna I wid Albt L Counterbalance Cafe	R.L. Polk Co Publishers
	Halter Kathryn r	R.L. Polk Co Publishers
	Harry L Seaver Minnie V slsmn h	R.L. Polk Co Publishers
	h	R.L. Polk Co Publishers
	Heed A K mach T FMCo h	R.L. Polk Co Publishers
	208	R.L. Polk Co Publishers
	sery h I DS box 17	R.L. Polk Co Publishers
	Heemink Hermatn meeh Rocky Mountain Sert Co Inc h Tukwila Wn	R.L. Polk Co Publishers
	leenan Dorothy D sten Shell Oil Co r 2152	R.L. Polk Co Publishers
	Holtz Albt M Pearl asst supt of mails	R.L. Polk Co Publishers
	Marie G Mrs slswn h	R.L. Polk Co Publishers
	Lars H Anna h	R.L. Polk Co Publishers
	Huglen Anna Mrs slswn MD&SCo r	R.L. Polk Co Publishers
	h	R.L. Polk Co Publishers
	Johnson Adeline Indrs rl	R.L. Polk Co Publishers
	Lockwood Walkins P Frances A Pac Coast agt Soo Line h	R.L. Polk Co Publishers
	Martinelle Michl C Mamie formn C C Belnap Glass Co h	R.L. Polk Co Publishers
	Moody J Vance Isabelle B formn Goodrich Silvertown Inc h	R.L. Polk Co Publishers
	Morningstar Everett N h	R.L. Polk Co Publishers
	108	R.L. Polk Co Publishers
	Muffly Paul B Nellie P elk CMSt P&PRR Co h	R.L. Polk Co Publishers
	Sadler Richd L Jessie N slsmn Mast Radio Co h	R.L. Polk Co Publishers
	Sundell Andw h	R.L. Polk Co Publishers
	TAYLOR Emma J wid Jacob S mlnr S&Co h	R.L. Polk Co Publishers
	Trout Everett J locksmith	R.L. Polk Co Publishers
	av r	R.L. Polk Co Publishers
	Trout Harry W Blanch sign pntr h 10115	R.L. Polk Co Publishers
	Troutman Harry W Dora L civ eng 1506	R.L. Polk Co Publishers

### 115 W ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Hart Virgil S Anna K barber Audrey Elhaney h 543	R.L. Polk Co Publishers
	Virginia C Mrs typist HMB h	R.L. Polk Co Publishers

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	COOK Harry M slsmn Swift & Co h	R.L. Polk Co Publishers
	HART Harold S Virginia C asbestos wkr Chas R Brower & Co h	R.L. Polk Co Publishers

### 119 W ROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Beseman Alfd musician h	R.L. Polk Co Publishers
	CARLSON Ture h	R.L. Polk Co Publishers
	Castor Cecil D Jane C elk h	R.L. Polk Co Publishers
	Coombe Emma L Mrs h	R.L. Polk Co Publishers
	Coombs Vivian J stdt r	R.L. Polk Co Publishers
	Davis Homer F Doris MI slsmn h	R.L. Polk Co Publishers
	Du Prea Geo L slsmn Pac Shade & Drapery Co r	R.L. Polk Co Publishers
	h	R.L. Polk Co Publishers
	Eide Agnes tchr Bgiley Gatze	R.L. Polk Co Publishers
	Esperon Annette Mrs elk h	R.L. Polk Co Publishers
	FARRELL Raymond W r	R.L. Polk Co Publishers
	Robt E br mgr EMG h	R.L. Polk Co Publishers
	Farwell Chas W Marie R porter H	R.L. Polk Co Publishers
	Goldie Julius Alice adv h	R.L. Polk Co Publishers
	Hanlyn Violet N Mrs slswn F&N h	R.L. Polk Co Publishers
	HANSON G h	R.L. Polk Co Publishers
	HARRIS Florence M Mrs h	R.L. Polk Co Publishers
	HARRIS J W r	R.L. Polk Co Publishers
	Kenyon Harry R Averil MI driver h	R.L. Polk Co Publishers
	KING Gordon HR Ernestine driver H J Heinz Co h	R.L. Polk Co Publishers
	Kleingern Kurt lab h	R.L. Polk Co Publishers
	LAW Hamilton formn Atiyeh Bros h	R.L. Polk Co Publishers
	Lonke R clk PO h	R.L. Polk Co Publishers
	Love Ethel I slswn h	R.L. Polk Co Publishers
	Mc Estle Reba C opr Royal Blue Service Sta h	R.L. Polk Co Publishers
	MILES Thos C firemn SFD h	R.L. Polk Co Publishers
	Otis Edna B cash Universal Mikt r	R.L. Polk Co Publishers
	OWEN FARLIN Fred h	R.L. Polk Co Publishers
	OWEN Roy A Gertrude E caddy mstr Broadmoor Golf Club h	R.L. Polk Co Publishers
	Presley Inez D wid Wm F h	R.L. Polk Co Publishers
	Rorvig Peter r	R.L. Polk Co Publishers

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Rosendall Jos C pntr IIW h	R.L. Polk Co Publishers
	SHAW Edgar W Amelia S v pres Lines Service Inc h	R.L. Polk Co Publishers
	Simon Morris musician r	R.L. Polk Co Publishers
	SW Dorothy A stdt r	R.L. Polk Co Publishers
	STEVENS John driver h	R.L. Polk Co Publishers
	STEWART Frances A Mrs nurse	R.L. Polk Co Publishers
	Straughan Claude W parts mgr Seattle Mutual Motors h	R.L. Polk Co Publishers
	STROM Robt B Claire E fetywkr Sanitari Bulk Food Co h	R.L. Polk Co Publishers
	TAYLOR Jack E Bert M h	R.L. Polk Co Publishers
	Van House Alice F Mirs mgr Chandler Hall Apts h	R.L. Polk Co Publishers
	Van Faye M elk FRB r	R.L. Polk Co Publishers
	Van Voltinbergh Ruth Mrs credit mgr Arctic Fur Co h	R.L. Polk Co Publishers
	Warwick Robt E Esther H seamn h	R.L. Polk Co Publishers
	Weller Claire wtrs h	R.L. Polk Co Publishers
	WHITE Helen L r	R.L. Polk Co Publishers
	WILLIAMS Vance K Ruth r	R.L. Polk Co Publishers
1930	Campion Con shipping master PSSCo h	R.L. Polk Co Publishers
	Fansler Albt T mech h	R.L. Polk Co Publishers
	Fansler Glen F slsmn Bergoust Davies Co hl 19	R.L. Polk Co Publishers
	W Roy apt 302.	R.L. Polk Co Publishers
	Fant Eric Tilda whsmn USSPCo h 5912	R.L. Polk Co Publishers
	Geisel Leslie A Maxine F br mgr Piggly Wiggly r	R.L. Polk Co Publishers
	Goldbach Mildred sten r	R.L. Polk Co Publishers
	301	R.L. Polk Co Publishers
	HARRISON Geo F Mary A eng h	R.L. Polk Co Publishers
	417	R.L. Polk Co Publishers
	Johnsen Emil mariner h	R.L. Polk Co Publishers
	Chas A Charlotte G cash L&RTICo h	R.L. Polk Co Publishers
	JOHNSON Chas Gertrude mgr Fifth Av Apt Ho	R.L. Polk Co Publishers
	Wm Alice pntr h	R.L. Polk Co Publishers
	Mc Violet D restrwkr r	R.L. Polk Co Publishers
	Milnor Philip K Mildred A slsmn Plns Co h	R.L. Polk Co Publishers
	Moser Dwight M Florence R driver Dollar Cab Line h	R.L. Polk Co Publishers

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Jay C Geneve J h	R.L. Polk Co Publishers
	N	R.L. Polk Co Publishers
	NE Mary E Mrs h	R.L. Polk Co Publishers
	Rankin Ruby clk Alaska Pacific Salmon Corp r	R.L. Polk Co Publishers
	Employes Union No	R.L. Polk Co Publishers
	Robicheau Louis P beltmn HID&WCo r	R.L. Polk Co Publishers
	Shaw Amelia C Mrs wtrs Meves Cafeteria h	R.L. Polk Co Publishers
	Stoll Geo J Ann h	R.L. Polk Co Publishers
	Jas F R Belle h	R.L. Polk Co Publishers
	Stranahan Earle A Lela br mgr Pacific	R.L. Polk Co Publishers
1925	PSS h	R.L. Polk Co Publishers
	Kenn eth Geo W Flora sis supvr S W	R.L. Polk Co Publishers

### W Roy apt 118

#### 12 W Roy apt 118

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Jasper Arth A Anne E slsmn Mc Kales h 603	R.L. Polk Co Publishers

### W Roy apt 107

#### 1 W Roy apt 107

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	HANSEN Robt G Laura M slsmn DN&EW&Co h 119	R.L. Polk Co Publishers
	Sopwith Edw C Rosemarie h	R.L. Polk Co Publishers

### W Roy apt 117

#### 135 W Roy apt 117

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Hamaker Cath E Mrs sten Philco Radio & Tele	R.L. Polk Co Publishers

### W Roy apt 214

#### 145 W Roy apt 214

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	GRAY Harry A Dorothy bellmn H	R.L. Polk Co Publishers

## FINDINGS

### W Roy apt 308

#### 31 W Roy apt 308

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	MILLER Jack A Jean R slsmgr J M Clarke & Co h 519	R.L. Polk Co Publishers

### W Roy apt 317

#### 1 W Roy apt 317

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Donelly Car	R.L. Polk Co Publishers

### W Roy apt 404

#### 1 W Roy apt 404

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Riegert Robt L Pear	R.L. Polk Co Publishers

### W ROY H 25 DO St

#### 10 W ROY H 25 DO St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	Christensen Bessie J Mrs hairdrsr	R.L. Polk Co Publishers

#### 102 W ROY H 25 DO St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	HAMILTON Laura M wid Lee drugs	R.L. Polk Co Publishers

### W ROY H 25 W ROY St

#### 4 W ROY H 25 W ROY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Peebler Thos C Nellie R gro	R.L. Polk Co Publishers
	av N and	R.L. Polk Co Publishers

### W ROY H 4202 St

#### 2 W ROY H 4202 St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Sipes Clyde W Grace G dclo clnr	R.L. Polk Co Publishers

## FINDINGS

### W ROY H 616 St

#### 100 W ROY H 616 St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	Stavig Einar Mae B slsmn h	R.L. Polk Co Publishers
	Leslie Helen A gro	R.L. Polk Co Publishers

### W ROY MAZIE STEN FSDHNB RLL 17 W I

#### 8 W ROY MAZIE STEN FSDHNB RLL 17 W I

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Potts John W Florence C ins adj Pac Indemnity Co h	R.L. Polk Co Publishers

### W ROY R 1434 31ST AVE

#### 100 W ROY R 1434 31ST AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	David Edw J meats	R.L. Polk Co Publishers

### W Roy St

#### 2 W Roy St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2010	INTERBAY CLEANERS STUDIO	EDR Digital Archive

### W ROY ST

#### 2 W ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Counterbalance Bicycles	Cole Information Services	Image pg. A10
1996	UNIVERSAL CLEANERS	R.L. Polk Co. Publishers	Image pg. A23
1990	Universal Cleaners	R.L. Polk Co. Publishers	Image pg. A37
1986	Aarons Dry Cleaners	R.L. Polk Co. Publishers	Image pg. A49
1980	Queen Anne Cleaners	R.L. Polk Co. Publishers	Image pg. A65
1975	Vacant	R.L. Polk Co. Publishers	Image pg. A77
1970	QUEEN ANNE TRAVEL SERVICE AT	R.L. Polk Co Publishers	Image pg. A87
1966	QUEEN ANNE TRAVEL SERVICE AT	R.L. Polk Co Publishers	Image pg. A100
1960	Mary Helens Delicatessen	R.L. Polk Co Publishers	Image pg. A110
1955	Goodwins Delicatessen	R.L. Polk Co Publishers	Image pg. A140
1951	Hartman H C barber	R.L. Polk Co Publishers	Image pg. A154

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Deco Sporting Gds AL	R.L. Polk Co Publishers	Image pg. A154
1944	Clydo Cleaners alo clers	R. L. Polk & Co.	Image pg. A169
1940	Clyde Cleaners dclo clnrs	R.L. Polk Co publishers	Image pg. A178

### 3 W ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	d av W intersects	R.L. Polk Co Publishers	Image pg. A140

### W Roy St

#### 4 W Roy St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	YAMAMOTO KENJI	EDR Digital Archive
	SHIKI JAPANESE RESTAURANT	EDR Digital Archive
2010	SHIKI JAPANESE RESTAURANT	EDR Digital Archive
	YAMAMOTO KENJI	EDR Digital Archive

### W ROY ST

#### 4 W ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Shiki Japanese Restaurant	Cole Information Services	Image pg. A12
1996	MEDITERRANEAN KITCHEN	R.L. Polk Co. Publishers	Image pg. A23
1990	Mediterranean Kitchen restr	R.L. Polk Co. Publishers	Image pg. A37
1986	Mediterranean Kitchen restr	R.L. Polk Co. Publishers	Image pg. A49
1980	Weinstube Bacchus restr	R.L. Polk Co. Publishers	Image pg. A65
1966	VACANT	R.L. Polk Co Publishers	Image pg. A100
1960	Hartman Holger C barber A AT	R.L. Polk Co Publishers	Image pg. A110
1955	th av W Intersects	R.L. Polk Co Publishers	Image pg. A140
	Hartman Holger C barber	R.L. Polk Co Publishers	Image pg. A140
	Gilbert Sales Co oils & chemin	R.L. Polk Co Publishers	Image pg. A140
1940	Engstrom Arnold W gro	R.L. Polk Co publishers	Image pg. A180

#### 5 W ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1980	:06Lowe C	R.L. Polk Co. Publishers	Image pg. A65
	Caineron N F	R.L. Polk Co. Publishers	Image pg. A65
1955	th av W intersects	R.L. Polk Co Publishers	Image pg. A141

## FINDINGS

### W Roy St

#### 6 W Roy St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	SALON CONCIERGE	EDR Digital Archive
2010	SALON CONCIERGE	EDR Digital Archive

### W ROY ST

#### 6 W ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Chung Moo Doe School	Cole Information Services	Image pg. A12
1996	QUEEN ANNE TAILORS	R.L. Polk Co. Publishers	Image pg. A23
1990	Queen Anne Tailors	R.L. Polk Co. Publishers	Image pg. A37
1986	Queen Anne Tailors	R.L. Polk Co. Publishers	Image pg. A49
1980	Savenye Tailors	R.L. Polk Co. Publishers	Image pg. A65
1966	VACANT	R.L. Polk Co Publishers	Image pg. A100
1960	Castillo Frank B ins A AT	R.L. Polk Co Publishers	Image pg. A110
1955	Reeve Fred	R.L. Polk Co Publishers	Image pg. A142
	Fredericks Beauty Salon	R.L. Polk Co Publishers	Image pg. A142
1951	Veras Beauty Shop	R.L. Polk Co Publishers	Image pg. A156
1944	Iolt Vora Mrs beauty sliop	R. L. Polk & Co.	Image pg. A169
1940	Salon	R.L. Polk Co publishers	Image pg. A180
	Star Barber & Beauty	R.L. Polk Co publishers	Image pg. A180

#### 8 W ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1990	Aged East Framing Gallery The art frames	R.L. Polk Co. Publishers	Image pg. A37
1986	Counterbalance Bookshop ret	R.L. Polk Co. Publishers	Image pg. A49
1975	Queen Anne News SHOP	R.L. Polk Co. Publishers	Image pg. A77
	Queen Anne Newe Printing	R.L. Polk Co. Publishers	Image pg. A77
1970	MAGNOLIA NEWS NEWSPAPER AT	R.L. Polk Co Publishers	Image pg. A87
	MOBILE HOME OWNER NEWSPAPER AT	R.L. Polk Co Publishers	Image pg. A87
	QUEEN ANNE NEWS INC AT	R.L. Polk Co Publishers	Image pg. A87
1966	VACANT	R.L. Polk Co Publishers	Image pg. A100
1960	Fredericks Beauty Salon A AT	R.L. Polk Co Publishers	Image pg. A110
1955	Charpentier Alf B	R.L. Polk Co Publishers	Image pg. A142
	Puget Industries importers	R.L. Polk Co Publishers	Image pg. A142
1951	Wittauer Home Appliances	R.L. Polk Co Publishers	Image pg. A157

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1944	Fix Frank J refrigerator	R. L. Polk & Co.	Image pg. A169
	Co elec supps	R. L. Polk & Co.	Image pg. A169
	Wittauer Home Appliance	R. L. Polk & Co.	Image pg. A169
1940	10 Wittauer Oral S elec	R.L. Polk Co publishers	Image pg. A180
	trical apparatus and supps	R.L. Polk Co publishers	Image pg. A180

### 10 W ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1966	VACANT	R.L. Polk Co Publishers	Image pg. A100
1960	Slender Rola Reducing Salon	R.L. Polk Co Publishers	Image pg. A110
1955	Vacant	R.L. Polk Co Publishers	Image pg. A140
1951	Hodgetts C B	R.L. Polk Co Publishers	Image pg. A153
	A C Radio Serv GA	R.L. Polk Co Publishers	Image pg. A153
1944	Hodgotts Cyril E radio repr	R. L. Polk & Co.	Image pg. A169
1935	Hodgetts Cyril E radio service	R.L. Polk Co Publishers	

### 11 W ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1920	Hare Irene I clk Bon Marche r	R.L. Polk Co Publishers	

### 12 W ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1966	MC CARTNEY FRANK N & ASSOCIATES INS AT	R.L. Polk Co Publishers	Image pg. A100
1960	Miller E Laurence acct A AT	R.L. Polk Co Publishers	Image pg. A110

### W Roy St

### 14 W Roy St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2014	4R AVIATION LLC	EDR Digital Archive	
	ROAD APPAREL LLC	EDR Digital Archive	
	SHAH SAFARI INC	EDR Digital Archive	
2010	SHAH SAFARI INC	EDR Digital Archive	
	SHAW SAFARI CORPORATION	EDR Digital Archive	
	4R AVIATION LLC	EDR Digital Archive	
	ROAD APPAREL LLC	EDR Digital Archive	
	NARGIS DUTT CNCER FNDTION WASH	EDR Digital Archive	

## FINDINGS

### **W ROY ST**

#### **14 W ROY ST**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>	
2005	Shah Safari Inc	Cole Information Services	Image pg. A10
	The Nargis Dutt Cancer	Cole Information Services	Image pg. A10
1996	SHAH SAFARI	R.L. Polk Co. Publishers	Image pg. A23
	REACTOR	R.L. Polk Co. Publishers	Image pg. A23
	RAW EDGE	R.L. Polk Co. Publishers	Image pg. A23
1990	Shaw Safari Inc wholesale clothing	R.L. Polk Co. Publishers	Image pg. A37
1986	Shaw Safari Inc wholesale clothing	R.L. Polk Co. Publishers	Image pg. A49
1980	Rowan Northwestern Decorators Inc	R.L. Polk Co. Publishers	Image pg. A65
1975	Rowan Northwestern Decorators Inc	R.L. Polk Co. Publishers	Image pg. A77
1970	PERRY MOVING & STORAGE INC AT	R.L. Polk Co Publishers	Image pg. A87
1966	PERRY MOVING S& STORAGE INC AT	R.L. Polk Co Publishers	Image pg. A100
1960	erry Moving & Storage Inc A AT	R.L. Polk Co Publishers	Image pg. A110
1955	Perry Moving & Storage	R.L. Polk Co Publishers	Image pg. A140
1951	Perry Moving & Storage	R.L. Polk Co Publishers	Image pg. A153
1944	Perry Moving & Storage	R. L. Polk & Co.	Image pg. A169
1940	Perry Moving & Storage	R.L. Polk Co publishers	Image pg. A178
1930	Earling Garage Chas H Pfleegar	R.L. Polk Co Publishers	

#### **17 W ROY ST**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
1930	Voland Mary wid Ernest r	R.L. Polk Co Publishers

#### **19 W ROY ST**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
1935	Meyer Carrie A pkr Am Cracker Co h	R.L. Polk Co Publishers
1930	THOMPSON Hazel M stdt r	R.L. Polk Co Publishers
	apt 402	R.L. Polk Co Publishers
	Cotton Stanley A Margt G solr hl	R.L. Polk Co Publishers
	apt 418	R.L. Polk Co Publishers
	Hanlyn Violet N Mrs slsw n F&N hl	R.L. Polk Co Publishers
	Hermanson Annette Indrs r	R.L. Polk Co Publishers
	N Doris M sten YMCA rl	R.L. Polk Co Publishers
	Holm Ivan H elk Shell Oil Co rl	R.L. Polk Co Publishers
	Jas clk Lamken & Slotnik rl	R.L. Polk Co Publishers
	JENSEN Jacob S Ca	R.L. Polk Co Publishers
	apt 218	R.L. Polk Co Publishers

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Kyle Eulah B clk F&KCo rl	R.L. Polk Co Publishers
	Kyle Roy R Eulah B slsmn hl	R.L. Polk Co Publishers
	apt 416	R.L. Polk Co Publishers
	Merritt Burwell S Pearl asst geni frt agt GNRy Co rl	R.L. Polk Co Publishers
	MILLER Sadie G slswn RDS rl	R.L. Polk Co Publishers
	Sam cook Chauncey Wright Restr r 505	R.L. Polk Co Publishers
	PORTER Lewis H Gladys M slsmn hl	R.L. Polk Co Publishers
	TERRY Chas T Cath T steelwkr hl	R.L. Polk Co Publishers
	apt 206	R.L. Polk Co Publishers
	Hazell B clk USInt Rev rl	R.L. Polk Co Publishers

### 20 W ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1960	Vacant	R.L. Polk Co Publishers	Image pg. A110
1955	Stovall Glenn H	R.L. Polk Co Publishers	Image pg. A140
1951	Stovall G H GA	R.L. Polk Co Publishers	Image pg. A155
1944	Stovall Glen H	R. L. Polk & Co.	Image pg. A169
1940	Morrison Kenneth	R.L. Polk Co publishers	Image pg. A178
	Jounaras Geo D	R.L. Polk Co publishers	Image pg. A178
	Mallahan Agnes Mrs	R.L. Polk Co publishers	Image pg. A178
1935	Parsons Anna M wid Forrest h	R.L. Polk Co Publishers	
1930	Croon Jack slsmn Newton Buchmann Hardware r	R.L. Polk Co Publishers	
	Highton Arth G r	R.L. Polk Co Publishers	
	Parson Anna M Mrs hsekpr h	R.L. Polk Co Publishers	
1925	Wiegert M Ross Mrs h	R.L. Polk Co Publishers	
	Roy E Rubye E acct h	R.L. Polk Co Publishers	
	Wiegert M Ross Mrs h	R.L. Polk Co Publishers	
1920	Bidner Theo J r	R.L. Polk Co Publishers	
	Ekstrom E C chocolate mkr r	R.L. Polk Co Publishers	
	Morey Clark E elk r	R.L. Polk Co Publishers	
	Munroe Frances L candy wrapper r	R.L. Polk Co Publishers	
	SUTHERLAND John bkpr John Roebings Sons Co r	R.L. Polk Co Publishers	

### 21 W ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Del Roy Apartments	R.L. Polk Co Publishers	Image pg. A140
	Buschman Wm L	R.L. Polk Co Publishers	Image pg. A140

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Peterson Robt	R.L. Polk Co Publishers	Image pg. A140
	Mashburn W H	R.L. Polk Co Publishers	Image pg. A140
	Wilson Hanna B Mrs	R.L. Polk Co Publishers	Image pg. A140
	Hooper Isaac K	R.L. Polk Co Publishers	Image pg. A140
	Jolly E W	R.L. Polk Co Publishers	Image pg. A140
	Fretz Wm	R.L. Polk Co Publishers	Image pg. A140
	Miller David J	R.L. Polk Co Publishers	Image pg. A140
	Montemayor Richd	R.L. Polk Co Publishers	Image pg. A140
	Jessen Phyllis	R.L. Polk Co Publishers	Image pg. A140
	Vacant	R.L. Polk Co Publishers	Image pg. A140
	Kuberski Geo W	R.L. Polk Co Publishers	Image pg. A140
	Bradford Frances	R.L. Polk Co Publishers	Image pg. A140
	Bridge Bertha Mrs mgr	R.L. Polk Co Publishers	Image pg. A140
	Benedict Rock	R.L. Polk Co Publishers	Image pg. A140
	Bean Fred C	R.L. Polk Co Publishers	Image pg. A140
	Egbert Allen G	R.L. Polk Co Publishers	Image pg. A140
	Horat Frank E	R.L. Polk Co Publishers	Image pg. A140
	Lord Alice	R.L. Polk Co Publishers	Image pg. A140
	Imbler Paul	R.L. Polk Co Publishers	Image pg. A140
	Metcalf Kellogg jr	R.L. Polk Co Publishers	Image pg. A140
	Hecker Kathryn Mirs	R.L. Polk Co Publishers	Image pg. A140
	Vacant	R.L. Polk Co Publishers	Image pg. A140
	Jegen Martin	R.L. Polk Co Publishers	Image pg. A140
	Derhiam Michi	R.L. Polk Co Publishers	Image pg. A140
	Breedlove Wm A	R.L. Polk Co Publishers	Image pg. A140
	Kelloway Gudrun F Mrs	R.L. Polk Co Publishers	Image pg. A140
	Vacant	R.L. Polk Co Publishers	Image pg. A140
	Swensen Mlargt Mrs	R.L. Polk Co Publishers	Image pg. A140
	Forsberg Cora W	R.L. Polk Co Publishers	Image pg. A140
	Vacant	R.L. Polk Co Publishers	Image pg. A140
	Strodel Ludwvig Si	R.L. Polk Co Publishers	Image pg. A140
	Witke Harold	R.L. Polk Co Publishers	Image pg. A140
	Vacant	R.L. Polk Co Publishers	Image pg. A140
	Casey Wm	R.L. Polk Co Publishers	Image pg. A140
	Vacant	R.L. Polk Co Publishers	Image pg. A140
	Francis Jean	R.L. Polk Co Publishers	Image pg. A140
	Larson Selma D Mrs	R.L. Polk Co Publishers	Image pg. A140
	Morrill Robt	R.L. Polk Co Publishers	Image pg. A140

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Mc Mahon MI P	R.L. Polk Co Publishers	Image pg. A140
	Key Laurel E	R.L. Polk Co Publishers	Image pg. A140
	Cline Walter D	R.L. Polk Co Publishers	Image pg. A140
	Vacant	R.L. Polk Co Publishers	Image pg. A140
	Edwards Gaylord XW	R.L. Polk Co Publishers	Image pg. A140
	Newman Winifred	R.L. Polk Co Publishers	Image pg. A140
	Meyer Augustus W	R.L. Polk Co Publishers	Image pg. A140
	Vacant	R.L. Polk Co Publishers	Image pg. A140
	Dvorak Robt L	R.L. Polk Co Publishers	Image pg. A140
	Street continued	R.L. Polk Co Publishers	Image pg. A140
1930	DOUGLAS Mabel H r	R.L. Polk Co Publishers	

### 24 W ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Mc H C pipeftr h	R.L. Polk Co Publishers

### W Roy St

### 25 W Roy St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2010	FEATHERSTONE MESSAGE	EDR Digital Archive

### W ROY ST

### 25 W ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	building	Cole Information Services	Image pg. A10
	Josh LArana	Cole Information Services	Image pg. A10
	Joshua JArena	Cole Information Services	Image pg. A10
	+ Joslin O Beasley	Cole Information Services	Image pg. A10
	Marilyn S Bridge	Cole Information Services	Image pg. A10
	Virginia Brokx	Cole Information Services	Image pg. A10
	Brownstone Cottage	Cole Information Services	Image pg. A10
	Greg J Butz	Cole Information Services	Image pg. A10
	Leigha Chartrand	Cole Information Services	Image pg. A10
	Aran Church	Cole Information Services	Image pg. A10
	Joshua Clements	Cole Information Services	Image pg. A10
	Sean M Comrnett	Cole Information Services	Image pg. A10
	Amy Dahlberg	Cole Information Services	Image pg. A10
	Bennie H Daniels	Cole Information Services	Image pg. A10

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Jack Denny Darby	Cole Information Services	Image pg. A10
	Keridwyn Deller	Cole Information Services	Image pg. A10
	Valerie Dossing	Cole Information Services	Image pg. A10
	Kenneth Eugene Dunard	Cole Information Services	Image pg. A10
	Wil lam Evans	Cole Information Services	Image pg. A10
	Asha A Farah	Cole Information Services	Image pg. A10
	Y Foxfire	Cole Information Services	Image pg. A10
	Y Foxfire	Cole Information Services	Image pg. A10
	Christopher Scott Hom	Cole Information Services	Image pg. A10
	Usha J Jumanio	Cole Information Services	Image pg. A10
	Michael Schiff Kaufman	Cole Information Services	Image pg. A10
	Ronald J Kenyon	Cole Information Services	Image pg. A10
	Dan Kotnik	Cole Information Services	Image pg. A10
	Heid I J Kuhn	Cole Information Services	Image pg. A10
	Julle R Lundquist	Cole Information Services	Image pg. A10
	William J Mc Donagh	Cole Information Services	Image pg. A10
	Jerome Orlando Montalto	Cole Information Services	Image pg. A10
	Kay AMMor rrs	Cole Information Services	Image pg. A10
	Wayne S Morris	Cole Information Services	Image pg. A10
	Eric Nelson	Cole Information Services	Image pg. A11
	MRanoff	Cole Information Services	Image pg. A11
	Leah Reppart	Cole Information Services	Image pg. A11
	Joseph M Russell	Cole Information Services	Image pg. A11
	Johnnie Scard In I	Cole Information Services	Image pg. A11
	Timothy Thomas Seery	Cole Information Services	Image pg. A11
	Heldi S Staman	Cole Information Services	Image pg. A11
	JTumaob	Cole Information Services	Image pg. A11
	Katjana Vadeboncoeur	Cole Information Services	Image pg. A11
	Stuart M Wohler	Cole Information Services	Image pg. A11
	Anne Yoon	Cole Information Services	Image pg. A11
1996	Spjlc eh B	R.L. Polk Co. Publishers	Image pg. A23
	Tanaka Yoke	R.L. Polk Co. Publishers	Image pg. A23
	Ton lk Suns	R.L. Polk Co. Publishers	Image pg. A23
	Weeder William M	R.L. Polk Co. Publishers	Image pg. A23
	Whbte Tom	R.L. Polk Co. Publishers	Image pg. A23
	Williams Jason C	R.L. Polk Co. Publishers	Image pg. A23
	Woods Rob	R.L. Polk Co. Publishers	Image pg. A23
	Young Dyla	R.L. Polk Co. Publishers	Image pg. A23

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	Anderson T C	R.L. Polk Co. Publishers	Image pg. A23
	Anderson Try	R.L. Polk Co. Publishers	Image pg. A23
	Bemold Jonathan B	R.L. Polk Co. Publishers	Image pg. A23
	Bing K R	R.L. Polk Co. Publishers	Image pg. A23
	Ble Ir Michael T	R.L. Polk Co. Publishers	Image pg. A23
	Bridge M S	R.L. Polk Co. Publishers	Image pg. A23
	Cannel A	R.L. Polk Co. Publishers	Image pg. A23
	Centrell Jason	R.L. Polk Co. Publishers	Image pg. A23
	Da lley R C	R.L. Polk Co. Publishers	Image pg. A23
	Daneies B I	R.L. Polk Co. Publishers	Image pg. A23
	Dane Aneme a	R.L. Polk Co. Publishers	Image pg. A23
	Gluboohens kay Alla	R.L. Polk Co. Publishers	Image pg. A23
	Hayes Brian T	R.L. Polk Co. Publishers	Image pg. A23
	Hazen James	R.L. Polk Co. Publishers	Image pg. A23
	Hollman Paul	R.L. Polk Co. Publishers	Image pg. A23
	Hoffman Stewart	R.L. Polk Co. Publishers	Image pg. A23
	Intek Joseph	R.L. Polk Co. Publishers	Image pg. A23
	Kahn Kev In	R.L. Polk Co. Publishers	Image pg. A23
	Kals Le	R.L. Polk Co. Publishers	Image pg. A23
	Kalmn Michael S Larson Aaron 44220 42 C	R.L. Polk Co. Publishers	Image pg. A23
	Lee Young J	R.L. Polk Co. Publishers	Image pg. A23
	Mendne I Robin	R.L. Polk Co. Publishers	Image pg. A23
	Mawdan Michael A 4422 C 021 203 ag	R.L. Polk Co. Publishers	Image pg. A23
	Martin Henry W	R.L. Polk Co. Publishers	Image pg. A23
	Mo Donegh William J	R.L. Polk Co. Publishers	Image pg. A23
	Moore William S	R.L. Polk Co. Publishers	Image pg. A23
	Myaya M	R.L. Polk Co. Publishers	Image pg. A23
	Overall M	R.L. Polk Co. Publishers	Image pg. A23
	Paul Mihael	R.L. Polk Co. Publishers	Image pg. A23
	Preston Patrick Randf M 4 4422 C	R.L. Polk Co. Publishers	Image pg. A23
	Riches Pater 4 C	R.L. Polk Co. Publishers	Image pg. A23
	Sackeg Thomas	R.L. Polk Co. Publishers	Image pg. A23
Sad! Stephen M	R.L. Polk Co. Publishers	Image pg. A23	
Sdndonal Rudy	R.L. Polk Co. Publishers	Image pg. A23	
Skolnik Joahue	R.L. Polk Co. Publishers	Image pg. A23	
1990	Del Roy Apartments Inc	R.L. Polk Co. Publishers	Image pg. A37
	Green Legrand	R.L. Polk Co. Publishers	Image pg. A37
	Hulm Jim	R.L. Polk Co. Publishers	Image pg. A37

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1990	Uriola John	R.L. Polk Co. Publishers	Image pg. A37
	Sullivan D	R.L. Polk Co. Publishers	Image pg. A37
	Mitsui Karen R	R.L. Polk Co. Publishers	Image pg. A37
	Green Kathryn	R.L. Polk Co. Publishers	Image pg. A37
	Stauber Mitchell	R.L. Polk Co. Publishers	Image pg. A37
	Lytikainen Peter L	R.L. Polk Co. Publishers	Image pg. A37
	Dover Jas	R.L. Polk Co. Publishers	Image pg. A37
	Longie Fabian	R.L. Polk Co. Publishers	Image pg. A37
	Miller Aaron	R.L. Polk Co. Publishers	Image pg. A37
	Syvila Thepenavong	R.L. Polk Co. Publishers	Image pg. A37
	Avelaneds Debbie	R.L. Polk Co. Publishers	Image pg. A37
	Bowe Kim	R.L. Polk Co. Publishers	Image pg. A37
	Erickson Roger	R.L. Polk Co. Publishers	Image pg. A37
	Wong Joe	R.L. Polk Co. Publishers	Image pg. A37
	Alpert Danie Ue	R.L. Polk Co. Publishers	Image pg. A37
	No Return	R.L. Polk Co. Publishers	Image pg. A37
	Wright Kenneth	R.L. Polk Co. Publishers	Image pg. A37
	Convery Susan	R.L. Polk Co. Publishers	Image pg. A37
	Mc Donagh William J	R.L. Polk Co. Publishers	Image pg. A37
	Daniels Bennie	R.L. Polk Co. Publishers	Image pg. A37
	Dailey Robert	R.L. Polk Co. Publishers	Image pg. A37
	Mazenauer H	R.L. Polk Co. Publishers	Image pg. A37
	Schwartz Robin H	R.L. Polk Co. Publishers	Image pg. A37
	Del Campo Use Mrs	R.L. Polk Co. Publishers	Image pg. A37
	Abe H Trudy M	R.L. Polk Co. Publishers	Image pg. A37
	Doughty Curts	R.L. Polk Co. Publishers	Image pg. A37
	Bridge Marilyn S	R.L. Polk Co. Publishers	Image pg. A37
	Fowler Scott	R.L. Polk Co. Publishers	Image pg. A37
	Waterman Claire R	R.L. Polk Co. Publishers	Image pg. A37
	Levinson Lois	R.L. Polk Co. Publishers	Image pg. A37
	Flynn Jack	R.L. Polk Co. Publishers	Image pg. A37
	Konkell Cynth	R.L. Polk Co. Publishers	Image pg. A37
	Dagher Marcella	R.L. Polk Co. Publishers	Image pg. A37
	Walker Howard	R.L. Polk Co. Publishers	Image pg. A37
	Zaselove Arnie	R.L. Polk Co. Publishers	Image pg. A37
	Bartels Lynd	R.L. Polk Co. Publishers	Image pg. A37
	Marrow Hilary	R.L. Polk Co. Publishers	Image pg. A37
	Anonette Vemon	R.L. Polk Co. Publishers	Image pg. A37

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1990	Downs Loreale	R.L. Polk Co. Publishers	Image pg. A37
	Clevengar Arne	R.L. Polk Co. Publishers	Image pg. A37
	Aranoff Maxed	R.L. Polk Co. Publishers	Image pg. A37
	Holcombe Kristine	R.L. Polk Co. Publishers	Image pg. A37
	Carlson Karen L	R.L. Polk Co. Publishers	Image pg. A37
	Vevang Elizabeth	R.L. Polk Co. Publishers	Image pg. A37
	White Tom	R.L. Polk Co. Publishers	Image pg. A37
	Hancock Kris	R.L. Polk Co. Publishers	Image pg. A37
	Skolnik Joshu	R.L. Polk Co. Publishers	Image pg. A37
	Wasson Dawn M	R.L. Polk Co. Publishers	Image pg. A37
1986	Riches Peter	R.L. Polk Co. Publishers	Image pg. A37
	Del Roy Apartments Inc	R.L. Polk Co. Publishers	Image pg. A49
	Walsh D	R.L. Polk Co. Publishers	Image pg. A49
	Kopp James L	R.L. Polk Co. Publishers	Image pg. A49
1980	Snyder Susan M	R.L. Polk Co. Publishers	Image pg. A49
	Del Roy Apartments Inc	R.L. Polk Co. Publishers	Image pg. A65
	Bell Ralph L	R.L. Polk Co. Publishers	Image pg. A65
1975	Ewing Wm L	R.L. Polk Co. Publishers	Image pg. A65
	Johnson P A	R.L. Polk Co. Publishers	Image pg. A65
	Daniels Bennie	R.L. Polk Co. Publishers	Image pg. A77
	Meserverv Norman	R.L. Polk Co. Publishers	Image pg. A77
	Willan Irwin T	R.L. Polk Co. Publishers	Image pg. A77
	Benkers S J	R.L. Polk Co. Publishers	Image pg. A77
	Holcomb Edna M	R.L. Polk Co. Publishers	Image pg. A77
	Merryman James	R.L. Polk Co. Publishers	Image pg. A77
	Holcombe Elzada V Mrs	R.L. Polk Co. Publishers	Image pg. A77
	Parke W F	R.L. Polk Co. Publishers	Image pg. A77
	Wakefield W	R.L. Polk Co. Publishers	Image pg. A77
	Schakel Hendrika	R.L. Polk Co. Publishers	Image pg. A77
	Roundtree C W	R.L. Polk Co. Publishers	Image pg. A77
	Chriatensen N L	R.L. Polk Co. Publishers	Image pg. A77
	Vacant	R.L. Polk Co. Publishers	Image pg. A77
	Rice Pearl Mrs	R.L. Polk Co. Publishers	Image pg. A77
	Vacant	R.L. Polk Co. Publishers	Image pg. A77
Brynardson K	R.L. Polk Co. Publishers	Image pg. A77	
Waite Elon D	R.L. Polk Co. Publishers	Image pg. A77	
Comstock E E	R.L. Polk Co. Publishers	Image pg. A77	
Owens D W	R.L. Polk Co. Publishers	Image pg. A77	

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1975	Gulbranaen E	R.L. Polk Co. Publishers	Image pg. A77
	Grummett Edith	R.L. Polk Co. Publishers	Image pg. A77
	Flajole W	R.L. Polk Co. Publishers	Image pg. A77
	Palmer M	R.L. Polk Co. Publishers	Image pg. A77
	Cory F	R.L. Polk Co. Publishers	Image pg. A77
	Lygren Harvey P	R.L. Polk Co. Publishers	Image pg. A77
	Hopper M M	R.L. Polk Co. Publishers	Image pg. A77
	Wyatt Edith M Mrs	R.L. Polk Co. Publishers	Image pg. A77
	Bridge Max R	R.L. Polk Co. Publishers	Image pg. A77
	Graff E F	R.L. Polk Co. Publishers	Image pg. A77
	Del Roy Apartments Inc	R.L. Polk Co. Publishers	Image pg. A77
	LI Uegren E M	R.L. Polk Co. Publishers	Image pg. A77
	Ewing W L	R.L. Polk Co. Publishers	Image pg. A77
	Jeffery A	R.L. Polk Co. Publishers	Image pg. A77
	Antonich Wm J	R.L. Polk Co. Publishers	Image pg. A77
	Nations B J	R.L. Polk Co. Publishers	Image pg. A77
	Gabel Alex	R.L. Polk Co. Publishers	Image pg. A77
	Wheeler Mark	R.L. Polk Co. Publishers	Image pg. A77
	No Return	R.L. Polk Co. Publishers	Image pg. A77
	Zawlocki R	R.L. Polk Co. Publishers	Image pg. A77
	Hambly David	R.L. Polk Co. Publishers	Image pg. A77
	Vacant	R.L. Polk Co. Publishers	Image pg. A77
	Crummy Ansel J	R.L. Polk Co. Publishers	Image pg. A77
	Vacant	R.L. Polk Co. Publishers	Image pg. A77
	Bridge Bertha Mrs	R.L. Polk Co. Publishers	Image pg. A77
	Vacant	R.L. Polk Co. Publishers	Image pg. A77
	Ordonia Juan M	R.L. Polk Co. Publishers	Image pg. A77
	Nichols H	R.L. Polk Co. Publishers	Image pg. A77
	Henshaw N	R.L. Polk Co. Publishers	Image pg. A77
	Vacant	R.L. Polk Co. Publishers	Image pg. A77
Griffin D	R.L. Polk Co. Publishers	Image pg. A77	
1970	DEL ROY APARTMENTS AT	R.L. Polk Co Publishers	Image pg. A87
	MAXWELL RALPH E	R.L. Polk Co Publishers	Image pg. A87
	LOOMIS ROBT	R.L. Polk Co Publishers	Image pg. A87
	HUGHES EDITH L	R.L. Polk Co Publishers	Image pg. A87
	KAYE FLORENCE A	R.L. Polk Co Publishers	Image pg. A87
	VACANT	R.L. Polk Co Publishers	Image pg. A87
	POWERS JAMES R	R.L. Polk Co Publishers	Image pg. A87

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1970	VACANT	R.L. Polk Co Publishers	Image pg. A87
	NO RETURN	R.L. Polk Co Publishers	Image pg. A87
	NO RETURN	R.L. Polk Co Publishers	Image pg. A87
	CLAYHOLT RUTH E AT	R.L. Polk Co Publishers	Image pg. A87
	MC KAY MARTHA MRS AT	R.L. Polk Co Publishers	Image pg. A87
	CRUMMY ANSEL J AT	R.L. Polk Co Publishers	Image pg. A87
	LUI ANNA	R.L. Polk Co Publishers	Image pg. A87
	BRIDGE BERTHA MRS	R.L. Polk Co Publishers	Image pg. A87
	HARVEY ARTH	R.L. Polk Co Publishers	Image pg. A87
	EIKEMO EIKO	R.L. Polk Co Publishers	Image pg. A87
	WINDE BEATRICE J	R.L. Polk Co Publishers	Image pg. A87
	NO RETURN	R.L. Polk Co Publishers	Image pg. A87
	ASHEIM ELISE AT	R.L. Polk Co Publishers	Image pg. A87
	VACANT	R.L. Polk Co Publishers	Image pg. A87
	DANIELS BETTE AT	R.L. Polk Co Publishers	Image pg. A87
	NO RETURN	R.L. Polk Co Publishers	Image pg. A87
	WILLIAMS IRWIN J AT	R.L. Polk Co Publishers	Image pg. A87
	VACANT AT	R.L. Polk Co Publishers	Image pg. A87
	HOLCOMB EDNA M AT	R.L. Polk Co Publishers	Image pg. A87
	MERRYMAN JAMES AT	R.L. Polk Co Publishers	Image pg. A87
	KELLOWAY GUDRUN F MRS AT	R.L. Polk Co Publishers	Image pg. A87
	MORAN WALTER J	R.L. Polk Co Publishers	Image pg. A87
	ZOCK PAUL	R.L. Polk Co Publishers	Image pg. A87
	FRIBORG J L	R.L. Polk Co Publishers	Image pg. A87
	SILVA MICHL R AT	R.L. Polk Co Publishers	Image pg. A87
	MENEHAN JAMES V AT	R.L. Polk Co Publishers	Image pg. A87
	LAMMI TAISTO	R.L. Polk Co Publishers	Image pg. A87
	NO RETURN	R.L. Polk Co Publishers	Image pg. A87
	RICE PEARL AT 2 14 E	R.L. Polk Co Publishers	Image pg. A87
	NO RETURN	R.L. Polk Co Publishers	Image pg. A87
	OLSEN FRANCIS G	R.L. Polk Co Publishers	Image pg. A87
	WAITE ELON O AT	R.L. Polk Co Publishers	Image pg. A87
	WYATT EDITH M AT	R.L. Polk Co Publishers	Image pg. A87
	BUCK INA J MRS AT	R.L. Polk Co Publishers	Image pg. A87
	NO RETURN	R.L. Polk Co Publishers	Image pg. A87
	GRUMMITT EDITH	R.L. Polk Co Publishers	Image pg. A87
	NO RETURN	R.L. Polk Co Publishers	Image pg. A87
	ADAMS OLIVE D MRS	R.L. Polk Co Publishers	Image pg. A87

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1970	HUNT WM	R.L. Polk Co Publishers	Image pg. A87
	WALKER M I	R.L. Polk Co Publishers	Image pg. A87
	NO RETURN	R.L. Polk Co Publishers	Image pg. A87
	BRIDGE MAX R AT	R.L. Polk Co Publishers	Image pg. A87
	MOA WALTER at	R.L. Polk Co Publishers	Image pg. A87
1966	GUSTAFSON DALE P	R.L. Polk Co Publishers	Image pg. A100
	GLANDON ETHEL V AT	R.L. Polk Co Publishers	Image pg. A100
	UPHUS EVAN AT	R.L. Polk Co Publishers	Image pg. A100
	GERDEVIC ELIZ MRS AT	R.L. Polk Co Publishers	Image pg. A100
	ASHEIN ELISE	R.L. Polk Co Publishers	Image pg. A100
	MC DONALD CLIFFORD J	R.L. Polk Co Publishers	Image pg. A100
	LIBERATI QUINTIN	R.L. Polk Co Publishers	Image pg. A100
	HOPKINS GLENN H	R.L. Polk Co Publishers	Image pg. A100
	VACANT	R.L. Polk Co Publishers	Image pg. A100
	VACANT	R.L. Polk Co Publishers	Image pg. A100
	HOLCOMB EDNA M AT	R.L. Polk Co Publishers	Image pg. A100
	MERRYMAN JAMES	R.L. Polk Co Publishers	Image pg. A100
	KELLOWAY GLDRUN F MRS AT	R.L. Polk Co Publishers	Image pg. A100
	Lt USER CHRISTCPHER AT	R.L. Polk Co Publishers	Image pg. A100
	APPELL MARGT MRS	R.L. Polk Co Publishers	Image pg. A100
	FORSBERG CORA W AT	R.L. Polk Co Publishers	Image pg. A100
	MAC INTYRE JANE MRS AT	R.L. Polk Co Publishers	Image pg. A100
	JEPPSON MARY MRS AT	R.L. Polk Co Publishers	Image pg. A100
	BLAKE BONNIE	R.L. Polk Co Publishers	Image pg. A100
	VACANT	R.L. Polk Co Publishers	Image pg. A100
	HARRIS JOHN T A REV	R.L. Polk Co Publishers	Image pg. A100
	VACANT	R.L. Polk Co Publishers	Image pg. A100
	IMUS GERALD H AT 2 556 B	R.L. Polk Co Publishers	Image pg. A100
	WAITE ELON D AT	R.L. Polk Co Publishers	Image pg. A100
	SCALLY HENRY D AT	R.L. Polk Co Publishers	Image pg. A100
	BUCK INA J MRS	R.L. Polk Co Publishers	Image pg. A100
	VACANT	R.L. Polk Co Publishers	Image pg. A100
	NO RETURN	R.L. Polk Co Publishers	Image pg. A100
	WRIGHT LUCILLE AT	R.L. Polk Co Publishers	Image pg. A100
	WYATT EDITH MRS	R.L. Polk Co Publishers	Image pg. A100
VACANT	R.L. Polk Co Publishers	Image pg. A100	
ELLIOTT ROST C	R.L. Polk Co Publishers	Image pg. A100	
MC CLURE W BENTON AT	R.L. Polk Co Publishers	Image pg. A100	

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1966	SULLIVAN LUELLA B MRS AT	R.L. Polk Co Publishers	Image pg. A100	
	BRIDGE MAX R AT	R.L. Polk Co Publishers	Image pg. A100	
	MOA WALTER at	R.L. Polk Co Publishers	Image pg. A100	
	DEL ROY APARTMENTS APT BLDG	R.L. Polk Co Publishers	Image pg. A100	
	GRISWOLD KEN	R.L. Polk Co Publishers	Image pg. A100	
	VACANT	R.L. Polk Co Publishers	Image pg. A100	
	WILLIAMS IRVING J AT	R.L. Polk Co Publishers	Image pg. A100	
	CHRISTENSEN HARRY AT	R.L. Polk Co Publishers	Image pg. A100	
	VACANT	R.L. Polk Co Publishers	Image pg. A100	
	VACANT	R.L. Polk Co Publishers	Image pg. A100	
	WALKER GEC A	R.L. Polk Co Publishers	Image pg. A100	
	ARNOLD MARY MRS AT	R.L. Polk Co Publishers	Image pg. A100	
	VACANT	R.L. Polk Co Publishers	Image pg. A100	
	LOWERY WALTER	R.L. Polk Co Publishers	Image pg. A100	
	MERCHANT NORMAN AT	R.L. Polk Co Publishers	Image pg. A100	
	CRUMMY ANSEL J	R.L. Polk Co Publishers	Image pg. A100	
	VACANT	R.L. Polk Co Publishers	Image pg. A100	
	BRIDGE BERTHA MRS a AT	R.L. Polk Co Publishers	Image pg. A100	
	1960	Del Roy Apartments	R.L. Polk Co Publishers	Image pg. A110
		Neumayer N L	R.L. Polk Co Publishers	Image pg. A110
Watkins Richd H		R.L. Polk Co Publishers	Image pg. A110	
Jancuska Andrew A AT		R.L. Polk Co Publishers	Image pg. A110	
Vacant		R.L. Polk Co Publishers	Image pg. A110	
Olson Ben		R.L. Polk Co Publishers	Image pg. A110	
Lee Wilfred E A AT		R.L. Polk Co Publishers	Image pg. A110	
Mc Cabe Chas W		R.L. Polk Co Publishers	Image pg. A110	
Grennan Eliz J		R.L. Polk Co Publishers	Image pg. A110	
Schaefer Joe O A AT		R.L. Polk Co Publishers	Image pg. A110	
Murray Clinton J A AT		R.L. Polk Co Publishers	Image pg. A110	
Spadafore Anthony F A AT		R.L. Polk Co Publishers	Image pg. A110	
Sullivan Danl		R.L. Polk Co Publishers	Image pg. A110	
Bridge Bertha Mrs A AT		R.L. Polk Co Publishers	Image pg. A110	
Vacant		R.L. Polk Co Publishers	Image pg. A110	
Gleason Roy M A AT		R.L. Polk Co Publishers	Image pg. A110	
Vacant		R.L. Polk Co Publishers	Image pg. A110	
Cummins Calvin E		R.L. Polk Co Publishers	Image pg. A110	
Vacant		R.L. Polk Co Publishers	Image pg. A110	
Midk Iff Patricia M A AT		R.L. Polk Co Publishers	Image pg. A110	

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1960	Vacant	R.L. Polk Co Publishers	Image pg. A110
	Vacant	R.L. Polk Co Publishers	Image pg. A110
	Kimball Mary	R.L. Polk Co Publishers	Image pg. A110
	Smedley Roy	R.L. Polk Co Publishers	Image pg. A110
	Vacant	R.L. Polk Co Publishers	Image pg. A110
	Merrynian Jas	R.L. Polk Co Publishers	Image pg. A110
	Kelloway Gudrun P Mrs A AT	R.L. Polk Co Publishers	Image pg. A110
	Jones Norris V A AT	R.L. Polk Co Publishers	Image pg. A110
	Straeb Wm	R.L. Polk Co Publishers	Image pg. A110
	Forsberg Cora W A AT	R.L. Polk Co Publishers	Image pg. A110
	Vacant	R.L. Polk Co Publishers	Image pg. A110
	Vacant	R.L. Polk Co Publishers	Image pg. A110
	Vacant	R.L. Polk Co Publishers	Image pg. A110
	Ruffeorn Mabel N Mrs A AT	R.L. Polk Co Publishers	Image pg. A110
	Andrews Barton J A AT	R.L. Polk Co Publishers	Image pg. A110
	Vacant	R.L. Polk Co Publishers	Image pg. A110
	Gordon Sam A AT	R.L. Polk Co Publishers	Image pg. A110
	Ledbetter C Richd A AT	R.L. Polk Co Publishers	Image pg. A110
	Lanwton Alfred J A AT	R.L. Polk Co Publishers	Image pg. A110
	Davidson Donna	R.L. Polk Co Publishers	Image pg. A110
	Key Laurel E A AT	R.L. Polk Co Publishers	Image pg. A110
	Vacant	R.L. Polk Co Publishers	Image pg. A110
	Sick Albert A AT	R.L. Polk Co Publishers	Image pg. A110
	Watlien Cath H Mrs A AT	R.L. Polk Co Publishers	Image pg. A110
	Vacant	R.L. Polk Co Publishers	Image pg. A110
	Vacant	R.L. Polk Co Publishers	Image pg. A110
	Johnson Louis SN A AT	R.L. Polk Co Publishers	Image pg. A110
	Vacant	R.L. Polk Co Publishers	Image pg. A110
	Bridge M R A AT	R.L. Polk Co Publishers	Image pg. A110
	Vacant	R.L. Polk Co Publishers	Image pg. A110
1951	Del Roy Apartments	R.L. Polk Co Publishers	Image pg. A155
	Adams C N Mrs GA	R.L. Polk Co Publishers	Image pg. A155
	Appall M L Mrs AL	R.L. Polk Co Publishers	Image pg. A155
	Bearancc Portia B GA	R.L. Polk Co Publishers	Image pg. A155
	Dirge Betty J AL	R.L. Polk Co Publishers	Image pg. A155
	Bogatin Charlotte Mrs	R.L. Polk Co Publishers	Image pg. A155
	Breedlove W A GA	R.L. Polk Co Publishers	Image pg. A155
	Bridge Bertha Mrs	R.L. Polk Co Publishers	Image pg. A155

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1951	Callahan Margt M GA	R.L. Polk Co Publishers	Image pg. A155
	Chester J 1 H AL	R.L. Polk Co Publishers	Image pg. A155
	Church H A Mrs GA	R.L. Polk Co Publishers	Image pg. A155
	Colliton Margt A AL	R.L. Polk Co Publishers	Image pg. A155
	Craig Viola Mt	R.L. Polk Co Publishers	Image pg. A155
	Crutcher 12 Evelyn	R.L. Polk Co Publishers	Image pg. A155
	Dean P E 2 Mrs AL	R.L. Polk Co Publishers	Image pg. A155
	Fisher J H AL	R.L. Polk Co Publishers	Image pg. A155
	Field Margery L AL	R.L. Polk Co Publishers	Image pg. A155
	Forsberg Cora W AL	R.L. Polk Co Publishers	Image pg. A155
	Gansland I R Mrs AL	R.L. Polk Co Publishers	Image pg. A155
	Gable M M Mrs AL	R.L. Polk Co Publishers	Image pg. A155
	Gaffney Dolores B GA	R.L. Polk Co Publishers	Image pg. A155
	Gray Basil Mrs GA	R.L. Polk Co Publishers	Image pg. A155
	Hlaubrock C E 2 AL	R.L. Polk Co Publishers	Image pg. A155
	Hecker Kathryn C GA	R.L. Polk Co Publishers	Image pg. A155
	Hendrickson M A Mrs	R.L. Polk Co Publishers	Image pg. A155
	Jessen Phyllis GA 7 B	R.L. Polk Co Publishers	Image pg. A155
	Knowles L A AL	R.L. Polk Co Publishers	Image pg. A155
	Koerber Winifred Mrs	R.L. Polk Co Publishers	Image pg. A155
	Larson S D Mrs AL	R.L. Polk Co Publishers	Image pg. A155
	Lenz Violet M AL	R.L. Polk Co Publishers	Image pg. A155
	Lorenz Phyllis Mrs AL	R.L. Polk Co Publishers	Image pg. A155
	Mo Collough W H	R.L. Polk Co Publishers	Image pg. A155
	Metrokin Mary M 5 AL	R.L. Polk Co Publishers	Image pg. A155
	Meyer A WV GA	R.L. Polk Co Publishers	Image pg. A155
	Micheletto Jennie C AL	R.L. Polk Co Publishers	Image pg. A155
	Newman W L	R.L. Polk Co Publishers	Image pg. A155
	Roberts Leillian B AL	R.L. Polk Co Publishers	Image pg. A155
	Ronayns P V	R.L. Polk Co Publishers	Image pg. A155
	Rudotph L G Mrs GA	R.L. Polk Co Publishers	Image pg. A155
	Slemsek Rose B AL	R.L. Polk Co Publishers	Image pg. A155
	Small B M Mrs GA	R.L. Polk Co Publishers	Image pg. A155
	Swensen Margrethe Mrs	R.L. Polk Co Publishers	Image pg. A155
	Thurness C F AL	R.L. Polk Co Publishers	Image pg. A155
	Tremalne F P Mrs GA	R.L. Polk Co Publishers	Image pg. A155
	Wilson H B Mrs AL	R.L. Polk Co Publishers	Image pg. A155
1944	Del Roy Apartments	R. L. Polk & Co.	Image pg. A169

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1944	Bridge Bertha Mrs mgr	R. L. Polk & Co.	Image pg. A169
1940	Del Roy Apartments	R.L. Polk Co publishers	Image pg. A178
	Bridge Max Rlt mgr	R.L. Polk Co publishers	Image pg. A178
	Arnold Robt J	R.L. Polk Co publishers	Image pg. A178
	Babb Jos L	R.L. Polk Co publishers	Image pg. A178
	Barnes Louis E	R.L. Polk Co publishers	Image pg. A178
	Bartholomew Marie Mrs	R.L. Polk Co publishers	Image pg. A178
	Bearance Blanche S Mrs	R.L. Polk Co publishers	Image pg. A178
	Behner Blanche A	R.L. Polk Co publishers	Image pg. A178
	Bjorkquist Alfd	R.L. Polk Co publishers	Image pg. A178
	Brown Fred E	R.L. Polk Co publishers	Image pg. A178
	Butler Anna L Mrs	R.L. Polk Co publishers	Image pg. A178
	Lynch Sophia A Mrs	R.L. Polk Co publishers	Image pg. A179
	Martinson Vernon C	R.L. Polk Co publishers	Image pg. A179
	Miller Lena M Mrs	R.L. Polk Co publishers	Image pg. A179
	Murphy L J	R.L. Polk Co publishers	Image pg. A179
	Preston Dani	R.L. Polk Co publishers	Image pg. A179
	Rehnstrom David E	R.L. Polk Co publishers	Image pg. A179
	Roell Paul R	R.L. Polk Co publishers	Image pg. A179
	Rounds Jess J	R.L. Polk Co publishers	Image pg. A179
	Seim Mamie D Mrs drsmkr	R.L. Polk Co publishers	Image pg. A179
	Shanahan Winfred C	R.L. Polk Co publishers	Image pg. A179
	Shelly G Philip	R.L. Polk Co publishers	Image pg. A179
	Stanley Maude E Mrs	R.L. Polk Co publishers	Image pg. A179
	Stewart Herbert M	R.L. Polk Co publishers	Image pg. A179
	Volk Josephine Mrs	R.L. Polk Co publishers	Image pg. A179
	Wilhelmsen Laura S	R.L. Polk Co publishers	Image pg. A179
	Williams Benj W	R.L. Polk Co publishers	Image pg. A179
	Collar Gleneth F	R.L. Polk Co publishers	Image pg. A178
	Copeland Minnie S Mrs	R.L. Polk Co publishers	Image pg. A178
	Eich Hollis	R.L. Polk Co publishers	Image pg. A178
	Eustace Josephine M Mrs	R.L. Polk Co publishers	Image pg. A178
	Ford Eliz Mrs	R.L. Polk Co publishers	Image pg. A178
	Ford Eliz Mrs	R.L. Polk Co publishers	Image pg. A179
	Gallagher Francis	R.L. Polk Co publishers	Image pg. A179
	George Letitia M Mrs	R.L. Polk Co publishers	Image pg. A179
	Hansen Jas R	R.L. Polk Co publishers	Image pg. A179
	Hardy Edith V Mrs	R.L. Polk Co publishers	Image pg. A179

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Holtz Marie G Mrs	R.L. Polk Co publishers	Image pg. A179
	Humphreyville Jean	R.L. Polk Co publishers	Image pg. A179
	Jensen Jens H	R.L. Polk Co publishers	Image pg. A179
	Johnson Helen R	R.L. Polk Co publishers	Image pg. A179
	Johnson Russell L	R.L. Polk Co publishers	Image pg. A179
	Koerber Geo W	R.L. Polk Co publishers	Image pg. A179
	Kurus Harry M	R.L. Polk Co publishers	Image pg. A179
	Lanyon Albert H	R.L. Polk Co publishers	Image pg. A179
	Lindsey Van	R.L. Polk Co publishers	Image pg. A179
1935	Livengood Ernest	R.L. Polk Co publishers	Image pg. A179
	Burris Vernon engr Jensen & Nielsen h	R.L. Polk Co Publishers	
	Cofield E Bug C Martha S mech AACorp h	R.L. Polk Co Publishers	
	Dallin Guy L Edith welder TDD h	R.L. Polk Co Publishers	
	Goring Cecil H Lucie M mflwkr h	R.L. Polk Co Publishers	
	HESSE Lyle C Dorothy clk BPICo h	R.L. Polk Co Publishers	
	Love Edw J Mildred A slsmn Mc Kales h	R.L. Polk Co Publishers	
1930	Sergi Jos Anne driver P K Fruit Co h	R.L. Polk Co Publishers	
	w Wm J Vera A mech BACo h	R.L. Polk Co Publishers	
	Hughlen L H inspr City Eng r	R.L. Polk Co Publishers	
	IVEY Saml E janitor h	R.L. Polk Co Publishers	
	JENSEN Beatrice E Mrs clk r	R.L. Polk Co Publishers	
	Kaye John C Florence A slsmn h	R.L. Polk Co Publishers	
	apt 201	R.L. Polk Co Publishers	
	Morby Lee candymkr Mc Grath Candy Co r	R.L. Polk Co Publishers	
	MOYER	R.L. Polk Co Publishers	
	Elliot A Bessie musician h	R.L. Polk Co Publishers	
	apt 403	R.L. Polk Co Publishers	
	Harry W Martha B mech h	R.L. Polk Co Publishers	
	MUDGETT	R.L. Polk Co Publishers	
	apt 301	R.L. Polk Co Publishers	
	MUDGETT Marilla B wid Chas A house mother	R.L. Polk Co Publishers	
Pangle Fern M bkpr Hood Rubber Products Co r	R.L. Polk Co Publishers		
Paschal Jas E Lucy R mech SMCo h	R.L. Polk Co Publishers		
apt 304	R.L. Polk Co Publishers		
Randolph Wm Amy T dept mgr Mailliard & Schmiedell h	R.L. Polk Co Publishers		
Rydeen Randall E clk Swift & Co r	R.L. Polk Co Publishers		

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	apt 108	R.L. Polk Co Publishers
	Sadler Jessie N sten UOCo r	R.L. Polk Co Publishers
	Shanahan Winfred C Irene E prsr h	R.L. Polk Co Publishers
	WARD Walter J Lucy A lab h	R.L. Polk Co Publishers
	apt 109	R.L. Polk Co Publishers
	Weber Anne F r	R.L. Polk Co Publishers
	WOOD Ruth L bkpr NWLCo r	R.L. Polk Co Publishers
	ADAMS Edith M clk T C Peebler r	R.L. Polk Co Publishers
	apt 211	R.L. Polk Co Publishers
	Adams Wm ship clk L BM&GCo r	R.L. Polk Co Publishers
	Connor Kathleen M elk Pros Atty r	R.L. Polk Co Publishers
	apt 311	R.L. Polk Co Publishers
	Cranford Maud cash A&K r	R.L. Polk Co Publishers
1925	Del Roy Apartments Chas E ONeil mgr	R.L. Polk Co Publishers
	Holzemer Jacob L Ruth S slsmn AOCo	R.L. Polk Co Publishers
	Butt Fred Jennie V firemn	R.L. Polk Co Publishers
	Butters Franklin W Clara H watchmn	R.L. Polk Co Publishers
	Clarke Inc	R.L. Polk Co Publishers
	Comnr J Frank Ruth C asst chf clk ARECo	R.L. Polk Co Publishers
	clnr	R.L. Polk Co Publishers
	Deguchi M Ichi mgr Amelia Apts h l	R.L. Polk Co Publishers
	Del Roy Apartments	R.L. Polk Co Publishers
	Dorks Albt L Frances B cannery supt NWFCo	R.L. Polk Co Publishers
	Halter Kathryn E	R.L. Polk Co Publishers
	Hansen Emil musician	R.L. Polk Co Publishers
	HAYNES Mary G Mrs clk G RCo	R.L. Polk Co Publishers
	Holtz Marie slswn F&N	R.L. Polk Co Publishers
	Huglen Alme Ella cannery supt	R.L. Polk Co Publishers
	Huglen Lars H Anna insp City Eng h 110	R.L. Polk Co Publishers
	Leggitt Margt A wid Guy L sten General Motors Truck Co	R.L. Polk Co Publishers
Leininger Hortense Mrs	R.L. Polk Co Publishers	
Logan Elizab wid Leander	R.L. Polk Co Publishers	
Mc Frank S Hazel L foremn City Lighi Dept	R.L. Polk Co Publishers	
Minneker Emma wid G W candy plr	R.L. Polk Co Publishers	
Minneker Lyman F clk	R.L. Polk Co Publishers	
Minnig Etta tchr Van Asselt Sch	R.L. Polk Co Publishers	
Mollenhauer J F adv F&KCo r	R.L. Polk Co Publishers	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	MORRIS Eileen M slswn F&N	R.L. Polk Co Publishers
	MORRIS Patk H Julia	R.L. Polk Co Publishers
	Murning Etta	R.L. Polk Co Publishers
	Perring Ray A Lela H clk ARECo	R.L. Polk Co Publishers
	Roberts Bert Genevieve pntr h	R.L. Polk Co Publishers
	Cath dept mgr MD&SCo r	R.L. Polk Co Publishers
	Shively Hannah wid Saml A	R.L. Polk Co Publishers
	Talley Elvin L Valeria dept mgr SFCo	R.L. Polk Co Publishers
	Turpel Geo H Isabell C chauf	R.L. Polk Co Publishers
	WALKER Ralph A Mildred E phys	R.L. Polk Co Publishers
	Co	R.L. Polk Co Publishers
	Walter Peter r	R.L. Polk Co Publishers
	Thos A mech	R.L. Polk Co Publishers
	West Adelyna L Mrs slswn	R.L. Polk Co Publishers
WILLIAMSON Harold W Marguerite S riveter h 108	R.L. Polk Co Publishers	
1920	Buttern	R.L. Polk Co Publishers
	Damon Dorothy clk Mac DSCo r	R.L. Polk Co Publishers
	DAVIS Irene E Mrs sec Seattle Fine Arts Society h	R.L. Polk Co Publishers
	De	R.L. Polk Co Publishers
	Dorman Harriett T wid Philip R tchr h 409	R.L. Polk Co Publishers
	Eaton	R.L. Polk Co Publishers
	EWING Edwin M salsn Gray Bros Co h 411	R.L. Polk Co Publishers
	Felt Harry B r	R.L. Polk Co Publishers
	GAILOWAY Edith C Mrs h	R.L. Polk Co Publishers
	Hungerford Howard H Edith A fishl pkr h 105	R.L. Polk Co Publishers
	Marmion A E Mrs r	R.L. Polk Co Publishers
	Neuharth	R.L. Polk Co Publishers
	PERKINS Harry A dept mgr F&N r	R.L. Polk Co Publishers
	Reneau	R.L. Polk Co Publishers
	ROOT Myers Tillie fruits and vegetables 116	R.L. Polk Co Publishers
	Westlake Mkt h	R.L. Polk Co Publishers
	THOMPSON Herbert salsn r	R.L. Polk Co Publishers
	THOMPSON Wm H fireman r	R.L. Polk Co Publishers
WHEEIER Isabelle elk r	R.L. Polk Co Publishers	
BAXta L r	R.L. Polk Co Publishers	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Bender Chas H Lucile Bender & Yeoman h	R.L. Polk Co Publishers
	Bolt Forest hairdresser r	R.L. Polk Co Publishers
	Breitwieser	R.L. Polk Co Publishers

### 31 W ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1980	1 SBichner Chas	R.L. Polk Co. Publishers	Image pg. A65

### 70 W ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1980	Iggins	R.L. Polk Co. Publishers	Image pg. A65

### 83 W ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	mwl S 5 Buckingham J E	R.L. Polk Co. Publishers	Image pg. A23
	Zumbrno Mitchell	R.L. Polk Co. Publishers	Image pg. A23
	Carsson Gualar :	R.L. Polk Co. Publishers	Image pg. A23
	Canrlaon Karen	R.L. Polk Co. Publishers	Image pg. A23
	Casey Pat	R.L. Polk Co. Publishers	Image pg. A23
	Cobuon I Mrcel	R.L. Polk Co. Publishers	Image pg. A23
	Connell Frank E	R.L. Polk Co. Publishers	Image pg. A23
	Carper K	R.L. Polk Co. Publishers	Image pg. A23
	Cormier Theam A	R.L. Polk Co. Publishers	Image pg. A23
	Damb rg L C	R.L. Polk Co. Publishers	Image pg. A23
	Davidson Ardraw	R.L. Polk Co. Publishers	Image pg. A23
	Drew Se Dull cy Site 8 60 C	R.L. Polk Co. Publishers	Image pg. A23
	Egge R L	R.L. Polk Co. Publishers	Image pg. A23
	Furay L J	R.L. Polk Co. Publishers	Image pg. A23
	Gloven Jim	R.L. Polk Co. Publishers	Image pg. A23
	Graham B	R.L. Polk Co. Publishers	Image pg. A23
	Grafo Sid	R.L. Polk Co. Publishers	Image pg. A23
	H rrington Shanoon	R.L. Polk Co. Publishers	Image pg. A23
	Hall Tery	R.L. Polk Co. Publishers	Image pg. A23
	Horner Tad	R.L. Polk Co. Publishers	Image pg. A23
	I ksoke S	R.L. Polk Co. Publishers	Image pg. A23
	Johnson Prankiin	R.L. Polk Co. Publishers	Image pg. A23
	Johnson Sootn s	R.L. Polk Co. Publishers	Image pg. A23
	Km Jung B	R.L. Polk Co. Publishers	Image pg. A23
	Klutorer 0 p	R.L. Polk Co. Publishers	Image pg. A23

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	Le netl Aleander	R.L. Polk Co. Publishers	Image pg. A23
	Levinson L S	R.L. Polk Co. Publishers	Image pg. A23
	Moodoald Bruos	R.L. Polk Co. Publishers	Image pg. A23
	M s Miche Mayer Bryan 3860 COZ	R.L. Polk Co. Publishers	Image pg. A23
	Mayer Vicke	R.L. Polk Co. Publishers	Image pg. A23
	Neumann Br an K	R.L. Polk Co. Publishers	Image pg. A23
	Ohrbeck T W	R.L. Polk Co. Publishers	Image pg. A23
	Pearson Williomm	R.L. Polk Co. Publishers	Image pg. A23
	Phill Sp Bryan	R.L. Polk Co. Publishers	Image pg. A23
	Rybal Mark	R.L. Polk Co. Publishers	Image pg. A23
	Russell Slepnen	R.L. Polk Co. Publishers	Image pg. A23
	Sicrah Jennlfer	R.L. Polk Co. Publishers	Image pg. A23
	Smith John A Jr	R.L. Polk Co. Publishers	Image pg. A23
	Sengawailer Pau	R.L. Polk Co. Publishers	Image pg. A23
	Thang L W	R.L. Polk Co. Publishers	Image pg. A23
	Tilden Toninn	R.L. Polk Co. Publishers	Image pg. A23
	Vening Frank L	R.L. Polk Co. Publishers	Image pg. A23
	Williams	R.L. Polk Co. Publishers	Image pg. A23
	Wils E	R.L. Polk Co. Publishers	Image pg. A23
	Yackar Howard L	R.L. Polk Co. Publishers	Image pg. A23
	Yamaguohi C	R.L. Polk Co. Publishers	Image pg. A23
	Zambrano Barbra	R.L. Polk Co. Publishers	Image pg. A23
	Caldermood Jo M	R.L. Polk Co. Publishers	Image pg. A23

### W Roy St

#### 100 W Roy St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	ON THE BOARDS	EDR Digital Archive
	ON THE BOARDS QUEEN ANNE HALL	EDR Digital Archive
2010	ON THE BOARDS	EDR Digital Archive

### W ROY ST

#### 100 W ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1996	A CONTEMPORARY	R.L. Polk Co. Publishers	Image pg. A23
	THEATRE	R.L. Polk Co. Publishers	Image pg. A23
1990	Act A Contemporary Theatre Inc	R.L. Polk Co. Publishers	Image pg. A37

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1986	Act A Contemporary Theatre Inc	R.L. Polk Co. Publishers	Image pg. A49
1980	A Contemporary Theatre Inc	R.L. Polk Co. Publishers	Image pg. A65
1975	Project Mainstay elder care aerv	R.L. Polk Co. Publishers	Image pg. A77
1970	CHEADLE THOMPSON DESIGN INC	R.L. Polk Co Publishers	Image pg. A87
	INT DEC ATS 1000	R.L. Polk Co Publishers	Image pg. A87
1966	VACANT	R.L. Polk Co Publishers	Image pg. A100
1960	Wohls Fine Foods gro A AT	R.L. Polk Co Publishers	Image pg. A110
1955	Wongs Finlle Foods gro	R.L. Polk Co Publishers	Image pg. A140
1951	Wangs Gre	R.L. Polk Co Publishers	Image pg. A153
1944	Ericksons Prlce Rite Gro	R. L. Polk & Co.	Image pg. A169
1940	Ericksons Price Rite Gro	R.L. Polk Co publishers	Image pg. A177
1930	Roy Street Pharmacy Geo R Fields 620	R.L. Polk Co Publishers	
	Roy Street Grocery & Market T W Frost	R.L. Polk Co Publishers	
1920	GEORGE Peter lab r	R.L. Polk Co Publishers	

### 101 W ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1986	Sullivan D	R.L. Polk Co. Publishers	Image pg. A49
1980	No Return	R.L. Polk Co. Publishers	Image pg. A65

### W Roy St

#### 102 W Roy St

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2014	ELECTRIC GEISHA LLC	EDR Digital Archive	
	SOMELAB DESIGN	EDR Digital Archive	
2010	SOMELAB DESIGN	EDR Digital Archive	

### W ROY ST

#### 102 W ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	02 Galen Lowe Art & Antiques	Cole Information Services	Image pg. A9
1986	Lawrence Sally	R.L. Polk Co. Publishers	Image pg. A49
1980	admn ofr	R.L. Polk Co. Publishers	Image pg. A65
	A Contemporary Theatre Ic 4 Addl Space	R.L. Polk Co. Publishers	Image pg. A65
	Antonich Wm J	R.L. Polk Co. Publishers	Image pg. A65
1975	Vacant	R.L. Polk Co. Publishers	Image pg. A77
1970	CO FIRE APPARATUS 6 SUPS AT	R.L. Polk Co Publishers	Image pg. A87
	BANGASSER & ASSOCIATES INC	R.L. Polk Co Publishers	Image pg. A87

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1970	COML BUSINESS MANAGEMENT AT FIRE EXTINGUISHER SERVICE	R.L. Polk Co Publishers	Image pg. A87
		R.L. Polk Co Publishers	Image pg. A87
1966	VACANT	R.L. Polk Co Publishers	Image pg. A100
1960	Vacant	R.L. Polk Co Publishers	Image pg. A110
1955	Heun Upholstery	R.L. Polk Co Publishers	Image pg. A140
1951	Queen Anne Pharmacy	R.L. Polk Co Publishers	Image pg. A153
1944	SIngletosi Joe L	R. L. Polk & Co.	Image pg. A169
	Queen Anne Drug Store	R. L. Polk & Co.	Image pg. A169
1940	Singleton Joe L drugs	R.L. Polk Co publishers	Image pg. A177

### 103 W ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	ARAnderson	Cole Information Services	Image pg. A9
1986	Hanhardt Arth	R.L. Polk Co. Publishers	Image pg. A49
1980	Armour Dewayne F	R.L. Polk Co. Publishers	Image pg. A65
	Glnn Rodne A	R.L. Polk Co. Publishers	Image pg. A65

### W Roy St

#### 104 W Roy St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	CRANE GALLERY THE INC	EDR Digital Archive
	J L OROURKE LTD	EDR Digital Archive
2010	J L OROURKE LTD	EDR Digital Archive
	CRANE GALLERY THE INC	EDR Digital Archive

### W ROY ST

#### 104 W ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Crane Gallery Inc	Cole Information Services	Image pg. A9
1986	Quinn C	R.L. Polk Co. Publishers	Image pg. A49
1980	Romoser N C	R.L. Polk Co. Publishers	Image pg. A65
	Magnolia News newspaper	R.L. Polk Co. Publishers	Image pg. A65
	Recreation & Mobile Home News newspaper	R.L. Polk Co. Publishers	Image pg. A65
1975	Mobile Home & Recreation News newspaper	R.L. Polk Co. Publishers	Image pg. A77
	Queen Anne News Inc	R.L. Polk Co. Publishers	Image pg. A77
	Magnolia News newspaper	R.L. Polk Co. Publishers	Image pg. A77

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1970	VACANT	R.L. Polk Co Publishers	Image pg. A87
1966	VACANT	R.L. Polk Co Publishers	Image pg. A100
1951	West Roy Street Lndy	R.L. Polk Co Publishers	Image pg. A153
1944	Vadnals Ilanche Mrs	R. L. Polk & Co.	Image pg. A169
	mens cdo	R. L. Polk & Co.	Image pg. A169
1940	Emmanuels Inc rug clnrs	R.L. Polk Co publishers	Image pg. A177

### 105 W ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Chiyeko I Watanabe	Cole Information Services	Image pg. A9
	W 304 Nanyv Wahl	Cole Information Services	Image pg. A9
	Tracey SBorgardt	Cole Information Services	Image pg. A9
	W 201 Mary M Boyn	Cole Information Services	Image pg. A9
	W 201 Pollard ki o	Cole Information Services	Image pg. A9
	W 405 Lois J Cade 95 509 763 320 E	Cole Information Services	Image pg. A9
	W 405 Lois J Cade	Cole Information Services	Image pg. A9
	Huber Cooney	Cole Information Services	Image pg. A9
	MW 307 Drake Analytics Inc	Cole Information Services	Image pg. A9
	Jeanne EEaston	Cole Information Services	Image pg. A9
	OElizabeth Jeanne Eaton	Cole Information Services	Image pg. A9
	W 307 Emnest Frederick	Cole Information Services	Image pg. A9
	W 307 Gul In D Frederick	Cole Information Services	Image pg. A9
	W 1 07 OJoy J Golliver	Cole Information Services	Image pg. A9
	Wi 07 ORobert J Goiliver	Cole Information Services	Image pg. A9
	Ailison BHil	Cole Information Services	Image pg. A9
	W 202 OMararet S Hill	Cole Information Services	Image pg. A9
	Ray Hoekstra	Cole Information Services	Image pg. A9
	W 203 Kate Irvine	Cole Information Services	Image pg. A9
	W 404 Caryl AJones	Cole Information Services	Image pg. A9
	Yong Hui Jordt	Cole Information Services	Image pg. A9
	W 105 Jennifer Rose Kandzor	Cole Information Services	Image pg. A9
	W 105 Terrence JKandzor	Cole Information Services	Image pg. A9
	Richard RKyle	Cole Information Services	Image pg. A9
	OAnita C Lontley	Cole Information Services	Image pg. A9
	W 209 Michael L Mc Manus	Cole Information Services	Image pg. A9
	W 205 Kime Nakamura	Cole Information Services	Image pg. A9
	W 104 Uoyd C Nintzel	Cole Information Services	Image pg. A9
	W 101 C Olson	Cole Information Services	Image pg. A9
	W 101 FOlson	Cole Information Services	Image pg. A9

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	+Allan Panitch	Cole Information Services	Image pg. A9
	W 106 Steven N Pearson	Cole Information Services	Image pg. A9
	W 402 OSylvia G Peckham	Cole Information Services	Image pg. A9
	W 103 Julio L Peixoto	Cole Information Services	Image pg. A9
	W 403 Janis W Peterson	Cole Information Services	Image pg. A9
	W 403 Wes N Peterson	Cole Information Services	Image pg. A9
	Brackett Sanders	Cole Information Services	Image pg. A9
	Dolores L Sanders	Cole Information Services	Image pg. A9
	Carol J Schankel	Cole Information Services	Image pg. A9
	Delhert M Schankel	Cole Information Services	Image pg. A9
	Stephanie Scheiner	Cole Information Services	Image pg. A9
	W 207 0 Fred H Schuet	Cole Information Services	Image pg. A9
	W 306 Jochen Seller	Cole Information Services	Image pg. A9
	W 207 0 Lolita M Shuett	Cole Information Services	Image pg. A9
	W 308 0 Gary F Skinner	Cole Information Services	Image pg. A9
	W 308 0 Janet M Skinner	Cole Information Services	Image pg. A9
	W 204 Sharron WSmith	Cole Information Services	Image pg. A9
	W 204 Willam 0 Smith W 302 Barbara L Sweet	Cole Information Services	Image pg. A9
	W 401 0 Ann Y Tamura	Cole Information Services	Image pg. A9
	Sleven Taylor	Cole Information Services	Image pg. A9
	W 304 David C Wahl	Cole Information Services	Image pg. A9
	W 209 Maryjan J Whlte	Cole Information Services	Image pg. A9
1986	Lytikainen Peter L	R.L. Polk Co. Publishers	Image pg. A49
1980	Lytikainen P	R.L. Polk Co. Publishers	Image pg. A65

### 106 W ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Ronald Goldberg Atty	Cole Information Services	Image pg. A9
1986	Dever Jas	R.L. Polk Co. Publishers	Image pg. A49
1980	Schick K	R.L. Polk Co. Publishers	Image pg. A65
1966	VACANT	R.L. Polk Co Publishers	Image pg. A100
1940	Vacant	R.L. Polk Co publishers	Image pg. A177
1925	Vilter Mfg Co Inc The J Duttenhoefer dist mngr ice making and refrigerating mchy	R.L. Polk Co Publishers	

### 107 W ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1986	Kelley L	R.L. Polk Co. Publishers	Image pg. A49
1980	Olson N H	R.L. Polk Co. Publishers	Image pg. A65

## FINDINGS

### W Roy St

#### 108 W Roy St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	SITTING ROOM	EDR Digital Archive
2010	SITTING ROOM	EDR Digital Archive

### W ROY ST

#### 108 W ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	The Sitting Room	Cole Information Services	Image pg. A9
1986	Hambly David	R.L. Polk Co. Publishers	Image pg. A49
1980	Hambly David	R.L. Polk Co. Publishers	Image pg. A65
	A C T storage	R.L. Polk Co. Publishers	Image pg. A65

#### 109 W ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1986	Leavell	R.L. Polk Co. Publishers	Image pg. A49
1980	Eadie D M	R.L. Polk Co. Publishers	Image pg. A65

#### 110 W ROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1986	Edwards Christopher	R.L. Polk Co. Publishers	Image pg. A49
1980	Crummy Ansel J	R.L. Polk Co. Publishers	Image pg. A65
1944	Freeberg Wm mgr	R. L. Polk & Co.	Image pg. A169
	Chandler Hall Apartments	R. L. Polk & Co.	Image pg. A169
1940	cream mfrs	R.L. Polk Co publishers	Image pg. A177
	Rich Maid Creamery ice	R.L. Polk Co publishers	Image pg. A177
1925	WASHINGTON Staatszeitung Martin Dudel editor Seattle Printing & Publishing Co Inc pubirs	R.L. Polk Co Publishers	
	zeitung	R.L. Polk Co Publishers	
	SEATTLE Press Club W J Petrain sec	R.L. Polk Co Publishers	

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1986	Venables Paul	R.L. Polk Co. Publishers	Image pg. A49
1980	Var ant	R.L. Polk Co. Publishers	Image pg. A65

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1986	Safoles Jim	R.L. Polk Co. Publishers	Image pg. A49
1980	Bridge Herbert L	R.L. Polk Co. Publishers	Image pg. A65
1975	A Contemporary Theatre Inc	R.L. Polk Co. Publishers	Image pg. A77
1970	A CONTEMPORARY THEATRE INC AT	R.L. Polk Co Publishers	Image pg. A87
1966	PENGRA RICHD G MFRS AGT AT	R.L. Polk Co Publishers	Image pg. A100
	ALTA CO MDSE BROKERS AT	R.L. Polk Co Publishers	Image pg. A100
1960	Alta Co Inc mdsa brokers A AT	R.L. Polk Co Publishers	Image pg. A110
1955	Alta Co Inc mdse whol	R.L. Polk Co Publishers	Image pg. A140
1951	Vacant	R.L. Polk Co Publishers	Image pg. A153
1944	Fashion Linen & Towel Supply	R. L. Polk & Co. R. L. Polk & Co.	Image pg. A169 Image pg. A169
1940	No 2 confrs Rich Maid Dairy Store	R.L. Polk Co publishers R.L. Polk Co publishers	Image pg. A177 Image pg. A177

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1925	Co Ruth E mrnlr r	R.L. Polk Co Publishers

### W Roy St

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<u>Year</u>	<u>Uses</u>	<u>Source</u>
2014	WOODLAND REALTY SERVICE INC	EDR Digital Archive
	MAKEUP MAGIC	EDR Digital Archive
2010	MAKEUP MAGIC	EDR Digital Archive
	PK GRAPHIC	EDR Digital Archive
	BRUCE SCOTT	EDR Digital Archive
	WOODLAND REALTY SERVICE INC	EDR Digital Archive
	LEVATOR MUSIC	EDR Digital Archive

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2005	Laura Lca	Cole Information Services	Image pg. A9
	Em Ily ELublnakl	Cole Information Services	Image pg. A9
	CMagulre	Cole Information Services	Image pg. A9
	Steven S Mahomey	Cole Information Services	Image pg. A9

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
2005	Alden Mason	Cole Information Services	Image pg. A9
	Jennifer LMorey	Cole Information Services	Image pg. A9
	Jess C Moultry	Cole Information Services	Image pg. A9
	Chelsea Ofstedaht	Cole Information Services	Image pg. A9
	Bdan JPake	Cole Information Services	Image pg. A9
	Jennifer JPalackl	Cole Information Services	Image pg. A9
	Michael PetrIschack	Cole Information Services	Image pg. A9
	Pk Graphic	Cole Information Services	Image pg. A9
	Donna JRavndal	Cole Information Services	Image pg. A9
	Chrls Reay	Cole Information Services	Image pg. A9
	Danlela Resh	Cole Information Services	Image pg. A9
	Frank Rottler	Cole Information Services	Image pg. A9
	Roy Smoke Plus	Cole Information Services	Image pg. A9
	Stan ARuth	Cole Information Services	Image pg. A9
	Joshunda Sanders	Cole Information Services	Image pg. A9
	Chr Ist Ine Marle Saunders	Cole Information Services	Image pg. A9
	M Saunders	Cole Information Services	Image pg. A9
	Elesha Sawyer	Cole Information Services	Image pg. A9
	Sirlpen Thllompson	Cole Information Services	Image pg. A9
	Krdsten Truax	Cole Information Services	Image pg. A9
	Shannon Truax	Cole Information Services	Image pg. A9
	Willam BTrueheartt	Cole Information Services	Image pg. A9
	Greg Young	Cole Information Services	Image pg. A9
	Tabitha Burton	Cole Information Services	Image pg. A9
	Llsa Chemoff	Cole Information Services	Image pg. A9
	Colln CChock	Cole Information Services	Image pg. A9
	Heldl Chock	Cole Information Services	Image pg. A9
	Rebecca Davidson	Cole Information Services	Image pg. A9
	Brlan JDunham	Cole Information Services	Image pg. A9
	Glenn P Erlickson	Cole Information Services	Image pg. A9
	Brittany L Foley	Cole Information Services	Image pg. A9
	Carey Gagnon	Cole Information Services	Image pg. A9
	Amy Gamble	Cole Information Services	Image pg. A9
	Sean Haney	Cole Information Services	Image pg. A9
	Gabrel Hollans	Cole Information Services	Image pg. A9
	Geralanne Holslne	Cole Information Services	Image pg. A9
	Masaelkeda	Cole Information Services	Image pg. A9
	Mieko Ikeda	Cole Information Services	Image pg. A9

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2005	Charity BJeffery	Cole Information Services	Image pg. A9
	HJohnson	Cole Information Services	Image pg. A9
	Jill Johnson	Cole Information Services	Image pg. A9
	Katja Petrasoheck	Cole Information Services	Image pg. A9
	Emi Ty Knoblock	Cole Information Services	Image pg. A9
	Paul EKragt	Cole Information Services	Image pg. A9
	Dana M Larson	Cole Information Services	Image pg. A9
	building	Cole Information Services	Image pg. A9
	AUas Bookkeeping Service Uc	Cole Information Services	Image pg. A9
	Kmberly E Baker f	Cole Information Services	Image pg. A9
Tim Braxmeyer	Cole Information Services	Image pg. A9	
1996	Cherbonne KBuster L Coo Daniel 84 C	R.L. Polk Co. Publishers	Image pg. A23
	Darling Michael J	R.L. Polk Co. Publishers	Image pg. A23
	FPrshey S	R.L. Polk Co. Publishers	Image pg. A23
	Fosburgh Edo	R.L. Polk Co. Publishers	Image pg. A23
	Gaul Terry	R.L. Polk Co. Publishers	Image pg. A23
	Grave Stave	R.L. Polk Co. Publishers	Image pg. A23
	Grobohong Un	R.L. Polk Co. Publishers	Image pg. A23
	Halpin David M	R.L. Polk Co. Publishers	Image pg. A23
	Harknesa M J	R.L. Polk Co. Publishers	Image pg. A23
	Henneasy Lauren K	R.L. Polk Co. Publishers	Image pg. A23
	Henoc D	R.L. Polk Co. Publishers	Image pg. A23
	Hll Stl	R.L. Polk Co. Publishers	Image pg. A23
	Him Jennifer B	R.L. Polk Co. Publishers	Image pg. A23
	Jonas Roy	R.L. Polk Co. Publishers	Image pg. A23
	Kaplan Ma	R.L. Polk Co. Publishers	Image pg. A23
	Kramer Kathleen	R.L. Polk Co. Publishers	Image pg. A23
	Lee Edoa L	R.L. Polk Co. Publishers	Image pg. A23
	Loude r	R.L. Polk Co. Publishers	Image pg. A23
	Maiher Even	R.L. Polk Co. Publishers	Image pg. A23
	Mo Elyrn A L	R.L. Polk Co. Publishers	Image pg. A23
	Mo Nelf Seen	R.L. Polk Co. Publishers	Image pg. A23
	Mess Ing Duane	R.L. Polk Co. Publishers	Image pg. A23
	MBernthal JUI V	R.L. Polk Co. Publishers	Image pg. A23
	Moquhn Marc R	R.L. Polk Co. Publishers	Image pg. A23
	Malenrall Erik	R.L. Polk Co. Publishers	Image pg. A23
	Poded Mike R 6 84 C	R.L. Polk Co. Publishers	Image pg. A23
Poder Ste 4	R.L. Polk Co. Publishers	Image pg. A23	

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1996	Reed Jeal C	R.L. Polk Co. Publishers	Image pg. A23
	ROtchie S	R.L. Polk Co. Publishers	Image pg. A23
	Sandberg K	R.L. Polk Co. Publishers	Image pg. A23
	S urkblr Jodi	R.L. Polk Co. Publishers	Image pg. A23
	We N os H C	R.L. Polk Co. Publishers	Image pg. A23
	Waler Susan	R.L. Polk Co. Publishers	Image pg. A23
	Waters J	R.L. Polk Co. Publishers	Image pg. A23
	Walsbe Ka uh	R.L. Polk Co. Publishers	Image pg. A23
	Yoahida Shige	R.L. Polk Co. Publishers	Image pg. A23
	Young Jennifer	R.L. Polk Co. Publishers	Image pg. A23
	Zylatla Brook	R.L. Polk Co. Publishers	Image pg. A23
	Armetrong James	R.L. Polk Co. Publishers	Image pg. A23
	Babler S	R.L. Polk Co. Publishers	Image pg. A23
	Bacon Larry	R.L. Polk Co. Publishers	Image pg. A23
	Bacon Larry L	R.L. Polk Co. Publishers	Image pg. A23
	Bi P Nch	R.L. Polk Co. Publishers	Image pg. A23
	Etonner M	R.L. Polk Co. Publishers	Image pg. A23
	Ownjn M I	R.L. Polk Co. Publishers	Image pg. A23
	Bujold Stephen	R.L. Polk Co. Publishers	Image pg. A23
	1990	Duncan E	R.L. Polk Co. Publishers
Vacant		R.L. Polk Co. Publishers	Image pg. A37
Dorais David		R.L. Polk Co. Publishers	Image pg. A37
Bird Steven		R.L. Polk Co. Publishers	Image pg. A37
Bautista J		R.L. Polk Co. Publishers	Image pg. A37
Roberts C		R.L. Polk Co. Publishers	Image pg. A37
Fischer P		R.L. Polk Co. Publishers	Image pg. A37
Vacant		R.L. Polk Co. Publishers	Image pg. A37
Romanus P		R.L. Polk Co. Publishers	Image pg. A37
La Combe K		R.L. Polk Co. Publishers	Image pg. A37
Hughes S		R.L. Polk Co. Publishers	Image pg. A37
Marion M		R.L. Polk Co. Publishers	Image pg. A37
Ferguson A		R.L. Polk Co. Publishers	Image pg. A37
Brumeir B		R.L. Polk Co. Publishers	Image pg. A37
Bruntlett V		R.L. Polk Co. Publishers	Image pg. A37
Oppelt M		R.L. Polk Co. Publishers	Image pg. A37
White Roland J		R.L. Polk Co. Publishers	Image pg. A37
Barrell Patk		R.L. Polk Co. Publishers	Image pg. A37
Kringer G	R.L. Polk Co. Publishers	Image pg. A37	

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1990	Ellis L	R.L. Polk Co. Publishers	Image pg. A37
	Rodriguez F	R.L. Polk Co. Publishers	Image pg. A37
	Gluaber K	R.L. Polk Co. Publishers	Image pg. A37
	Chandler Hall Apartments	R.L. Polk Co. Publishers	Image pg. A37
	Vacant	R.L. Polk Co. Publishers	Image pg. A37
	Kunimoto Larry	R.L. Polk Co. Publishers	Image pg. A37
	Oertli P	R.L. Polk Co. Publishers	Image pg. A37
	Bacon Larry	R.L. Polk Co. Publishers	Image pg. A37
	Robbin Patric	R.L. Polk Co. Publishers	Image pg. A37
	Williams J	R.L. Polk Co. Publishers	Image pg. A37
	King M	R.L. Polk Co. Publishers	Image pg. A37
	Barrow B	R.L. Polk Co. Publishers	Image pg. A37
	Karahash N	R.L. Polk Co. Publishers	Image pg. A37
	Vacant	R.L. Polk Co. Publishers	Image pg. A37
	Darling M	R.L. Polk Co. Publishers	Image pg. A37
	Eggebraten K	R.L. Polk Co. Publishers	Image pg. A37
	Johnson J	R.L. Polk Co. Publishers	Image pg. A37
	Souve A	R.L. Polk Co. Publishers	Image pg. A37
	Chaddock D	R.L. Polk Co. Publishers	Image pg. A37
	Daher Geo	R.L. Polk Co. Publishers	Image pg. A37
	Yeater	R.L. Polk Co. Publishers	Image pg. A37
	Kole E	R.L. Polk Co. Publishers	Image pg. A37
	Smith S	R.L. Polk Co. Publishers	Image pg. A37
	Tirhi Fakhru	R.L. Polk Co. Publishers	Image pg. A37
	Smith Shaun C	R.L. Polk Co. Publishers	Image pg. A37
	Norton John	R.L. Polk Co. Publishers	Image pg. A37
	Packard Dan	R.L. Polk Co. Publishers	Image pg. A37
	Corneloup Jeanne	R.L. Polk Co. Publishers	Image pg. A37
	Bagnariol Jody	R.L. Polk Co. Publishers	Image pg. A37
	Stevenson Pat	R.L. Polk Co. Publishers	Image pg. A37
	Dickson T	R.L. Polk Co. Publishers	Image pg. A37
	Lewis K	R.L. Polk Co. Publishers	Image pg. A37
	Grajeda Laura Y	R.L. Polk Co. Publishers	Image pg. A37
	Ravndal E	R.L. Polk Co. Publishers	Image pg. A37
	Mc Neil J	R.L. Polk Co. Publishers	Image pg. A37
	Parry Alice Mrs	R.L. Polk Co. Publishers	Image pg. A37
	Triplett Dave	R.L. Polk Co. Publishers	Image pg. A37
	Doyle V	R.L. Polk Co. Publishers	Image pg. A37

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1990	Cook S	R.L. Polk Co. Publishers	Image pg. A37
	Morrow Robt	R.L. Polk Co. Publishers	Image pg. A37
	Helmold Susan	R.L. Polk Co. Publishers	Image pg. A37
	Vacant	R.L. Polk Co. Publishers	Image pg. A37
	Shelby R	R.L. Polk Co. Publishers	Image pg. A37
	Hosford Dianne	R.L. Polk Co. Publishers	Image pg. A37
	Miller Jeffrey D	R.L. Polk Co. Publishers	Image pg. A37
	Smith Mark	R.L. Polk Co. Publishers	Image pg. A37
	Doyle S	R.L. Polk Co. Publishers	Image pg. A37
	Hendrixson Sandr	R.L. Polk Co. Publishers	Image pg. A37
	Bockman Amy	R.L. Polk Co. Publishers	Image pg. A37
	Mills Marie	R.L. Polk Co. Publishers	Image pg. A37
	Glenn J	R.L. Polk Co. Publishers	Image pg. A37
	Carpenter L	R.L. Polk Co. Publishers	Image pg. A37
	Warboy Ann	R.L. Polk Co. Publishers	Image pg. A37
	Amend H	R.L. Polk Co. Publishers	Image pg. A37
	Hobbs Steve	R.L. Polk Co. Publishers	Image pg. A37
	Mitchell T	R.L. Polk Co. Publishers	Image pg. A37
	Curley C	R.L. Polk Co. Publishers	Image pg. A37
	1986	Leavell Ronnie	R.L. Polk Co. Publishers
Elston Brend		R.L. Polk Co. Publishers	Image pg. A49
Gaudalupe		R.L. Polk Co. Publishers	Image pg. A49
Souve A		R.L. Polk Co. Publishers	Image pg. A49
Honeyman Mark L		R.L. Polk Co. Publishers	Image pg. A49
Higashiyama		R.L. Polk Co. Publishers	Image pg. A49
Kern J J		R.L. Polk Co. Publishers	Image pg. A49
Valladao M		R.L. Polk Co. Publishers	Image pg. A49
Warshaw Sheldon		R.L. Polk Co. Publishers	Image pg. A49
Cross T		R.L. Polk Co. Publishers	Image pg. A49
Hudspeth Shel		R.L. Polk Co. Publishers	Image pg. A49
Fox S		R.L. Polk Co. Publishers	Image pg. A49
2D AV W INTERSECTS		R.L. Polk Co. Publishers	Image pg. A49
ALSO SEE 605 2D AV W		R.L. Polk Co. Publishers	Image pg. A49
Chandler Hall Apartments		R.L. Polk Co. Publishers	Image pg. A49
Sinclair Justis		R.L. Polk Co. Publishers	Image pg. A49
Kunimoto Larry		R.L. Polk Co. Publishers	Image pg. A49
Bowe Larry		R.L. Polk Co. Publishers	Image pg. A49
Halpern		R.L. Polk Co. Publishers	Image pg. A49

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1986	Jeffery Andrew	R.L. Polk Co. Publishers	Image pg. A49
	Broussard Stephanie	R.L. Polk Co. Publishers	Image pg. A49
	Handerson W	R.L. Polk Co. Publishers	Image pg. A49
	Ingallis J	R.L. Polk Co. Publishers	Image pg. A49
	Johnson T P	R.L. Polk Co. Publishers	Image pg. A49
	Christ J	R.L. Polk Co. Publishers	Image pg. A49
	Hill Herbert A	R.L. Polk Co. Publishers	Image pg. A49
1980	Bow L rry	R.L. Polk Co. Publishers	Image pg. A65
	Bowe L	R.L. Polk Co. Publishers	Image pg. A65
	Stack Michi	R.L. Polk Co. Publishers	Image pg. A65
	Kunz Eliz	R.L. Polk Co. Publishers	Image pg. A65
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	No Return	R.L. Polk Co. Publishers	Image pg. A65
	No Return	R.L. Polk Co. Publishers	Image pg. A65
	Hill Herbert S	R.L. Polk Co. Publishers	Image pg. A65
	ONeall 1 H	R.L. Polk Co. Publishers	Image pg. A65
	Cole Trish	R.L. Polk Co. Publishers	Image pg. A65
	No Return	R.L. Polk Co. Publishers	Image pg. A65
	Waslen Annette	R.L. Polk Co. Publishers	Image pg. A65
	leuple Cheryl L	R.L. Polk Co. Publishers	Image pg. A65
	Vacant	R.L. Polk Co. Publishers	Image pg. A65
	Michel Mary L Mrs	R.L. Polk Co. Publishers	Image pg. A65
	Il I Schultz R	R.L. Polk Co. Publishers	Image pg. A65
	No Return	R.L. Polk Co. Publishers	Image pg. A65
	Guggi M	R.L. Polk Co. Publishers	Image pg. A65
	Weber Edna M	R.L. Polk Co. Publishers	Image pg. A65
	Radcliffe M R	R.L. Polk Co. Publishers	Image pg. A65
	Graham Hobson	R.L. Polk Co. Publishers	Image pg. A65
	Loewen Ten	R.L. Polk Co. Publishers	Image pg. A65
	Chandler Hall Apartments	R.L. Polk Co. Publishers	Image pg. A65
	Williams Wm H	R.L. Polk Co. Publishers	Image pg. A65
	Lee Gary	R.L. Polk Co. Publishers	Image pg. A65
	Hill Herbert	R.L. Polk Co. Publishers	Image pg. A65
	Onishi Yukie	R.L. Polk Co. Publishers	Image pg. A65
Chamberlan Joseph G	R.L. Polk Co. Publishers	Image pg. A65	
Dease Joseph	R.L. Polk Co. Publishers	Image pg. A65	
Kay W H	R.L. Polk Co. Publishers	Image pg. A65	
Beckey Sonja Mrs	R.L. Polk Co. Publishers	Image pg. A65	

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1980	Hight Eli A Mrs	R.L. Polk Co. Publishers	Image pg. A65
	Creteau Wilfred	R.L. Polk Co. Publishers	Image pg. A65
	Kerr Marian S Mrs	R.L. Polk Co. Publishers	Image pg. A65
	Baldwin R L	R.L. Polk Co. Publishers	Image pg. A65
	Bird Barbara	R.L. Polk Co. Publishers	Image pg. A65
	No Return	R.L. Polk Co. Publishers	Image pg. A65
	Stewart Thelma L	R.L. Polk Co. Publishers	Image pg. A65
	Knight Paul J	R.L. Polk Co. Publishers	Image pg. A65
	Tyni Rudy	R.L. Polk Co. Publishers	Image pg. A65
	Vacant	R.L. Polk Co. Publishers	Image pg. A65
	Me Kenzie Margt B	R.L. Polk Co. Publishers	Image pg. A65
	Saravanja C A	R.L. Polk Co. Publishers	Image pg. A65
	Lewis Pat	R.L. Polk Co. Publishers	Image pg. A65
	Vacant	R.L. Polk Co. Publishers	Image pg. A65
	Crocic Tony	R.L. Polk Co. Publishers	Image pg. A65
	Cueto F	R.L. Polk Co. Publishers	Image pg. A65
	Mettler Melvin E	R.L. Polk Co. Publishers	Image pg. A65
	Brattvet Bertha L	R.L. Polk Co. Publishers	Image pg. A65
	Carroll L Marie	R.L. Polk Co. Publishers	Image pg. A65
	Irwin Floyd	R.L. Polk Co. Publishers	Image pg. A65
	Swanson Alma Mrs	R.L. Polk Co. Publishers	Image pg. A65
	Rex Christine	R.L. Polk Co. Publishers	Image pg. A65
	Cooper Teruko	R.L. Polk Co. Publishers	Image pg. A65
	Freeman Mich I B	R.L. Polk Co. Publishers	Image pg. A65
	Parry Alice Mrs	R.L. Polk Co. Publishers	Image pg. A65
	Hasegawa Yukio	R.L. Polk Co. Publishers	Image pg. A65
	Widolf Mae G Mrs	R.L. Polk Co. Publishers	Image pg. A65
	Shearon Chester	R.L. Polk Co. Publishers	Image pg. A65
	No Return	R.L. Polk Co. Publishers	Image pg. A65
	Nash Howard	R.L. Polk Co. Publishers	Image pg. A65
	Hermes C	R.L. Polk Co. Publishers	Image pg. A65
	Johnson Arth N	R.L. Polk Co. Publishers	Image pg. A65
	Albright Neil	R.L. Polk Co. Publishers	Image pg. A65
	Brown Kathryn Mrs	R.L. Polk Co. Publishers	Image pg. A65
	Turner John	R.L. Polk Co. Publishers	Image pg. A65
	Whittock Mabel F	R.L. Polk Co. Publishers	Image pg. A65
	Phillips C	R.L. Polk Co. Publishers	Image pg. A65
	Allen Gladys Mrs	R.L. Polk Co. Publishers	Image pg. A65

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1980	Owens Win A	R.L. Polk Co. Publishers	Image pg. A65
	Brewer J L	R.L. Polk Co. Publishers	Image pg. A65
	Manley Carol	R.L. Polk Co. Publishers	Image pg. A65
	Collins Beatrice Mrs	R.L. Polk Co. Publishers	Image pg. A65
	Vacant	R.L. Polk Co. Publishers	Image pg. A65
	Vezenia Ruth	R.L. Polk Co. Publishers	Image pg. A65
	Brown K	R.L. Polk Co. Publishers	Image pg. A65
	Plesko Andrew	R.L. Polk Co. Publishers	Image pg. A65
	ALSO SEE 605 2D AV WI	R.L. Polk Co. Publishers	Image pg. A65
1975	Chandler Hall Apartments	R.L. Polk Co. Publishers	Image pg. A77
	Williams Wm H	R.L. Polk Co. Publishers	Image pg. A77
	Peele Victor	R.L. Polk Co. Publishers	Image pg. A77
	Bowe Larry	R.L. Polk Co. Publishers	Image pg. A77
	Smith Clarence M	R.L. Polk Co. Publishers	Image pg. A77
	Davidson Yvonne	R.L. Polk Co. Publishers	Image pg. A77
	Kunz Eli	R.L. Polk Co. Publishers	Image pg. A77
	Grant Harold W	R.L. Polk Co. Publishers	Image pg. A77
	Magionis Signs Mrs	R.L. Polk Co. Publishers	Image pg. A77
	Hasegawa Paul	R.L. Polk Co. Publishers	Image pg. A77
	Hill Herbert S	R.L. Polk Co. Publishers	Image pg. A77
	Mc Carthy Don A	R.L. Polk Co. Publishers	Image pg. A77
	Bruce Anna Mrs	R.L. Polk Co. Publishers	Image pg. A77
	Ruttan Lola Mrs	R.L. Polk Co. Publishers	Image pg. A77
	Shaw Isabella A Mrs	R.L. Polk Co. Publishers	Image pg. A77
	Dobler Bernard	R.L. Polk Co. Publishers	Image pg. A77
	Hasaegawa Yukio	R.L. Polk Co. Publishers	Image pg. A77
	Mills Rex R	R.L. Polk Co. Publishers	Image pg. A77
	Haines Betty J Mrs	R.L. Polk Co. Publishers	Image pg. A77
	Brady Ben	R.L. Polk Co. Publishers	Image pg. A77
	Pender Newton	R.L. Polk Co. Publishers	Image pg. A77
	Weber Edna M	R.L. Polk Co. Publishers	Image pg. A77
	Radclihfe M R	R.L. Polk Co. Publishers	Image pg. A77
	Graham Hobson	R.L. Polk Co. Publishers	Image pg. A77
	Wilson Grace E Mrs	R.L. Polk Co. Publishers	Image pg. A77
	Brattvet Berths L	R.L. Polk Co. Publishers	Image pg. A77
	Carroll Marie L	R.L. Polk Co. Publishers	Image pg. A77
	Irwin Floyd	R.L. Polk Co. Publishers	Image pg. A77
Swanson Alma Mrs	R.L. Polk Co. Publishers	Image pg. A77	

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1975	Brandon Herbert S	R.L. Polk Co. Publishers	Image pg. A77
	Cooper Teruko	R.L. Polk Co. Publishers	Image pg. A77
	Mc Courd J	R.L. Polk Co. Publishers	Image pg. A77
	Parry Alice Mrs	R.L. Polk Co. Publishers	Image pg. A77
	Cullison G	R.L. Polk Co. Publishers	Image pg. A77
	Widolf Mae G Mrs	R.L. Polk Co. Publishers	Image pg. A77
	Shearon Chester	R.L. Polk Co. Publishers	Image pg. A77
	Wall Geo	R.L. Polk Co. Publishers	Image pg. A77
	Stohlberg Phillip	R.L. Polk Co. Publishers	Image pg. A77
	Riggs Verna	R.L. Polk Co. Publishers	Image pg. A77
	Johnson Arth	R.L. Polk Co. Publishers	Image pg. A77
	Albright Neil	R.L. Polk Co. Publishers	Image pg. A77
	Brown Kathryn Mrs	R.L. Polk Co. Publishers	Image pg. A77
	Turner John	R.L. Polk Co. Publishers	Image pg. A77
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	Allen Gladys Mrs	R.L. Polk Co. Publishers	Image pg. A77
	Law J	R.L. Polk Co. Publishers	Image pg. A77
	Becker Robt C	R.L. Polk Co. Publishers	Image pg. A77
	Bernhart Peter	R.L. Polk Co. Publishers	Image pg. A77
	Collins Beatrice Mrs	R.L. Polk Co. Publishers	Image pg. A77
	Wolfe Mabelle M Mrs	R.L. Polk Co. Publishers	Image pg. A77
	Lottier V	R.L. Polk Co. Publishers	Image pg. A77
	Brindon Herbert S	R.L. Polk Co. Publishers	Image pg. A77
	Plesho Andrew	R.L. Polk Co. Publishers	Image pg. A77
	Loewen Ten	R.L. Polk Co. Publishers	Image pg. A77
	Onishi Yukie	R.L. Polk Co. Publishers	Image pg. A77
	Ordone Veto Mrs	R.L. Polk Co. Publishers	Image pg. A77
	Dease Joseph	R.L. Polk Co. Publishers	Image pg. A77
	Kay W H	R.L. Polk Co. Publishers	Image pg. A77
	Beckey Sonja Mrs	R.L. Polk Co. Publishers	Image pg. A77
	Hight Eliz A Mrs	R.L. Polk Co. Publishers	Image pg. A77
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	Kerr Marian S Mrs	R.L. Polk Co. Publishers	Image pg. A77
	Dean Pearl	R.L. Polk Co. Publishers	Image pg. A77
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	Mc Kenzie M B	R.L. Polk Co. Publishers	Image pg. A77
	Quinian Wm J	R.L. Polk Co. Publishers	Image pg. A77
	Nusbaum Helen Mrs	R.L. Polk Co. Publishers	Image pg. A77
	Enfield E R	R.L. Polk Co. Publishers	Image pg. A77
	Politishi A J	R.L. Polk Co. Publishers	Image pg. A77
	Hobbs Joseph E	R.L. Polk Co. Publishers	Image pg. A77
1970	CHANDLER HALL APARTMENTS AT	R.L. Polk Co Publishers	Image pg. A87
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	NEILSON HENRY	R.L. Polk Co Publishers	Image pg. A87
	MAGINNIS SIGMat	R.L. Polk Co Publishers	Image pg. A87
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	JAMES PLUMat	R.L. Polk Co Publishers	Image pg. A87
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	DOVIER BERNARD	R.L. Polk Co Publishers	Image pg. A87
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	GRAHAM HOBSON	R.L. Polk Co Publishers	Image pg. A87
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	ORDONEZ VETA	R.L. Polk Co Publishers	Image pg. A87
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	HIGHT BETTY A MRS AT	R.L. Polk Co Publishers	Image pg. A87
	HERMAN RUTH at	R.L. Polk Co Publishers	Image pg. A87
	BECK CANDACE J AT	R.L. Polk Co Publishers	Image pg. A87
	CRETEAN WILFRED A AT	R.L. Polk Co Publishers	Image pg. A87
	VACANT	R.L. Polk Co Publishers	Image pg. A87
	HENNING IVAR R MRS AT	R.L. Polk Co Publishers	Image pg. A87
	MARSH EVA MRS AT	R.L. Polk Co Publishers	Image pg. A87
	LUOUE PALMA I MRS AT	R.L. Polk Co Publishers	Image pg. A87
	WALL GEO	R.L. Polk Co Publishers	Image pg. A87
	STACK ROBT I AT	R.L. Polk Co Publishers	Image pg. A87
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	ANDERSON ESTHER A AT	R.L. Polk Co Publishers	Image pg. A87
	ALBRIGHT NEIL AT	R.L. Polk Co Publishers	Image pg. A87
	BROWN KATH	R.L. Polk Co Publishers	Image pg. A87
	RUSH JUANITA MRS	R.L. Polk Co Publishers	Image pg. A87
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	HOLDEN MARGT AT 2 R	R.L. Polk Co Publishers	Image pg. A87
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	CUETO FRED F AT	R.L. Polk Co Publishers	Image pg. A87
	WOLFE MABELLE M MRS AT	R.L. Polk Co Publishers	Image pg. A87
	BAUER FREDA MRS AT	R.L. Polk Co Publishers	Image pg. A87
	NELSON MARY H AT	R.L. Polk Co Publishers	Image pg. A87
	BLAND HELEN MRS AT	R.L. Polk Co Publishers	Image pg. A87
	LAVELLE MABEL J MRS AT	R.L. Polk Co Publishers	Image pg. A87
	HOLLINRAKE LUCILLE	R.L. Polk Co Publishers	Image pg. A87
	GREENLY CECILE E MRS AT	R.L. Polk Co Publishers	Image pg. A87
	SONN DAVID AT	R.L. Polk Co Publishers	Image pg. A87
	DOMORADSKI JULIE	R.L. Polk Co Publishers	Image pg. A87
	BRANDON HERBERT S AT	R.L. Polk Co Publishers	Image pg. A87
	DOUGLAS FRANCES MRS AT	R.L. Polk Co Publishers	Image pg. A87
	JENKINS ELLA V MRS AT	R.L. Polk Co Publishers	Image pg. A87
	WILSON GRACE E AT	R.L. Polk Co Publishers	Image pg. A87
	CARROLL MARIE AT	R.L. Polk Co Publishers	Image pg. A87

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	CARTER ALICE B AT	R.L. Polk Co Publishers	Image pg. A87
	SWANSON ALMA MRS AT	R.L. Polk Co Publishers	Image pg. A87
	GUAY J IM	R.L. Polk Co Publishers	Image pg. A87
	ESSEX WM AT	R.L. Polk Co Publishers	Image pg. A87
	SHIMADA YOSHIKO	R.L. Polk Co Publishers	Image pg. A87
	PARRY ALICE E MRS	R.L. Polk Co Publishers	Image pg. A87
	HORROCKS VERA B MRS	R.L. Polk Co Publishers	Image pg. A87
	WIDOLF MAE G MRS AT	R.L. Polk Co Publishers	Image pg. A87
DAVES EL IZ MRS	R.L. Polk Co Publishers	Image pg. A87	
1966	CHANDLER HALL APARTMENTS AT	R.L. Polk Co Publishers	Image pg. A100
	CARLSON GILBERST E	R.L. Polk Co Publishers	Image pg. A100
	BIRCH LOIS C	R.L. Polk Co Publishers	Image pg. A100
	DEAN PATRICIA	R.L. Polk Co Publishers	Image pg. A100
	HESSON WINFREO D	R.L. Polk Co Publishers	Image pg. A100
	IE EASTWOOD MERLE M MRS AT	R.L. Polk Co Publishers	Image pg. A100
	JOHNSTON AL AT	R.L. Polk Co Publishers	Image pg. A100
	NEILSON HENRY	R.L. Polk Co Publishers	Image pg. A100
	ALEXANDER EUG	R.L. Polk Co Publishers	Image pg. A100
	HUTCHINSON NELLIE E	R.L. Polk Co Publishers	Image pg. A100
	HILL HERBERT A	R.L. Polk Co Publishers	Image pg. A100
	SCHMELTER VESTA MRS AT	R.L. Polk Co Publishers	Image pg. A100
	O GRADY PATK	R.L. Polk Co Publishers	Image pg. A100
	SHAW ISABELLE A MRS AT	R.L. Polk Co Publishers	Image pg. A100
	WHICKER CLARA E MRS AT	R.L. Polk Co Publishers	Image pg. A100
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	KINSLEY COURTNEY	R.L. Polk Co Publishers	Image pg. A100
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	MAJESTIC JERRY E AT	R.L. Polk Co Publishers	Image pg. A100
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	WOODWORTH ANN MRS AT	R.L. Polk Co Publishers	Image pg. A100
	CALDWELL MARIE C MRS AT	R.L. Polk Co Publishers	Image pg. A100
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	WOODRUFF ANN AT	R.L. Polk Co Publishers	Image pg. A100
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DEASE JOSEPH I	R.L. Polk Co Publishers	Image pg. A100	
TURNER JOHN AT	R.L. Polk Co Publishers	Image pg. A100	
MAHANEY MARIE MRS	R.L. Polk Co Publishers	Image pg. A100	

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	HERMAN RUTH A MRS AT	R.L. Polk Co Publishers	Image pg. A100
	GREEN JOHN W	R.L. Polk Co Publishers	Image pg. A100
	CARSON ERNEST B AT	R.L. Polk Co Publishers	Image pg. A100
	BAY DOROTHY	R.L. Polk Co Publishers	Image pg. A100
	RICHARDS LOUISE A T	R.L. Polk Co Publishers	Image pg. A100
	MARSH EVA MRS AT	R.L. Polk Co Publishers	Image pg. A100
	LEDGER CLARA G MRS a AT	R.L. Polk Co Publishers	Image pg. A100
	KNOWLES DAISY MRS	R.L. Polk Co Publishers	Image pg. A100
	HOWARD JACKIE	R.L. Polk Co Publishers	Image pg. A100
	HOLLY JUDY	R.L. Polk Co Publishers	Image pg. A100
	COYNE BARTLEY	R.L. Polk Co Publishers	Image pg. A100
	VACANT	R.L. Polk Co Publishers	Image pg. A100
	DOWNER LOUIS	R.L. Polk Co Publishers	Image pg. A100
	DOUGLAS FRANCES MRS A T	R.L. Polk Co Publishers	Image pg. A100
	JENKINS ELLA V MRS AT	R.L. Polk Co Publishers	Image pg. A100
	CRAMSIE HUGH	R.L. Polk Co Publishers	Image pg. A100
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	BALLAR WKLTE AT	R.L. Polk Co Publishers	Image pg. A100
	PARRY ALICE E MRS	R.L. Polk Co Publishers	Image pg. A100
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	JORDAN LIZZIE L MRS AT	R.L. Polk Co Publishers	Image pg. A100
	MARINO DANIEL R	R.L. Polk Co Publishers	Image pg. A100
	STACK ROBT I AT	R.L. Polk Co Publishers	Image pg. A100
	POOLE CARROLL	R.L. Polk Co Publishers	Image pg. A100
	ANDERSON ESTHER A A T	R.L. Polk Co Publishers	Image pg. A100
	ALBRIGHT NEIL AT 4 819 S	R.L. Polk Co Publishers	Image pg. A100
	CLEMENTS OLIVE F MRS AT	R.L. Polk Co Publishers	Image pg. A100
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	HOFFMAN AMY J AT	R.L. Polk Co Publishers	Image pg. A100
	DEAN PEARL E MRS	R.L. Polk Co Publishers	Image pg. A100
	DEAN MINNIE L MRS AT	R.L. Polk Co Publishers	Image pg. A100
	WOLFE MAE BELLE M MRS	R.L. Polk Co Publishers	Image pg. A100
	HARROCKS VERA B MRS AT	R.L. Polk Co Publishers	Image pg. A100
	VACANT	R.L. Polk Co Publishers	Image pg. A100
	KNOWLES VANCE AT	R.L. Polk Co Publishers	Image pg. A100
1960	LOEWEN TENat	R.L. Polk Co Publishers	Image pg. A100
	Primavera Cath Mrs A AT	R.L. Polk Co Publishers	Image pg. A110
	Chandler Hall Apartments	R.L. Polk Co Publishers	Image pg. A110
	Wagner Linny	R.L. Polk Co Publishers	Image pg. A110
	Dodge Cosma M Mrs A AT	R.L. Polk Co Publishers	Image pg. A110
	Jones Mark	R.L. Polk Co Publishers	Image pg. A110
	Anderson Ruth R A AT	R.L. Polk Co Publishers	Image pg. A110
	Hawker Artla J A AT	R.L. Polk Co Publishers	Image pg. A110
	Johnston Al A AT	R.L. Polk Co Publishers	Image pg. A110
	Fenmliug Harold W	R.L. Polk Co Publishers	Image pg. A110
	Carlson Gilbert B A AT	R.L. Polk Co Publishers	Image pg. A110
	Emerson Pearl	R.L. Polk Co Publishers	Image pg. A110
	Mc Neil II Phoebe M A AT	R.L. Polk Co Publishers	Image pg. A110
	Anderson Karl M A AT	R.L. Polk Co Publishers	Image pg. A110
	Gordon Anna C Mrs A AT	R.L. Polk Co Publishers	Image pg. A110
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Lowen Tena	R.L. Polk Co Publishers	Image pg. A110	
Thompson Chas	R.L. Polk Co Publishers	Image pg. A110	
Bradford Frances M A AT	R.L. Polk Co Publishers	Image pg. A110	
Diese Jos I	R.L. Polk Co Publishers	Image pg. A110	

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	Charles Lucile A Mrs	R.L. Polk Co Publishers	Image pg. A110
	Badebaugh Reeta E Mrs A AT	R.L. Polk Co Publishers	Image pg. A110
	Stanley Frances	R.L. Polk Co Publishers	Image pg. A110
	Murry Alice	R.L. Polk Co Publishers	Image pg. A110
	Carson Edw B A AT	R.L. Polk Co Publishers	Image pg. A110
	Horrocks Vera B	R.L. Polk Co Publishers	Image pg. A110
	Marsh Eva Mrs A AT	R.L. Polk Co Publishers	Image pg. A110
	Gorrie Edith L Mrs	R.L. Polk Co Publishers	Image pg. A110
	Itounsevelle Win A AT	R.L. Polk Co Publishers	Image pg. A110
	Herman Ruth A A AT	R.L. Polk Co Publishers	Image pg. A110
	Bern 2art Peter	R.L. Polk Co Publishers	Image pg. A110
	Beardeii Frances	R.L. Polk Co Publishers	Image pg. A110
	Shelley Tena	R.L. Polk Co Publishers	Image pg. A110
	Swanson Minnie M Mrs A AT	R.L. Polk Co Publishers	Image pg. A110
	Heller Frank F A AT	R.L. Polk Co Publishers	Image pg. A110
	Cramsle Hugh O A AT	R.L. Polk Co Publishers	Image pg. A110
	Barber Dorothy E A AT	R.L. Polk Co Publishers	Image pg. A110
	Mc Abee Carmon D A AT	R.L. Polk Co Publishers	Image pg. A110
	Shanley Carl B A AT	R.L. Polk Co Publishers	Image pg. A110
	Poulson Lillian Mrs A AT	R.L. Polk Co Publishers	Image pg. A110
	Jenkins Ella V Mrs	R.L. Polk Co Publishers	Image pg. A110
	Hochsprung Clarence	R.L. Polk Co Publishers	Image pg. A110
	Rudie Frank A AT	R.L. Polk Co Publishers	Image pg. A110
	Me Kennon Nellie Mrs	R.L. Polk Co Publishers	Image pg. A110
	Parry Alice B	R.L. Polk Co Publishers	Image pg. A110
	Hains Winona B Mrs A AT	R.L. Polk Co Publishers	Image pg. A110
	Widolf Mae A AT	R.L. Polk Co Publishers	Image pg. A110
	Jordan Lizzie L Mrs A AT	R.L. Polk Co Publishers	Image pg. A110
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	Sclimelter Harry A AT	R.L. Polk Co Publishers	Image pg. A110
	Elfers Anine J Mrs A AT	R.L. Polk Co Publishers	Image pg. A110
	Courtney Robt D A AT	R.L. Polk Co Publishers	Image pg. A110
	Lowe Harriet	R.L. Polk Co Publishers	Image pg. A110

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	Hoffman Amy	R.L. Polk Co Publishers	Image pg. A110
	Deati Pearl E Mrs A AT	R.L. Polk Co Publishers	Image pg. A110
	OMeara Dan L A AT	R.L. Polk Co Publishers	Image pg. A110
	Wolfe Mabelle I M Mrs	R.L. Polk Co Publishers	Image pg. A110
	Neilson Ada	R.L. Polk Co Publishers	Image pg. A110
	Linsert Wilhelm F A AT	R.L. Polk Co Publishers	Image pg. A110
	Farmer Thelma	R.L. Polk Co Publishers	Image pg. A110
1955	Chandler Hall Apartments	R.L. Polk Co Publishers	Image pg. A140
	Wolfe Mabelle M Mrs	R.L. Polk Co Publishers	Image pg. A140
	Thornton Jas i M jr	R.L. Polk Co Publishers	Image pg. A140
	Taylor Wanda Mirs	R.L. Polk Co Publishers	Image pg. A140
	Anderson Ruth R	R.L. Polk Co Publishers	Image pg. A140
	Joseph Harriett M	R.L. Polk Co Publishers	Image pg. A140
	Connelly Myrtle	R.L. Polk Co Publishers	Image pg. A140
	Ferguson Howard	R.L. Polk Co Publishers	Image pg. A140
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	Hilton Harry R	R.L. Polk Co Publishers	Image pg. A140
	Me Neill Phoebe M	R.L. Polk Co Publishers	Image pg. A140
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	Gordon Anna Mrs	R.L. Polk Co Publishers	Image pg. A140
	Ryan Donna	R.L. Polk Co Publishers	Image pg. A140
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	Harrington Jesse F mgr	R.L. Polk Co Publishers	Image pg. A140
	Chandler Kathleen	R.L. Polk Co Publishers	Image pg. A140
	Esquilbel Lee R	R.L. Polk Co Publishers	Image pg. A140
	La Fremiere Marie E	R.L. Polk Co Publishers	Image pg. A140
	Smith Alice Mirs	R.L. Polk Co Publishers	Image pg. A140
	Meyer I Henry W	R.L. Polk Co Publishers	Image pg. A140
	Matson Rea Mrs	R.L. Polk Co Publishers	Image pg. A140
	Galbraith Jean	R.L. Polk Co Publishers	Image pg. A140
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	ROY W Contd	R.L. Polk Co Publishers	Image pg. A140
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Padden Anne K Mrs	R.L. Polk Co Publishers	Image pg. A140	

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1955	Murray Donald S	R.L. Polk Co Publishers	Image pg. A140
	Karlson Elsie	R.L. Polk Co Publishers	Image pg. A140
	Mackey Ruth Mrs	R.L. Polk Co Publishers	Image pg. A140
	Radebaugh Reta E Mrs	R.L. Polk Co Publishers	Image pg. A140
	Coddling Edna Mrs	R.L. Polk Co Publishers	Image pg. A140
	Osterholm Marie H Mrs	R.L. Polk Co Publishers	Image pg. A140
	Anderson Ellen S Mrs	R.L. Polk Co Publishers	Image pg. A140
	Wickland Mildred M	R.L. Polk Co Publishers	Image pg. A140
	Carter Letetia A	R.L. Polk Co Publishers	Image pg. A140
	Marsh Eva Mrs	R.L. Polk Co Publishers	Image pg. A140
	Gorrie Edith L Mrs	R.L. Polk Co Publishers	Image pg. A140
	Rounseville Wm	R.L. Polk Co Publishers	Image pg. A140
	Bechel Selma V Mrs	R.L. Polk Co Publishers	Image pg. A140
	Goldie Anna E	R.L. Polk Co Publishers	Image pg. A140
	Joachimson Ellen Mrs	R.L. Polk Co Publishers	Image pg. A140
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	Swanson Minnie M Mrs	R.L. Polk Co Publishers	Image pg. A140
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	Sunde Etta C Mrs	R.L. Polk Co Publishers	Image pg. A140
	Brown John W	R.L. Polk Co Publishers	Image pg. A140
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	Flynn Jessie I Mrs	R.L. Polk Co Publishers	Image pg. A140
	Eide Joan	R.L. Polk Co Publishers	Image pg. A140
	Jones Eleanor J	R.L. Polk Co Publishers	Image pg. A140
	Shubic Shirley	R.L. Polk Co Publishers	Image pg. A140
	Hein Martha A	R.L. Polk Co Publishers	Image pg. A140
	Vacant	R.L. Polk Co Publishers	Image pg. A140
	Clark Chas	R.L. Polk Co Publishers	Image pg. A140
	Lowrey Rose Mrs	R.L. Polk Co Publishers	Image pg. A140

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1955	Campbell Glenn R	R.L. Polk Co Publishers	Image pg. A140
	Harrington Wm C	R.L. Polk Co Publishers	Image pg. A140
	Snyder Arth V	R.L. Polk Co Publishers	Image pg. A140
	Olson Esther	R.L. Polk Co Publishers	Image pg. A140
	Carter Chas J	R.L. Polk Co Publishers	Image pg. A140
	Dean Pearl E Mrs	R.L. Polk Co Publishers	Image pg. A140
	Dwyer Geo E	R.L. Polk Co Publishers	Image pg. A140
	Coughlin Leon J	R.L. Polk Co Publishers	Image pg. A140
	Nielson Ada C	R.L. Polk Co Publishers	Image pg. A140
	Avary Hazel F Mrs	R.L. Polk Co Publishers	Image pg. A140
	OBrien Dorothp E	R.L. Polk Co Publishers	Image pg. A140
	Street continued	R.L. Polk Co Publishers	Image pg. A140
	1951	Severson H A AL	R.L. Polk Co Publishers
Shanley C 12 GA		R.L. Polk Co Publishers	Image pg. A153
Shillestad Juno L AL		R.L. Polk Co Publishers	Image pg. A153
Smith Christine AL		R.L. Polk Co Publishers	Image pg. A153
Strand H A AL		R.L. Polk Co Publishers	Image pg. A153
Swanson M M Mrs GA		R.L. Polk Co Publishers	Image pg. A153
Swanson S 12 Mrs GA		R.L. Polk Co Publishers	Image pg. A153
Teg tmeier 12 L AL		R.L. Polk Co Publishers	Image pg. A153
Valls G N		R.L. Polk Co Publishers	Image pg. A153
Virnig A JS AL		R.L. Polk Co Publishers	Image pg. A153
Voiss T D AL		R.L. Polk Co Publishers	Image pg. A153
Walker Matt AL		R.L. Polk Co Publishers	Image pg. A153
Winkland Mildred M		R.L. Polk Co Publishers	Image pg. A153
St Aulbin Marguerite L		R.L. Polk Co Publishers	Image pg. A153
Chandler Hall Apartments		R.L. Polk Co Publishers	Image pg. A153
Anderson Ruth R AL		R.L. Polk Co Publishers	Image pg. A153
Bain P J AL		R.L. Polk Co Publishers	Image pg. A153
Branfit M 12 Mrs GA		R.L. Polk Co Publishers	Image pg. A153
Callantins H C		R.L. Polk Co Publishers	Image pg. A153
Carpine A A AL		R.L. Polk Co Publishers	Image pg. A153
Carter Chas GA		R.L. Polk Co Publishers	Image pg. A153
Cassidy 12 G Mrs AL		R.L. Polk Co Publishers	Image pg. A153
Dirstine Ruth P AL		R.L. Polk Co Publishers	Image pg. A153
Dad D 12 Mrs AL	R.L. Polk Co Publishers	Image pg. A153	
Dunning Rose Mrs AL	R.L. Polk Co Publishers	Image pg. A153	
Dwysr Geo GA	R.L. Polk Co Publishers	Image pg. A153	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Ferguson W G GA	R.L. Polk Co Publishers	Image pg. A153
	Flynn H 12 GA	R.L. Polk Co Publishers	Image pg. A153
	Gardlin T J AL	R.L. Polk Co Publishers	Image pg. A153
	Godfrey 12 G GA	R.L. Polk Co Publishers	Image pg. A153
	Goldie Anna 12 AL	R.L. Polk Co Publishers	Image pg. A153
	Gordon Virginia AL	R.L. Polk Co Publishers	Image pg. A153
	Haas H K AL	R.L. Polk Co Publishers	Image pg. A153
	Hag en Muriel G AL	R.L. Polk Co Publishers	Image pg. A153
	Harrington J F AL	R.L. Polk Co Publishers	Image pg. A153
	Harrington W C GA	R.L. Polk Co Publishers	Image pg. A153
	Harris Marian L GA	R.L. Polk Co Publishers	Image pg. A153
	H earn E J Mrs GA	R.L. Polk Co Publishers	Image pg. A153
	Heller F F	R.L. Polk Co Publishers	Image pg. A153
	Hibibert Herbt	R.L. Polk Co Publishers	Image pg. A153
	Howacre Helen F AL	R.L. Polk Co Publishers	Image pg. A153
	Holmes V A GA	R.L. Polk Co Publishers	Image pg. A153
	Hughes H N GA	R.L. Polk Co Publishers	Image pg. A153
	Jrhonson A K ALi	R.L. Polk Co Publishers	Image pg. A153
	JTones Eleanor J GA	R.L. Polk Co Publishers	Image pg. A153
	Itelley H H AL	R.L. Polk Co Publishers	Image pg. A153
	Kosola K S Mrs AL	R.L. Polk Co Publishers	Image pg. A153
	Lank A B Mrs AL	R.L. Polk Co Publishers	Image pg. A153
	Lash Leva H AL	R.L. Polk Co Publishers	Image pg. A153
	Lowery R A Mrs AL	R.L. Polk Co Publishers	Image pg. A153
	Madden Geraldine AL	R.L. Polk Co Publishers	Image pg. A153
	Mo Neill Phoeboe M AL	R.L. Polk Co Publishers	Image pg. A153
	Meyer H XJ J GA	R.L. Polk Co Publishers	Image pg. A153
	Nelson Kathleen V	R.L. Polk Co Publishers	Image pg. A153
	Nicholas Shirley A	R.L. Polk Co Publishers	Image pg. A153
	Nielson Ada C AA	R.L. Polk Co Publishers	Image pg. A153
	Nordeng H A AL	R.L. Polk Co Publishers	Image pg. A153
	OKeefe J M AL	R.L. Polk Co Publishers	Image pg. A153
	Oksum 3 P GA	R.L. Polk Co Publishers	Image pg. A153
	Osterhoim 12 G GA	R.L. Polk Co Publishers	Image pg. A153
	Padlden Anne GA	R.L. Polk Co Publishers	Image pg. A153
	Parry Alice IB	R.L. Polk Co Publishers	Image pg. A153
	Paterson Isabel F GA	R.L. Polk Co Publishers	Image pg. A153
	Perry H 12 GA	R.L. Polk Co Publishers	Image pg. A153

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1951	Paulson L 12 Mrs AL	R.L. Polk Co Publishers	Image pg. A153
	Radachi Irene L AL	R.L. Polk Co Publishers	Image pg. A153
	Radebaugh R 12 Mrs GA	R.L. Polk Co Publishers	Image pg. A153
	Rasmussen Tedl GA	R.L. Polk Co Publishers	Image pg. A153
	Ray G H AL	R.L. Polk Co Publishers	Image pg. A153
	Rumley V L Mrs AL	R.L. Polk Co Publishers	Image pg. A153
1940	Chandler Hall Apartments	R.L. Polk Co publishers	Image pg. A177
	Henderson John M mgr	R.L. Polk Co publishers	Image pg. A177
	Adams Kath F Mrs	R.L. Polk Co publishers	Image pg. A177
	Anderson Harry C	R.L. Polk Co publishers	Image pg. A177
	Ashleman Russell H	R.L. Polk Co publishers	Image pg. A177
	Barbour Jack	R.L. Polk Co publishers	Image pg. A177
	Burns Robt H	R.L. Polk Co publishers	Image pg. A177
	Carson Roy E	R.L. Polk Co publishers	Image pg. A177
	Carter C J	R.L. Polk Co publishers	Image pg. A177
	Carter Clifford W	R.L. Polk Co publishers	Image pg. A177
	Clark Frances Mrs	R.L. Polk Co publishers	Image pg. A177
	Collins H E	R.L. Polk Co publishers	Image pg. A177
	Davenport Geo W	R.L. Polk Co publishers	Image pg. A177
	De Armond Jas G	R.L. Polk Co publishers	Image pg. A177
	Duncan Robt H	R.L. Polk Co publishers	Image pg. A177
	Englebert Kenneth L	R.L. Polk Co publishers	Image pg. A177
	Forte Dominic	R.L. Polk Co publishers	Image pg. A177
	Franklin C W	R.L. Polk Co publishers	Image pg. A177
	Gordon Anna C Mrs	R.L. Polk Co publishers	Image pg. A177
	Hanak Jos	R.L. Polk Co publishers	Image pg. A177
	Harding Howard	R.L. Polk Co publishers	Image pg. A177
	Harrington Wm C	R.L. Polk Co publishers	Image pg. A177
	Horner Minnie B Mrs	R.L. Polk Co publishers	Image pg. A177
	Humphrey Lena	R.L. Polk Co publishers	Image pg. A177
	Hurd Clinton T	R.L. Polk Co publishers	Image pg. A177
	Huston Arville H	R.L. Polk Co publishers	Image pg. A177
Jensen Vernon	R.L. Polk Co publishers	Image pg. A177	
Londahl H S	R.L. Polk Co publishers	Image pg. A177	
Lowdon Jack H	R.L. Polk Co publishers	Image pg. A177	
Lupp Ernest F	R.L. Polk Co publishers	Image pg. A177	
Mac Martin Agnes Mrs	R.L. Polk Co publishers	Image pg. A177	
Maloney Michi L	R.L. Polk Co publishers	Image pg. A177	

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Marquis Benj M	R.L. Polk Co publishers	Image pg. A177
	Martinson Elma E	R.L. Polk Co publishers	Image pg. A177
	Mc Guire Patk M	R.L. Polk Co publishers	Image pg. A177
	Merz Max	R.L. Polk Co publishers	Image pg. A177
	Molyneux W H	R.L. Polk Co publishers	Image pg. A177
	Montgomery Virginia	R.L. Polk Co publishers	Image pg. A177
	Morgan Walter S	R.L. Polk Co publishers	Image pg. A177
	Morrow Clyde B	R.L. Polk Co publishers	Image pg. A177
	Moulton Ellsworth	R.L. Polk Co publishers	Image pg. A177
	Mousset Winnie	R.L. Polk Co publishers	Image pg. A177
	Nash Ronald W	R.L. Polk Co publishers	Image pg. A177
	Nielson Ada	R.L. Polk Co publishers	Image pg. A177
	Partridge Walter W	R.L. Polk Co publishers	Image pg. A177
	Pinter Frank J	R.L. Polk Co publishers	Image pg. A177
	Proudlock G Cameron	R.L. Polk Co publishers	Image pg. A177
	Radebaugh Reeta B	R.L. Polk Co publishers	Image pg. A177
	Revercomb Gordon	R.L. Polk Co publishers	Image pg. A177
	Rohrer Clayton J	R.L. Polk Co publishers	Image pg. A177
	Samson V J	R.L. Polk Co publishers	Image pg. A177
	Severson Henry A	R.L. Polk Co publishers	Image pg. A177
	Steele Clara F Mrs	R.L. Polk Co publishers	Image pg. A177
	Steffens I A	R.L. Polk Co publishers	Image pg. A177
	Stoy Chas	R.L. Polk Co publishers	Image pg. A177
	Strange Alan C	R.L. Polk Co publishers	Image pg. A177
	Swing Ray F	R.L. Polk Co publishers	Image pg. A177
	Turner Chas R	R.L. Polk Co publishers	Image pg. A177
	Van Gorder Lanse W	R.L. Polk Co publishers	Image pg. A177
	Vetro D C	R.L. Polk Co publishers	Image pg. A177
	Vogt E N	R.L. Polk Co publishers	Image pg. A177
	Walrath Georgia L Mrs	R.L. Polk Co publishers	Image pg. A177
	Warren Guy	R.L. Polk Co publishers	Image pg. A177
	Weber P	R.L. Polk Co publishers	Image pg. A177
	Weisel Minnebelle Mrs	R.L. Polk Co publishers	Image pg. A177
	Weland Wm A	R.L. Polk Co publishers	Image pg. A177
	Wheat Eliz	R.L. Polk Co publishers	Image pg. A177
	Wilson Max T	R.L. Polk Co publishers	Image pg. A177
	Winsor Wm	R.L. Polk Co publishers	Image pg. A177
	Withrow Clarence A	R.L. Polk Co publishers	Image pg. A177

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<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1940	Wyatt Wm W	R.L. Polk Co publishers	Image pg. A177
	Young Forest E	R.L. Polk Co publishers	Image pg. A177
1935	ANDERSON Ettie Mrs h	R.L. Polk Co Publishers	
	Evelyn wtrs r	R.L. Polk Co Publishers	
	Bibler Andrew J Norine I slsmn h	R.L. Polk Co Publishers	
	Chandler Hall Apartments Mrs Alice F Van House mgr	R.L. Polk Co Publishers	
	Michael John J Inez M coin machine opr h	R.L. Polk Co Publishers	
	Richards Bruce R Mildred R clk PSTICo h	R.L. Polk Co Publishers	
	Rippe Edw C Bernice A marine eng h	R.L. Polk Co Publishers	
	SKINNER Porter A Louise P elk UOCo h	R.L. Polk Co Publishers	
	STEVENSON Robt C Dorothy E br mgr PW h	R.L. Polk Co Publishers	
	STEWART Glenn G Edith A slsmn ABWCCo h	R.L. Polk Co Publishers	
	STEWART R A driver IJUOCo r	R.L. Polk Co Publishers	
	Stranghan Claude W Barbara F h	R.L. Polk Co Publishers	
	Welch Harry A Esther H driver UOCo h	R.L. Polk Co Publishers	
	Westport Apartments	R.L. Polk Co Publishers	
	White Allen E Portia E Tiger Inn h	R.L. Polk Co Publishers	
1930	Blockhus Evelyn asst cashr LundquistLilly r	R.L. Polk Co Publishers	
	Dolan Helen D sten Olympic Fruit Co Inc r	R.L. Polk Co Publishers	
	ERICKSON Frank A Anne metalwkr h apt 415	R.L. Polk Co Publishers	
	ERICKSON Frank E Maude v pres Central Cold	R.L. Polk Co Publishers	
	Geisel Maxine F Mrs sten ERPInc h apt 410	R.L. Polk Co Publishers	
	Hennefer Harold H Mildred A elk H Garage r	R.L. Polk Co Publishers	
	Henneken Cornelia A wid Anton r 4106	R.L. Polk Co Publishers	
	Henneman C Walter Annabelle mtetr	R.L. Polk Co Publishers	
	Herman M Doris M clk h	R.L. Polk Co Publishers	
	Lathal John M Mabel L elk h apt 308	R.L. Polk Co Publishers	
	Mc John Alfreda mtctr Wm H P Bell h	R.L. Polk Co Publishers	
	Westport Apartments Della Dodge mgr	R.L. Polk Co Publishers	
1925	ANDERSON Hjalmer E Geneva A slsmn	R.L. Polk Co Publishers	
	BAILEY Fredk H Lily supt ACC h	R.L. Polk Co Publishers	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	BLAKE Buel B Doreen K slsmn WE&MCo h	R.L. Polk Co Publishers
	Bracklin Jno L Laura mgr Seattle Auto Freight Depot	R.L. Polk Co Publishers
	Marjorie R tchr	R.L. Polk Co Publishers
	Bracklin Jno L Laura mgr Seattle Auto	R.L. Polk Co Publishers
	Bracklin Natalie R sten	R.L. Polk Co Publishers
	Co F Leonard	R.L. Polk Co Publishers
	Daiber Elsie Mrs slswn	R.L. Polk Co Publishers
	FORD Robt C slsmn EBCo	R.L. Polk Co Publishers
	GORDON Robt J Bertha C musician	R.L. Polk Co Publishers
	Gray Cecil V Lotta M Gray Lbr & Shingle Co	R.L. Polk Co Publishers
	Irelan Cecil r F	R.L. Polk Co Publishers
	Karg Wm P Hazel C mech	R.L. Polk Co Publishers
	Kessler Albt W Sophia chauf h	R.L. Polk Co Publishers
	Arthur C Alice mech hill	R.L. Polk Co Publishers
	Kirkpatrick Minor P Maud A mgr Bushnell Studio	R.L. Polk Co Publishers
	Service Co h	R.L. Polk Co Publishers
	LEE Loren F Norma L asst mgr Armour & Co	R.L. Polk Co Publishers
	r Co	R.L. Polk Co Publishers
	Leever Saml F Agnes driver h	R.L. Polk Co Publishers
	Luper Delmar r F	R.L. Polk Co Publishers
	Cath Mrs clk Riggs Optical Co	R.L. Polk Co Publishers
	Mc Keown Alba G dentist	R.L. Polk Co Publishers
	Machin Geo L Alva E acet h A	R.L. Polk Co Publishers
	Maker E J	R.L. Polk Co Publishers
	Milsted Leslie E Ruth	R.L. Polk Co Publishers
	PARKS Verle E Anna V clk United Fuel Co Inc	R.L. Polk Co Publishers
	Penney Edith mgr Westport Apts r	R.L. Polk Co Publishers
	Penney Flora wid D Z Westport Apartments h	R.L. Polk Co Publishers
	Penney F Glen eng r	R.L. Polk Co Publishers
	Pontius Apartments	R.L. Polk Co Publishers
	Grace restr wkr r	R.L. Polk Co Publishers
	Quick Beulah B sten Central Agency Inc r E	R.L. Polk Co Publishers
	Realty Leroy W Irene porter r	R.L. Polk Co Publishers

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	Lydabelle H sten CWLCo r	R.L. Polk Co Publishers
	SMITH H R	R.L. Polk Co Publishers
	Stanfield Mabel clk The May Helland Hair Shop r	R.L. Polk Co Publishers
	Tedrick Clyde E police SPD h	R.L. Polk Co Publishers
	Springfield Tire Co	R.L. Polk Co Publishers
	THOMAS Chas S Gazelle J dist frt agt Mc Cormick SS Co	R.L. Polk Co Publishers
	TH Harold N slsmn Great Northern Finance Co r	R.L. Polk Co Publishers
	Trainor Ray A Bess dist frt agt Mc Cormick SS Co	R.L. Polk Co Publishers
	Westport Apartments	R.L. Polk Co Publishers
	White Bertha L sten West Coast Lumberman r E	R.L. Polk Co Publishers

### W ROY St E

#### 119 W ROY St E

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Abbott John H Viola I carpet layer GBFCo h	R.L. Polk Co Publishers

### WASCO H 25 W ROY St

#### 1 WASCO H 25 W ROY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	RASMUSSEN Har	R.L. Polk Co Publishers

### WINDOW CLNR 621 1ST AVE W

#### 0 WINDOW CLNR 621 1ST AVE W

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1925	HARWOOD Lytle P driver r	R.L. Polk Co Publishers
	Robt Josephine S	R.L. Polk Co Publishers

### WV ROY H 253 DO St

#### 4 WV ROY H 253 DO St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1935	Peebler Thos C Nellie R gro	R.L. Polk Co Publishers

## FINDINGS

### WV ROY St

#### 9 WV ROY St

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1930	Lauraine Arth L Janet M Pierce & Co hil	R.L. Polk Co Publishers R.L. Polk Co Publishers

631 Queen Anne Avenue North

631 Queen Anne Avenue North

SEATTLE, WA 98109

Inquiry Number: 5731894.3

July 29, 2019

## Certified Sanborn® Map Report



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Shelton, CT 06484  
Toll Free: 800.352.0050  
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# Certified Sanborn® Map Report

07/29/19

**Site Name:**

631 Queen Anne Avenue North  
631 Queen Anne Avenue North  
SEATTLE, WA 98109  
EDR Inquiry # 5731894.3

**Client Name:**

ARCADIS U.S., Inc.  
111 SW Columbia Street  
Portland, OR 97201  
Contact: Julia Vidonish



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**PO #** NA

**Project** NA

**Maps Provided:**

1969  
1950  
1917  
1905  
1893



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- University Publications of America
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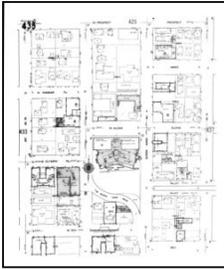
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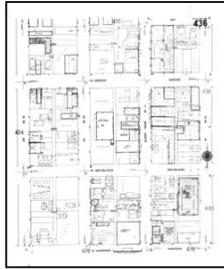
This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.



### 1969 Source Sheets



Volume 4, Sheet 435  
1969



Volume 4, Sheet 436  
1969

### 1950 Source Sheets



Volume 4, Sheet 435  
1950



Volume 4, Sheet 436  
1950



Volume 1, Sheet xxxx  
1950

### 1917 Source Sheets



Volume 4, Sheet 435  
1917



Volume 4, Sheet 436  
1917

### 1905 Source Sheets



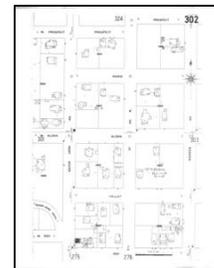
Volume 3, Sheet 275  
1905



Volume 3, Sheet 276  
1905



Volume 3, Sheet 301  
1905



Volume 3, Sheet 302  
1905

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**1893 Source Sheets**



Volume 2, Sheet 71  
1893



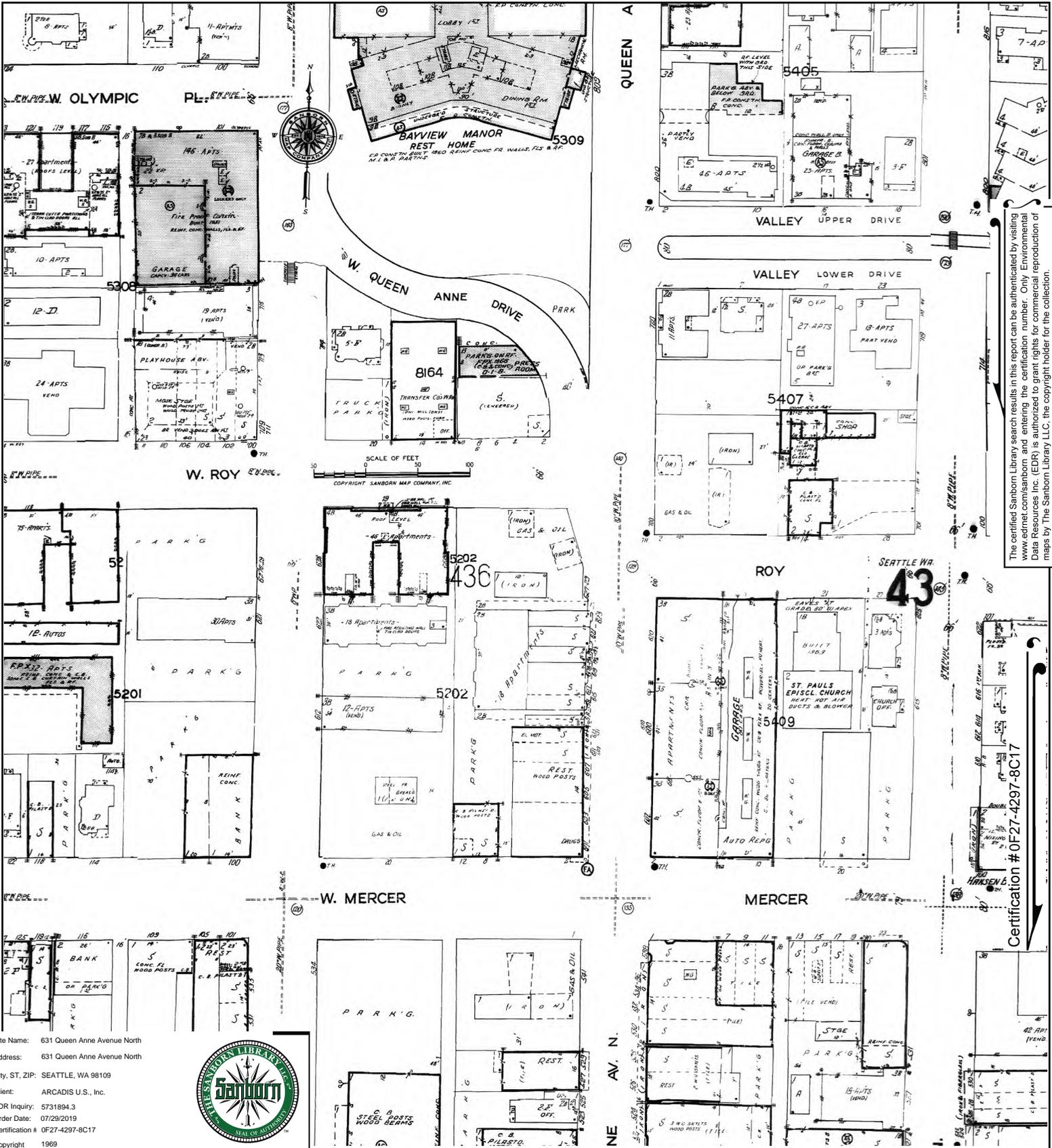
Volume 2, Sheet 71  
1893



Volume 2, Sheet 79  
1893



Volume 2, Sheet 79  
1893



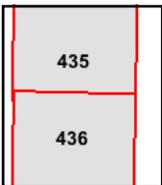
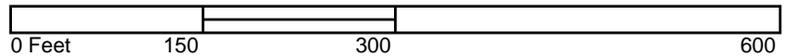
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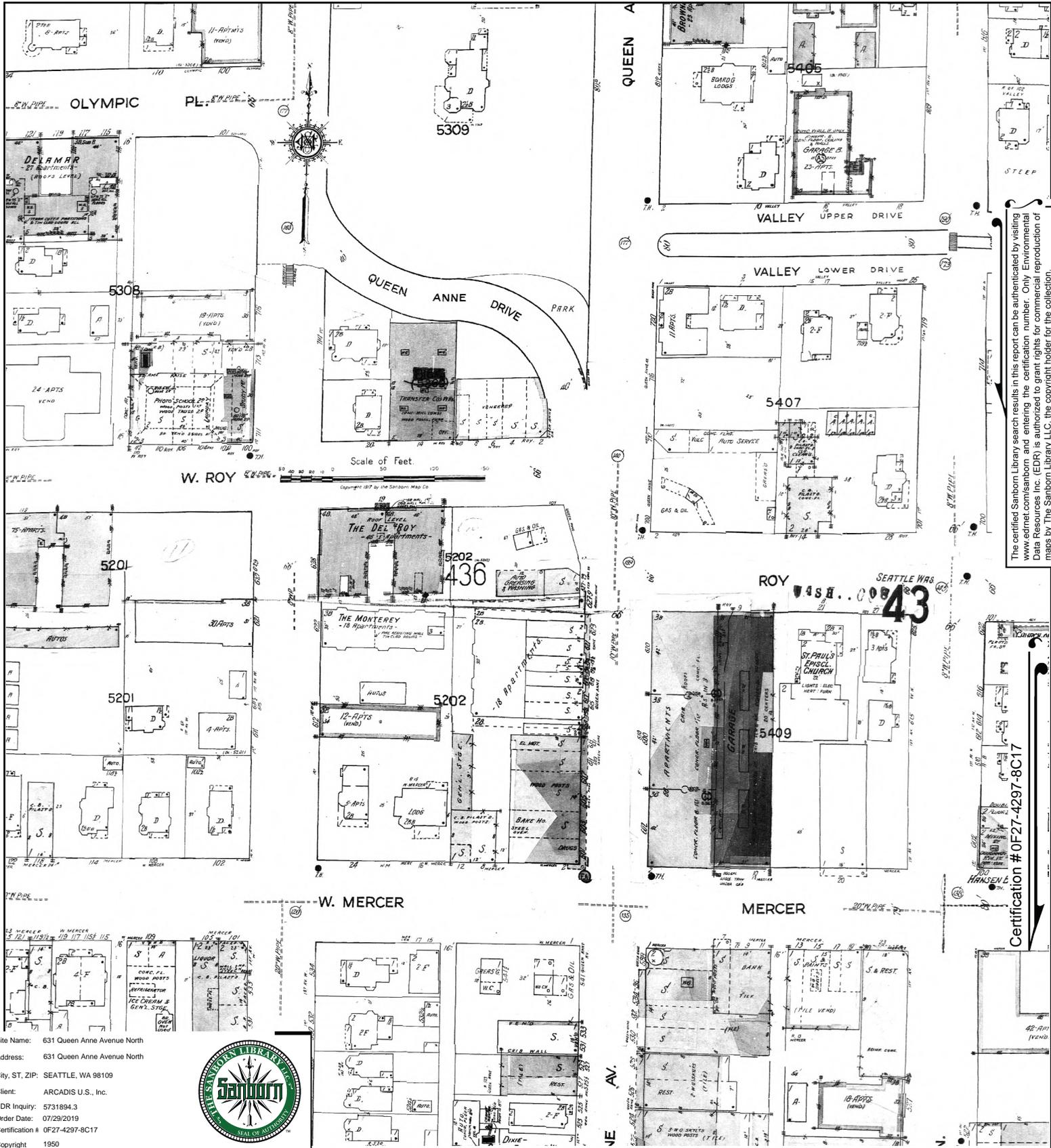
Site Name: 631 Queen Anne Avenue North  
 Address: 631 Queen Anne Avenue North  
 City, ST, ZIP: SEATTLE, WA 98109  
 Client: ARCADIS U.S., Inc.  
 EDR Inquiry: 5731894.3  
 Order Date: 07/29/2019  
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Volume 4, Sheet 436  
 Volume 4, Sheet 435



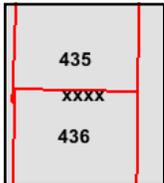
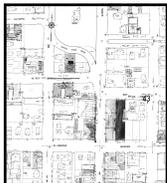
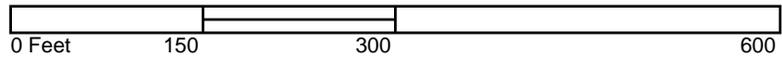
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Site Name: 631 Queen Anne Avenue North  
 Address: 631 Queen Anne Avenue North  
 City, ST, ZIP: SEATTLE, WA 98109  
 Client: ARCADIS U.S., Inc.  
 EDR Inquiry: 5731894.3  
 Order Date: 07/29/2019  
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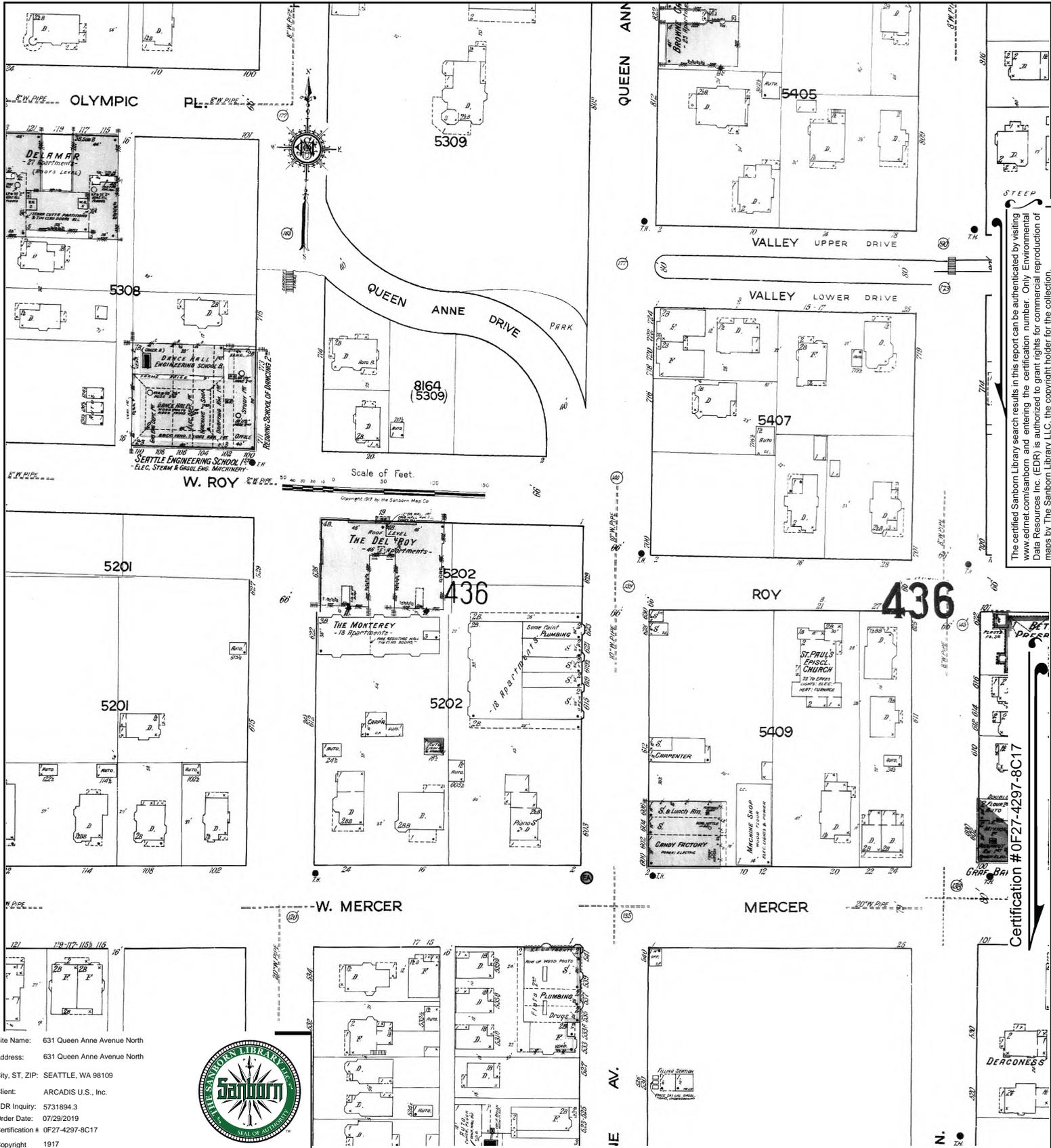


This Certified Sanborn Map combines the following sheets. Outlined areas indicate map sheets within the collection.



Volume 1, Sheet xxxx  
 Volume 4, Sheet 436  
 Volume 4, Sheet 435





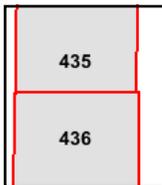
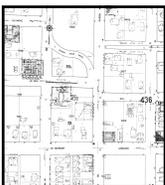
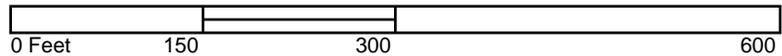
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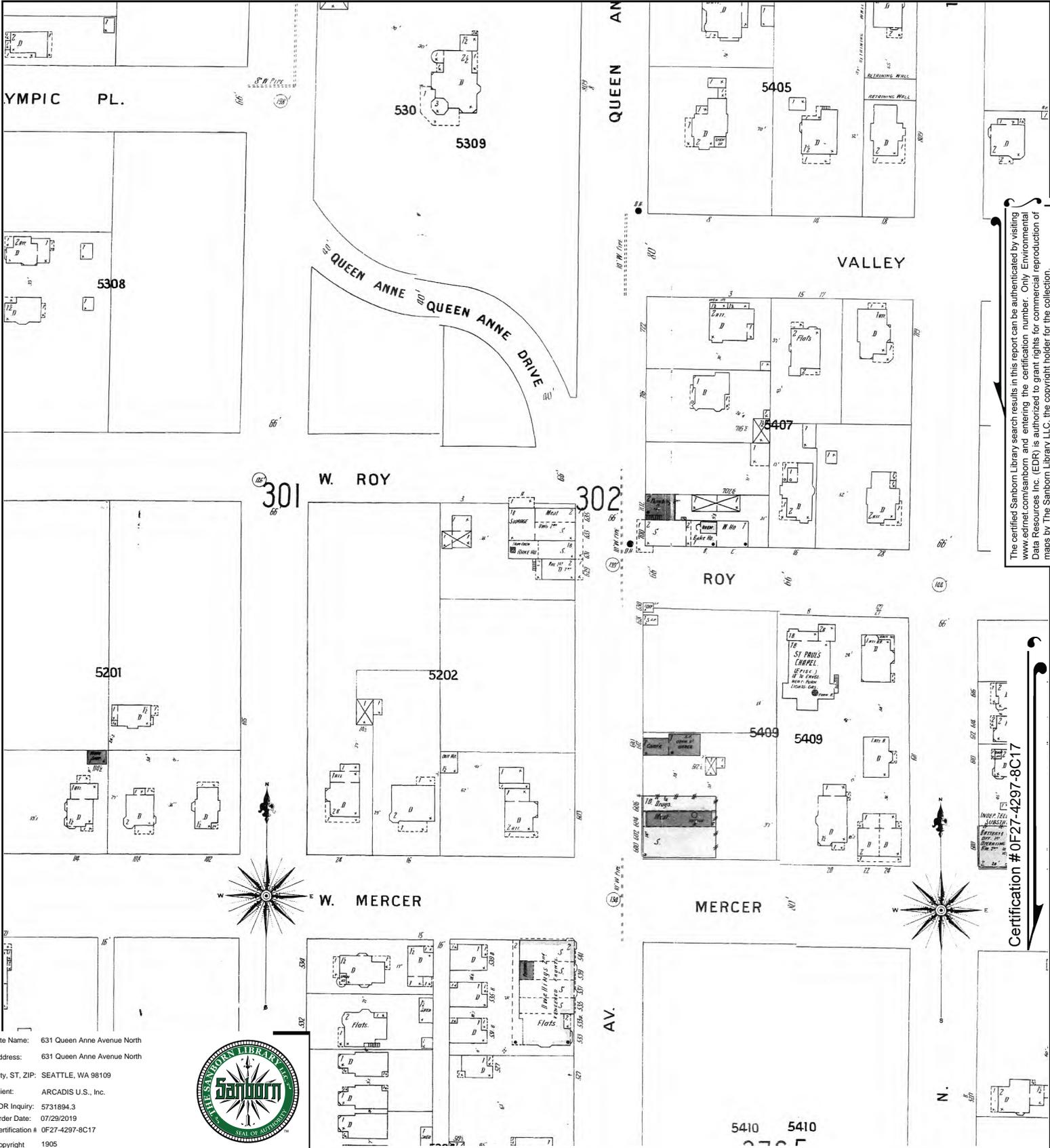


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Volume 4, Sheet 436  
 Volume 4, Sheet 435





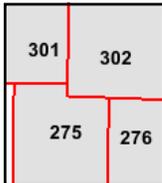
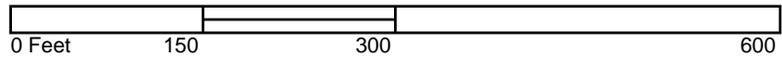
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 EDR Inquiry: 5731894.3  
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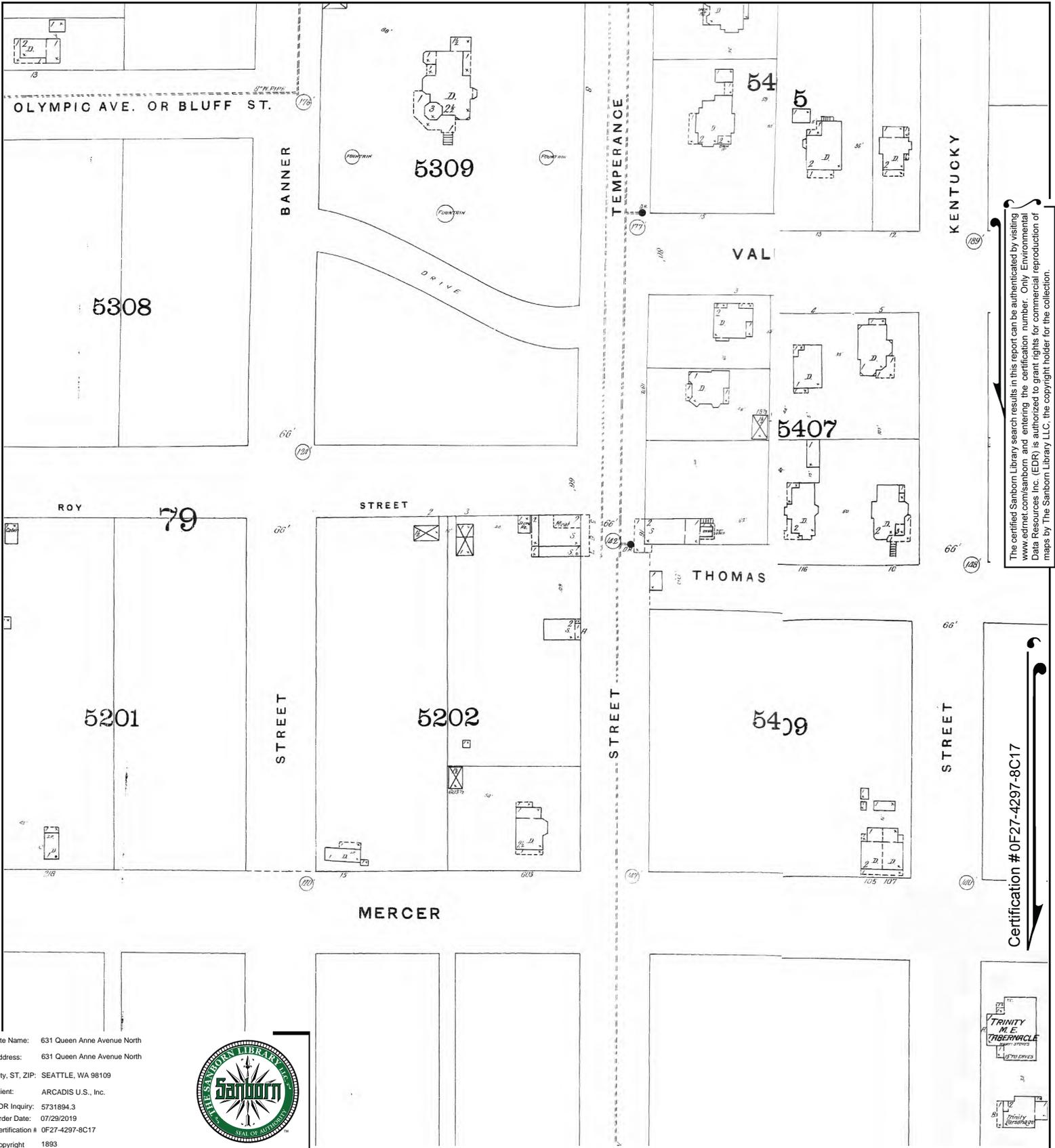


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 Outlined areas indicate map sheets within the collection.



Volume 3, Sheet 302  
 Volume 3, Sheet 301  
 Volume 3, Sheet 276  
 Volume 3, Sheet 275



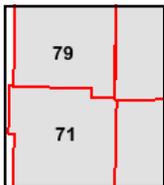
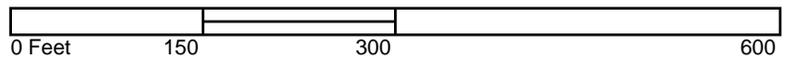


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Certification # 0F27-4297-8C17



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 Outlined areas indicate map sheets within the collection.



- Volume 2, Sheet 79
- Volume 2, Sheet 79
- Volume 2, Sheet 71
- Volume 2, Sheet 71



631 Queen Anne Avenue North  
631 Queen Anne Avenue North  
SEATTLE, WA 98109

Inquiry Number: 5731894.4

July 29, 2019

# EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Historical Topo Map Report

07/29/19

**Site Name:**

631 Queen Anne Avenue North  
631 Queen Anne Avenue North  
SEATTLE, WA 98109  
EDR Inquiry # 5731894.4

**Client Name:**

ARCADIS U.S., Inc.  
111 SW Columbia Street  
Portland, OR 97201  
Contact: Julia Vidonish



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by ARCADIS U.S., Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

**Search Results:**

**Coordinates:**

**P.O.#** NA  
**Project:** NA

**Latitude:** 47.625498 47° 37' 32" North  
**Longitude:** -122.35711 -122° 21' 26" West  
**UTM Zone:** Zone 10 North  
**UTM X Meters:** 548302.66  
**UTM Y Meters:** 5274877.45  
**Elevation:** 146.24' above sea level

**Maps Provided:**

2014	1895
1983	1894
1973	
1968	
1949	
1909	
1908	
1897	

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## Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 2014 Source Sheets



Seattle North  
2014  
7.5-minute, 24000



Shilshole Bay  
2014  
7.5-minute, 24000



Duwamish Head  
2014  
7.5-minute, 24000



Seattle South  
2014  
7.5-minute, 24000

### 1983 Source Sheets



Seattle South  
1983  
7.5-minute, 25000  
Aerial Photo Revised 1977



Seattle North  
1983  
7.5-minute, 25000  
Aerial Photo Revised 1977

### 1973 Source Sheets



Shilshole Bay  
1973  
7.5-minute, 24000  
Aerial Photo Revised 1968



Seattle South  
1973  
7.5-minute, 24000  
Aerial Photo Revised 1973

### 1968 Source Sheets



Shilshole Bay  
1968  
7.5-minute, 24000  
Aerial Photo Revised 1968



Duwamish Head  
1968  
7.5-minute, 24000  
Aerial Photo Revised 1968



Seattle South  
1968  
7.5-minute, 24000  
Aerial Photo Revised 1968



Seattle North  
1968  
7.5-minute, 24000  
Aerial Photo Revised 1968

## Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 1949 Source Sheets



Duwamish Head  
1949  
7.5-minute, 24000  
Aerial Photo Revised 1943



Seattle North  
1949  
7.5-minute, 24000  
Aerial Photo Revised 1943



Shilshole Bay  
1949  
7.5-minute, 24000  
Aerial Photo Revised 1943

### 1909 Source Sheets



Seattle Special  
1909  
15-minute, 62500



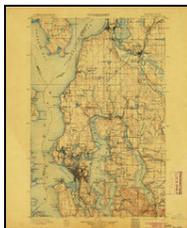
Seattle  
1909  
15-minute, 62500

### 1908 Source Sheets

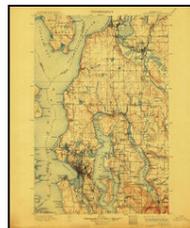


Seattle  
1908  
15-minute, 62500

### 1897 Source Sheets



Seattle  
1897  
30-minute, 125000



Snohomish  
1897  
30-minute, 125000

## ***Topo Sheet Key***

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### **1895 Source Sheets**



Snohomish  
1895  
30-minute, 125000

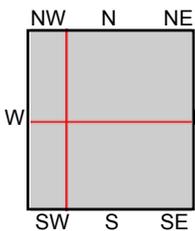
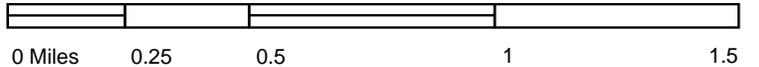
### **1894 Source Sheets**



Seattle  
1894  
15-minute, 62500



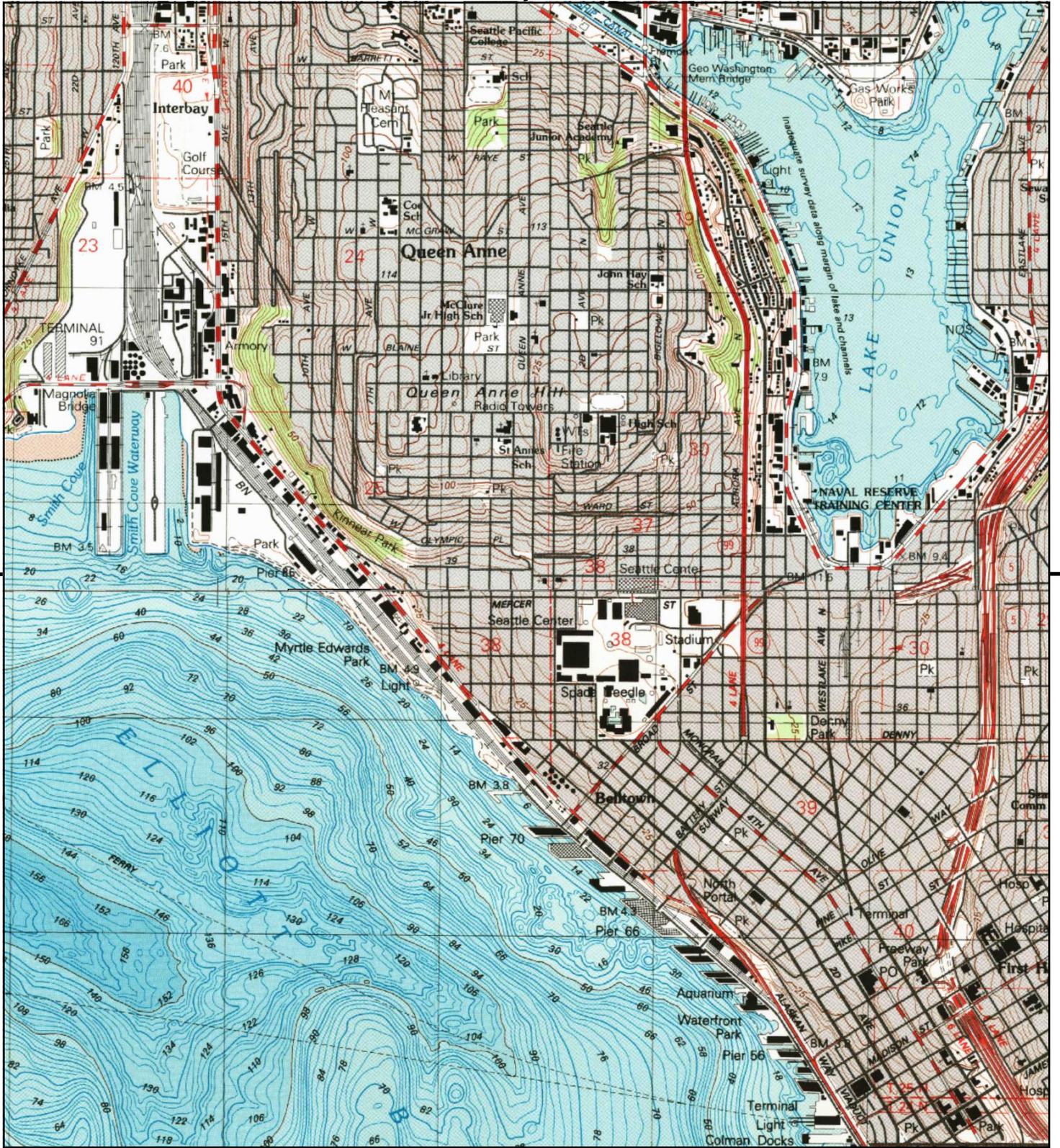
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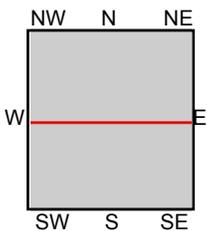
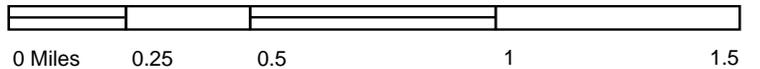
TP, Seattle North, 2014, 7.5-minute  
 SE, Seattle South, 2014, 7.5-minute  
 SW, Duwamish Head, 2014, 7.5-minute  
 NW, Shilshole Bay, 2014, 7.5-minute

SITE NAME: 631 Queen Anne Avenue North  
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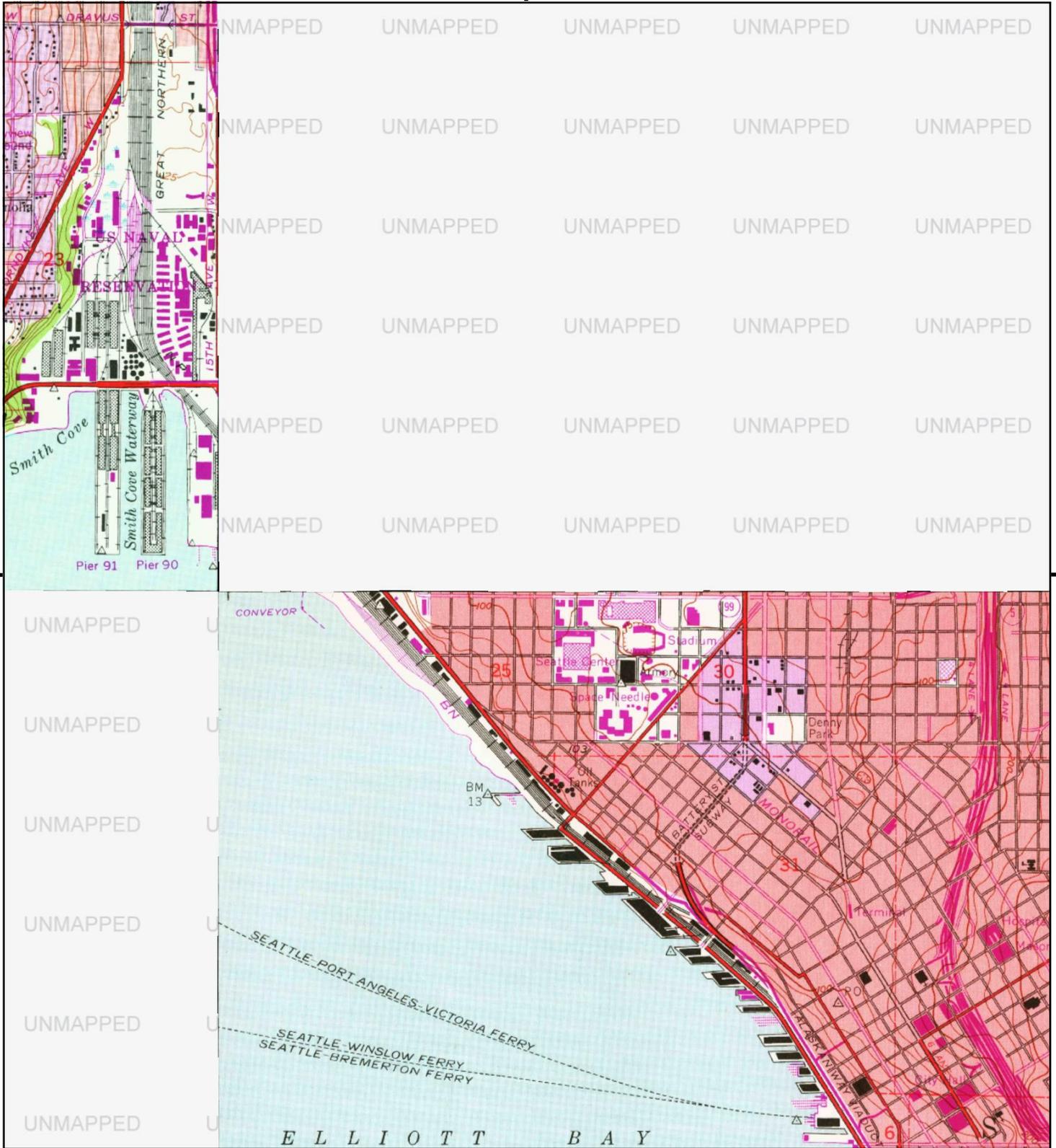
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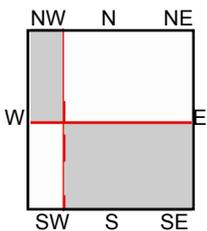
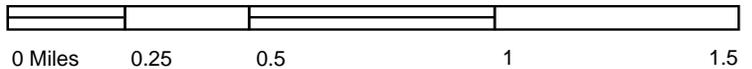
TP, Seattle North, 1983, 7.5-minute  
S, Seattle South, 1983, 7.5-minute

SITE NAME: 631 Queen Anne Avenue North  
ADDRESS: 631 Queen Anne Avenue North  
SEATTLE, WA 98109  
CLIENT: ARCADIS U.S., Inc.





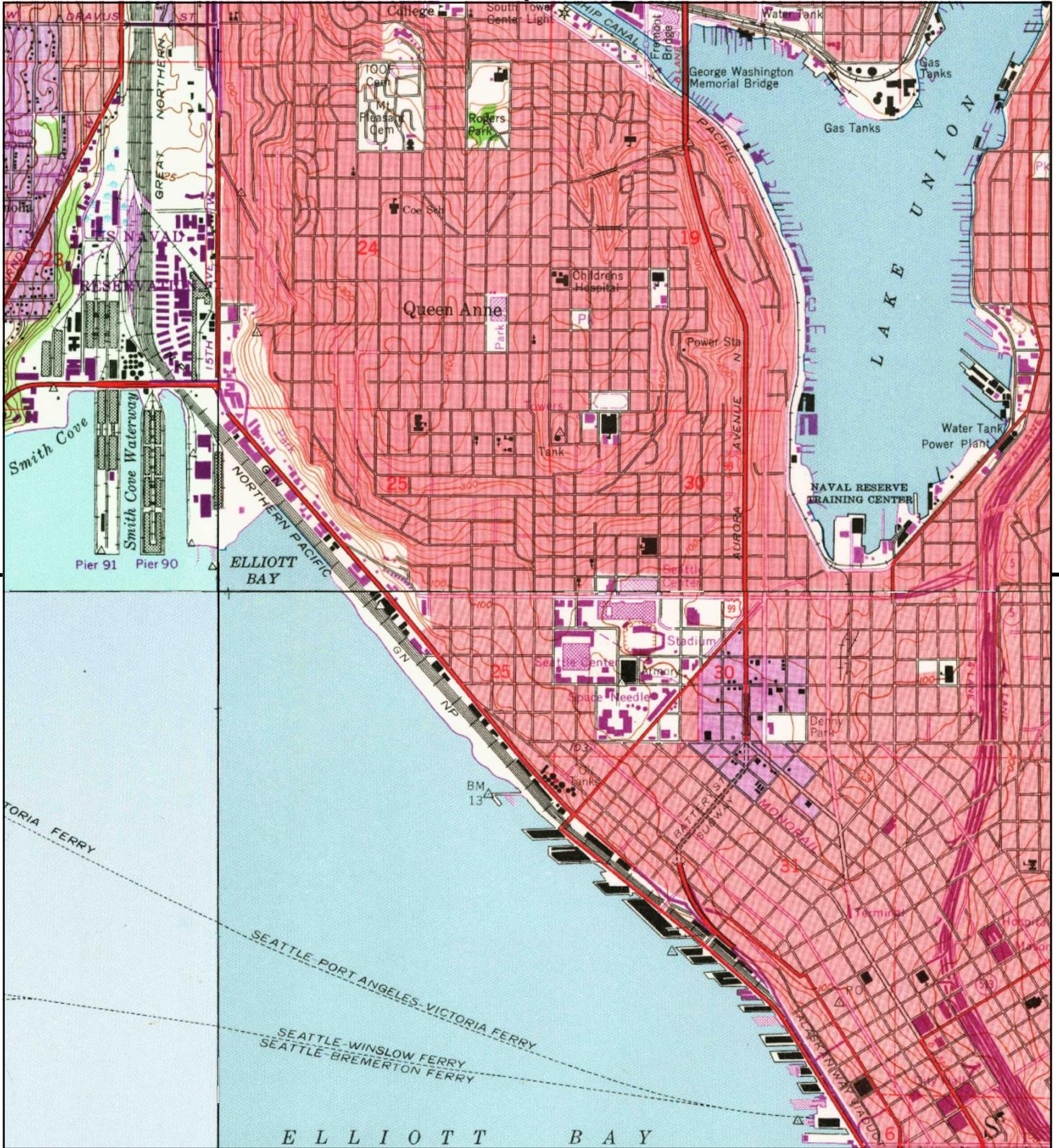
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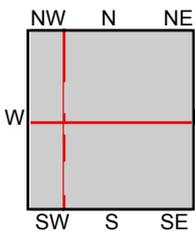
SE, Seattle South, 1973, 7.5-minute  
 NW, Shilshole Bay, 1973, 7.5-minute

**SITE NAME:** 631 Queen Anne Avenue North  
**ADDRESS:** 631 Queen Anne Avenue North  
 SEATTLE, WA 98109  
**CLIENT:** ARCADIS U.S., Inc.

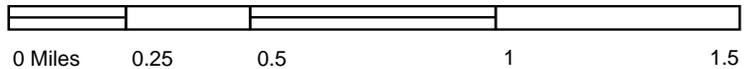




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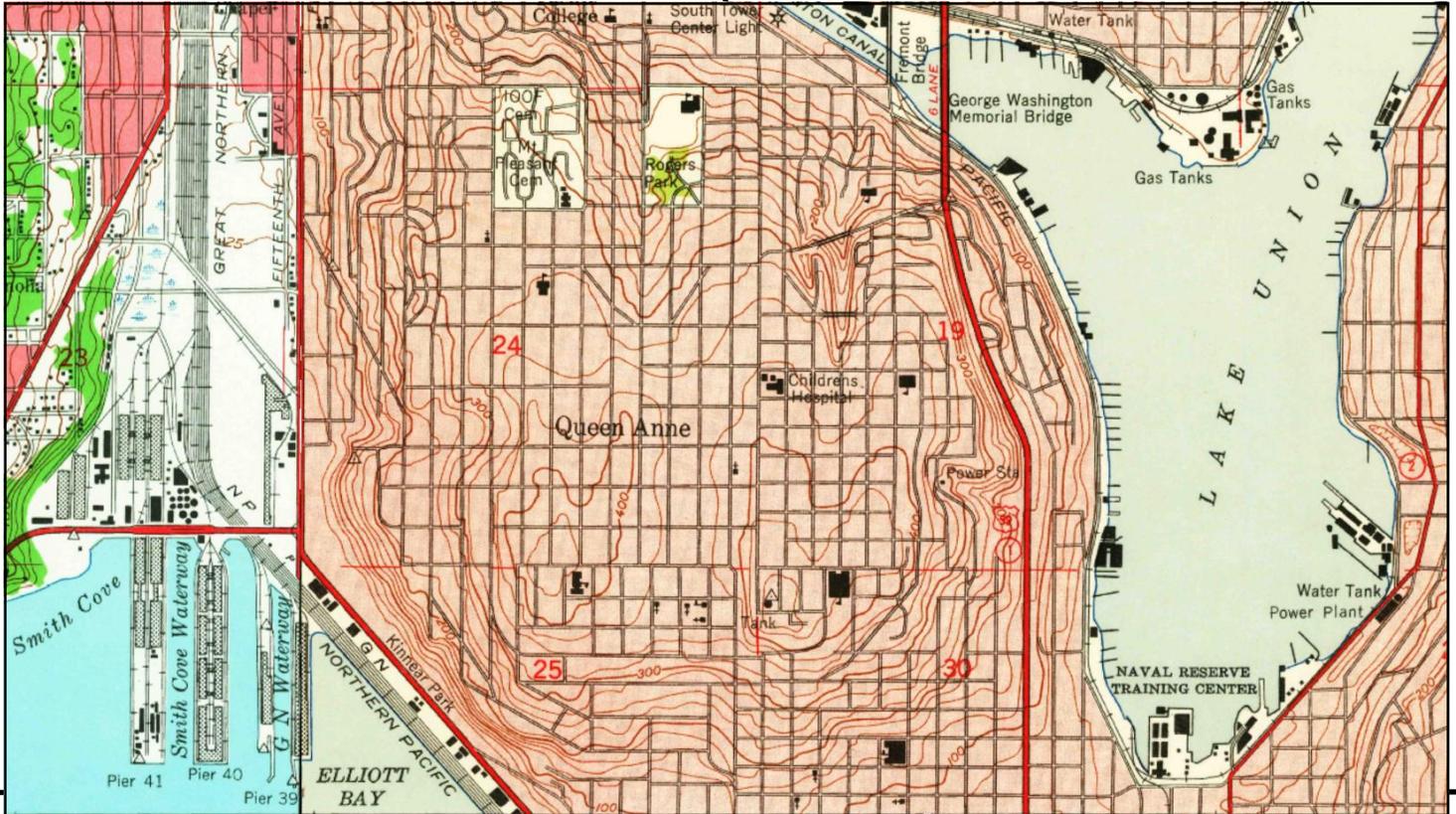


TP, Seattle North, 1968, 7.5-minute  
 SE, Seattle South, 1968, 7.5-minute  
 SW, Duwamish Head, 1968, 7.5-minute  
 NW, Shilshole Bay, 1968, 7.5-minute

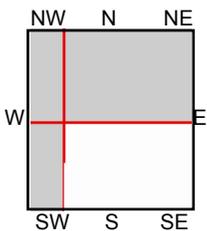
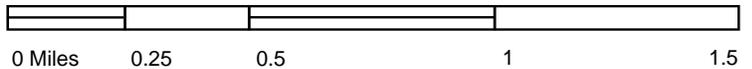


SITE NAME: 631 Queen Anne Avenue North  
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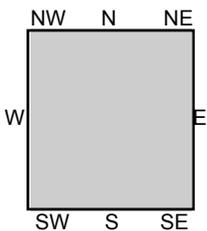
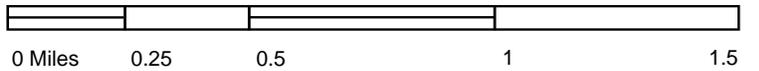
TP, Seattle North, 1949, 7.5-minute  
 SW, Duwamish Head, 1949, 7.5-minute  
 NW, Shilshole Bay, 1949, 7.5-minute

**SITE NAME:** 631 Queen Anne Avenue North  
**ADDRESS:** 631 Queen Anne Avenue North  
 SEATTLE, WA 98109  
**CLIENT:** ARCADIS U.S., Inc.





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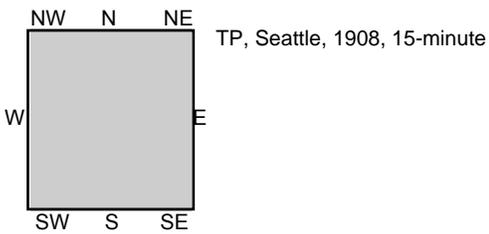
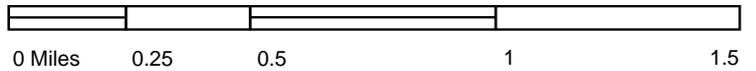
TP, Seattle Special, 1909, 15-minute  
 TP, Seattle, 1909, 15-minute

SITE NAME: 631 Queen Anne Avenue North  
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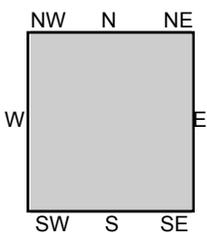


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ADDRESS: 631 Queen Anne Avenue North  
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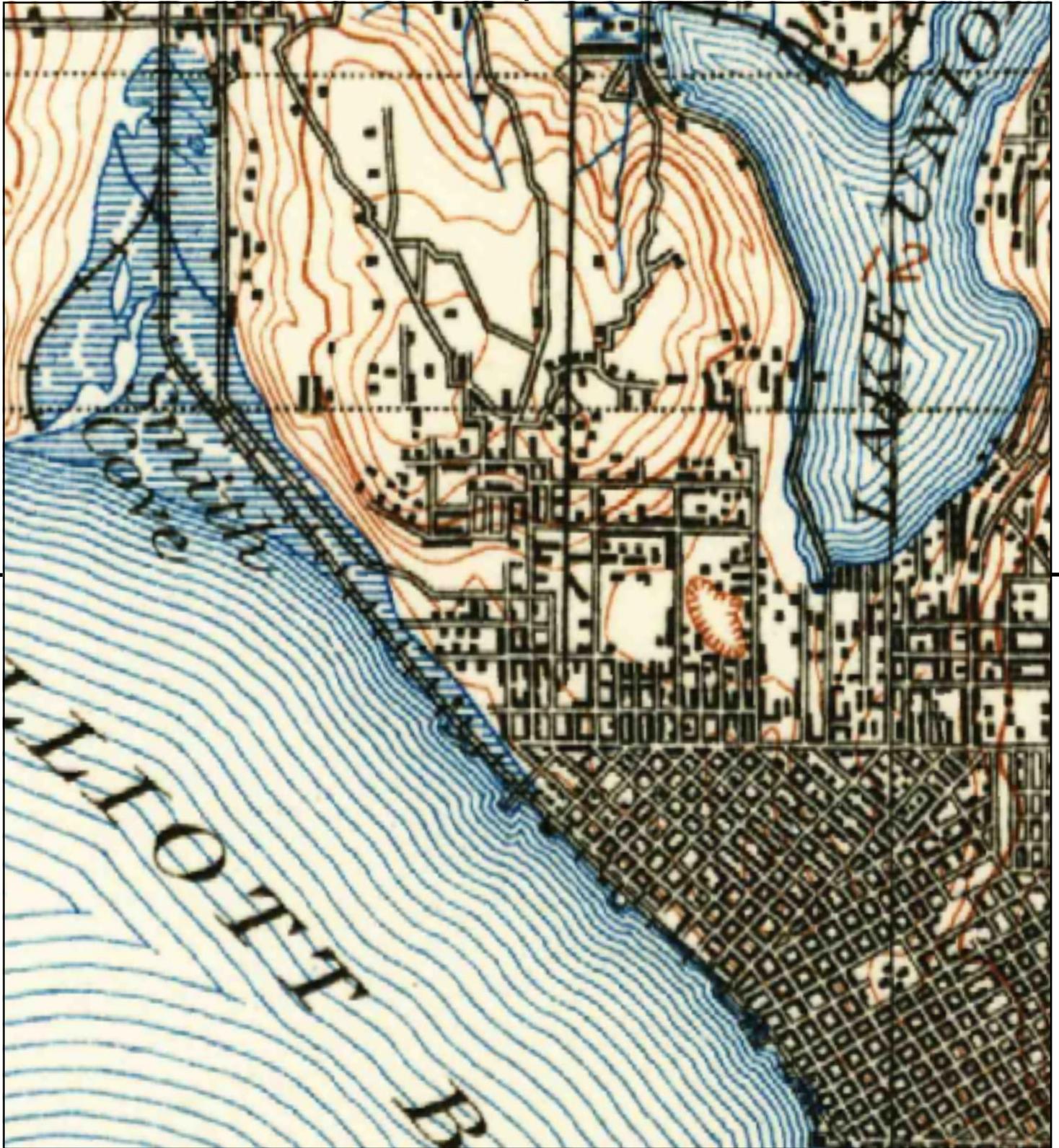
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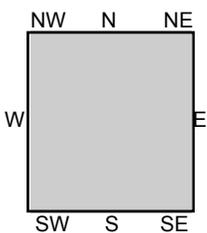
TP, Seattle, 1897, 30-minute  
TP, Snohomish, 1897, 30-minute

SITE NAME: 631 Queen Anne Avenue North  
ADDRESS: 631 Queen Anne Avenue North  
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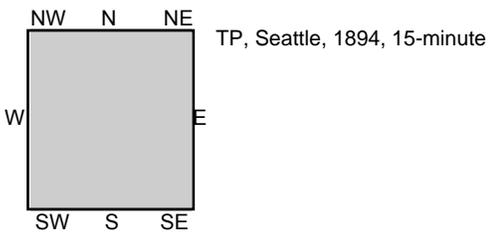
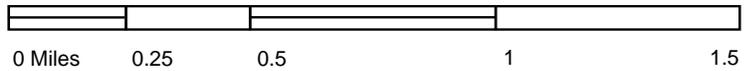
TP, Snohomish, 1895, 30-minute

SITE NAME: 631 Queen Anne Avenue North  
 ADDRESS: 631 Queen Anne Avenue North  
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This report includes information from the following map sheet(s).



SITE NAME: 631 Queen Anne Avenue North  
ADDRESS: 631 Queen Anne Avenue North  
SEATTLE, WA 98109  
CLIENT: ARCADIS U.S., Inc.



# APPENDIX D

## Boring Logs



# BORING NO.   1

Logged By   GK  

Date   2/2/82  

ELEV.   105<sup>±</sup>  

Graph	US CS	Soil Description	Depth (ft.)	Sample	(N) Blows Ft.	W (%)	
▨	CH	(4" asphalt) Tan mottled silty CLAY, hard, moist	0	I	21	32	$q_u = 4.25 \text{tsf}$ LL=66, PL=30
▨	SM SP	Tan silty fine SAND, very dense, wet  Grades below 15' to SAND with silt and gravel  (With a 5" layer of sandy GRAVEL at 18')	5 10 15 20	I I I I	45 50 71 90/11"	22 27 21 14	
▨	ML	Gray to tan laminated SILT, very dense, wet	25	I	54/4"	27	
			28.5	T	53/6"	26	

Boring terminated at 28.5' below existing grade.  
 Water observation well installed to bottom of boring.  
 Boring sealed at 8'.

**Earth Consultants Inc.**  
 GEOTECHNICAL ENGINEERING & GEOLOGY



**BORING LOG**  
 WEST MERCER BUILDING  
 SEATTLE, WASHINGTON

Proj. No. 1728

Date Feb. '82

Plate 3

# BORING NO. 2

Logged By GK

Date 2/2/82

ELEV. 104<sup>+</sup>

Graph	US CS	Soil Description	Depth (ft.)	Sample	(N) Blows Ft.	W (%)	
		(3" asphalt)					
		SM Tan silty fine SAND to fine and medium SP SAND with silt, moist, dense, grading very dense below 7'  (Grades wet below 10') (Grades gravelly below 17')	5	I	32	8	
			10	I	55	8	
			10	2/4/82			
			10	2/2/82			
			15	I	56	25	
			15	I	83/11"	19	
			15	I	50/5"	21	
		ML Gray laminated SILT with trace of sand and clay, very dense, wet	20				
			25	I	50/5"	26	
			25	I	53/6"	26	
			30	I	50/4"	25	

Boring terminated at 33.5' below existing grade.  
 Water observation well installed to 32.5'.  
 Boring sealed at 7'.

**Earth Consultants Inc.**  
 GEOTECHNICAL ENGINEERING & GEOLOGY



**BORING LOG**

WEST MERCER BUILDING  
 SEATTLE, WASHINGTON

Proj. No. 1728

Date Feb. '82

Plate 4

# BORING NO. 3

Logged By GK

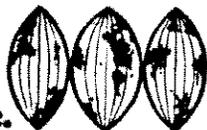
Date 2/2/82

ELEV. 103<sup>+</sup>

Graph	US CS	Soil Description	Depth (ft.)	Sample	(N) Blows Ft.	W (%)
[Cross-hatch pattern]	SM	Gray gravelly silty SAND, very loose, moist (FILL) (distinct petroleum odor)	5	I	3	19
			5	I	3	18
			10	I	13	12
[Dotted pattern]	SM	Gray to tan silty fine SAND, moist, medium dense, grades dense and wet below 10'  (Grades very dense below 17')  (With thin beds of silt at 18')	10	I	40	25
			15	I	54	22
	SM SP	(Grades with less silt below 20')	20	I	51/6"	22
			25	I	50/5"	

Boring terminated at 28.5' below existing grade.  
Water observation well installed to 28'.

**Earth Consultants Inc.**  
GEOTECHNICAL ENGINEERING & GEOLOGY



**BORING LOG**

WEST MERCER BUILDING  
SEATTLE, WASHINGTON

Proj. No. 1728

Date Feb. '82

Plate 5

# BORING NO. 4

Logged By GK

Date 2/3/82

ELEV. 101<sup>+</sup>

Graph	US CS	Soil Description	Depth (ft.)	Sample	(N) Blows Ft.	W (%)
		(3" crushed rock base)				
	SM	Tan and brown silty SAND with a trace of gravel, very loose to medium dense, wet (FILL)  (With pocket of very stiff silty CLAY at 9.5')	5 10	I I	2 11	23 28 34
	SM	Gray-tan silty gravelly SAND, grading below 14' to silty fine SAND, wet, medium dense grading very dense below 15'	15 20 25 30	II I I I I I	11 50/6" 51/6" 63/6" 96/10" 50/4"	16 23 22 22 20 23

Boring terminated at 33.5' below existing grade.  
 Water observation well installed to bottom of boring.  
 Boring sealed from 20.0 to 14'.  
 Second water observation well installed to 13.0'.  
 Second water observation well sealed at 9'

**Earth Consultants Inc.**  
 GEOTECHNICAL ENGINEERING & GEOLOGY



**BORING LOG**

WEST MERCER BUILDING  
 SEATTLE, WASHINGTON

Proj. No. 1728

Date Feb. '82

Plate 6

# BORING NO. 5

Logged By GK  
 Date 2/3/82

ELEV. 100.5<sup>±</sup>

Graph	US CS	Soil Description	Depth (ft.)	Sample	(N) Blows Ft.	W (%)
[Cross-hatched pattern]		GM Black silty sandy GRAVEL with organics SM to silty SAND, loose to medium dense, wet, with distinct petroleum odor (FILL)	5	I	7	18
			10	I	85	19
			10	I	43	15
			13	I	50/5"	24
			15	I	90	26
		SM Tan gravelly silty SAND grading below 12' to silty fine SAND, very dense, wet	17	I	50/5"	24
		(with thin layers of fine sandy SILT at 28')	23	I	55/6"	22
			28	I	50/5"	22
			32	I	54/6"	25
			35	I	70/6"	26

Boring terminated at 38' below existing grade.  
 Water observation well installed to bottom of boring.  
 Lower observation well sealed at 17'.  
 Second observation well installed to 13' below existing grade and sealed at 10'

**Earth Consultants Inc.**  
 GEOTECHNICAL ENGINEERING & GEOLOGY



### BORING LOG

WEST MERCER BUILDING  
 SEATTLE, WASHINGTON

Proj. No. 1728

Date Feb. '82

Plate 7

DRAF

WELL SCHEMA

Casing Elevation: 100.81  
Casing Slickup: -0.26

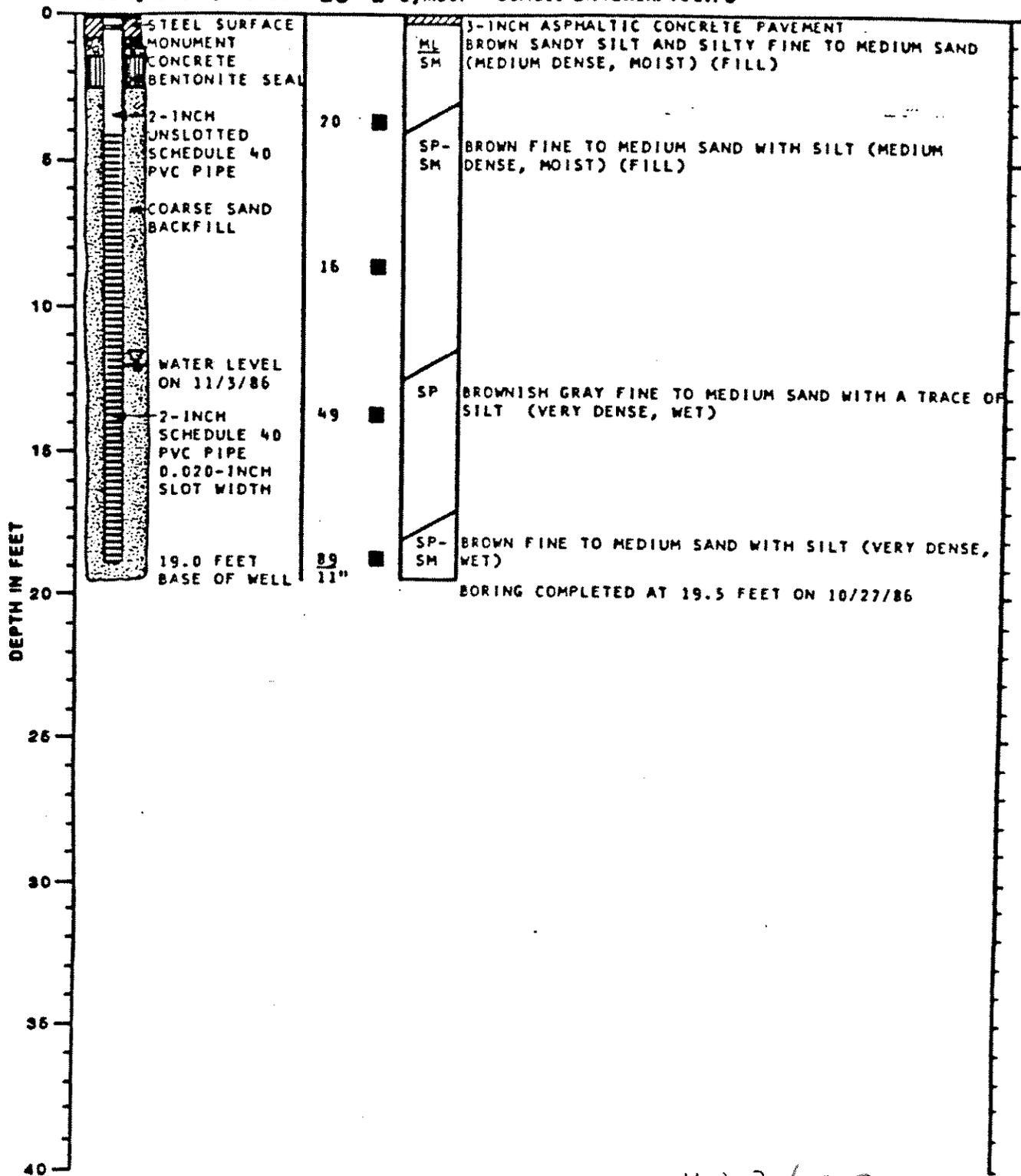
Blow  
Count

Samples

Group  
Symbol

DESCRIPTION

Surface Elevation: 100.78



504-04 JAM:DMP 11-13-86

Note: See Figure 3 for Explanation of Symbols

MW-3/VP-7



GeoEngineers Incorporated

LOG OF MONITOR WELL

FIGURE 4

RAF

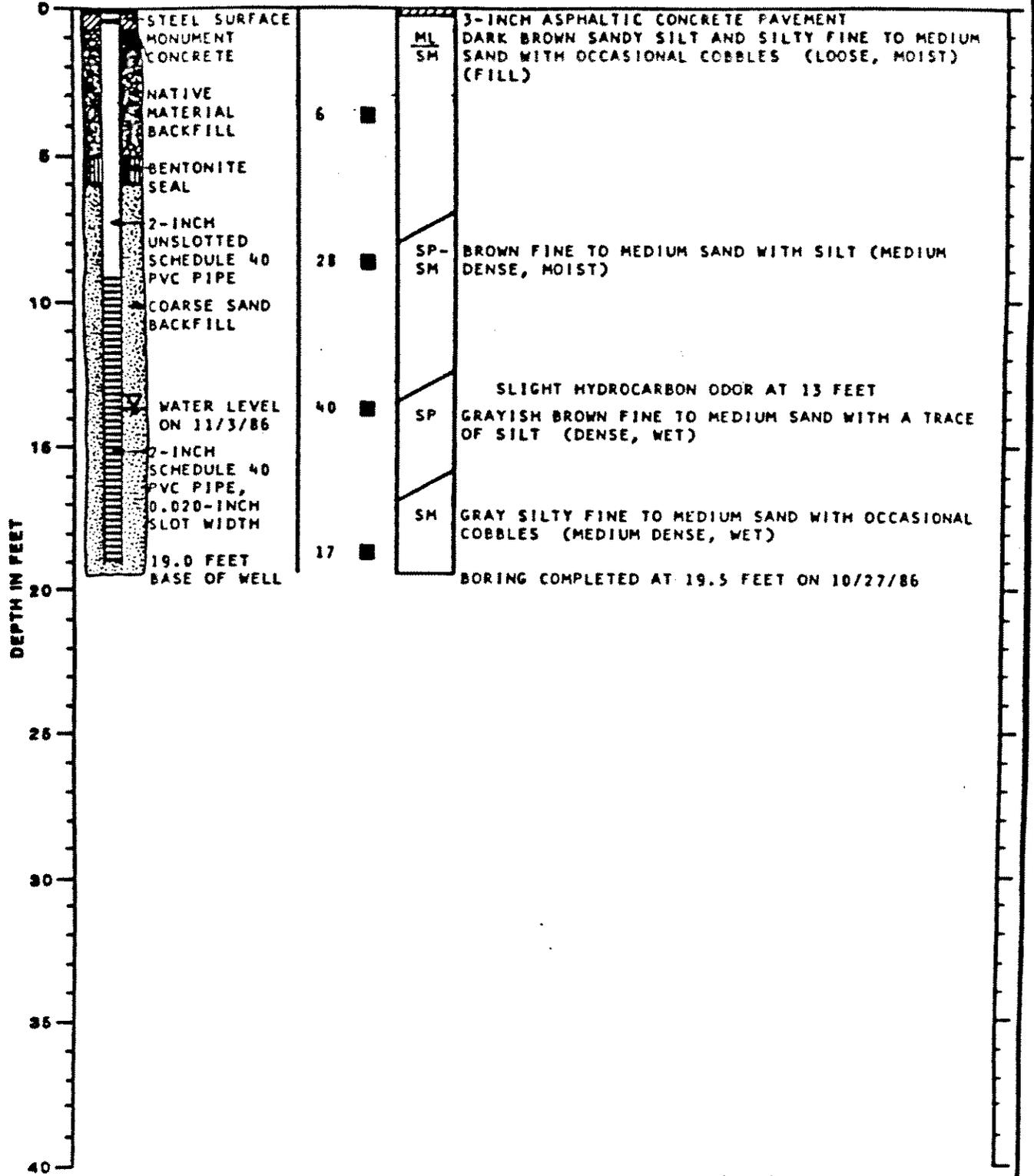
WELL SCHEMATIC

Casing Elevation: 102.08  
Casing Slickup: -0.90

4.5

DESCRIPTION

Surface Elevation: 102.88



504-04 JAN:DMP 11-13-86

MW-4



GeoEngineers Incorporated

LOG OF MONITOR WELL

FIGURE 5

DRAF

WELL SCHEMA:

Casing Elevation: 102.82  
Casing Stickup: -0.20

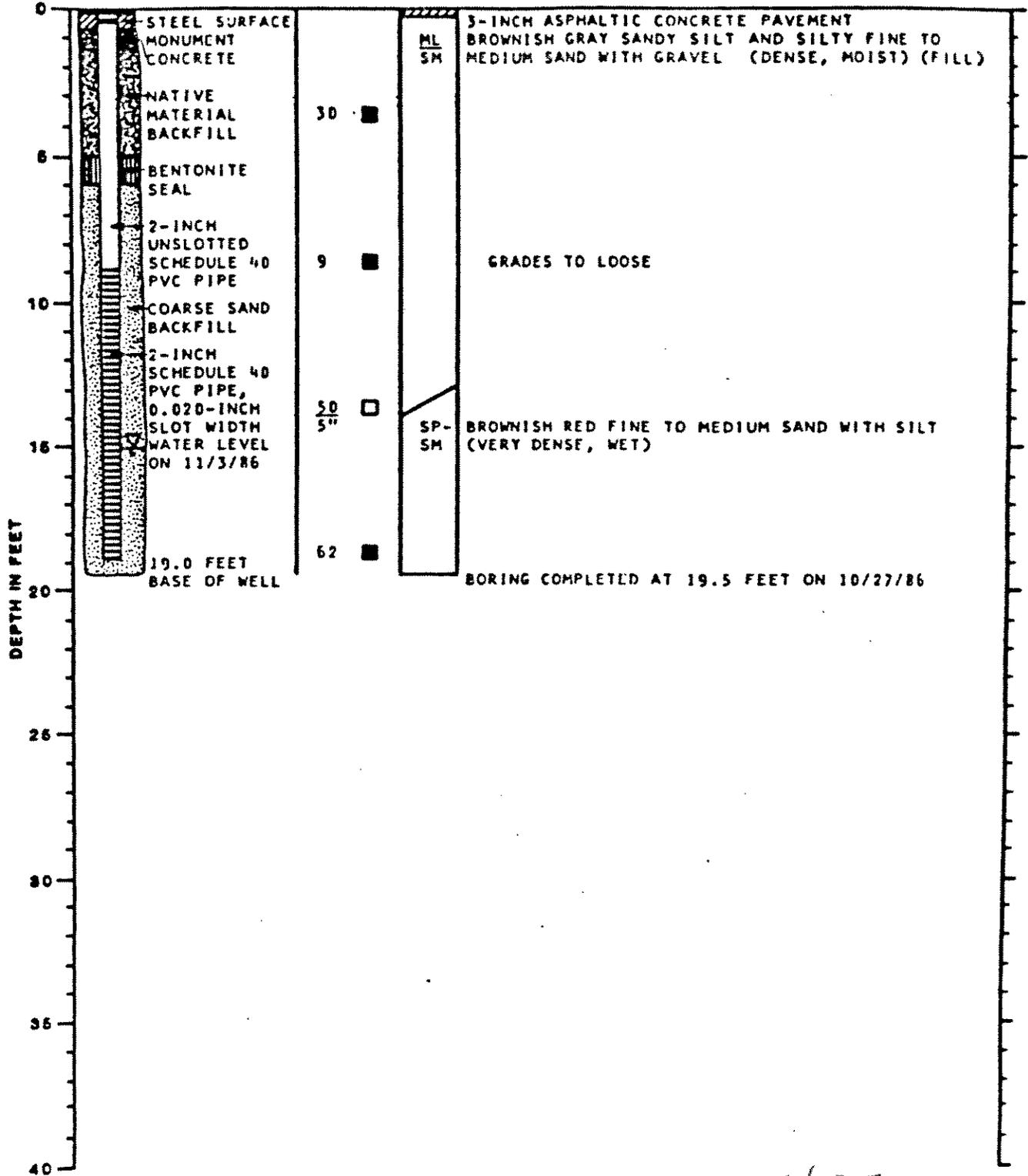
Blow  
Count

Samples

Group  
Symbol

DESCRIPTION

Surface Elevation: 103.21



504-04 JAM:DMP 11-13-86

MW-5/UP-5



GeoEngineers Incorporated

LOG OF MONITOR WELL

FIGURE 6

DRAFT

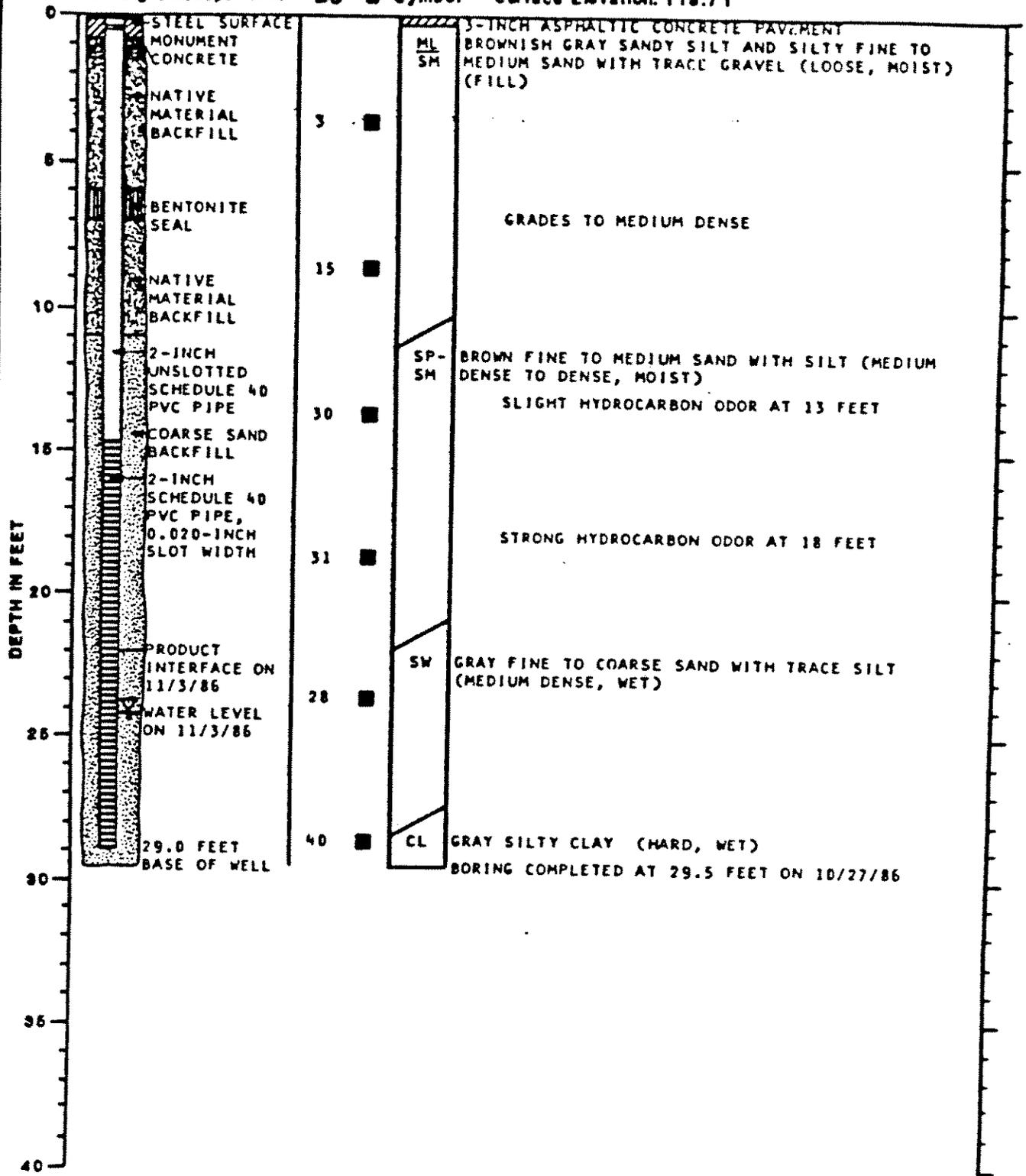
WELL SCHEMA

Casing Elevation: 118.88  
Casing Slickup: -0.88

4.4

DESCRIPTION

Surface Elevation: 118.71



504-04 JAM:DMP 11-13-86

MW-6



GeoEngineers Incorporated

LOG OF MONITOR WELL

FIGURE 7

DRAFT

WELL SCHEMA

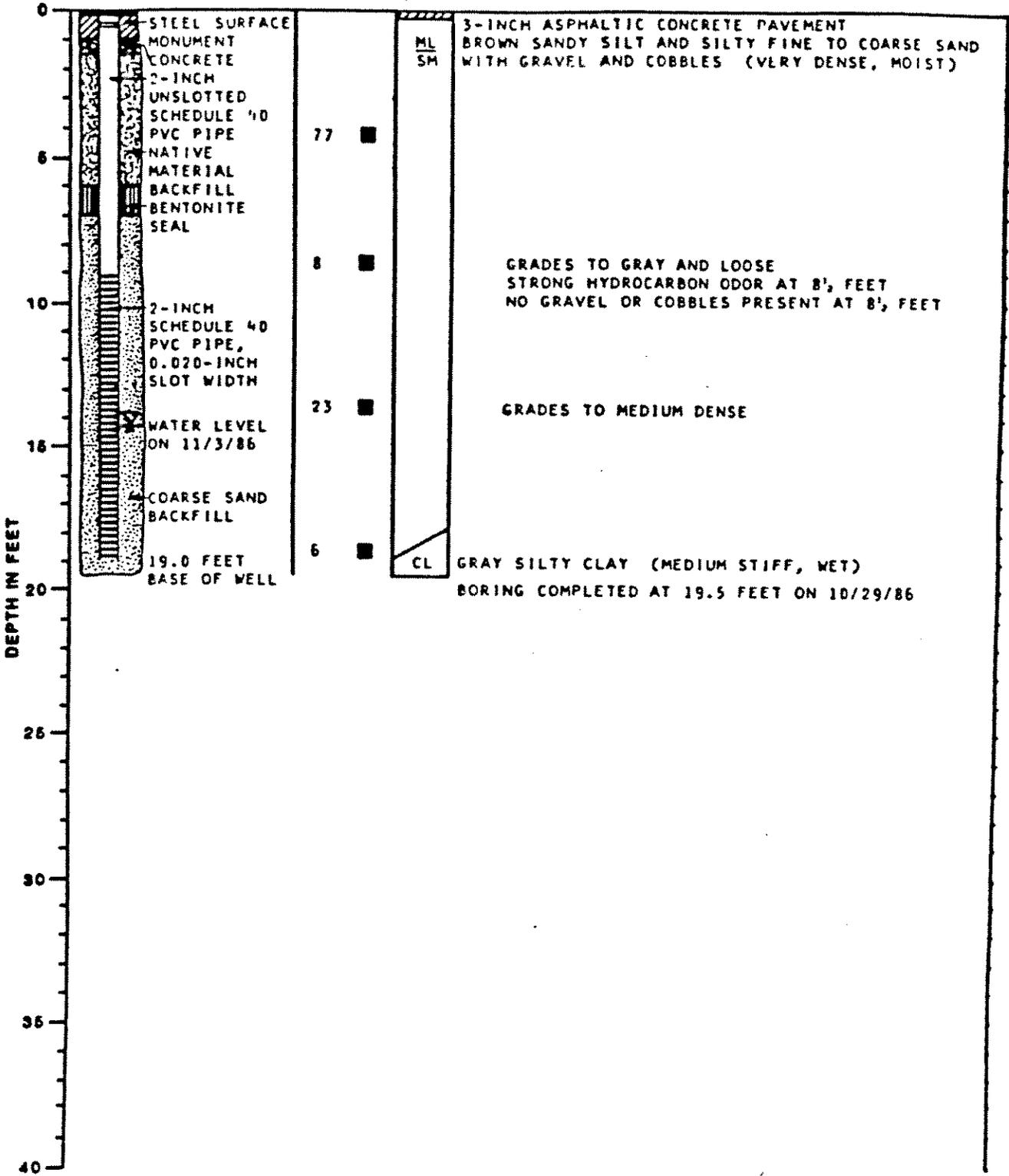
Casing Elevation: 104.88  
Casing Slickup: -0.48

Blow-Count  
Sample

Group Symbol

DESCRIPTION

Surface Elevation: 105.83



504-04 JAM:DMP 11-13-86

MW-7/VP-8



GeoEngineers Incorporated

LOG OF MONITOR WELL

FIGURE 8

DRAFT

WELL SCHEMATIC

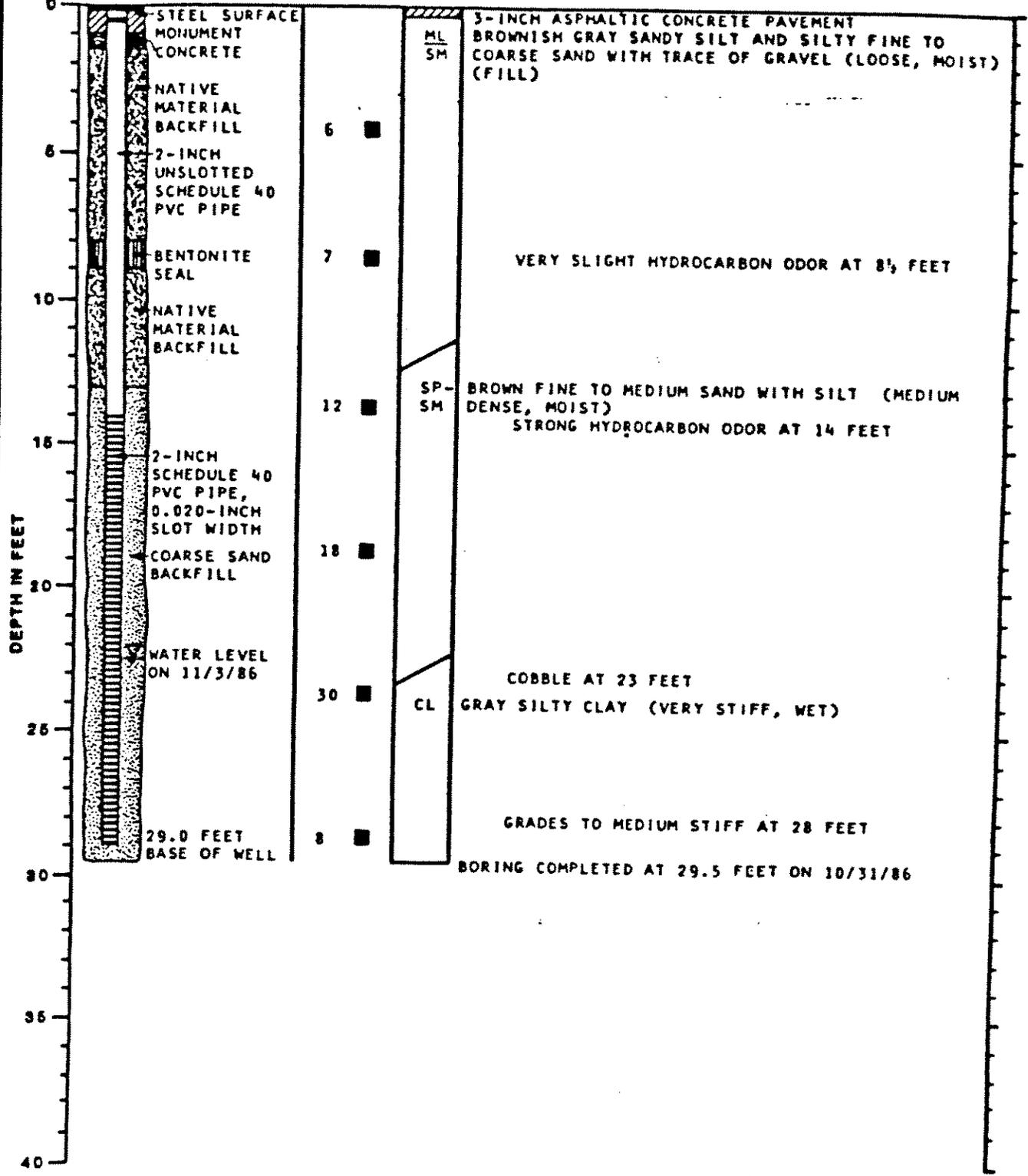
Casing Elevation: 114.40  
Casing Slickup: -0.28

Blow  
Count  
Sample

Group  
Symbol

DESCRIPTION

Surface Elevation: 114.08



JAM:DMP 11-13-86

504-04

MW-9



GeoEngineers Incorporated

LOG OF MONITOR WELL

FIGURE 10

DRAFT

WELL SCHEMA

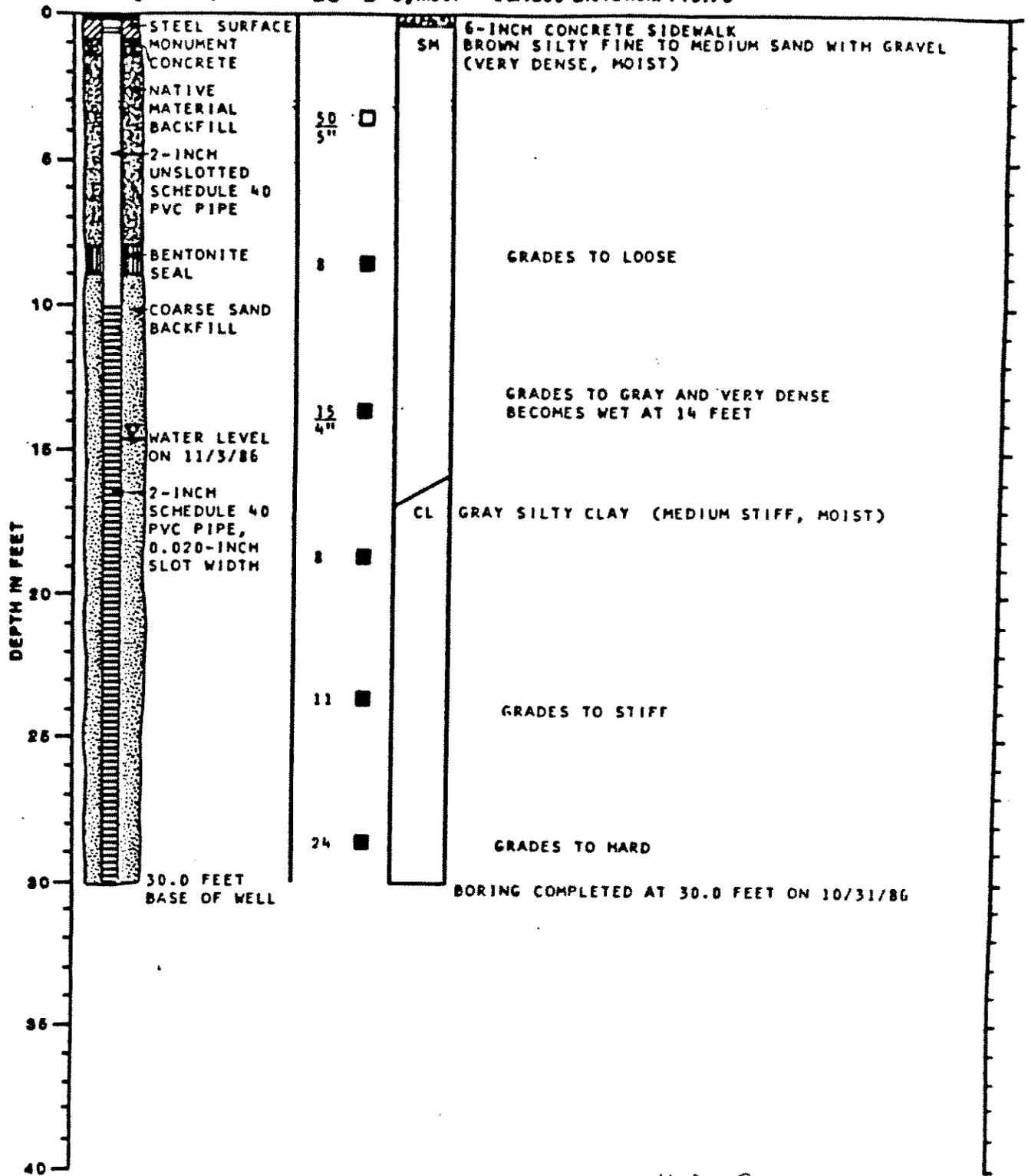
Casing Elevation: 118.48  
Casing Slickup: -0.28

Blow  
Count  
Sampler

Group  
Symbol

DESCRIPTION

Surface Elevation: 118.78



564-04 JAM:DMP 11-13-86

MW-10



GeoEngineers Incorporated

LOG OF MONITOR WELL

FIGURE 11

5-17-93

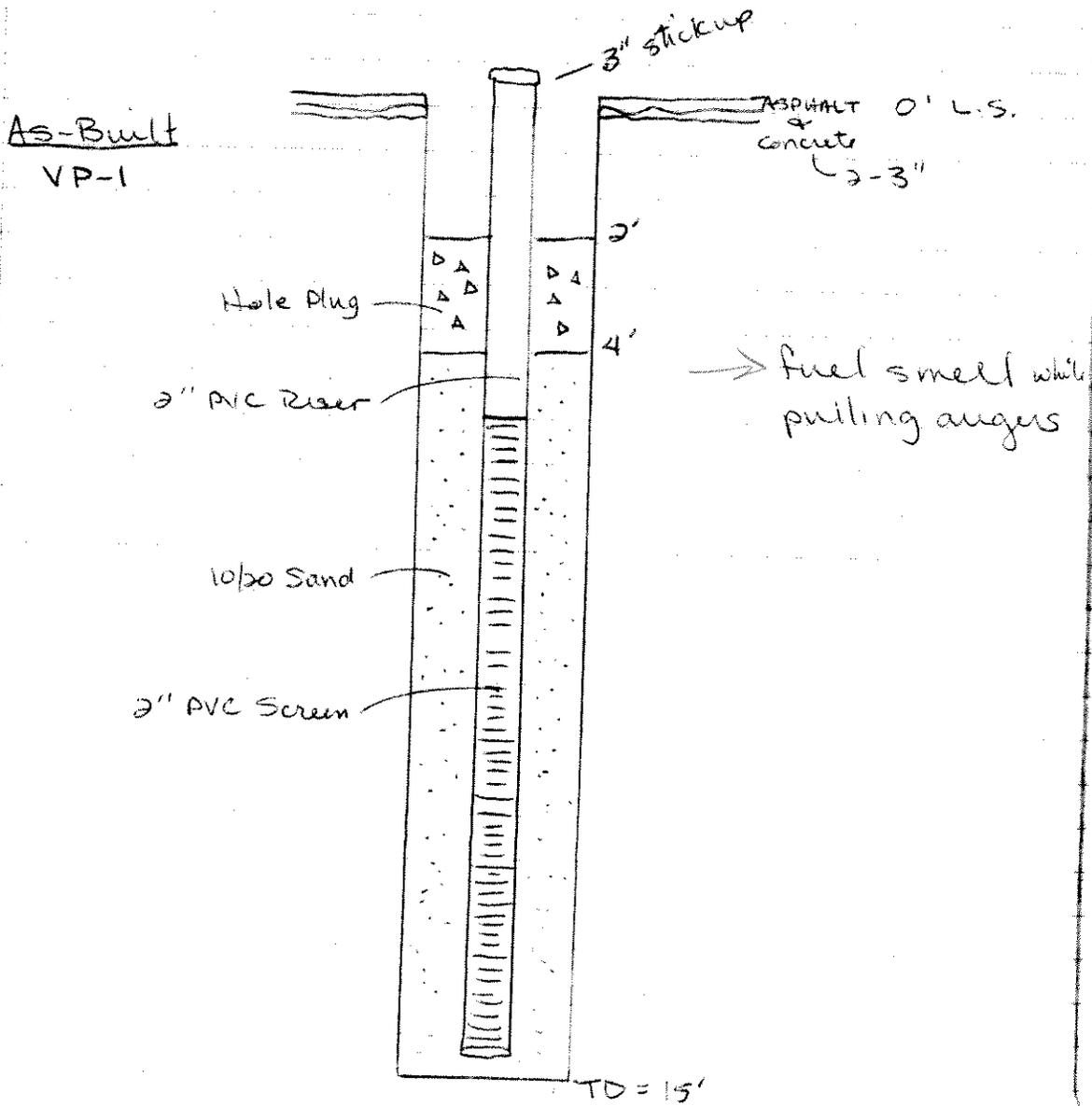
VP-1

- 1 10' 2" PVC Screen
- 1 5' 2" PVC Riser
- 111 bags w/20 sand @ 4
- 1 bag hole plug (hydrated) @ 2

130

131

132



133

134

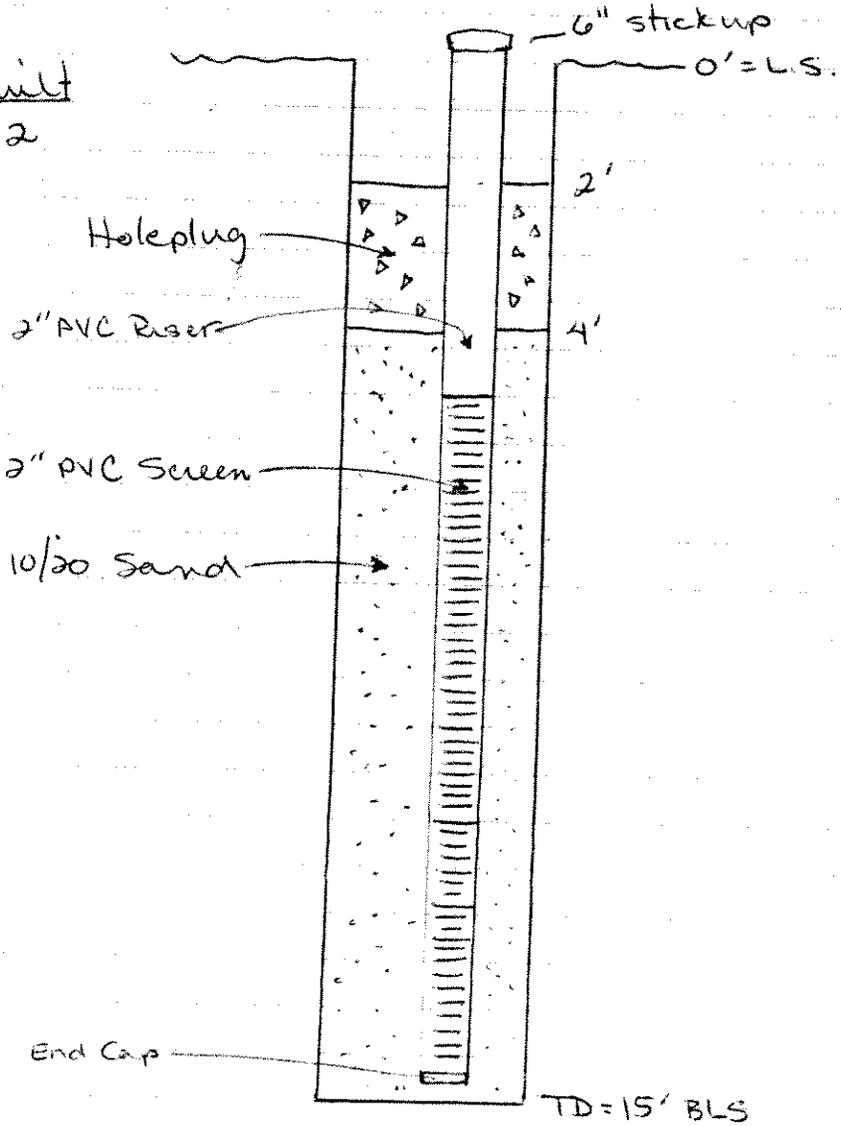
VP-2

1035 TD @ 15'. ~ 2-3" of water at the bottom

1050 Begin well install:

- 1 10' 2" PVC screen w/ end cap
- 1 5' 2" PVC blank
- 1 bags of hole plug (hydrated) @ 2'
- 11 bags of 10/20 sand @ 4'

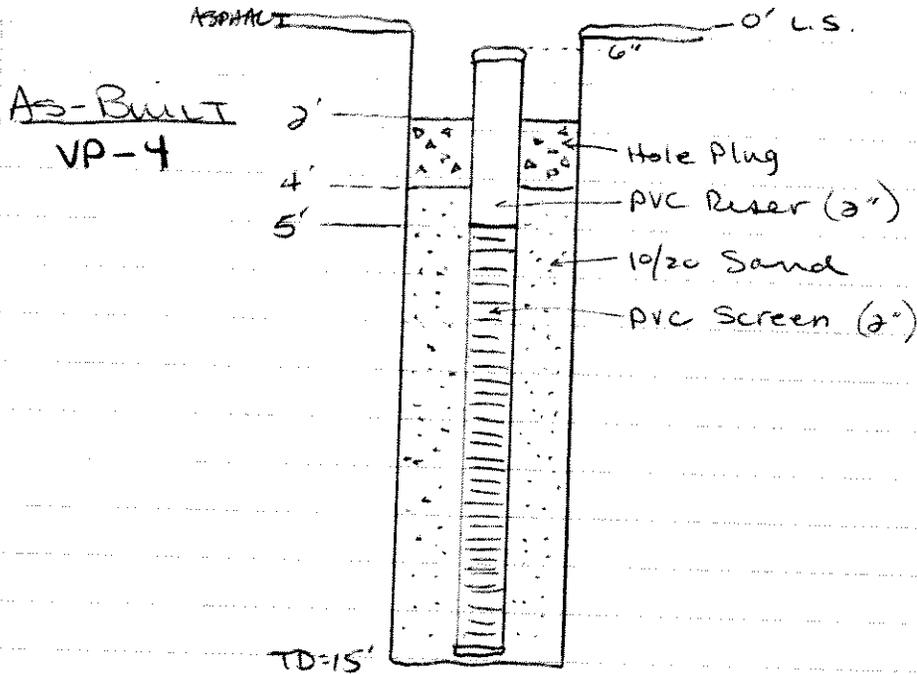
As-Built  
VP-2



5-18-93

17

VP-4



- 0950 Slow auger pulling. Strong fuel smell ←
- 0957. Augers are out
- 1000 Folding Mast down. Pull off VP-4
- 1019 Move to Decou
- Run to Safeway to make copies
- 1030 Drillers Deconning. Go over to Deli & watch tank pull
- 1050 The tank (#1) is out!

5-18-93

VP-6

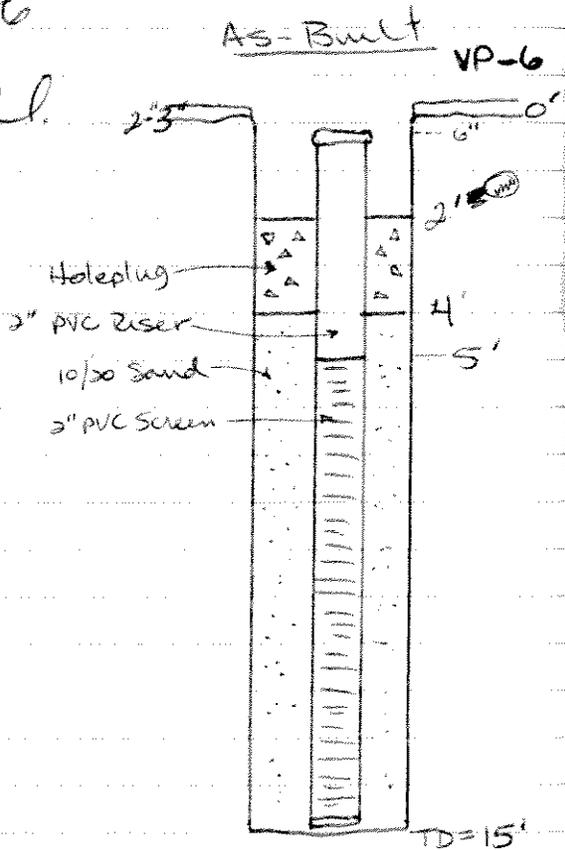
0815 Sample @ 12.5'  
 BC = 6/8/11  
 5Y 4/1 dark gray  
 strong gasoline smell  
 wet  
 SAND - fine-med w/dell silt  
 SP-SM

Drill to 15'. 18" of H<sub>2</sub>O at bottom  
 Doug Pearson on-site

0830 D. Pearson off-site

Begin well install.  
 Setting well at 15' but  
 only using 14.5' of  
 pipe so well is  
 6" below surface

- 1 10' 2" PVC Screen
- 1 4.5' 2" PVC Riser
- 1 1/2 Bags 10/30 Sand
- 1/2 Bag Hole Plug



5-17-93

11

As-Built

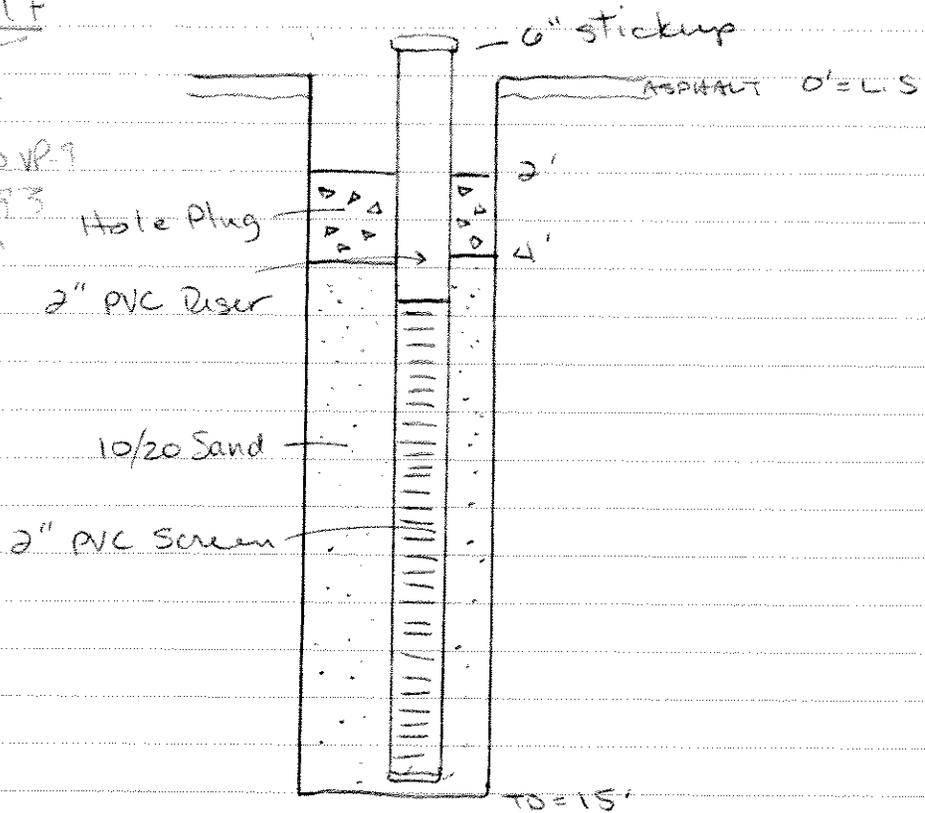
~~VP-8~~

VP-9

changed to VP-9

on 6/10/93

J. Walker



1445 Drillers decommissioning augers.

1530 Signed daily's -  
Drillers off site for the day

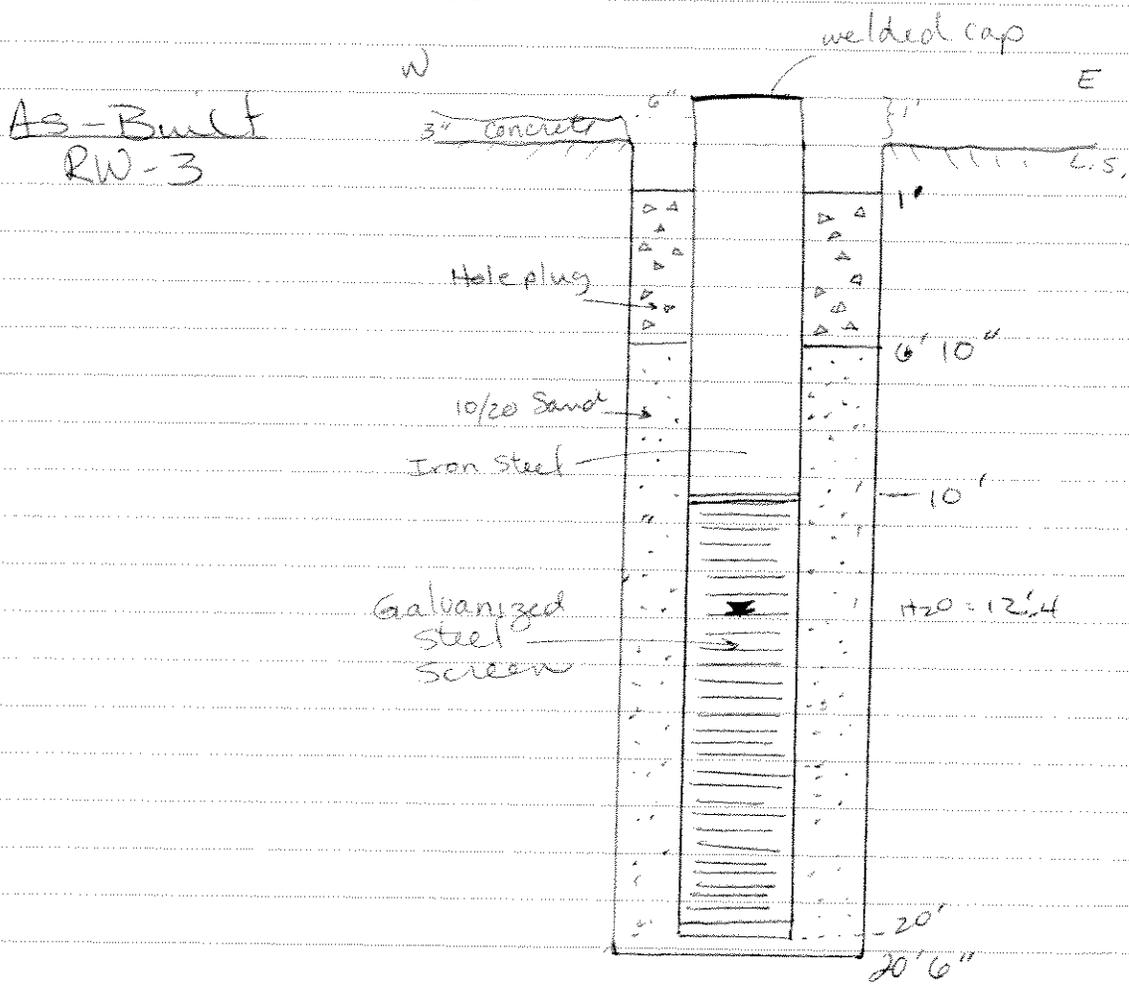
GES securing site

1535 Pouring dry ice down the UST

1350 Ecology folks off-site for the day

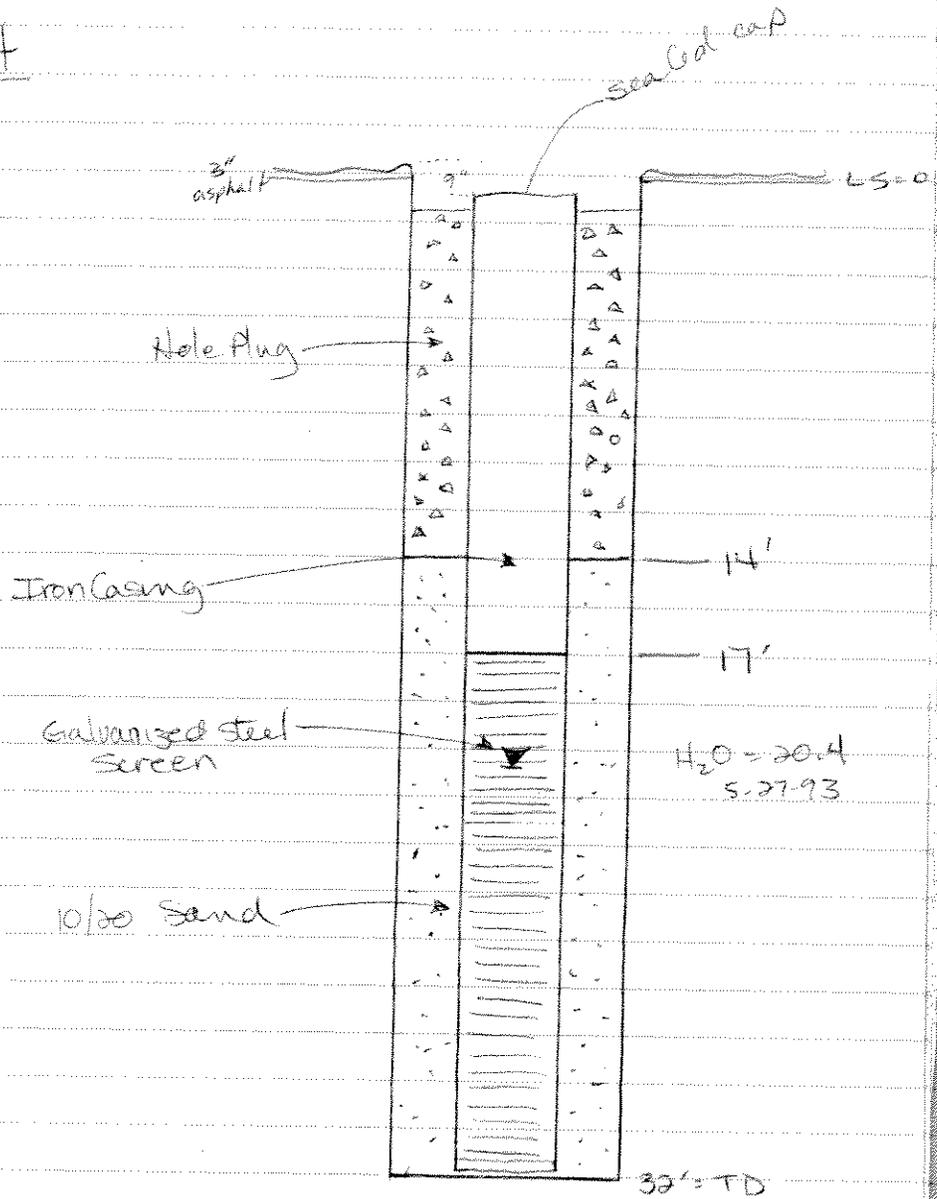
5-24-93

The plans show VES connecting to MW-2 (VP-3). MW-2 is not a monitoring well. Its a well connect up to MW-7 instead (H<sub>2</sub>O @ ) & also the hand drilled well at the SE corner of Monterey Apt Bldg. Chung-Pi (Ecology) approved.



As-built

RW-4



1630 Clean up site. lower Mast.

Move Rig - to Dicron

5-25-93

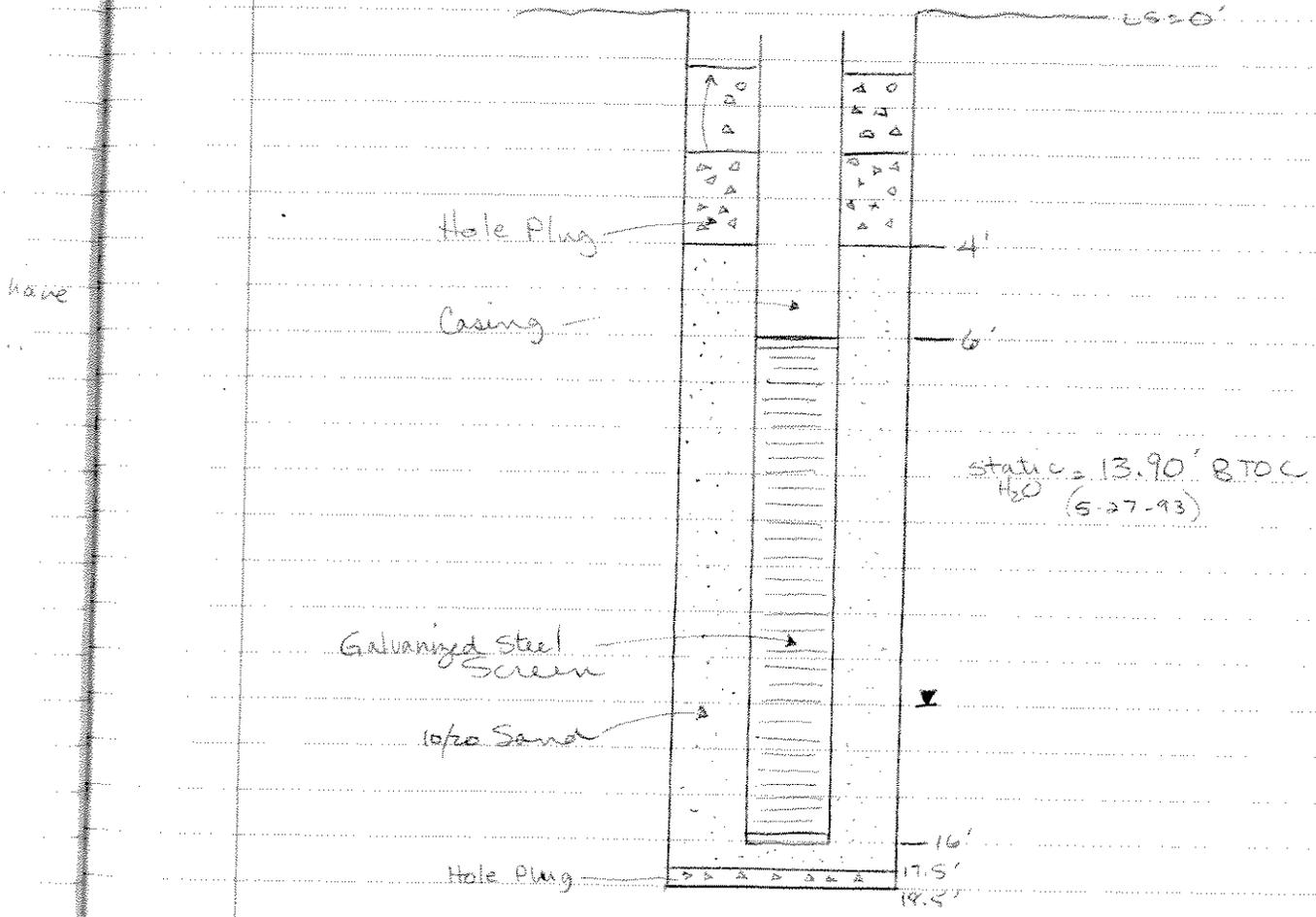
nd. 70' 1007

Lower Well

- ||||| bags 10/20 Sand (50 lbs)
- 4 bags 10/20 Sand (100 lbs)
- 4 bags Hole Plug

As-Built

RW-5



# ENTERED

MW-27

## RESOURCE PROTECTION WELL REPORT

25/4E/25R

START CARD NO. R26170

PROJECT NAME: QUEEN ANNE SQUARE ASSOC.

COUNTY: KING

WELL IDENTIFICATION NO. ABV-065

LOCATION: SE 1/4 SE 1/4 Sec 25 Twp 25N R 4E

DRILLING METHOD: H.S.A.

STREET ADDRESS OF WELL: \_\_\_\_\_

DRILLER: BRENT C. MALOY

200 W. MERCER ST - SEATTLE

FIRM: Cascade Drilling, Inc.

WATER LEVEL ELEVATION: \_\_\_\_\_

SIGNATURE: [Signature]

GROUND SURFACE ELEVATION: N/A

CONSULTING FIRM: LAW-CRANDALL

INSTALLED: 11/22/94

REPRESENTATIVE: DALE TALTY

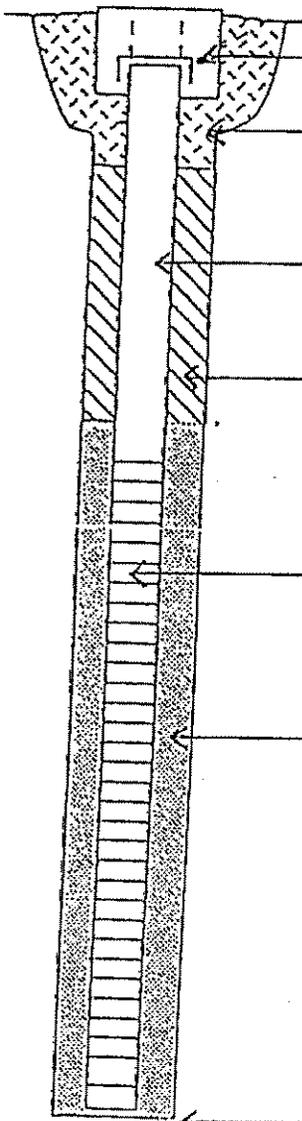
DEVELOPED: N/A

4551

AS-BUILT

WELL DATA

FORMATION DESCRIPTION



WELL COVER

CONCRETE SURFACE SEAL  
DEPTH = 2/ft

PVC BLANK 2" x 20'

BACKFILL 2 ft.  
TYPE: BENTONITE  
CHPS

PVC SCREEN 2" x 15'  
SLOT SIZE: -010

GRAVEL PACK 18 ft.  
MATERIAL: CSSE  
10/20

WELL DEPTH 35' "

0 - 8 ft.  
FILL (NON NATIVE)

8 - 13 ft.  
HARD CORBLE

13 - 35 ft.  
SILTY SAND

RECEIVED  
DEC 23 1994  
DEPT. OF ECOLOGY

# ENTERED

MW-28 or 29

25/4E/25R

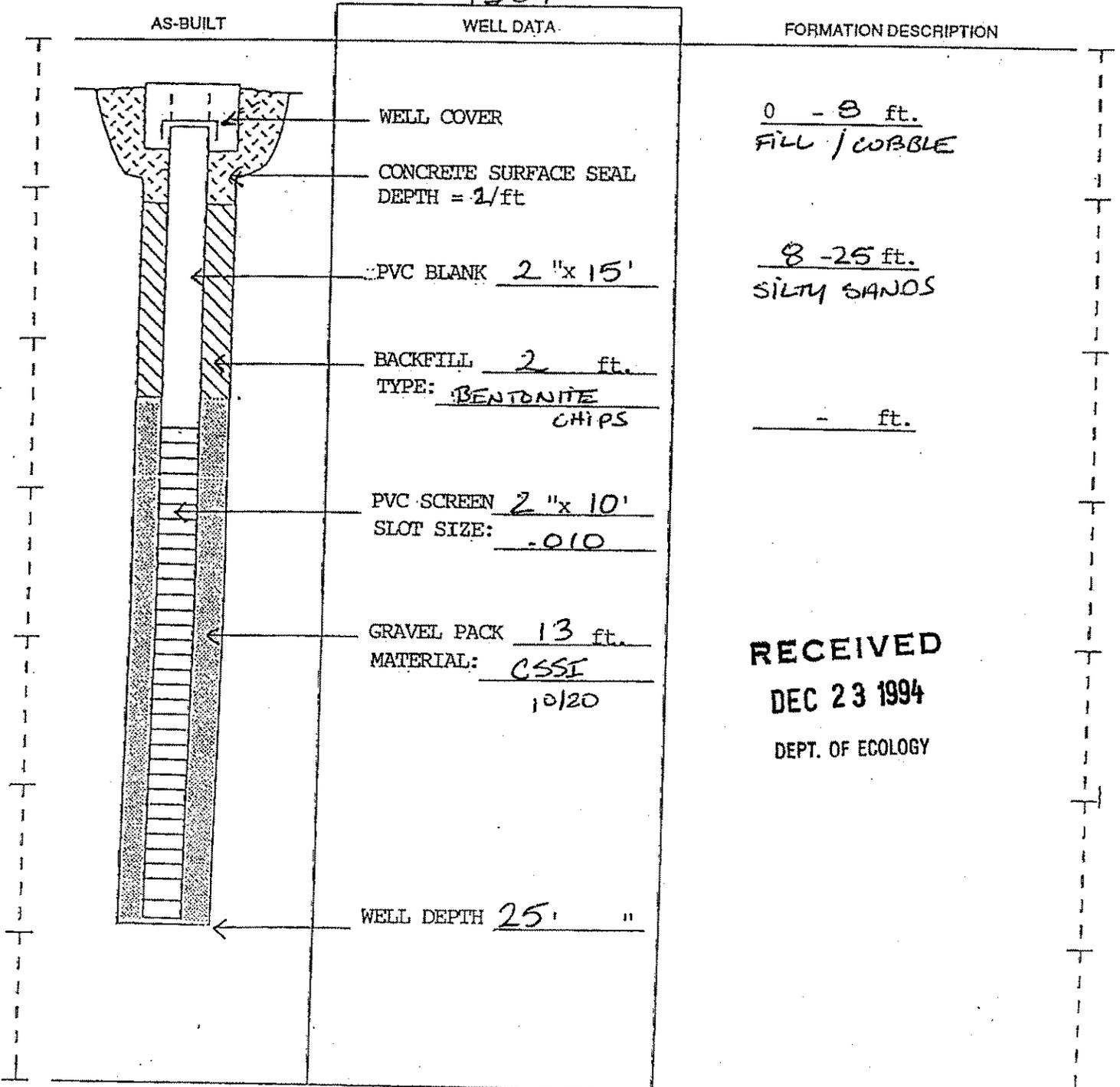
## RESOURCE PROTECTION WELL REPORT

START CARD NO. R26170

PROJECT NAME: QUEEN ANNE SQUARE ASSOC.  
 WELL IDENTIFICATION NO. ABV-063  
 DRILLING METHOD: H.S.A.  
 DRILLER: BRENT C. MALOY  
 FIRM: Cascade Drilling, Inc.  
 SIGNATURE: [Signature]  
 CONSULTING FIRM: LAW-CRANDALL  
 REPRESENTATIVE: DALE TALTY

COUNTY: KING  
 LOCATION: SE 1/4 SE 1/4 Sec 25 Twn 25N R 4E  
 STREET ADDRESS OF WELL: 200 W. MERCER ST - SEATTLE  
 WATER LEVEL ELEVATION: \_\_\_\_\_  
 GROUND SURFACE ELEVATION: N/A  
 INSTALLED: 11-22-94  
 DEVELOPED: N/A

4551



**RECEIVED**  
**DEC 23 1994**  
 DEPT. OF ECOLOGY

**ENTERED**

**RESOURCE PROTECTION WELL REPORT**

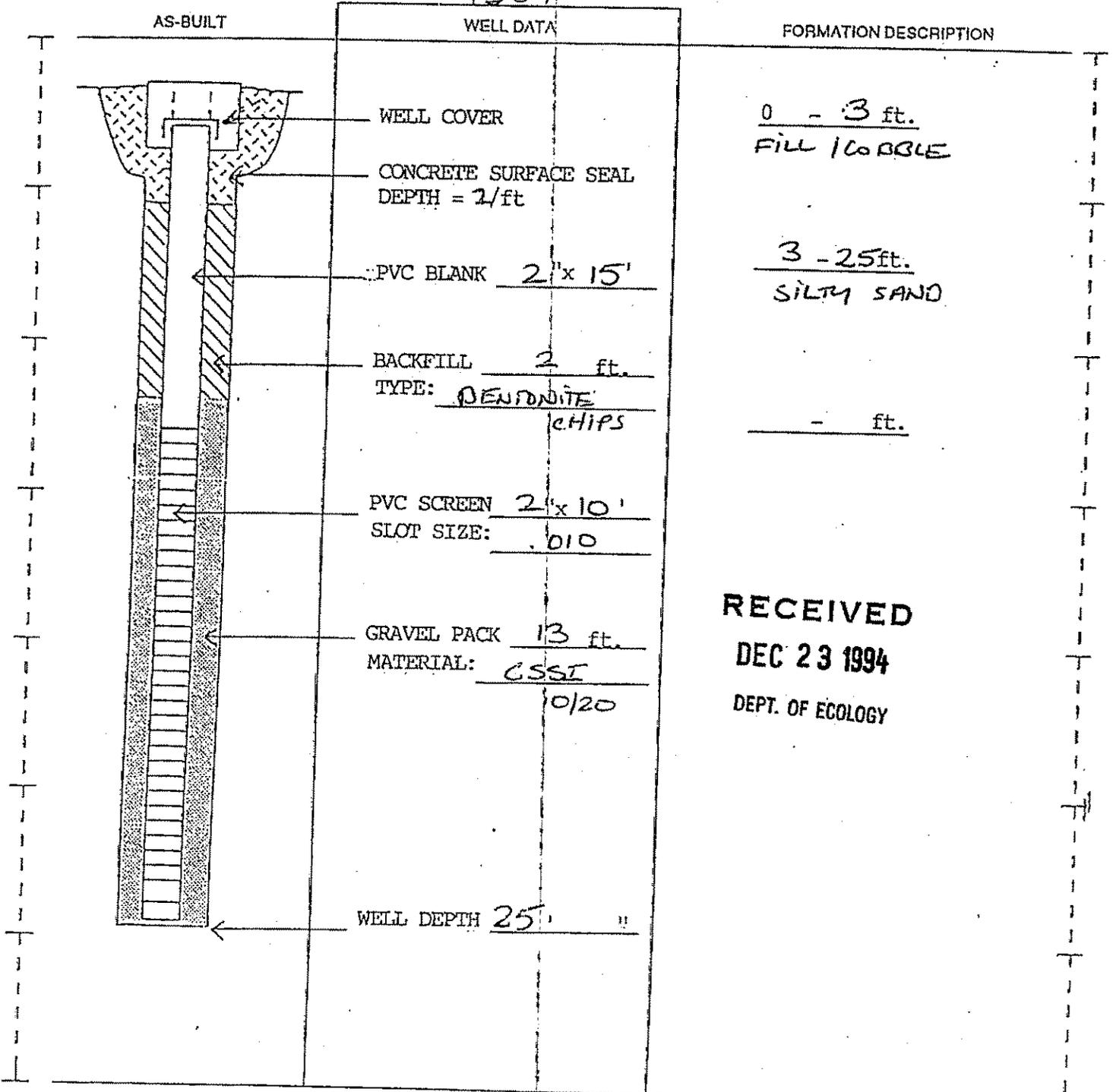
25/4E/25R

START CARD NO. R26170

PROJECT NAME: QUEEN ANNE SQUARE ASSOC.  
 WELL IDENTIFICATION NO. ABV-064  
 DRILLING METHOD: H SA  
 DRILLER: BRENT C. MALOY  
 FIRM: Cascade Drilling, Inc.  
 SIGNATURE: [Signature]  
 CONSULTING FIRM: LAW-CRANDALL (LAW)  
 REPRESENTATIVE: DAVE TALTY

COUNTY: KING  
 LOCATION: SE 1/4 SE 1/4 Sec 25 Twn 25N R 4E  
 STREET ADDRESS OF WELL: 200 W. MERCER ST - SEATTLE  
 WATER LEVEL ELEVATION: \_\_\_\_\_  
 GROUND SURFACE ELEVATION: N/A  
 INSTALLED: 11-22-94  
 DEVELOPED: N/A

4551



**RECEIVED**  
**DEC 23 1994**  
 DEPT. OF ECOLOGY

WELL/BORING LOCATION MAP

**Delta Environmental Consultants, Inc.**

WELL/BORING: DVP-1

INSTALLATION DATE: 9/12/02

DRILLING METHOD: Hand Auger

PROJECT: TW21577

SAMPLING METHOD: DM Split Spoon

CLIENT: Chevron 21-1577

BORING DIAMETER: 3"

LOCATION: 631 Queen Anne Ave No.

BORING DEPTH: 7'

CITY: Seattle

WELL CASING: 1/4" Stainless Steel

STATE: WA

WELL SCREEN: 0.02 Hole Dia. Screen

DRILLER: Cascade

SAND PACK: 0.25 - 2.0 (2 X12)

WELL/BORING COMPLETION	FIRST ▽	STABILIZED ▼	MOISTURE	PID (ppm)	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	USCS SYMBOL	GRAPHIC	CASING ELEVATION
										SURVEY DATE:
										DTW:
										DESCRIPTION/LOGGED BY: SHAWN MADISON
			DP	1480	1			SP		CONCRETE
			WT		1			SM		SAND: brown; <5% fines; fine to medium sand, no odor.
			WT		2			SM		SILTY SAND: gray; 25% fines; ;fine sand; odor; sheen.
					2			CL		CLAY: brownish gray; medium plasticity; odor.
					3			SM		SILTY SAND: gray; 10% fines; fine to medium sand; odor; sheen.
					4					@3.5' Same as above but 25% silt.
				2000	5					
	▽	▼			6			SP		SAND: gray; <5% fines; fine sand; odor; sheen.
			SAT	2000	7					
					8					
					9					
					10					
					11					

Ⓐ = 1 Inch PVC monitoring well with 0.010 slotted screen. Well screened from 3' to 7'. Well abandoned after purging and sampling on 9/12/02.

WELL/BORING LOCATION MAP

Delta Environmental Consultants, Inc.

WELL/BORING: DVP-2

INSTALLATION DATE: 9/12/02

DRILLING METHOD: Hand Auger

PROJECT: TW21577

SAMPLING METHOD: DM Split Spoon

CLIENT: Chevron 21-1577

BORING DIAMETER: 3"

LOCATION: 631 Queen Anne Ave No.

BORING DEPTH: 7'

CITY: Seattle

WELL CASING: 1/4" Stainless Steel

STATE: WA

WELL SCREEN: 0.02 Hole Dia. Screen

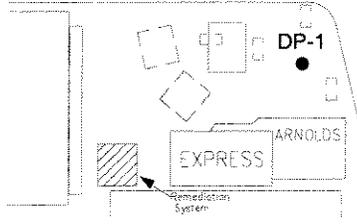
DRILLER: Cascade

SAND PACK: 0.25 - 2.0 (2 X12)

WELL/BORING COMPLETION	FIRST ▽	STABILIZED ▼	MOISTURE	PID (ppm)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	USCS SYMBOL	GRAPHIC	CASING ELEVATION
									SURVEY DATE:
									DTW:
									DESCRIPTION/LOGGED BY: SHAWN MADISON
			DP				SP	CONCRETE	
			WT	13.9	1			SAND: brown; <5% fines; very fine to fine sand; no odor.	
			WT		2			SAND: brownish gray; <5% fines; very fine to fine sand; odor	
			WT		3			*Sand is inter bedded with layers of silt less than 0.25" thick.	
			WT	649	4		SM	SILTY SAND: gray; 10% fines; very fine to fine sand; odor.	
			WT		5				
			SAT	1327	6		SP	SAND: gray; <5% fines; fine sand; odor.	
					7				
					8				
					9				
					10				
					11				

(A) = 1 Inch PVC monitoring well with 0.010 slotted screen. Well screened from 3' to 7'. Well abandoned after purging and sampling on 9/12/02.

WELL/BORING LOCATION MAP



**Delta Environmental Consultants, Inc.**

WELL/BORING: DP-1

INSTALLATION DATE: 9/18/02

DRILLING METHOD: Geo Probe

PROJECT: TW21577

SAMPLING METHOD: Sleeve

CLIENT: Chevron 21-1577

BORING DIAMETER: 1 "

LOCATION: 631 Queen Anne Ave No.

BORING DEPTH: 24'

CITY: Seattle

WELL CASING: NA

STATE: WA

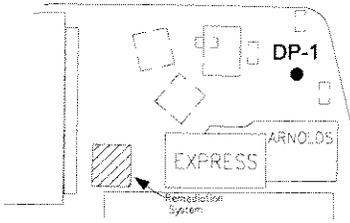
WELL SCREEN: NA

DRILLER: Cascade

SAND PACK: NA

WELL/BORING COMPLETION	FIRST ▽	STABILIZED ▼	MOISTURE	PID (ppm)	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	USCS SYMBOL	GRAPHIC	CASING ELEVATION
										SURVEY DATE:
										DTW:
										DESCRIPTION/LOGGED BY: SHAWN MADISON
Asphalt					1			SM		SILTY SAND: grayish brown; 20% fines; fine to medium sand; 15% gravel; no odor.
			DP	2.7	2					
					3					
			DP	59.0	4			SM		SILTY SAND: brownish gray; 10% fines; fine to medium sand; 25% gravel; odor.
					5					
			DP	23.0	6					SILTY SAND: dark gray; 15% fines; medium to coarse sand; 10% gravel; odor.
					7					
			DP	11.0	8					Same as above.
					9					
			DP	14.5	10			SP		SAND: gray; <5% fines; fine sand; no odor.
	▽				11					
			WT	33.3	12					Same as above with odor.
					13					
			DP	0	14			SP		SAND: grayish brown; medium to coarse sand; no odor.
					15					
			DP	70.1	16					Same as above.
	▽				17					
			WT	0	18					SILTY SAND: grayish brown; 15% fines; fine to medium sand; no odor.
					19			SM		
			WT	5.7	20					SILTY SAND: gray; 20% fines; fine to medium sand; 30% gravel; no odor.
					21					
			WT	1.2	22			SM		Same as above.

WELL/BORING LOCATION MAP



Delta Environmental Consultants, Inc.

WELL/BORING: DP-1

INSTALLATION DATE: 9/18/02

DRILLING METHOD: Geo Probe

PROJECT: TW21577

SAMPLING METHOD: Sleeve

CLIENT: Chevron 21-1577

BORING DIAMETER: 1 "

LOCATION: 631 Queen Anne Ave No.

BORING DEPTH: 24'

CITY: Seattle

WELL CASING: NA

STATE: WA

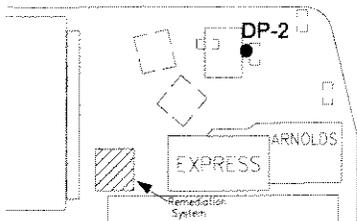
WELL SCREEN: NA

DRILLER: Cascade

SAND PACK: NA

WELL/BORING COMPLETION	FIRST	STABILIZED	MOISTURE	PID (ppm)	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	USCS SYMBOL	GRAPHIC	CASING ELEVATION
										SURVEY DATE:
	▼	▼								DTW:
DESCRIPTION/LOGGED BY: SHAWN MADISON										
Bentonite			WT	0.6	23			SM		SILTY SAND: gray; 20% fines; fine to medium sand; 30% gravel; no odor.
			DP		24			CL		CLAY: gray; medium plasticity; stiff; no odor.
					25					
					26					
					27					
					28					
					29					
					30					
					31					
					32					
					33					
					34					
					35					
					36					
					37					
					38					
					39					
					40					
					41					
					42					
					43					
					44					
					45					

WELL/BORING LOCATION MAP



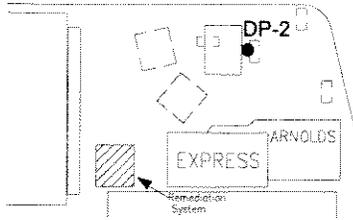
Delta Environmental Consultants, Inc.

WELL/BORING: DP-2

INSTALLATION DATE: 9/18/02	DRILLING METHOD: Geo Probe
PROJECT: TW21577	SAMPLING METHOD: Sleeve
CLIENT: Chevron 21-1577	BORING DIAMETER: 1 "
LOCATION: 631 Queen Anne Ave No.	BORING DEPTH: 24'
CITY: Seattle	WELL CASING: NA
STATE: WA	WELL SCREEN: NA
DRILLER: Cascade	SAND PACK: NA

WELL/BORING COMPLETION	FIRST	STABILIZED	MOISTURE	PID (ppm)	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	USCS SYMBOL	GRAPHIC	CASING ELEVATION
										SURVEY DATE:
	∇	▼								DTW:
DESCRIPTION/LOGGED BY: SHAWN MADISON										
Asphalt								SM		
			DP	0	1					
					2					SILTY SAND: grayish brown; 20% fines; fine to medium sand 30% gravel; no odor.
			DP	0	3					
					4					Same as above with odor.
			DP	672	5					
					6					SILTY SAND: dark gray; 20% fines; fine to medium sand; 10% gravel; odor.
			DP	238	7					
					8					Same as above but very dark gray.
			DP	1340	9			SM		
					10					Same as above but dark greenish gray; 2% wood debris.
			DP	1875	11					
					12					SILTY SAND: dark gray; 10% fines; fine to medium sand; 10% gravel; odor; <u>minimal recovery</u> .
			DP	2000	13					* See Page 2 of well log for note.
					14					Same as above; <u>minimal recovery</u>
			DP	5.3	15					* See Page 2 of well log for note.
					16					
			DP	7.1	17					SILTY SAND: dark gray; 10% fines; medium to coarse sand; 5% gravel; odor.
					18			SP		SAND: brown; medium sand; odor.
			DP	10.2	19					
					20					Same as above.
			WT	21.7	21					
					22			SP		SAND: grayish brown; fine to medium sand; no odor.

WELL/BORING LOCATION MAP



Delta Environmental Consultants, Inc.

WELL/BORING: DP-2

INSTALLATION DATE: 9/18/02

DRILLING METHOD: Geo Probe

PROJECT: TW21577

SAMPLING METHOD: Sleeve

CLIENT: Chevron 21-1577

BORING DIAMETER: 1 "

LOCATION: 631 Queen Anne Ave No.

BORING DEPTH: 24'

CITY: Seattle

WELL CASING: NA

STATE: WA

WELL SCREEN: NA

DRILLER: Cascade

SAND PACK: NA

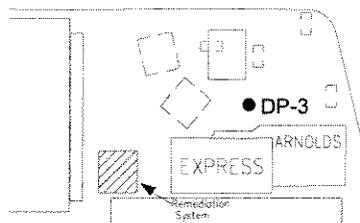
WELL/BORING COMPLETION	FIRST ▽	STABILIZED ▼	MOISTURE	PID (ppm)	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	USCS SYMBOL	GRAPHIC	CASING ELEVATION
										SURVEY DATE:
Bentonite			WT	0	23			SP		SAND: grayish brown; fine to medium sand; no odor.
			DP		24			CL		CLAY: yellowish brown; medium plasticity; stiff; no odor.
					25					
					26					
					27					
					28					
					29					
					30					
					31					
					32					
					33					
					34					
					35					
					36					
					37					
					38					
					39					
					40					
					41					
					42					
					43					
					44					
					45					

\* Redrilled 1 foot north to get recovery for the 12 and 14 foot intervals.

10'-12' SILTY SAND: dark gray; 10% fines; fine to medium sand; 10% gravel; odor; P.I.D. reading 2000.

12'-14' SILTY SAND: dark gray; 10% fines; fine to medium sand; 10% gravel; odor; P.I.D. reading 2000.

WELL/BORING LOCATION MAP



Delta Environmental Consultants, Inc.

WELL/BORING: DP-3

INSTALLATION DATE: 9/20/02

DRILLING METHOD: Geo Probe

PROJECT: TW21577

SAMPLING METHOD: Sleeve

CLIENT: Chevron 21-1577

BORING DIAMETER: 1 "

LOCATION: 631 Queen Anne Ave No.

BORING DEPTH: 18'

CITY: Seattle

WELL CASING: NA

STATE: WA

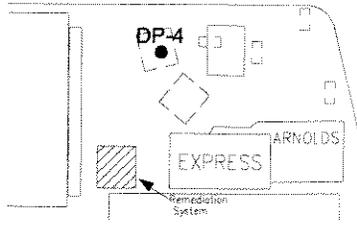
WELL SCREEN: NA

DRILLER: Cascade

SAND PACK: NA

WELL/BORING COMPLETION	FIRST	STABILIZED	MOISTURE	PID (ppm)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	USCS SYMBOL	GRAPHIC	CASING ELEVATION
	∇	▼							SURVEY DATE:
									DTW:
DESCRIPTION/LOGGED BY: SHAWN MADISON									
Asphalt					1		SM		SILTY SAND: brown; 30% fines; very fine to fine sand; no odor.
				0	2				Same as above with construction debris; no odor.
					3				Same as above.
				0	4				Same as above.
				0	5				Same as above without construction debris.
				0	6				Same as above without construction debris.
				0	7				Same as above without construction debris.
				0	8				Same as above with 2% wood debris; very dark brown with color.
				48.3	9		SM		Same as above with 2% wood debris; very dark brown with color.
					10				SILTY SAND: dark brownish gray; 10% fines; fine sand; 5% gravel; odor.
	∇				11				
			WT	2000	12				@11.5' SILT: dark gray; fines; 25% very fine to fine sand; stiff; odor.
					13				
			WT	2000	14				
					15				
			WT	1557	16				@15.5' SILTY SAND: dark gray; 15% fines; fine sand; odor.
					17				
			DP	146	18		CL		@17.5' CLAY: reddish brown with gray streaks; medium plasticity; stiff; odor.
					19				
					20				
					21				
					22				

WELL/BORING LOCATION MAP



Delta Environmental Consultants, Inc.

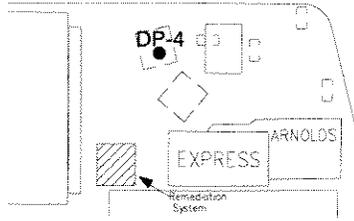
WELL/BORING: DP-4

INSTALLATION DATE: 9/20/02	DRILLING METHOD: Geo Probe
PROJECT: TW21577	SAMPLING METHOD: Sleeve
CLIENT: Chevron 21-1577	BORING DIAMETER: 1 "
LOCATION: 631 Queen Anne Ave No.	BORING DEPTH: 28'
CITY: Seattle	WELL CASING: NA
STATE: WA	WELL SCREEN: NA
DRILLER: Cascade	SAND PACK: NA

WELL/BORING COMPLETION	FIRST	STABILIZED	MOISTURE	PID (ppm)	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	USCS SYMBOL	GRAPHIC	CASING ELEVATION	SURVEY DATE:	DTW:	DESCRIPTION/LOGGED BY: SHAWN MADISON
Asphalt	▽				1			SM					
			DRY	0	2								SILTY SAND: gray; 30% fines; fine sand; 10% gravel; no odor.
			DP	801	4								Same as above with light odor.
			DP	49.4	6								SILTY SAND: dark gray; 10% fines; fine to medium sand; light odor.
			DP	0	8								Same as above with 5% gravel.
			DP	0	10			SM					Same as above with 15% gravel.
			DP	8.3	12								SILTY SAND: very dark gray; 10% fines; medium to coarse sand; light odor; encountered PVC well screen at 12 feet.
			DP	174	14								SAND: dark gray to brown; fine to medium sand; no odor.
			DP	219	16								15 to 15.5' SILTY SAND: 30% fine; fine to medium sand; no odor.
			DP	58.4	18			SP					@15.5' SAND: brownish gray; <5% fines; fine to medium sand; 15% coarse sand; no odor.
	▽		WT	2000	20								SAND: gray; fine sand; odor.
				21.7	22								Same sand grades to medium sand; odor.

Bentonite

WELL/BORING LOCATION MAP



Delta Environmental Consultants, Inc.

WELL/BORING: DP-4

INSTALLATION DATE: 9/20/02

DRILLING METHOD: Geo Probe

PROJECT: TW21577

SAMPLING METHOD: Sleeve

CLIENT: Chevron 21-1577

BORING DIAMETER: 1 "

LOCATION: 631 Queen Anne Ave No.

BORING DEPTH: 28'

CITY: Seattle

WELL CASING: NA

STATE: WA

WELL SCREEN: NA

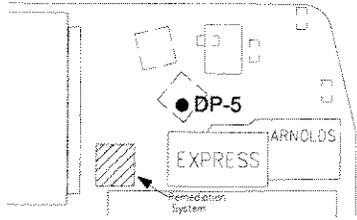
DRILLER: Cascade

SAND PACK: NA

WELL/BORING COMPLETION	FIRST	STABILIZED	MOISTURE	PID (ppm)	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	USCS SYMBOL	GRAPHIC	CASING ELEVATION
	▼	▼								
										SURVEY DATE:
										DTW:
										DESCRIPTION/LOGGED BY: SHAWN MADISON
Bentonite			WT	1	23			SP		SAND: brownish gray; <5% fines; medium to coarse sand; odor.  @26.25' CLAY: reddish brown with gray molting; medium plasticity; stiff; no odor. @27.0" SAND: gray; coarse sand; no odor.
			DP	0	24					
			WT	0	27			CL		
					25					
					26					
					27			SP		
					28					
					29					
					30					
					31					
					32					
					33					
					34					
					35					
					36					
					37					
					38					
					39					
					40					
					41					
					42					
					43					
					44					
					45					



WELL/BORING LOCATION MAP



Delta Environmental Consultants, Inc.

WELL/BORING: DP-5

INSTALLATION DATE: 9/20/02

DRILLING METHOD: Geo Probe

PROJECT: TW21577

SAMPLING METHOD: Sleeve

CLIENT: Chevron 21-1577

BORING DIAMETER: 1 "

LOCATION: 631 Queen Anne Ave No.

BORING DEPTH: 24'

CITY: Seattle

WELL CASING: NA

STATE: WA

WELL SCREEN: NA

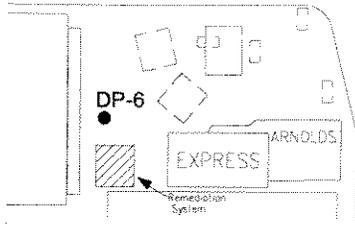
DRILLER: Cascade

SAND PACK: NA

WELL/BORING COMPLETION	FIRST	STABILIZED	MOISTURE	PID (ppm)	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	USCS SYMBOL	GRAPHIC	CASING ELEVATION
										SURVEY DATE:
	▽	▼								DTW:
DESCRIPTION/LOGGED BY: SHAWN MADISON										
Bentonite			WT		23			SP		SAND: brownish gray; <5% fines; fine to medium sand; coarse sand; odor.
			DP	3.1	24			CL		@23.5' CLAY: brown; medium plasticity; stiff; no odor.
					25					
					26					
					27					
					28					
					29					
					30					
					31					
					32					
					33					
					34					
					35					
					36					
					37					
					38					
					39					
					40					
					41					
					42					
					43					
					44					
					45					



WELL/BORING LOCATION MAP



Delta Environmental Consultants, Inc.

WELL/BORING: DP-6

INSTALLATION DATE: 9/20/02

DRILLING METHOD: Geo Probe

PROJECT: TW21577

SAMPLING METHOD: Sleeve

CLIENT: Chevron 21-1577

BORING DIAMETER: 1 "

LOCATION: 631 Queen Anne Ave No.

BORING DEPTH: 26'

CITY: Seattle

WELL CASING: NA

STATE: WA

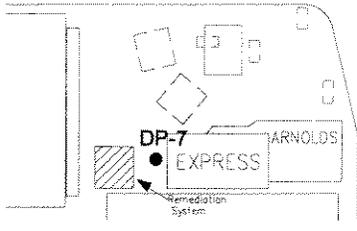
WELL SCREEN: NA

DRILLER: Cascade

SAND PACK: NA

WELL/BORING COMPLETION	FIRST ▽	STABILIZED ▼	MOISTURE	PID (ppm)	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	USCS SYMBOL	GRAPHIC	CASING ELEVATION
										SURVEY DATE:
										DTW:
DESCRIPTION/LOGGED BY: SHAWN MADISON										
Bentonite			WT	2000	23			SM		SILTY SAND: brownish gray; 30% fines; very fine to fine sand; odor.
					24			SP		SAND: brownish gray; <5% fines; very fine to fine sand; odor.
			DP	33.4	25			CL		@25.4' CLAY: brownish yellow; medium plasticity; stiff; odor.
					26					
					27					
					28					
					29					
					30					
					31					
					32					
					33					
					34					
					35					
					36					
					37					
					38					
					39					
					40					
					41					
					42					
					43					
					44					
					45					

WELL/BORING LOCATION MAP



**Delta Environmental Consultants, Inc.**

WELL/BORING: DP-7

INSTALLATION DATE: 9/20/02

DRILLING METHOD: Geo Probe

PROJECT: TW21577

SAMPLING METHOD: Sleeve

CLIENT: Chevron 21-1577

BORING DIAMETER: 1 "

LOCATION: 631 Queen Anne Ave No.

BORING DEPTH: 24'

CITY: Seattle

WELL CASING: NA

STATE: WA

WELL SCREEN: NA

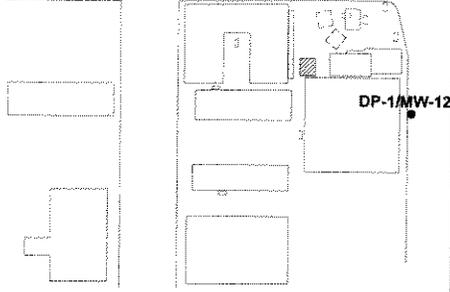
DRILLER: Cascade

SAND PACK: NA

WELL/BORING COMPLETION	FIRST	STABILIZED	MOISTURE	PID (ppm)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	USCS SYMBOL	GRAPHIC	CASING ELEVATION
	▽	▼							SURVEY DATE:
									DTW:
DESCRIPTION/LOGGED BY: SHAWN MADISON									
Asphalt					1		SM		
			DRY	0	2				SILTY SAND: brown; 20% fines; fine to medium sand; 10% gravel; no odor.
			DP	0	4				Same but brown to dark brown with construction debris (Brick); no odor.
			DP	0	6				SILTY SAND: brownish gray; 10% fines; fine to medium sand; no odor.
			DP	0	8				@7.5' SILTY SAND: dark brown; 35% fines; fine to medium sand; 10% coarse sand; no odor.
Bentonite	▽				9		SM		
			WT	110	10				@9.5' Grades to brown in color; odor.
			WT	193	12				@10.5' grades to gray; 10% fines; odor.
			WT	307	14		SP		SAND: gray; fine sand; odor.
			WT	126	16				SAND: brownish gray; fine sand; odor.
			WT	355	18				SAND: brownish gray; fine to medium sand; odor.
			WT	2000	20				@20' Grades to very fine sand.
			WT	2000	22				@22' Grades to fine to medium sand; odor.



WELL/BORING LOCATION MAP



Delta Environmental Consultants, Inc.

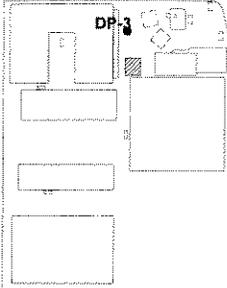
WELL/BORING: DB-1  
MW-12

INSTALLATION DATE: 9/26/02	DRILLING METHOD: Hollow Stem Auger
PROJECT: TW21577	SAMPLING METHOD: DM Split Spoon
CLIENT: Chevron 21-1577	BORING DIAMETER: 8 "
LOCATION: 631 Queen Anne Ave No.	BORING DEPTH: 17'
CITY: Seattle	WELL CASING: SCH 40 PVC 2"
STATE: WA	WELL SCREEN: 7-17' (0.010")
DRILLER: Cascade	SAND PACK: 5-17' (2 X12)

WELL/BORING COMPLETION	FIRST	STABILIZED	MOISTURE	PID (ppm)	DENSITY BLOWS / 6"	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	USCS SYMBOL	GRAPHIC	CASING ELEVATION	113.36
	☒	▼									SURVEY DATE:	9/26/02
											DTW:	13.0
DESCRIPTION/LOGGED BY: MATT MILLER												
Concrete						1						Concrete surface
Bentonite						2			SP			SAND: dark brown; trace fines; very fine to fine sand; 10% medium to coarse sand; trace gravel; very dense; no hydrocarbon odor.
						3						
						4						
						5						
						6						
						7						
						8						
						9						
			DP	6	50-6"	10			SP			
						11						
						12						
						13						
						14						
						15			SM			
			WT	10	19 50-6"	16						
						17						
						18						
						19						
						20						
						21						
						22						
SILTY SAND: dark grayish brown; 20% fines; very fine to fine sand; trace to 5% medium to coarse sand; very dense; no hydrocarbon odor												
Refusal @17' (concrete); Driller was reasonably certain that a concrete slab was encountered based on the action of the drilling during refusal.												



WELL/BORING LOCATION MAP



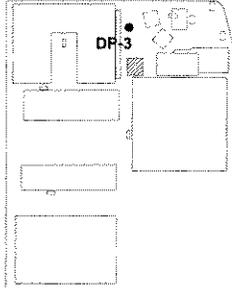
**Delta Environmental Consultants, Inc.**

WELL/BORING: DB-3

INSTALLATION DATE: 9/26/02	DRILLING METHOD: Hollow Stem Auger
PROJECT: TW21577	SAMPLING METHOD: DM Split Spoon
CLIENT: Chevron 21-1577	BORING DIAMETER: 8 "
LOCATION: 631 Queen Anne Ave No.	BORING DEPTH: 31.5'
CITY: Seattle	WELL CASING: NA
STATE: WA	WELL SCREEN: NA
DRILLER: Cascade	SAND PACK: NA

WELL/BORING COMPLETION	FIRST	STABILIZED	MOISTURE	PID (ppm)	DENSITY BLOWS / 6"	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	USCS SYMBOL	GRAPHIC	CASING ELEVATION	
	▽	▼									
										DESCRIPTION/LOGGED BY: MATT MILLER	
Concrete										Asphalt surface	
Backfilled with Bentonite						1		SP		SAND: dark brown; trace fines; very fine sand; trace gravel.	
						2					
						3					
						4					
						5				No recovery at 5'.	
					50-0"	6					
						7					
						8					
						9					
		▽		WT	140	150-6"	10				SAND: very dark gray; trace fines; fine sand; very dense; hydrocarbon odor.
				WT	22	19 21 25	11		SM		SILTY SAND: very dark gray; 10% fines; fine sand; trace to 5% medium to coarse sand; interbedded clay lense (<1" thick); very dense; hydrocarbon odor.
							12				
						13					
						14					
				125	29 36 16	15				@16' Same as above.	
						16					
			WT	-	50-0"	17		SP		@18' SAND: very dark gray; trace fines; fine to coarse sand; very dense; hydrocarbon odor; minimal sample recovery.	
						18					
						19					
			WT		50-3"	20		SM		No recovery @22'.	
						21					
						22					

WELL/BORING LOCATION MAP



**Delta Environmental Consultants, Inc.**

WELL/BORING: DB-3

INSTALLATION DATE: 9/26/02

DRILLING METHOD: Hollow Stem Auger

PROJECT: TW21577

SAMPLING METHOD: DM Split Spoon

CLIENT: Chevron 21-1577

BORING DIAMETER: 8 "

LOCATION: 631 Queen Anne Ave No.

BORING DEPTH: 31.5'

CITY: Seattle

WELL CASING: NA

STATE: WA

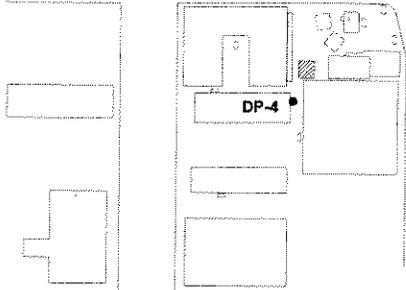
WELL SCREEN: NA

DRILLER: Cascade

SAND PACK: NA

WELL/BORING COMPLETION	FIRST	STABILIZED	MOISTURE	PID (ppm)	DENSITY BLOWS / 6"	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	USCS SYMBOL	GRAPHIC	CASING ELEVATION
											DTW:
DESCRIPTION/LOGGED BY: MATT MILLER											
Backfilled with Bentonite			WT	89	50 50	23			SM		SILTY SAND: very dark gray; 10% fines; fine to coarse sand; trace gravel; very dense; hydrocarbon odor.
			WT	33	14 15 19	30 31			CL		CLAY: dark gray; low plasticity; hard; no hydrocarbon odor.
						24					
						25					
						26					
						27					
						28					
						29					
						30					
						31					
						32					
						33					
						34					
						35					
						36					
						37					
						38					
						39					
						40					
						41					
						42					
						43					
						44					

WELL/BORING LOCATION MAP



**Delta Environmental Consultants, Inc.**

WELL/BORING: DB-4

INSTALLATION DATE: 9/23/02

DRILLING METHOD: Hollow Stem Auger

PROJECT: TW21577

SAMPLING METHOD: DM Split Spoon

CLIENT: Chevron 21-1577

BORING DIAMETER: 8 "

LOCATION: 631 Queen Anne Ave No.

BORING DEPTH: 21.5'

CITY: Seattle

WELL CASING: NA

STATE: WA

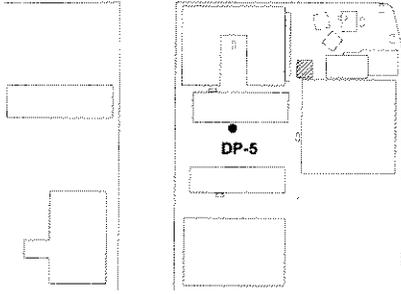
WELL SCREEN: NA

DRILLER: Cascade

SAND PACK: NA

WELL/BORING COMPLETION	FIRST	STABILIZED	MOISTURE	PID (ppm)	DENSITY BLOWS / 6"	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	USCS SYMBOL	GRAPHIC	CASING ELEVATION
											DESCRIPTION/LOGGED BY: MATT MILLER
Concrete						1			SP		Concrete surface
Backfilled with Bentonite			DP	7.0	11 16 8	2					SAND: dark brown; trace fines; very fine to fine sand; medium dense; no hydrocarbon odor.
			WT	2000+	19 21 20	3					
			WT	2000+	11 12 14	4					
			WT	2000+	25- 50-6"	5			SP/ SM		@11.5' SILTY SAND/SAND: very dark grayish brown; trace to 20% fines; interbedded clay lense; fine sand; trace organics; medium dense; hydrocarbon odor; sheen.
			WT	2000+	29 50-6"	6					@13.5" Same as above; very dense.
			WT	189	50-6"	7			SP		@16' Same as above; very dense.
			WT	460	7 13 15	8					@18' SAND: very dark gray; trace fines; fine sand; trace medium sand; very dense; hydrocarbon odor.
						9					
						10					
						11					
					12						
					13						
					14						
					15						
					16						
					17						
					18						
					19						
					20						
					21				CL		CLAY: olive gray; low to moderate plasticity; 10% very fine to coarse sand; trace gravel; trace organics; iron oxide staining; very stiff.
					22						

WELL/BORING LOCATION MAP



**Delta Environmental Consultants, Inc.**

WELL/BORING: DB-5

INSTALLATION DATE: 9/23/02

DRILLING METHOD: Hollow Stem Auger

PROJECT: TW21577

SAMPLING METHOD: DM Split Spoon

CLIENT: Chevron 21-1577

BORING DIAMETER: 8 "

LOCATION: 631 Queen Anne Ave No.

BORING DEPTH: 24'

CITY: Seattle

WELL CASING: NA

STATE: WA

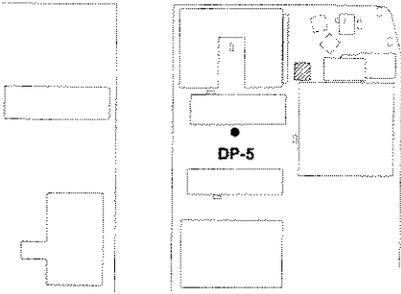
WELL SCREEN: NA

DRILLER: Cascade

SAND PACK: NA

WELL/BORING COMPLETION	FIRST	STABILIZED	MOISTURE	PID (ppm)	DENSITY BLOWS / 6"	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	USCS SYMBOL	GRAPHIC	CASING ELEVATION	
											SURVEY DATE:	
											DTW:	
DESCRIPTION/LOGGED BY: MATT MILLER												
Concrete						1			SM		Asphalt surface	
Backfilled with Bentonite			DP	18	10 12 22	5					SILTY SAND: olive brown; 10% fines; very fine to fine sand; dense; no hydrocarbon odor.	
			DP	20	18 23 27	8						
						9			CL		@9' Same as above; thin clay lense; low plasticity; dark grayish brown; dense; no hydrocarbon odor.	
			MST	328	14 22 23	10			SM			
			MST	2000	50- 6"	13					@13' Same as above; 5% fines; very dense; strong hydrocarbon odor.	
			WT	1575	26 50- 6"	15					@15' Same as above; very dark gray.	
			WT	797	50- 6"	18						
						19						@18' Same as above; sheen.
						20						
					381	50- 6"	21			SM		
							22					

WELL/BORING LOCATION MAP



**Delta Environmental Consultants, Inc.**

WELL/BORING: DB-5

INSTALLATION DATE: 9/23/02

DRILLING METHOD: Hollow Stem Auger

PROJECT: TW21577

SAMPLING METHOD: DM Split Spoon

CLIENT: Chevron 21-1577

BORING DIAMETER: 8 "

LOCATION: 631 Queen Anne Ave No.

BORING DEPTH: 24'

CITY: Seattle

WELL CASING: NA

STATE: WA

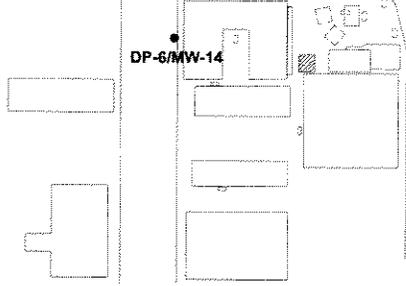
WELL SCREEN: NA

DRILLER: Cascade

SAND PACK: NA

WELL/BORING COMPLETION	FIRST	STABILIZED	MOISTURE	PID (ppm)	DENSITY BLOWS / 6"	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	USCS SYMBOL	GRAPHIC	CASING ELEVATION
											SURVEY DATE:
											DTW:
											DESCRIPTION/LOGGED BY: MATT MILLER
Backfilled with Bentonite			WT DP	15	32 31 50	23 24			SM CL		CLAY: dark gray; low to moderate plasticity; trace iron oxide staining; very hard; no hydrocarbon odor.
						25					
						26					
						27					
						28					
						29					
						30					
						31					
						32					
						33					
						34					
						35					
						36					
						37					
						38					
						39					
						40					
						41					
						42					
						43					
						44					

WELL/BORING LOCATION MAP



**Delta Environmental Consultants, Inc.**

WELL/BORING: DB-6  
MW-14

INSTALLATION DATE: 9/25/02

DRILLING METHOD: Hollow Stem Auger

PROJECT: TW21577

SAMPLING METHOD: DM Split Spoon

CLIENT: Chevron 21-1577

BORING DIAMETER: 8 "

LOCATION: 631 Queen Anne Ave No.

BORING DEPTH: 26.5'

CITY: Seattle

WELL CASING: SCH 40 PVC 2"

STATE: WA

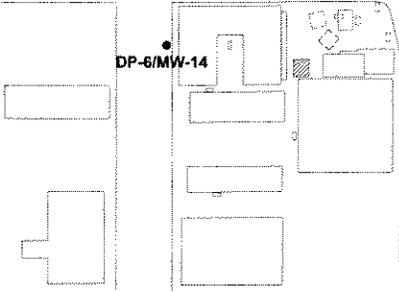
WELL SCREEN: 10-25' (0.010")

DRILLER: Cascade

SAND PACK: 7-26.5' (2 X12)

WELL/BORING COMPLETION	FIRST	STABILIZED	MOISTURE	PID (ppm)	DENSITY BLOWS / 6"	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	USCS SYMBOL	GRAPHIC	CASING ELEVATION	
											101.64	
											SURVEY DATE: 9/26/02	
											DTW:	
											DESCRIPTION/LOGGED BY: MATT MILLER	
Concrete						1			SM	Concrete surface		
Bentonite			MST	5	4 5 11	2 3 4 5 6			ML	SILTY SAND: olive gray; 30% fines; very fine to fine sand; organics; no hydrocarbon odor.		
Sand			MST	4	13 22 25	7 8 9 10 11			SP	SAND: very dark gray; trace fines; fine sand; very dense.		
			WT	1367	16 26 29	12 13 14 15 16			SM	@16.5'; Same as above; increasing fines; very dense; hydrocarbon odor; thin (<1") interbedded silt lense.		
			WT	402	50-6"	17 18 19 20 21				@20' Same as above; trace <5% fines; very dense; hydrocarbon odor.		

WELL/BORING LOCATION MAP



Delta Environmental Consultants, Inc.

WELL/BORING: DB-6  
MW-14

INSTALLATION DATE: 9/25/02

DRILLING METHOD: Hollow Stem Auger

PROJECT: TW21577

SAMPLING METHOD: DM Split Spoon

CLIENT: Chevron 21-1577

BORING DIAMETER: 8 "

LOCATION: 631 Queen Anne Ave No.

BORING DEPTH: 26.5'

CITY: Seattle

WELL CASING: SCH 40 PVC 2"

STATE: WA

WELL SCREEN: 10-25' (0.010")

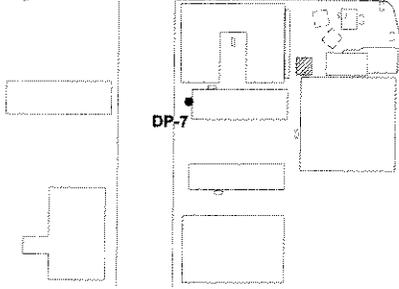
DRILLER: Cascade

SAND PACK: 7-26.5' (2 X12)

WELL/BORING COMPLETION	FIRST	STABILIZED	MOISTURE	PID (ppm)	DENSITY BLOWS / 6"	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	USCS SYMBOL	GRAPHIC	CASING ELEVATION	101.64
											SURVEY DATE:	9/26/02
											DTW:	
											DESCRIPTION/LOGGED BY: MATT MILLER	
Sand			WT	180	9 12 12	23				SP		
						24						
						25						
						26				CL		CLAY: dark gray; moderate plasticity; trace very fine to medium sand; 10% gravel; very stiff; hydrocarbon odor.
						27						
						28						
						29						
						30						
						31						
						32						
						33						
						34						
						35						
						36						
						37						
						38						
						39						
						40						
						41						
						42						
						43						
						44						



WELL/BORING LOCATION MAP



**Delta Environmental Consultants, Inc.**

WELL/BORING: DB-7

INSTALLATION DATE: 9/24/02

DRILLING METHOD: Hollow Stem Auger

PROJECT: TW21577

SAMPLING METHOD: DM Split Spoon

CLIENT: Chevron 21-1577

BORING DIAMETER: 8 "

LOCATION: 631 Queen Anne Ave No.

BORING DEPTH: 33.5'

CITY: Seattle

WELL CASING: NA

STATE: WA

WELL SCREEN: NA

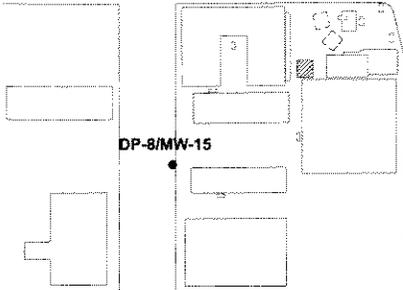
DRILLER: Cascade

SAND PACK: NA

WELL/BORING COMPLETION	FIRST	STABILIZED	MOISTURE	PID (ppm)	DENSITY BLOWS / 6"	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	USCS SYMBOL	GRAPHIC	CASING ELEVATION
											SURVEY DATE:
											DTW:
											DESCRIPTION/LOGGED BY: MATT MILLER
Backfilled with Bentonite			WT	6	50-6"	23			SM		
						24					
			DP	1	19 39 50-4"	25			SP		SAND: dark olive gray; trace fines; fine sand; very dense; no hydrocarbon odor.
						26					
						27					
						28					
						29					
						30					
						31					
						32			CL		CLAY: dark gray; moderate plasticity; very hard; no hydrocarbon odor.
						33					
						34					
						35					
						36					
						37					
						38					
						39					
						40					
						41					
						42					
						43					
						44					



WELL/BORING LOCATION MAP



Delta Environmental Consultants, Inc.

WELL/BORING: DB-8  
MW-15

INSTALLATION DATE: 9/25/02

DRILLING METHOD: Hollow Stem Auger

PROJECT: TW21577

SAMPLING METHOD: DM Split Spoon

CLIENT: Chevron 21-1577

BORING DIAMETER: 8 "

LOCATION: 631 Queen Anne Ave No.

BORING DEPTH: 35'

CITY: Seattle

WELL CASING: SCH 40 PVC 2"

STATE: WA

WELL SCREEN: 10-25' (0.010")

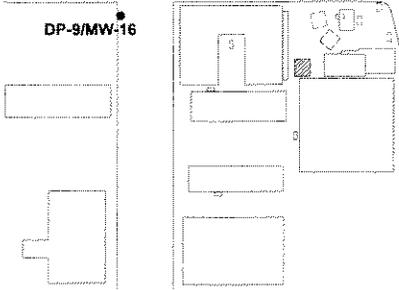
DRILLER: Cascade

SAND PACK: 7-35' (2 X12)

WELL/BORING COMPLETION	FIRST	STABILIZED	MOISTURE	PID (ppm)	DENSITY BLOWS / 6"	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	USCS SYMBOL	GRAPHIC	CASING ELEVATION	99.03
											SURVEY DATE:	9/26/02
											DTW:	9.25
											DESCRIPTION/LOGGED BY: MATT MILLER	
Sand			WT	-	50-2"	23			SM			
						24						
						25						No recovery @25'
						26						
						27						
						28			SP			
						29						SAND: dark gray; trace to 5% fines; fine sand; very dense; no hydrocarbon odor.
			WT	13	50-6"	30						
						31						Heaving sands No samples collected @35'
						32						
						33						
						34						
						35						
						36						
						37						
						38						
						39						
						40						
						41						
						42						
						43						
						44						

WELL/BORING LOCATION MAP

DP-9/MW:16



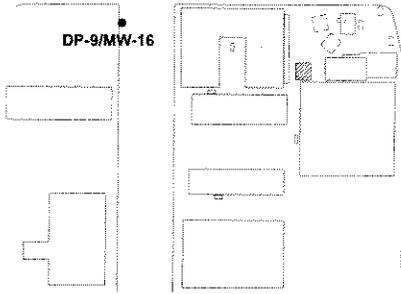
**Delta Environmental Consultants, Inc.**

WELL/BORING: DB-9  
MW-16

INSTALLATION DATE: 9/24/02	DRILLING METHOD: Hollow Stem Auger
PROJECT: TW21577	SAMPLING METHOD: DM Split Spoon
CLIENT: Chevron 21-1577	BORING DIAMETER: 8 "
LOCATION: 631 Queen Anne Ave No.	BORING DEPTH: 31'
CITY: Seattle	WELL CASING: SCH 40 PVC 2"
STATE: WA	WELL SCREEN: 10-25' (0.010")
DRILLER: Cascade	SAND PACK: 7-31' (2 X12)

WELL/BORING COMPLETION	FIRST ▽	STABILIZED ▼	MOISTURE	PID (ppm)	DENSITY BLOWS / 6"	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	USCS SYMBOL	GRAPHIC	CASING ELEVATION	
										101.83	
										SURVEY DATE: 9/26/02	
										DTW: 11.85	
										DESCRIPTION/LOGGED BY: MATT MILLER	
Concrete						1				Concrete surface	
Bentonite						2		SP			
						3					
						4					
						5					
						6					
						7					
						8					
						9					
						10					
			DP	2	25 30 30	11				SAND: olive brown; trace to 5% fines; fine sand; very dense; no hydrocarbon odor.	
		▼				12					
						13					
						14					
						15					
		▽	MST WT	12	26 50-5"	16				@16'; as above.	
						17					
						18					
						19					
						20					
			WT	34	50-6"	21				@20'; as above.	
						22					

WELL/BORING LOCATION MAP



**Delta Environmental Consultants, Inc.**

WELL/BORING: DB-9  
MW-16

INSTALLATION DATE: 9/24/02

DRILLING METHOD: Hollow Stem Auger

PROJECT: TW21577

SAMPLING METHOD: DM Split Spoon

CLIENT: Chevron 21-1577

BORING DIAMETER: 8 "

LOCATION: 631 Queen Anne Ave No.

BORING DEPTH: 31'

CITY: Seattle

WELL CASING: SCH 40 PVC 2"

STATE: WA

WELL SCREEN: 10-25' (0.010")

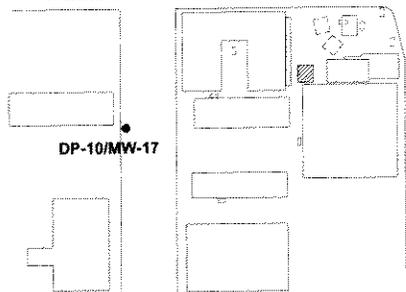
DRILLER: Cascade

SAND PACK: 7-31' (2 X12)

WELL/BORING COMPLETION	FIRST ▽	STABILIZED ▼	MOISTURE	PID (ppm)	DENSITY BLOWS / 6"	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	USCS SYMBOL	GRAPHIC	CASING ELEVATION		101.83	
										SURVEY DATE:		9/26/02	
										DTW:		11.85	
										DESCRIPTION/LOGGED BY: MATT MILLER			
Sand						23		SP		SILTY SAND: olive gray; 10% fines; very fine to fine sand; very dense; no hydrocarbon odor.			
			WT	12	50-6"	24		SM					
						25							
						26							
						27							
						28							
						29							
						30							
						31		CL		CLAY: dark gray; low plasticity; very hard; no hydrocarbon odor.			
			DP	20	22 50-6"	32							
						33							
						34							
						35							
						36							
						37							
						38							
						39							
						40							
						41							
						42							
						43							
						44							



WELL/BORING LOCATION MAP



Delta Environmental Consultants, Inc.

WELL/BORING: DB-10  
MW-17

INSTALLATION DATE: 9/23/02

DRILLING METHOD: Hollow Stem Auger

PROJECT: TW21577

SAMPLING METHOD: DM Split Spoon

CLIENT: Chevron 21-1577

BORING DIAMETER: 8 "

LOCATION: 631 Queen Anne Ave No.

BORING DEPTH: 34'

CITY: Seattle

WELL CASING: SCH 40 PVC 2"

STATE: WA

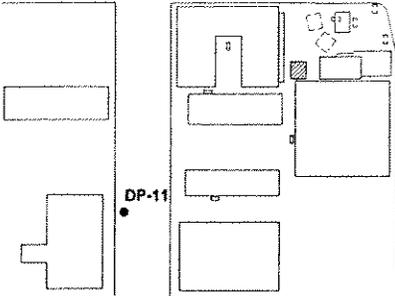
WELL SCREEN: 10-25' (0.010")

DRILLER: Cascade

SAND PACK: 7-34' (2 X12)

WELL/BORING COMPLETION	FIRST ▽	STABILIZED ▼	MOISTURE	PID (ppm)	DENSITY BLOWS / 6"	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	USCS SYMBOL	GRAPHIC	CASING ELEVATION	99.29	
											SURVEY DATE:	9/26/02	
											DTW:	9.72	
												DESCRIPTION/LOGGED BY: MATT MILLER	
Sand			WT	11	37	23			SM	SILTY SAND: dark gray; 5% fines; very fine to fine sand; very dense.			
					50-6"	24							
			WT			25							
			WT		50-3"	26							
			WT		50-2"	27							
						28							
						29							
						30							
						31							
						32							
			WT	12	9	33			CL	@33'; as above; interbedded clay lenses.			
					11	34				CLAY: very dark gray; moderate plasticity; very stiff; no hydrocarbon odor.			
					11	35							
						36							
						37							
						38							
						39							
						40							
						41							
						42							
						43							
						44							

WELL/BORING LOCATION MAP



Delta Environmental Consultants, Inc.

WELL/BORING: DB-11

INSTALLATION DATE: 9/26/02

DRILLING METHOD: Hollow Stem Auger

PROJECT: TW21577

SAMPLING METHOD: DM Split Spoon

CLIENT: Chevron 21-1577

BORING DIAMETER: 8"

LOCATION: 631 Queen Anne Ave No.

BORING DEPTH: 12'

CITY: Seattle

WELL CASING: NA

STATE: WA

WELL SCREEN: NA

DRILLER: Cascade

SAND PACK: NA

WELL/BORING COMPLETION	FIRST ▽	STABILIZED ▼	MOISTURE	PID (ppm)	DENSITY BLOWS / 6"	DEPTH (FEET)	RECOVERY	SAMPLE INTERVAL	USCS SYMBOL	GRAPHIC	CASING ELEVATION
											SURVEY DATE:
											DTW:
											DESCRIPTION/LOGGED BY: MATT MILLER
Concrete						1					Concrete surface
						2			CL		CLAY: olive gray; moderate plasticity; 5% very fine to fine sand; trace gravel; organics; no hydrocarbon odor.
						3					
						4					
						5					
						6					
						7					
						8					
						9			SC		CLAYEY SAND: olive gray; 40% fines; very fine sand; trace fine to coarse sand; very dense; no hydrocarbon odor.
			DP	2	50-6"	10					
						11					
						12					Refusal @12'.
						13					
						14					
						15					
						16					
						17					
						18					
						19					
						20					
						21					
						22					



**SITE No:** 211577  
**LOCATION:** 631 Queen Anne Ave, Seattle  
**CLIENT:** Chevron/Texaco  
**DATE:** 3/12/04  
**LOGGED BY:** GC

**DRILLER:** Cascade  
**DRILL METHOD:** Geoprobe  
**SAMPLE METHOD:** Split-Spoon with Liner  
**HOLE DIAMETER:** 2"  
**HOLE DEPTH:** 22'

MOISTURE	PID (ppm)	DEPTH	GRAPHIC LOG	SAMPLE INTERVAL	DESCRIPTION
		0			<b>Ground Surface</b>
		0			<b>Airknifed to 8'</b> Asphalt from 0-3"
		1			
		2			
		3			
		4			
		5			<b>SAND (SM)</b> Dark brown, very dense, well-graded, gravelly, silty, SAND.
		6			
		7			
		8			<b>SAND (SM)</b> Dark brown, well-graded, very dense, medium to coarse sand with 15% gravel and 15% silt; slight hydrocarbon odor; no sheen.
Dry to Moist	0	9			
	0	10			
	0	11			<b>SAND and SILT (SM)</b> Dark gray to black SAND with thin silt layers; hydrocarbon odor; no sheen.
Moist	1553	12			
	1674	13			<b>SAND (SP)</b> Brownish gray to dark gray, poorly graded, very dense SAND with <5% silt.
	1569	14			
	>4040	15			
	850.2	16			
	>4040	17			<b>SAND (SP)</b> Brownish gray, poorly graded, very dense SAND; increasing silt content with depth.
Moist to Wet	238.0	18			
	1.4	19			<b>Groundwater at 19.5'</b>
Wet to Sat	2928	20			<b>SAND (SP-SM)</b> Same as above; more silty with depth; HC odor; no sheen.
Sat	>4040	21			<b>Silty SAND (SM)</b> Brownish gray, well-graded, very dense, fine to medium silty SAND.
	>4040	22			



**BORING LOG: SP-2**

SITE No: 211577

DRILLER: Cascade

LOCATION: 631 Queen Anne Ave, Seattle

DRILL METHOD: Geoprobe

CLIENT: Chevron/Texaco

SAMPLE METHOD: Split-Spoon with Liner

DATE: 3/12/04

HOLE DIAMETER: 2"

LOGGED BY: GC

HOLE DEPTH: 20'

MOISTURE	PID (ppm)	DEPTH	GRAPHIC LOG	SAMPLE INTERVAL	DESCRIPTION
		0			Ground Surface
		0			Airknifed to 8' Asphalt from 0-3"
		1			
		2			
		3			<b>SAND (SP-SM)</b> Dark brown, very dense, well-graded, gravelly, silty, SAND with 10% silt, no gravel.
		4			
		5			
		6			
		7			
	2025	8			
Dry to Moist	28.6	9			<b>SAND (SP)</b> Dark gray, well-graded, very dense, medium to coarse SAND with <10% silt; HC odor; no sheen
	0	10			<b>SAND (SP)</b> Dark gray, poorly graded, very dense, medium to coarse sand; hydrocarbon odor; no sheen.
Moist to Sat	44.7	11			Groundwater at 11'
	43.8	12			
	1941	13			
	>4040	14			<b>SAND (SP)</b> Same as above; strong odor; sheen.
	26.3	15			
	0	16			<b>SAND (SP)</b> Brown, poorly graded, very dense, medium to coarse clean SAND; no odor; no sheen.
	0	17			
Sat	0	18			
	0	19			
	0	20			



**BORING/MONITORING WELL LOG: SP-3/DPE-2**

SITE No: 211577

DRILLER: Cascade

WELL DIAMETER: 4"

LOCATION: 631 Queen Ave, Seattle

DRILL METHOD: Hollow-Stem Auger

SCREEN INTERVAL: 10-25'

CLIENT: Chevron

SAMPLE METHOD: Split-Spoon

WELL CASING: Sch. 40 PVC

DATE: 3/12 & 15/04

HOLE DIAMETER: 8"

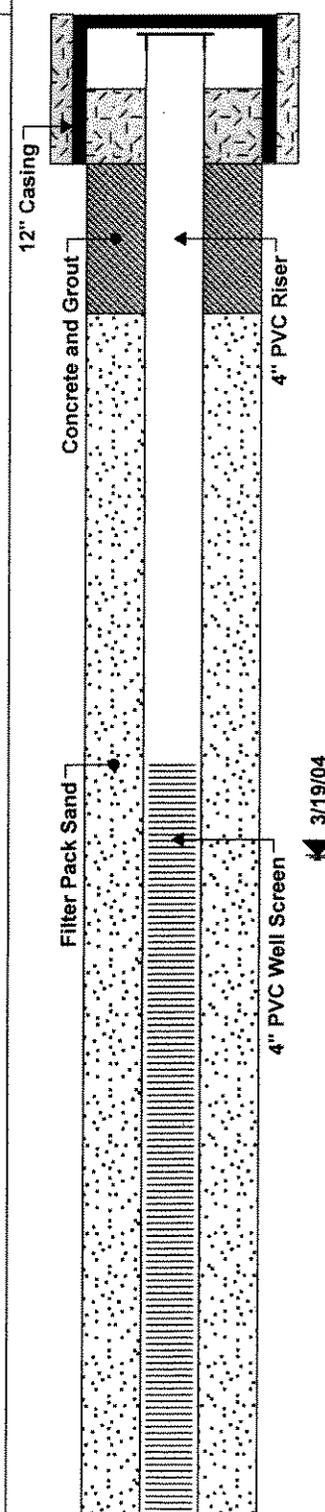
FILTER PACK: 2/12 Monterey Sand

LOGGED BY: GC

HOLE DEPTH: 26'

TOC ELEVATION:

MOISTURE	PID (ppm)	BLOWS / 6"	DEPTH	GRAPHIC LOG	SAMPLE INTERVAL	DESCRIPTION	WELL COMPLETION DETAILS
			0			Ground Surface	
			1			Airknife to 8' Asphalt 0-3" bgs	
			2			Geoprobed from 8' to 20'	
			3				
			4				
			5				
			6			<b>SAND (SP-SM)</b> Gray, dense, medium to coarse SAND with minor gravel and silt; Hydrocarbon odor; light sheen.	
			7				
			8				
			9				
	1.6		10				
	10.3		11			<b>SAND (SP-SM)</b> Gray to brown, SAND with minor silt and gravel; HC odor; no sheen.	
Moist to Wet	35.8		12				
	>4040		13			<b>SAND (SP-SM)</b> Same as above; strong HC odor; strong sheen.	
	>4040		14				
	>4040		15				
Wet to Sat	>4040		16				
	98.6		17				
	243.3		18				
	101.5		19			<b>SAND (SP-SM)</b> Brown, SAND with minor gravel and silt.	
	180.3		20				





**BORING/MONITORING WELL LOG: SP-3/DPE-2**

**SITE No:** 211577

**LOCATION:** 631 Queen Ave, Seattle

**CLIENT:** Chevron

**DATE:** 3/12 & 15/04

**LOGGED BY:** GC

**DRILLER:** Cascade

**DRILL METHOD:** Hollow-Stem Auger

**SAMPLE METHOD:** Split-Spoon

**HOLE DIAMETER:** 8"

**HOLE DEPTH:** 26'

**WELL DIAMETER:** 4"

**SCREEN INTERVAL:** 10-25'

**WELL CASING:** Sch. 40 PVC

**FILTER PACK:** 2/12 Monterey Sand

**TOC ELEVATION:**

MOISTURE	PID (ppm)	BLOWS / 6"	DEPTH	GRAPHIC LOG	SAMPLE INTERVAL	DESCRIPTION	WELL COMPLETION DETAILS
Sat	38.3	50	20			<p><b>SAND (SP)</b> Brown, very dense, medium to coarse SAND, no gravel, no silt; no odor; no sheen.</p> <p><b>SAND (SP)</b> Same as above.</p> <p><b>CLAY (CL)</b> Olive gray, very hard, clay, little plasticity; no odor, no sheen.</p>	
			21				
			22				
Sat	1120	50	23				
			24				
Dry	1350	50-4"	25				
			26				
			27				
			28				
			29				
			30				
			31				
			32				
			33				
			34				
			35				
			36				
			37				
			38				
			39				



**BORING LOG: SP-4**

SITE No: 211577

DRILLER: Cascade

LOCATION: 631 Queen Anne Ave, Seattle

DRILL METHOD: Geoprobe

CLIENT: Chevron/Texaco

SAMPLE METHOD: Split-Spoon with Liner

DATE: 3/12/04

HOLE DIAMETER: 2"

LOGGED BY: GC

HOLE DEPTH: 22'

MOISTURE	PID (ppm)	DEPTH	GRAPHIC LOG	SAMPLE INTERVAL	DESCRIPTION
		0			Ground Surface
		0			Airknifed to 8' Asphalt from 0-3"
		1			
		2			
		3			
		4			<b>SAND (SP-SM)</b> Dark brown, very dense, medium to coarse SAND with minor silt; no odor; no sheen.
		5			
		6			
		7			
Moist to Wet	18.3	8			<b>SAND (SP-SM)</b> Brown, very dense, poorly graded, fine to medium SAND with minor silt and thin interbedded layers of silt and clay; slight hydrocarbon odor; no sheen.
	2.3	9			
Wet to Sat	1.7	10			Groundwater at 9.5'
	3.6	11			<b>SAND (SP)</b> Dark gray, poorly graded, very dense, medium to coarse SAND; strong hydrocarbon odor; sheen present.
	81.7	12			
	58.6	13			
	1801	14			<b>SAND (SP)</b> Same as above; strong odor; strong sheen.
Sat	90.4	15			
	287	16			
	294	17			
	181	18			
	160	19			<b>SAND (SP)</b> Brown, poorly graded, very dense, medium to coarse clean SAND; subtle hydrocarbon odor; no sheen.
Sat	176	20			
	37.1	21			Refusal at 22'
	12.3	22			

**SITE No:** 211577

**DRILLER:** Cascade

**WELL DIAMETER:** 4"

**LOCATION:** 631 Queen Ave, Seattle

**DRILL METHOD:** Hollow-Stem Auger

**SCREEN INTERVAL:** 10-25'

**CLIENT:** Chevron

**SAMPLE METHOD:** Split-Spoon

**WELL CASING:** Sch. 40 PVC

**DATE:** 3/15/04

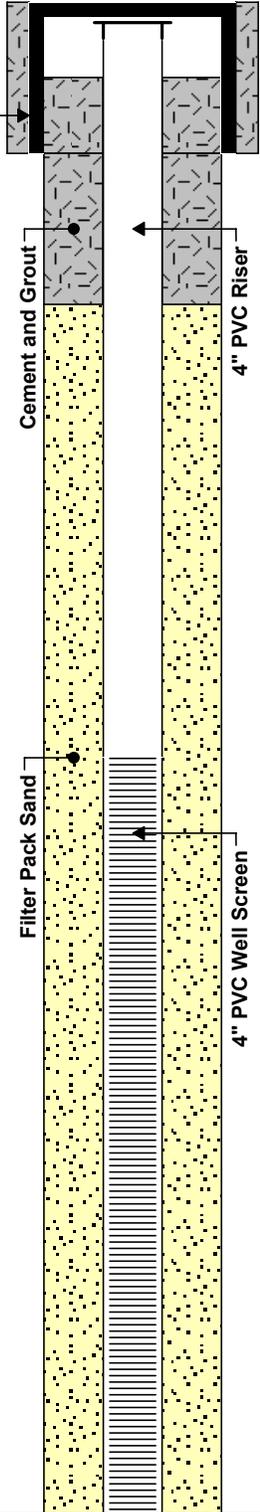
**HOLE DIAMETER:** 8"

**FILTER PACK:** 2/12 Monterey Sand

**LOGGED BY:** GC

**HOLE DEPTH:** 25'

**TOC ELEVATION:**

MOISTURE	PID (ppm)	BLOWS / 6"	DEPTH	GRAPHIC LOG	SAMPLE INTERVAL	DESCRIPTION	WELL COMPLETION DETAILS
			0			Ground Surface	 <p>8" Casing</p> <p>Cement and Grout</p> <p>Filter Pack Sand</p> <p>4" PVC Riser</p> <p>4" PVC Well Screen</p> <p>3/19/04</p>
			1			Previously VP-6.	
			2			No boring samples were taken. Drilled out previous well and installed a 4" well in its place.	
			3				
			4				
			5				
			6				
			7				
			8				
			9				
			10				
			11				
			12				
			13				
			14				
			15				
			16				
			17				
			18				
			19				



**BORING/MONITORING WELL LOG: DPE-1/VP-6**

SITE No: 211577

DRILLER: Cascade

WELL DIAMETER: 4"

LOCATION: 631 Queen Ave, Seattle

DRILL METHOD: Hollow-Stem Auger

SCREEN INTERVAL: 10-25'

CLIENT: Chevron

SAMPLE METHOD: Split-Spoon

WELL CASING: Sch. 40 PVC

DATE: 3/15/04

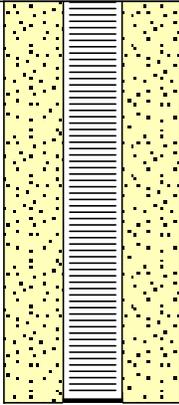
HOLE DIAMETER: 8"

FILTER PACK: 2/12 Monterey Sand

LOGGED BY: GC

HOLE DEPTH: 25'

TOC ELEVATION:

MOISTURE	PID (ppm)	BLOWS / 6"	DEPTH	GRAPHIC LOG	SAMPLE INTERVAL	DESCRIPTION	WELL COMPLETION DETAILS
			20				
			21				
			22				
			23				
			24				
			25				
			26				
			27				
			28				
			29				
			30				
			31				
			32				
			33				
			34				
			35				
			36				
			37				
			38				
			39				

**SITE No:** 211577

**DRILLER:** Cascade

**WELL DIAMETER:** 4"

**LOCATION:** 631 Queen Ave, Seattle

**DRILL METHOD:** Hollow-Stem Auger

**SCREEN INTERVAL:** 10-25'

**CLIENT:** Chevron

**SAMPLE METHOD:** Split-Spoon

**WELL CASING:** Sch. 40 PVC

**DATE:** 3/12 & 15/04

**HOLE DIAMETER:** 8"

**FILTER PACK:** 2/12 Monterey Sand

**LOGGED BY:** GC

**HOLE DEPTH:** 26'

**TOC ELEVATION:**

MOISTURE	PID (ppm)	BLOWS / 6"	DEPTH	GRAPHIC LOG	SAMPLE INTERVAL	DESCRIPTION	WELL COMPLETION DETAILS
			0			Ground Surface	
			1			Airknife to 8' Asphalt 0-3" bgs	
			2			Geoprobed from 8' to 20'	
			3				
			4				
			5				
			6			<b>SAND (SP-SM)</b> Gray, dense, medium to coarse SAND with minor gravel and silt; Hydrocarbon odor; light sheen.	
			7				
			8				
			9				
Moist to Wet	1.6		10				
	10.3		11			<b>SAND (SP-SM)</b> Gray to brown, SAND with minor silt and gravel; HC odor; no sheen.	
	35.8		12				
	>4040		13			<b>SAND (SP-SM)</b> Same as above; strong HC odor; strong sheen.	
	>4040		14				
	>4040		15				
Wet to Sat	>4040		16				
	98.6		17				
	243.3		18				
	101.5		19			<b>SAND (SP-SM)</b> Brown, SAND with minor gravel and silt.	
	180.3		20				

SITE No: 211577

DRILLER: Cascade

WELL DIAMETER: 4"

LOCATION: 631 Queen Ave, Seattle

DRILL METHOD: Hollow-Stem Auger

SCREEN INTERVAL: 10-25'

CLIENT: Chevron

SAMPLE METHOD: Split-Spoon

WELL CASING: Sch. 40 PVC

DATE: 3/12 & 15/04

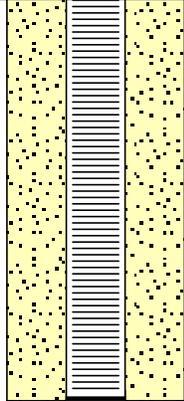
HOLE DIAMETER: 8"

FILTER PACK: 2/12 Monterey Sand

LOGGED BY: GC

HOLE DEPTH: 26'

TOC ELEVATION:

MOISTURE	PID (ppm)	BLOWS / 6"	DEPTH	GRAPHIC LOG	SAMPLE INTERVAL	DESCRIPTION	WELL COMPLETION DETAILS
Sat	38.3	50	20			<p><b>SAND (SP)</b> Brown, very dense, medium to coarse SAND, no gravel, no silt; no odor; no sheen.</p> <p><b>SAND (SP)</b> Same as above.</p> <p><b>CLAY (CL)</b> Olive gray, very hard, clay, little plasticity; no odor, no sheen.</p>	
			21				
			22				
Sat	1120	50	23				
			24				
			25				
Dry	1350	50-4"	26				
			27				
			28				
			29				
			30				
			31				
			32				
			33				
			34				
			35				
			36				
			37				
			38				
			39				

**SITE No:** 211577

**DRILLER:** Cascade

**WELL DIAMETER:** 2"

**LOCATION:** 631 Queen Ave, Seattle

**DRILL METHOD:** Hollow-Stem Auger

**SCREEN INTERVAL:** 5-25'

**CLIENT:** Chevron

**SAMPLE METHOD:** Split-Spoon

**WELL CASING:** Sch. 40 PVC

**DATE:** 3/16/04

**HOLE DIAMETER:** 8"

**FILTER PACK:** 2/12 Monterey Sand

**LOGGED BY:** GC

**HOLE DEPTH:** 25.5'

**TOC ELEVATION:**

MOISTURE	PID (ppm)	BLOWS / 6"	DEPTH	GRAPHIC LOG	SAMPLE INTERVAL	DESCRIPTION	WELL COMPLETION DETAILS
			0			Ground Surface	<p>8" Casing</p> <p>Bentonite Chips</p> <p>Filter Pack Sand</p> <p>PVC Well Screen</p> <p>PVC Riser</p> <p>3/19/04</p>
			1			Airknifed to 8' Asphalt 0-3" bgs	
			2				
			3				
			4				
			5				
			6			<b>SAND (SP-SM)</b> Gray, dense, medium to coarse SAND with silt; Hydrocarbon odor; sheen.	
			7				
			8				
			9				
Moist to Wet	11.3	20	10			<b>Silty SAND (SM)</b> Brown to gray, well-graded, fine to coarse, dense, silty SAND with 30% silt and thin interbedded layers of clayey silt; slight odor; no sheen.	
		18 17	11				
Sat.	588	50	15			<b>SAND (SP)</b> Gray, poorly graded, very dense, medium to coarse SAND; hydrocarbon odor; no sheen.	
		50	16				
		50	17				
			18				
			19				

SITE No: 211577

DRILLER: Cascade

WELL DIAMETER: 2"

LOCATION: 631 Queen Ave, Seattle

DRILL METHOD: Hollow-Stem Auger

SCREEN INTERVAL: 5-25'

CLIENT: Chevron

SAMPLE METHOD: Split-Spoon

WELL CASING: Sch. 40 PVC

DATE: 3/16/04

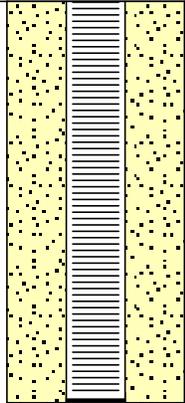
HOLE DIAMETER: 8"

FILTER PACK: 2/12 Monterey Sand

LOGGED BY: GC

HOLE DEPTH: 25.5'

TOC ELEVATION:

MOISTURE	PID (ppm)	BLOWS / 6"	DEPTH	GRAPHIC LOG	SAMPLE INTERVAL	DESCRIPTION	WELL COMPLETION DETAILS	
Wet to Sat	152	20	20			<p><b>Silty SAND (SM)</b> Brownish olive, dense, well-graded, fine to medium SAND with 20% silt; no odor, no sheen.</p>		
		21	22					<p><b>SAND (SP)</b> Gray to Brown, poorly graded, medium dense, coarse to medium SAND; slight odor; no sheen.</p>
		22	23					<p><b>Silty SAND (SM)</b> Brown, medium dense, well-graded, fine to coarse SAND with 15% silt.</p>
Wet	91.1	10	23			<p><b>Silty SAND (SM)</b> Brown, poorly graded, very hard, very fine, silty CLAY; no odor.</p>		
		21	24			<p><b>Silty SAND (SM)</b> Brown, medium dense, well-graded, fine to coarse SAND with 15% silt.</p>		
Dry	7.0	18	24			<p><b>Silty SAND (SM)</b> Brown, medium dense, well-graded, fine to coarse SAND with 15% silt.</p>		
		50	25			<p><b>Silty SAND (SM)</b> Brown, medium dense, well-graded, fine to coarse SAND with 15% silt.</p>		
			26					
			27					
			28					
			29					
			30					
			31					
			32					
			33					
			34					
			35					
			36					
			37					
			38					
			39					

**SITE No:** 211577

**DRILLER:** Cascade

**WELL DIAMETER:** 2"

**LOCATION:** 631 Queen Ave, Seattle

**DRILL METHOD:** Hollow-Stem Auger

**SCREEN INTERVAL:** 5-25'

**CLIENT:** Chevron

**SAMPLE METHOD:** Split-Spoon

**WELL CASING:** Sch. 40 PVC

**DATE:** 3/16/04

**HOLE DIAMETER:** 8"

**FILTER PACK:** 2/12 Monterey Sand

**LOGGED BY:** GC

**HOLE DEPTH:** 25.5'

**TOC ELEVATION:**

MOISTURE	PID (ppm)	BLOWS / 6"	DEPTH	GRAPHIC LOG	SAMPLE INTERVAL	DESCRIPTION	WELL COMPLETION DETAILS
			0			Ground Surface	<p>8" Casing</p> <p>Bentonite Chips</p> <p>PVC Riser</p> <p>PVC Well Screen</p> <p>Filter Pack Sand</p> <p>3/19/04</p>
			1			Airknifed to 8' Asphalt 0-3" bgs	
			2				
			3				
			4				
			5				
			6			<b>SAND (SP-SM)</b> Gray, dense, medium to coarse, silty SAND with 10% silt; hydrocarbon odor; light sheen.	
			7				
			8				
			9				
			10				
Moist to Wet	23.9	7 17 19	11			<b>Silty SAND (SM)</b> Brown to olive-gray, well-graded, fine to medium, dense SAND with 25% silt and a thin 2" layer of clay; slight odor; no sheen.	
			12			<b>SAND (SP)</b> Gray, poorly graded, dense, medium to coarse SAND.	
			13				
			14				
Wet to Sat	208	50	15			<b>SAND (SP)</b> Gray, poorly graded, very dense, medium to coarse SAND; slight hydrocarbon odor; no sheen.	
			16				
			17				
			18				
			19				

**SITE No:** 211577

**DRILLER:** Cascade

**WELL DIAMETER:** 2"

**LOCATION:** 631 Queen Ave, Seattle

**DRILL METHOD:** Hollow-Stem Auger

**SCREEN INTERVAL:** 5-25'

**CLIENT:** Chevron

**SAMPLE METHOD:** Split-Spoon

**WELL CASING:** Sch. 40 PVC

**DATE:** 3/16/04

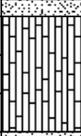
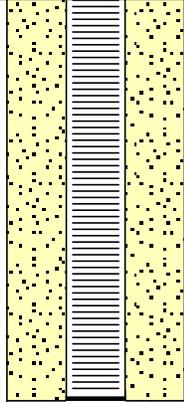
**HOLE DIAMETER:** 8"

**FILTER PACK:** 2/12 Monterey Sand

**LOGGED BY:** GC

**HOLE DEPTH:** 25.5'

**TOC ELEVATION:**

MOISTURE	PID (ppm)	BLOWS / 6"	DEPTH	GRAPHIC LOG	SAMPLE INTERVAL	DESCRIPTION	WELL COMPLETION DETAILS
Sat to Wet	27.5	50	20			<b>Silty SAND (SM)</b> Brownish gray, very dense, well-graded, silty, fine to medium SAND with 30% silt and 5% clay; no odor, no sheen.	
			21				
Wet	9.2	50	22			<b>SAND (SP)</b> Gray to Brown, poorly graded, medium dense, coarse to medium SAND; slight odor; no sheen.	
			23				
Dry	0.6	50	24			<b>Silty SAND (SM)</b> Olive gray to brown, very dense, well-graded, silty, fine to medium SAND with 30% silt and 5% clay. No odor; no sheen.	
			25				
			26				
			27				
			28				
			29				
			30				
			31				
			32				
			33				
			34				
			35				
			36				
			37				
			38				
			39				

CVX #: 21-1577	DRILLER: Cascade Drilling	WELL DEPTH: 20 feet
ADDRESS: 631 Queen Anne Ave N	DRILL METHOD: Hollow-Stem Auger	CASING: 2-inch SCH 40 PVC
CITY: Seattle, WA	SAMPLE METHOD: Split Spoon	SCREEN INTERVAL: 5 - 20 feet
DATE: 8/6/04	HOLE DIAMETER: 8-inch	FILTER PACK: 2/12 Monterey Sand
LOGGED BY: Christopher Houck	BORING DEPTH: 31.5 feet	TOC ELEVATION: 105.64 feet

Analytical Sample	Sample Method	Blow Count	PID (ppm)	Sample Interval	Depth	Graphic Log	Description	Water Level	Well Construction Details
					0		<b>Ground Surface</b>		<p><b>Well Construction Details</b></p> <p>Bentonite Seal</p> <p>Concrete Surface Seal</p> <p>2/12 Sand Pack</p>
					0		<b>Concrete Sidewalk</b>		
					1		<b>SAND (SW)</b> Brown, fine to coarse SAND. Minor fine gravel; minor silt; trace coarse gravel and cobbles; loose; damp. No odor. Air knife to 8 feet below ground surface.		
					2				
					3				
					4				
					5				
					6				
					7				
SB-20-8	SS	15 18 28	0		8		<b>SILTY SAND (SM)</b> Slightly mottled, brown to orange SILTY SAND. Medium to fine sand; trace coarse sand; some coarse to fine gravel; dense; very moist. No odor. Till.		
					9				
SB-20-13	SS	25 50-6	0		10		<b>SILT (ML)</b> Light brown SILT. Very hard; massive, blocky texture; dry. No odor.		
					11				
-	SS	12 18 32	0		13		<b>CLAYEY SILT (ML)</b> Gray to olive gray CLAYEY SILT. Very hard; low plasticity; dry to slightly damp. No odor.		
					14				
					15				
-	SS	20 50-6	0		16				
					17				
					18				
					19				
					20				





SOIL BORING/MONITORING WELL LOG: SB-21/MW-21

CVX #: 21-1577

DRILLER: Cascade Drilling

WELL DEPTH: 35 feet

ADDRESS: 631 Queen Anne Ave N

DRILL METHOD: Hollow-Stem Auger

CASING: 2-inch SCH 40 PVC

CITY: Seattle, WA

SAMPLE METHOD: Split Spoon

SCREEN INTERVAL: 15 - 35 feet

DATE: 8/9/04

HOLE DIAMETER: 8-inch

FILTER PACK: 2/12 Monterey Sand

LOGGED BY: Christopher Houck

BORING DEPTH: 41.5 feet

TOC ELEVATION: 94.76 feet

Analytical Sample	Sample Method	Blow Count	PID (ppm)	Sample Interval	Depth	Graphic Log	Description	Water Level	Well Construction Details
					0		<b>Ground Surface</b>		<p>Concrete Surface Seal</p> <p>Bentonite Seal</p> <p>2/12 Sand Pack</p>
					0		<b>Asphalt</b>		
					1		<b>SAND (SW)</b> Dark brown SAND. Fine to coarse sand; some fine gravel; trace silt; loose; damp. No odor.		
					2				
					3				
					4				
					5				
					6				
					7				
					8				
					9				
					10				
-	SS	21 25 30	3.7		11				
					12				
					13				
-	SS	40 50 50	2.5		14				
					15				
					16				
					17				
					18				
					19				
					20				
					14		<b>SILTY SAND (SM)</b> Dark brown SILTY SAND. Fine to very fine sand; dense; moist. No odor.		
					15				
					16				
					17				
					18				
					19				
					20				
					18				



SOIL BORING/MONITORING WELL LOG: SB-21/MW-21

CVX #: 21-1577

DRILLER: Cascade Drilling

WELL DEPTH: 35 feet

ADDRESS: 631 Queen Anne Ave N

DRILL METHOD: Hollow-Stem Auger

CASING: 2-inch SCH 40 PVC

CITY: Seattle, WA

SAMPLE METHOD: Split Spoon

SCREEN INTERVAL: 15 - 35 feet

DATE: 8/9/04

HOLE DIAMETER: 8-inch

FILTER PACK: 2/12 Monterey Sand

LOGGED BY: Christopher Houck

BORING DEPTH: 41.5 feet

TOC ELEVATION: 94.76 feet

Analytical Sample	Sample Method	Blow Count	PID (ppm)	Sample Interval	Depth	Graphic Log	Description	Water Level	Well Construction Details
-	SS	28 30 35	1.2		21		<b>SAND (SP)</b> Light brown fine to medium SAND. Minor to some coarse silt; dense; moist. No odor. Contains lenses of clean, medium to coarse sand with trace fine gravel.	 	
-	SS	30 40 45	0		23				
SB-21-25	SS	35 40 40	0		25				
-	SS	32 48 40	5.0		28				
-	SS	35 40 41	16.5		31				
SB-21-35	SS	30 35 38	26.7		35		<b>SILT (ML)</b> Gray to light gray, thinly laminated SILT. Trace to minor clay; very low plasticity, dense; moist. Weak hydrocarbon odor in the upper portion of the unit.	 <b>Bentonite Backfill</b>	
					36				
					37				
					38				
					39				
					40				



**SOIL BORING/MONITORING WELL LOG: SB-21/MW-21**

CVX #: 21-1577

DRILLER: Cascade Drilling

WELL DEPTH: 35 feet

ADDRESS: 631 Queen Anne Ave N

DRILL METHOD: Hollow-Stem Auger

CASING: 2-inch SCH 40 PVC

CITY: Seattle, WA

SAMPLE METHOD: Split Spoon

SCREEN INTERVAL: 15 - 35 feet

DATE: 8/9/04

HOLE DIAMETER: 8-inch

FILTER PACK: 2/12 Monterey Sand

LOGGED BY: Christopher Houck

BORING DEPTH: 41.5 feet

TOC ELEVATION: 94.76 feet

Analytical Sample	Sample Method	Blow Count	PID (ppm)	Sample Interval	Depth	Graphic Log	Description	Water Level	Well Construction Details
-	SS	32 40 40	0		41		Boring SB-21 completed at 41.5 feet and backfilled with bentonite to 35 feet.		
					42				
					43				
					44				
					45				
					46				
					47				
					48				
					49				
					50				
					51				
					52				
					53				
					54				
					55				
					56				
					57				
					58				
					59				
					60				

<b>SITE No:</b> 211577	<b>DRILLER:</b> Cascade	<b>WELL DIAMETER:</b> 0.75"
<b>LOCATION:</b> 631 Queen Ave, Seattle	<b>DRILL METHOD:</b> Limited-Access Geoprobe	<b>SCREEN INTERVAL:</b> 9.75-19.75'
<b>CLIENT:</b> Chevron	<b>SAMPLE METHOD:</b> Geoprobe	<b>WELL CASING:</b> Sch. 40 PVC
<b>DATE:</b> 10/04/04	<b>HOLE DIAMETER:</b> 2"	<b>FILTER PACK:</b> 10/20 Colorado Sand
<b>LOGGED BY:</b> G. Cisneros	<b>HOLE DEPTH:</b> 20	<b>TOC ELEVATION:</b> 104.83'

MOISTURE	PID (ppm)	DEPTH	GRAPHIC LOG	SAMPLE INTERVAL	DESCRIPTION	WELL COMPLETION DETAILS
		0			<b>Ground Surface</b>	<p>4" Casing</p> <p>Bentonite Chips</p> <p>PVC Riser</p> <p>Filter Pack Sand</p>
		0.5			Airknifed to 8' Top 6-inches is peagravel.	
		1			Thin Asphalt layer at 6"	
		2			Fill - Sand with little gravel; no silt.	
		3				
Dry to Moist	2.9	4		4-5	<b>SAND (SP)</b> Brownish gray, dense, medium to coarse SAND with 5% gravel; no odor; no sheen.	
		5				
Dry to Moist	4.2	6		6-7	<b>SAND (SP-SM)</b> Light brown to reddish in some areas, dense, fine to medium SAND with a 1-inch silty SAND layers with 10% silt, and 5% gravel; no odor; no sheen.	
		7				
Dry	4.2	8		8-9	<b>Sandy SILT (ML)</b> Light brown, very hard, sandy SILT with 5% clay and 15-20% sand; no odor; no sheen.	
Moist	5.5	9				
Moist	278	10		10-11	<b>10-11' SAND (SP)</b> Gray, very dense, fine to medium SAND with 5% silt; moderate hydrocarbon odor; slight sheen.	
Moist	30	11		11-12	<b>11-12' SAND (SP)</b> Same as above; moderate odor, slight sheen.	

<b>SITE No:</b> 211577	<b>DRILLER:</b> Cascade	<b>WELL DIAMETER:</b> 0.75"
<b>LOCATION:</b> 631 Queen Ave, Seattle	<b>DRILL METHOD:</b> Limited-Access Geoprobe	<b>SCREEN INTERVAL:</b> 9.75-19.75'
<b>CLIENT:</b> Chevron	<b>SAMPLE METHOD:</b> Geoprobe	<b>WELL CASING:</b> Sch. 40 PVC
<b>DATE:</b> 10/04/04	<b>HOLE DIAMETER:</b> 2"	<b>FILTER PACK:</b> 10/20 Colorado Sand
<b>LOGGED BY:</b> G. Cisneros	<b>HOLE DEPTH:</b> 20	<b>TOC ELEVATION:</b> 104.83'

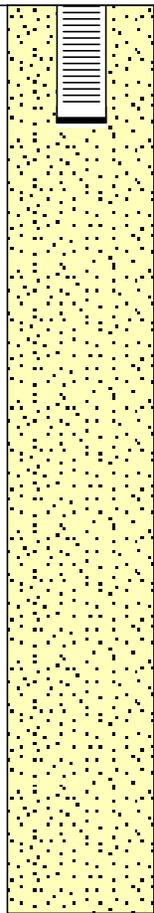
MOISTURE	PID (ppm)	DEPTH	GRAPHIC LOG	SAMPLE INTERVAL	DESCRIPTION	WELL COMPLETION DETAILS
Damp	29.1	12			<b>12-13' SAND (SP)</b> Same as above; no silt; 5% gravel; strong odor; strong sheen.	<p>PVC Well Screen with Pre-Pack Sand</p>
Moist	8.6	13			<b>13-14' SAND (SP)</b> Same as above; no silt; no gravel; strong odor; strong sheen.	
Moist	78.9	14			<b>14-15' SAND (SP)</b> Same as above; strong odor; strong sheen.	
Wet		15			<b>15-16' SAND (SP)</b> Same as above; strong odor; strong sheen.	
Sat.	82	16			<b>16-17' SAND (SW)</b> Gray, dense, fine to coarse SAND with <5% silt, 5% gravel; strong odor; moderate sheen.	
Wet	6100	17			<b>17-18' SAND (SW)</b> Same as above; strong odor; moderate sheen.	
Wet	5836	18			<b>18-19' SAND (SW)</b> Same as above; strong odor; moderate sheen.	
Wet	2058	19			<b>19' Clayey SILT (ML)</b> Gray to brown, very hard clayey silt with 10% sand with moderate plasticity; slight odor; no sheen.	
Wet	257	20			<b>CLAY (CL-ML)</b> Brownish gray, CLAY with high plasticity; slight odor; no sheen.	
		21				
		22				
		23				

<b>SITE No:</b> 211577	<b>DRILLER:</b> Cascade	<b>WELL DIAMETER:</b> 0.75"
<b>LOCATION:</b> 631 Queen Ave, Seattle	<b>DRILL METHOD:</b> Limited-Access Geoprobe	<b>SCREEN INTERVAL:</b> 5.5-13.5'
<b>CLIENT:</b> Chevron	<b>SAMPLE METHOD:</b> Geoprobe	<b>WELL CASING:</b> Sch. 40 PVC
<b>DATE:</b> 10/04/04	<b>HOLE DIAMETER:</b> 2"	<b>FILTER PACK:</b> 10/20 Colorado Sand
<b>LOGGED BY:</b> G. Cisneros	<b>HOLE DEPTH:</b> 20	<b>TOC ELEVATION:</b> 107.82'

MOISTURE	PID (ppm)	DEPTH	GRAPHIC LOG	SAMPLE INTERVAL	DESCRIPTION	WELL COMPLETION DETAILS
		0			<b>Ground Surface</b>	<p>4" Casing</p> <p>Bentonite Chips</p> <p>PVC Riser</p> <p>Filter Pack Sand</p> <p>PVC Well Screen with Pre-pack Sand</p>
		1			Airknifed to 8' Fill - Sand with little gravel; no silt.	
Moist	0.0	4			<b>SAND (SW)</b> Dark brown, very dense, fine to coarse SAND with 10% gravel; no odor; no sheen. (Fill?)	
Moist	0.0	6			<b>SAND (SW)</b> Same as above; no odor; no sheen.	
Moist	1.9	7			<b>SAND (SW)</b> Same as above; no odor; no sheen.	
Moist	18.4	8			<b>8-9' SAND (SW)</b> Dark brown, very dense, fine to coarse SAND with 10% gravel; slight odor; no sheen.	
Wet	>10358	9			<b>9-10' SAND (SP)</b> Gray, very dense, fine to medium SAND; no silt; no gravel; strong odor; moderate sheen.	
Sat	>10358	10			<b>10-10.5' SAND (SP)</b> Same as above; strong hydrocarbon odor; strong sheen.	
Sat		11			<b>10.5-11' SAND (SP-SM)</b> Same as above except with three 2-inch interbedded layers of sandy silt with slight plasticity; strong odor; moderate sheen.	
Wet	1381	12			<b>11-12' SAND (SP-SM)</b> Gray, fine to medium SAND with interbedded silt layers; strong odor, moderate sheen.	

10/5/04

SITE No: 211577	DRILLER: Cascade	WELL DIAMETER: 0.75"
LOCATION: 631 Queen Ave, Seattle	DRILL METHOD: Limited-Access Geoprobe	SCREEN INTERVAL: 5.5-13.5'
CLIENT: Chevron	SAMPLE METHOD: Geoprobe	WELL CASING: Sch. 40 PVC
DATE: 10/04/04	HOLE DIAMETER: 2"	FILTER PACK: 10/20 Colorado Sand
LOGGED BY: G. Cisneros	HOLE DEPTH: 20	TOC ELEVATION: 107.82'

MOISTURE	PID (ppm)	DEPTH	GRAPHIC LOG	SAMPLE INTERVAL	DESCRIPTION	WELL COMPLETION DETAILS
Moist	9336	13			12-13' SAND (SP-SM) Same as above; strong odor; moderate sheen.	
Moist	14.1	14			13-14' SAND (SP-SM) Same as above; gray to reddish brown; slight odor; no sheen.	
Moist					14-14.5' SAND (SP-SM) Same as above; no odor; no sheen.	
Moist	29.3	15			14.5-15.75' SAND (SP) Brown, very dense, fine to medium SAND; no silt; no gravel; strong odor; moderate sheen.	
Moist	>10358	16			15.75-17' SAND (SP) Gray, fine to medium SAND; no silt; no gravel; strong odor; moderate sheen.	
Moist	4748	17			17-18' SAND (SP) Same as above; strong odor; moderate sheen.	
Moist	6012	18			18-19.25' SAND (SP) Same as above; strong odor; no sheen.	
Moist	252	19			19.25-19.75' Silty SAND (SM) Gray, very dense, silty fine to medium SAND with 20% silt; slight odor; no sheen.	
Moist	>10358	20			19.75-20' CLAY (CL) Brownish gray, CLAY with high plasticity; slight odor; no sheen.	
		21				
		22				
		23				
		24				
		25				

<b>SITE No:</b> 211577	<b>DRILLER:</b> Cascade	<b>WELL DIAMETER:</b> 0.75"
<b>LOCATION:</b> 631 Queen Ave, Seattle	<b>DRILL METHOD:</b> Limited-Access Geoprobe	<b>SCREEN INTERVAL:</b> 4.2-14.2
<b>CLIENT:</b> Chevron	<b>SAMPLE METHOD:</b> Geoprobe	<b>WELL CASING:</b> Sch. 40 PVC
<b>DATE:</b> 10/5/04	<b>HOLE DIAMETER:</b> 2"	<b>FILTER PACK:</b> 10/20 Colorado Sand
<b>LOGGED BY:</b> G. Cisneros	<b>HOLE DEPTH:</b> 20.5	<b>TOC ELEVATION:</b> 107.95'

MOISTURE	PID (ppm)	DEPTH	GRAPHIC LOG	SAMPLE INTERVAL	DESCRIPTION	WELL COMPLETION DETAILS
		0			<b>Ground Surface</b>	<p>4" Casing</p> <p>Bentonite Chips</p> <p>PVC Riser</p> <p>Filter Pack Sand</p> <p>PVC Well Screen with Pre-Packed Sand</p>
		0			Airknifed to 8' Layer of bricks at 6-inches.	
		1			Gravelly SAND	
		2				
		3				
Moist	0.4	4		4-5'	<b>SAND (SW)</b> Dark brown, gravelly SAND with 15-20% gravel and 5% silt; no odor; no sheen.	
		5				
Moist	0.0	6		6-8'	<b>SAND (SP)</b> Dark brown, fine to medium SAND with 5% gravel; no odor; no sheen.	
		7				
Wet	5.5	8		8-9'	<b>8-9' SAND (SP)</b> Brown to light gray, fine to medium SAND; no silt; no gravel; no odor; no sheen.	
Sat	1.5	9		9-10'	<b>9-10' SAND (SP-SM)</b> Light brown, very dense, fine to medium SAND with silt layers interbedded (15-20% silt); no odor; no sheen.	
Sat	7.1	10		10-11'	<b>10-11' SAND (SP-SM)</b> Same as above; no odor; no sheen.	
Wet	1.0	11		11-12'	<b>11-12' Silty SAND (SM)</b> Light brown, very dense, fine to medium SAND with 25% silt and 15% gravel; slight odor, no sheen.	
Moist	8.9	12		12-13'	<b>12-13' Silty SAND (SM)</b> Same as above; slight odor; no sheen.	

10/5/04



**BORING/MONITORING WELL LOG: SB-24/MW-24**

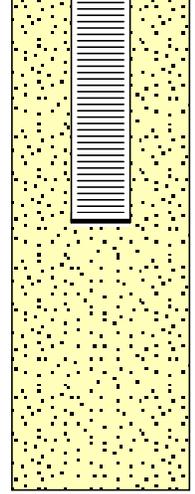
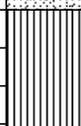
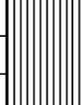
<b>SITE No:</b> 211577	<b>DRILLER:</b> Cascade	<b>WELL DIAMETER:</b> 0.75"
<b>LOCATION:</b> 631 Queen Ave, Seattle	<b>DRILL METHOD:</b> Limited-Access Geoprobe	<b>SCREEN INTERVAL:</b> 4.2-14.2
<b>CLIENT:</b> Chevron	<b>SAMPLE METHOD:</b> Geoprobe	<b>WELL CASING:</b> Sch. 40 PVC
<b>DATE:</b> 10/5/04	<b>HOLE DIAMETER:</b> 2"	<b>FILTER PACK:</b> 10/20 Colorado Sand
<b>LOGGED BY:</b> G. Cisneros	<b>HOLE DEPTH:</b> 20.5	<b>TOC ELEVATION:</b> 107.95'

MOISTURE	PID (ppm)	DEPTH	GRAPHIC LOG	SAMPLE INTERVAL	DESCRIPTION	WELL COMPLETION DETAILS
Moist	14.8	13			<b>13-14' Silty SAND (SM)</b> Same as above; slight odor; no sheen.	
Moist	16.4	14			<b>14-15' SAND (SP-SM)</b> Brown to gray, very dense, fine to medium SAND with 2-inch silty SAND layers; slight odor; no sheen.	
Moist	6.9	15			<b>15-16' SAND (SP-SM)</b> Same as above; no odor; no sheen.	
Wet	205.8	16			<b>16-17' SAND (SP-SM)</b> Gray, fine to medium SAND with a 1-inch silty sand layer at 16.5 feet; strong odor; moderate sheen.	
Moist	>4506	17			<b>17-18' SAND (SP)</b> Same as above; strong odor; moderate sheen.	
Moist	>4506	18			<b>18-19.5' SAND (SP)</b> Gray, dense, medium to coarse SAND; no silt; no gravel; strong odor; moderate sheen.	
Moist	177.8	19			<b>19.5-20' Silty SAND (SM)</b> Gray to brown, very dense SAND with 15% silt, no gravel; moderate odor; slight sheen.	
Moist	48.3	20			<b>20-20.5' Clayey SILT (ML-CL)</b> Very hard, clayey SILT with moderate plasticity; slight odor; no sheen.	
Moist	11.8	21				
		22				
		23				
		24				
		25				

<b>SITE No:</b> 211577	<b>DRILLER:</b> Cascade	<b>WELL DIAMETER:</b> 4"
<b>LOCATION:</b> 631 Queen Ave, Seattle	<b>DRILL METHOD:</b> Hollow-Stem Auger	<b>SCREEN INTERVAL:</b> 8-23'
<b>CLIENT:</b> Chevron	<b>SAMPLE METHOD:</b> Split-Spoon	<b>WELL CASING:</b> Sch. 40 PVC
<b>DATE:</b> 10/25/04	<b>HOLE DIAMETER:</b> 10"	<b>FILTER PACK:</b> 2/12 Monterey Sand
<b>LOGGED BY:</b> G. Cisneros	<b>HOLE DEPTH:</b> 26.5'	<b>TOC ELEVATION:</b> 101.96'

MOISTURE	PID (ppm)	BLOWS / 6"	DEPTH	GRAPHIC LOG	SAMPLE INTERVAL	DESCRIPTION	WELL COMPLETION DETAILS
			0			<b>Ground Surface</b>	
			1			Airknifed to 8' Concrete 0-1' thick.	
			2			Brown, fine to medium SAND, no silt, <5% gravel.	
			3				
Dry to Moist	0		4			<b>SAND (SP)</b> Brown, fine to medium SAND with <5% silt and <5% gravel; no odor; no sheen.	
			5				
			6				
			7				
Moist	0	10 25 27	8			<b>SAND (SP-SM)</b> Brown, fine to medium SAND with thin layers of silt with moderate to high plasticity; no gravel; no silt in SAND and <10% sand in silt layers; no odor; no sheen.	
			9				
Moist	0	25 50	10			<b>SAND (SP)</b> Brown, fine to medium SAND with <5% silt and no gravel; no odor; no sheen.	
			11				
			12				
Wet	588	25 50	13			<b>SAND (SP)</b> Gray, poorly graded, fine to medium, SAND; no silt; no gravel; strong odor; slight sheen.	
			14				
			15			<b>SAND (SP-SM)</b> Gray, fine to medium SAND with 10% silt and a 3" silt layer at the bottom with moderate plasticity; no sheen; slight odor.	
Wet to Sat	28 59.3	8 25 20	16				
			17				
Sat	40.1	50	18			<b>SAND (SP-SM)</b> Gray to brown, fine to medium SAND with 2" thick interbedded silt layer; no gravel and <5% silt in sand; moderate odor; no sheen.	
			19				
			20				

<b>SITE No:</b> 211577	<b>DRILLER:</b> Cascade	<b>WELL DIAMETER:</b> 4"
<b>LOCATION:</b> 631 Queen Ave, Seattle	<b>DRILL METHOD:</b> Hollow-Stem Auger	<b>SCREEN INTERVAL:</b> 8-23'
<b>CLIENT:</b> Chevron	<b>SAMPLE METHOD:</b> Split-Spoon	<b>WELL CASING:</b> Sch. 40 PVC
<b>DATE:</b> 10/25/04	<b>HOLE DIAMETER:</b> 10"	<b>FILTER PACK:</b> 2/12 Monterey Sand
<b>LOGGED BY:</b> G. Cisneros	<b>HOLE DEPTH:</b> 26.5'	<b>TOC ELEVATION:</b> 101.96'

MOISTURE	PID (ppm)	BLOWS / 6"	DEPTH	GRAPHIC LOG	SAMPLE INTERVAL	DESCRIPTION	WELL COMPLETION DETAILS
Sat to Moist	149 170	6 24 50	21			<b>SILT (ML)</b> Brown, very hard SILT with 5% sand and moderate plasticity; no gravel; slight odor; no sheen. (Sand heaving; added water to hole.)	
Wet to Moist	121 4	6 24 35	22			<b>SAND (SP)</b> Gray-brown, fine to medium SAND; no silt; no gravel; no odor; no sheen.	
			23			<b>SILT (ML)</b> Gray, very hard SILT with moderate plasticity; no odor; no sheen.	
Moist to Dry	0	14 21 25	24			<b>SILT/CLAY (ML/CL)</b> Gray, very hard, clayey SILT/silty CLAY with moderate plasticity; no odor; no sheen.	
			25				
			26				
			27				
			28				
			29				
			30				
			31				
			32				
			33				
			34				
			35				
			36				
			37				
			38				
			39				
			40				

Sloughed Sand

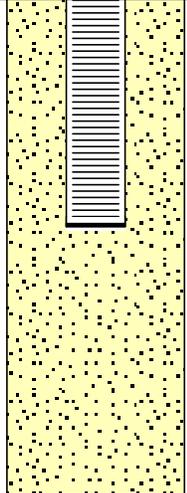
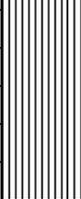
<b>SITE No:</b> 211577	<b>DRILLER:</b> Cascade	<b>WELL DIAMETER:</b> 4"
<b>LOCATION:</b> 631 Queen Ave, Seattle	<b>DRILL METHOD:</b> Hollow-Stem Auger	<b>SCREEN INTERVAL:</b> 7.75-22.75'
<b>CLIENT:</b> Chevron	<b>SAMPLE METHOD:</b> Split-Spoon	<b>WELL CASING:</b> Sch. 40 PVC
<b>DATE:</b> 10/27/04	<b>HOLE DIAMETER:</b> 10"	<b>FILTER PACK:</b> 2/12 Monterey Sand
<b>LOGGED BY:</b> G. Cisneros	<b>HOLE DEPTH:</b> 26.5'	<b>TOC ELEVATION:</b> 100.47'

MOISTURE	PID (ppm)	BLOWS / 6"	DEPTH	GRAPHIC LOG	SAMPLE INTERVAL	DESCRIPTION	WELL COMPLETION DETAILS
			0			<b>Ground Surface</b>	<p>4" Casing</p> <p>Bentonite Chips</p> <p>PVC Riser</p> <p>Filter Pack Sand</p> <p>PVC Well Screen</p>
			1			Airknifed to 8' Concrete 0-1' thick.	
Dry to Moist	0		2			<b>SAND (SP-SM)</b> Brown, fine to medium SAND with 10% silt, <5% gravel; no odor; no sheen.	
			3				
			4				
			5				
Moist	0	20	6			<b>SAND (SP-SM)</b> Brown, fine to medium SAND with 10% silt and <5% gravel; no odor; no sheen.	
		50	7				
		50	8				
			9				
Wet to Sat	117	50	10				
		50	11				
			12				
			13			<b>SAND (SP)</b> Brownish gray, very dense, fine to medium, SAND; no silt; no gravel; no odor; no sheen.	
Sat	310	17	14				
		50-3"	15			<b>SAND (SP)</b> Same as above, slight odor; no sheen.	
			16				
			17				
Sat	288	12	18			<b>SAND (SP-SM)</b> Same as above except 5% gravel and a 2" sandy silt layer at bottom with low plasticity; no odor; no sheen.	
		50-3"	19				
			20				

10/28/04

10/27/04

SITE No: 211577	DRILLER: Cascade	WELL DIAMETER: 4"
LOCATION: 631 Queen Ave, Seattle	DRILL METHOD: Hollow-Stem Auger	SCREEN INTERVAL: 7.75-22.75'
CLIENT: Chevron	SAMPLE METHOD: Split-Spoon	WELL CASING: Sch. 40 PVC
DATE: 10/27/04	HOLE DIAMETER: 10"	FILTER PACK: 2/12 Monterey Sand
LOGGED BY: G. Cisneros	HOLE DEPTH: 26.5'	TOC ELEVATION: 100.47'

MOISTURE	PID (ppm)	BLOWS / 6"	DEPTH	GRAPHIC LOG	SAMPLE INTERVAL	DESCRIPTION	WELL COMPLETION DETAILS
Sat	290	21 50-2"	21			<b>SAND (SP)</b> Same as above; no silt; no gravel; slight odor; no sheen.	 ↑ Sloughed Sand ↓
Sat		22 50-4"	22			<b>SAND (SP)</b> Gray, very dense, fine to medium SAND; no silt; no gravel; no odor; no sheen.	
Moist to Dry	184	23 50-4"	23			<b>Clayey SILT (ML-CL)</b> Gray, very hard, clayey SILT with moderate plasticity; no odor; no sheen.	
		15 21 23	24				
	0.3		25				
			26				
			27				
			28				
			29				
			30				
			31				
			32				
			33				
			34				
			35				
			36				
			37				
			38				
			39				
			40				

**BORING LOG**

Boring No: MW-30

Chevron Site No: 211577

Site Location: 631 Queen Anne Ave N, Seattle, WA

Date: 02/07/2005



Well Diameter: 2 inches

Well Depth: 34.68 ft

Well Screen: 19.68-34.68 ft

Filter Pack: 2/12 Monterey Sand

Driller: Cascade Drilling, Inc.

Method: AirPercussion, Hollow Stem

Consultant: Gabe Cisneros (SAIC, Bothell)

Well Casing: Sch 40 PVC

Elevation (TOC): 124.67 msl

Total Depth: 55.5 Ft

GW Depth: 25.0 Ft

Recov.	Depth Ft	Moist.	Blow Cnt	OVM	Soil Code	Soil Pattern	Soil Description	Well Construction
	0						Concrete top 4 inches	<p>Casing Sch 40 PVC</p> <p>Grout</p> <p>Concrete</p> <p>Seal Bentonite</p>
	5	Moist		9.6			Brown, loose, poorly sorted, fine to medium SAND with 10% gravel and 5% silt. No odor.	
	10	Wet	50/4	5.1	SP		Brown, very dense, poorly sorted, fine to medium SAND with 10% gravel. No odor, no sheen.	
	15	Moist	50	4.2			Same as above. Brown to dark brown in coloration. No odor, no sheen.	



**BORING LOG**

Boring No: MW-30

Chevron Site No: 211577

Site Location: 631 Queen Anne Ave N, Seattle, WA

Date: 02/07/2005



Well Diameter: 2 inches

Well Depth: 34.68 ft

Well Screen: 19.68-34.68 ft

Filter Pack: 2/12 Monterey Sand

Driller: Cascade Drilling, Inc.

Method: AirPercussion, Hollow Stem

Consultant: Gabe Cisneros (SAIC, Bothell)

Well Casing: Sch 40 PVC

Elevation (TOC): 124.67 msl

Total Depth: 55.5 Ft

GW Depth: 25.0 Ft

Recov.	Depth Ft	Moist.	Blow Cnt	OVM	Soil Code	Soil Pattern	Soil Description	Well Construction
	15	Moist	50/4	5.8			Brown to light brown, very dense, fine-grained SAND with no gravel, no silt. No odor.	<p>Seal Bentonite</p> <p>Filter Pack 2/12 Monterey SAND</p> <p>Screen 10 Slot Sch. 40 PVC</p>
		Moist	50/3	7.9			Brown to light brown, very dense, fine to medium-grained SAND with 10% gravel, no silt. No odor, no sheen.	
	20	Moist	50/3	3.7			Same as above. No odor, no sheen.	
		Moist	50/3	6.0	SP		Same as above. No odor, no sheen.	
	25	Wet	50/3	5.8			Brown to gray, very dense, fine to medium SAND with 10% silt and no gravel. No odor, no sheen.	
		Wet	50/5	5.9			Brown, very dense, fine to medium SAND with less than 5% silt, no gravel. No odor, no sheen.	
	30							



**BORING LOG**



Boring No: MW-30

Chevron Site No: 211577

Site Location: 631 Queen Anne Ave N, Seattle, WA

Date: 02/07/2005

Well Diameter: 2 inches

Well Depth: 34.68 ft

Well Screen: 19.68-34.68 ft

Filter Pack: 2/12 Monterey Sand

Driller: Cascade Drilling, Inc.

Method: AirPercussion, Hollow Stem

Consultant: Gabe Cisneros (SAIC, Bothell)

Well Casing: Sch 40 PVC

Elevation (TOC): 124.67 msl

Total Depth: 55.5 Ft

GW Depth: 25.0 Ft

Recov.	Depth Ft	Moist.	Blow Cnt	OVM	Soil Code	Soil Pattern	Soil Description	Well Construction
	30	Wet	50/5	9.4			Brown to light gray, very dense, fine to medium SAND with 80% medium-grained sand, no silt, no gravel. No odor.	
			50/4	11.2			No recovery.	
	35	Moist	50/4	10.0			Brown to gray, very dense, fine to medium SAND with no silt, no gravel. No odor.	
		Moist	50/4	14.4	SP		Same as above. Brown to gray, very dense, fine to medium SAND with no silt, no gravel. No odor.	
	40	Moist	50/4	5.1			Same as above. Gray coloration. No odor.	
		Moist	50/4	4.7			Same as above. No odor.	
	45							



**BORING LOG**



Boring No: MW-30

Chevron Site No: 211577

Site Location: 631 Queen Anne Ave N, Seattle, WA

Date: 02/07/2005

Well Diameter: 2 inches

Well Depth: 34.68 ft

Well Screen: 19.68-34.68 ft

Filter Pack: 2/12 Monterey Sand

Driller: Cascade Drilling, Inc.

Method: AirPercussion, Hollow Stem

Consultant: Gabe Cisneros (SAIC, Bothell)

Well Casing: Sch 40 PVC

Elevation (TOC): 124.67 msl

Total Depth: 55.5 Ft

GW Depth: 25.0 Ft

Recov.	Depth Ft	Moist.	Blow Cnt	OVM	Soil Code	Soil Pattern	Soil Description	Well Construction
	45	Moist	50/4	13	SP		Same as above. Gray in coloration.	
			50/4	13.9			Same as above. No odor.	
	50	Moist	70/60	14.8			Gray, very dense, fine to medium silty SAND with 25% silt and no gravel. No odor.	
		Moist	50/4	4.0			Same as above.	
	55	Moist			ML		Gray, clayey SILT with moderate plasticity.	
	55.5		50	3.2				



**BORING LOG**

**Well No: MW-31**

**Chevron Site No: 211577**

**Site Location: 631 Queen Anne Ave, Seattle, WA**

**Date: 02/07/2005 - 02/08/2005**



**Well Diameter: 2 inches**

**Well Depth: 30 ft**

**Well Screen: 15-30 ft 10-Slot**

**Filter Pack: 2/12 Monterey Sand**

**Driller: Cascade Drilling, Inc.**

**Method: AirPercussion, Hollow Stem**

**Consultant: Gabe Cisneros (SAIC, Bothell)**

**Well Casing: Sch 40 PVC**

**Elevation (TOC): 120.13 msl**

**Total Depth: 35.5 Ft**

**GW Depth: 23.0 Ft**

Recov.	Depth Ft	Moist.	Blow Cnt	OVM	Soil Code	Soil Pattern	Soil Description	Well Construction
	0						Concrete top 4"	
				6.2	SW	Very dense, gravelly, silty SAND. Airknifed to 8'		
	5	Moist				Light brown to grayish brown, dense silty SAND. Mottled orange, fine to coarse sand, some gravel. No odor.		
					SP	Brown, very dense, fine to medium SAND with 5% gravel and no silt.		
	10	Moist	50/4	2.6			Light brown, very dense, fine to medium SAND with no silt and no gravel. No odor.	
	12							



**BORING LOG**



**Well No: MW-31**  
**Chevron Site No: 211577**  
**Site Location: 631 Queen Anne Ave, Seattle, WA**  
**Date: 02/07/2005 - 02/08/2005**

**Well Diameter: 2 inches**  
**Well Depth: 30 ft**  
**Well Screen: 15-30 ft 10-Slot**  
**Filter Pack: 2/12 Monterey Sand**

**Driller: Cascade Drilling, Inc.**  
**Method: AirPercussion, Hollow Stem**  
**Consultant: Gabe Cisneros (SAIC, Bothell)**  
**Well Casing: Sch 40 PVC**      **Elevation (TOC): 120.13 msl**

**Total Depth: 35.5 Ft**  
**GW Depth: 23.0 Ft**

Recov.	Depth Ft	Moist.	Blow Cnt	OVM	Soil Code	Soil Pattern	Soil Description	Well Construction
	12	Moist					Light brown, very dense, fine to medium SAND with no silt and no gravel. No odor.	
	15	Moist	50/2	2.6	SP		Same as above. Olive brown in color. No odor, no sheen.	
	20	Moist	50/4	2.8			Olive gray with some iron oxide staining, very dense, fine to medium SAND with 15% silt and no gravel. No odor.	
	24							



**BORING LOG**



**Well No: MW-31**

**Chevron Site No: 211577**

**Site Location: 631 Queen Anne Ave, Seattle, WA**

**Date: 02/07/2005 - 02/08/2005**

**Well Diameter: 2 inches**

**Well Depth: 30 ft**

**Well Screen: 15-30 ft 10-Slot**

**Filter Pack: 2/12 Monterey Sand**

**Driller: Cascade Drilling, Inc.**

**Method: AirPercussion, Hollow Stem**

**Consultant: Gabe Cisneros (SAIC, Bothell)**

**Well Casing: Sch 40 PVC**

**Elevation (TOC): 120.13 msl**

**Total Depth: 35.5 Ft**

**GW Depth: 23.0 Ft**

Recov.	Depth Ft	Moist.	Blow Cnt	OVM	Soil Code	Soil Pattern	Soil Description	Well Construction
	24	Moist						<p>Filter Pack 2/12 Monterey Sand</p> <p>Screen 10 Slot Sch. 40 PVC</p> <p>Backfill</p>
	25		50/4	3.5				
		Sat.			SP		Brown, very dense, fine to medium SAND with no silt and no gravel. No odor.	
	30		50/4	4.2				
		Sat.					Same as above with 5% silt. No odor.	
	35	Sat.	50/5	3.1			Same as above with 5% silt and no gravel. No odor.	
	35.5							



**BORING LOG**

**Well No: MW-32**

**Chevron Site No: 211577**

**Site Location: 631 Queen Anne Ave N, Seattle WA**

**Date: 07/05/2005**



**Well Diameter: 2 in**  
**Well Depth: 28.6 ft**  
**Well Screen: 8.6-28.6 ft 10 Slot**  
**Filter Pack: 2/12 Monterey Sand**

**Driller: Cascade Drilling, Inc.**  
**Drilling Method: Hollow Stem**  
**Consultant: Gabriel Cisneros (SAIC, Bothell)**  
**Well Casing: Sch 40 PVC**      **Elevation (TOC): 133.96 msl**

**Total Depth: 36.5 ft**  
**GW Depth: 11.19 ft**

Recov.	Depth Ft	Moist.	Blow Cnt	PPM	Soil Code	Soil Pattern	Soil Description	Well Construction
	0							
	5	Damp		0	SW	.....	Airknife to 8 feet bgs. Brown, gravelly SAND with 20% gravel up to 1.5-inches in diameter and less than 5% silt; no odor; no sheen.	Casing Stainless Steel Casing GROUT Concrete/Quickset
	6	Damp		.6	ML	.....	Gray to brown, SILT with moderate plasticity and 10 to 20% fine to coarse sand; no odor; no sheen.	Seal Bentonite
	10	Damp			ML/SM	.....	Brown, sandy SILT with medium to coarse-grained sand.	Filter Pack 2/12 Monterey Sand Screen 10 Slot Sch. 40 PVC

**BORING LOG**

Well No: MW-32

Chevron Site No: 211577

Site Location: 631 Queen Anne Ave N, Seattle WA

Date: 07/05/2005



Well Diameter: 2 in

Well Depth: 28.6 ft

Well Screen: 8.6-28.6 ft 10 Slot

Filter Pack: 2/12 Monterey Sand

Driller: Cascade Drilling, Inc.

Drilling Method: Hollow Stem

Consultant: Gabriel Cisneros (SAIC, Bothell)

Well Casing: Sch 40 PVC

Elevation (TOC): 133.96 msl

Total Depth: 36.5 ft

GW Depth: 11.19 ft

Recov.	Depth Ft	Moist.	Blow Cnt	PPM	Soil Code	Soil Pattern	Soil Description	Well Construction
	10	Damp			ML/SM		Brown, sandy SILT with medium to coarse-grained sand.	<p>Filter Pack 2/12 Monterey Sand</p> <p>Screen 10 Slot Sch. 40 PVC</p>
		Moist	50/5"	0			Brown, poorly sorted, dense, medium to coarse SAND with 10 to 20% silt; no odor; no sheen.	
		Wet	50/2	0			Same as above; no odor; no sheen.	
	15	Wet	50/6"	9.9	SM		Brown with gray coloration, dense, silty SAND; slight HC odor; no sheen.	
		Wet	50/6"	56.6			Same as above with gray coloration and 10% silt; no odor; no sheen.	
	20	Wet					Same as above; no odor; no sheen.	

**BORING LOG**

Well No: MW-32

Chevron Site No: 211577

Site Location: 631 Queen Anne Ave N, Seattle WA

Date: 07/05/2005



Well Diameter: 2 in

Well Depth: 28.6 ft

Well Screen: 8.6-28.6 ft 10 Slot

Filter Pack: 2/12 Monterey Sand

Driller: Cascade Drilling, Inc.

Drilling Method: Hollow Stem

Consultant: Gabriel Cisneros (SAIC, Bothell)

Well Casing: Sch 40 PVC

Elevation (TOC): 133.96 msl

Total Depth: 36.5 ft

GW Depth: 11.19 ft

Recov.	Depth Ft	Moist.	Blow Cnt	PPM	Soil Code	Soil Pattern	Soil Description	Well Construction
	20		50/6"				Same as above; no odor; no sheen.	<p>Filter Pack 2/12 Monterey Sand</p> <p>Screen 10 Slot Sch. 40 PVC</p> <p>Backfill</p>
		Wet					Same as above; slight HC odor; no sheen.	
			50/4"	125.0				
	25	Wet			SM		Gray, medium to coarse-grained, silty SAND with 10% silt and an interbedded silt lense with low plasticity; no odor; no sheen.	
			100/4"	70				
		Wet					Gray, very dense, medium to coarse silty SAND with 20% gravel and 25% light brown silt clasts throughout the sample; no odor; no sheen.	
			75/6"	51.6				
		Wet					Gray very dense, medium to coarse SAND with 15% gravel and small clasts of brown silt in lower 4-inches; no odor; no sheen.	
	30							

**BORING LOG**



**Well No: MW-32**

**Chevron Site No: 211577**

**Site Location: 631 Queen Anne Ave N, Seattle WA**

**Date: 07/05/2005**

**Well Diameter: 2 in**

**Well Depth: 28.6 ft**

**Well Screen: 8.6-28.6 ft 10 Slot**

**Filter Pack: 2/12 Monterey Sand**

**Driller: Cascade Drilling, Inc.**

**Drilling Method: Hollow Stem**

**Consultant: Gabriel Cisneros (SAIC, Bothell)**

**Well Casing: Sch 40 PVC**

**Elevation (TOC): 133.96 msl**

**Total Depth: 36.5 ft**

**GW Depth: 11.19 ft**

Recov.	Depth Ft	Moist.	Blow Cnt	PPM	Soil Code	Soil Pattern	Soil Description	Well Construction
	30		50/4"	36.7	SW	.....	Gray very dense, medium to coarse SAND with 15% gravel and small clasts of brown silt in lower 4-inches; no odor; no sheen.	
		Wet						
					ML	.....	Gray, hard, SILT with low to moderate plasticity; no odor; no sheen.	
	35		16/50	34.8				Backfill
		Wet						
	36.5							

**BORING LOG**

**Well No: MW-33**

**Chevron Site No: 211577**

**Site Location: 631 Queen Anne Ave N, Seattle WA**

**Date: 07/05/2005 - 07/06/2005**



Well Diameter: 2 in  
 Well Depth: 34.6 ft  
 Well Screen: 24.6-34.6 10-Slot  
 Filter Pack: 2/12 Monterey Sand

Driller: Cascade Drilling, Inc.  
 Drilling Method: Hollow Stem  
 Consultant: Gabriel Cisneros (SAIC, Bothell)  
 Well Casing: Sch 40 PVC      Elevation (TOC): 133.18 msl

Total Depth: 35.5 ft  
 GW Depth: 28.21 ft

Recov.	Depth Ft	Moist.	Blow Cnt	PPM	Soil Code	Soil Pattern	Soil Description	Well Construction
	0							<p>Casing Stainless Steel Casing                      Grout/Quickset                      Concrete/Quickset                      Seal Bentonite</p>
	5	Moist			SP	.....	Airknifed to 8 ft bgs. Brown, loose, fine SAND with 10% gravel and less than 5% silt; no odor; no sheen.	
	10	Moist			SP-SM	.....	Brown, dense, fine to medium SAND with 20% gravel and 15% silt; no odor; no sheen.	

**BORING LOG**



**Well No: MW-33**

**Chevron Site No: 211577**

**Site Location: 631 Queen Anne Ave N, Seattle WA**

**Date: 07/05/2005 - 07/06/2005**

**Well Diameter: 2 in**

**Well Depth: 34.6 ft**

**Well Screen: 24.6-34.6 10-Slot**

**Filter Pack: 2/12 Monterey Sand**

**Driller: Cascade Drilling, Inc.**

**Drilling Method: Hollow Stem**

**Consultant: Gabriel Cisneros (SAIC, Bothell)**

**Well Casing: Sch 40 PVC**

**Elevation (TOC): 133.18 msl**

**Total Depth: 35.5 ft**

**GW Depth: 28.21 ft**

Recov.	Depth Ft	Moist.	Blow Cnt	PPM	Soil Code	Soil Pattern	Soil Description	Well Construction
	10	Moist	50	0	SP-SM		Brown, dense, fine to medium SAND with 20% gravel and 15% silt; no odor; no sheen.	<p>Seal Bentonite</p>
		Moist	50/4"	0			Brown, very dense, fine to medium, SAND with 5% gravel and no silt; no odor; no sheen.	
	15	Moist	50/4"	0.8	SP		Same as above; no odor; no sheen.	
		Moist	50/5"	1.2			Same as above; no odor; no sheen.	
	20	Moist					Same as above, brown to light brown; no odor; no sheen.	

**BORING LOG**

Well No: MW-33

Chevron Site No: 211577

Site Location: 631 Queen Anne Ave N, Seattle WA

Date: 07/05/2005 - 07/06/2005



Well Diameter: 2 in	Driller: Cascade Drilling, Inc.	Total Depth: 35.5 ft
Well Depth: 34.6 ft	Drilling Method: Hollow Stem	GW Depth: 28.21 ft
Well Screen: 24.6-34.6 10-Slot	Consultant: Gabriel Cisneros (SAIC, Bothell)	
Filter Pack: 2/12 Monterey Sand	Well Casing: Sch 40 PVC      Elevation (TOC): 133.18 msl	

Recov.	Depth Ft	Moist.	Blow Cnt	PPM	Soil Code	Soil Pattern	Soil Description	Well Construction
	20	Moist	50/5"	1.7	SP		Same as above, brown to light brown; no odor; no sheen.	
		Moist	50/5"	2.5			Same as above; no odor; no sheen.	
	25	Moist	50	0	SM		Same as above; no odor; no sheen.	
		Wet	50	3.4			Brown to gray, dense, fine silty SAND with 20% silt, no gravel; no odor; no gravel.	
	30	Wet			SM/ML		Gray, dense, to hard, fine silty SAND to sandy SILT with 40% silt; no odor; no sheen.	

**BORING LOG**



**Well No: MW-33**

**Chevron Site No: 211577**

**Site Location: 631 Queen Anne Ave N, Seattle WA**

**Date: 07/05/2005 - 07/06/2005**

**Well Diameter: 2 in**

**Well Depth: 34.6 ft**

**Well Screen: 24.6-34.6 10-Slot**

**Filter Pack: 2/12 Monterey Sand**

**Driller: Cascade Drilling, Inc.**

**Drilling Method: Hollow Stem**

**Consultant: Gabriel Cisneros (SAIC, Bothell)**

**Well Casing: Sch 40 PVC**

**Elevation (TOC): 133.18 msl**

**Total Depth: 35.5 ft**

**GW Depth: 28.21 ft**

Recov.	Depth Ft	Moist.	Blow Cnt	PPM	Soil Code	Soil Pattern	Soil Description	Well Construction
	30		50	11.2	SM/ML	.....	Gray, dense, to hard, fine silty SAND to sandy SILT with 40% silt; no odor; no sheen.	
	35	Moist	50/4	101.3	ML	.....	Gray, hard, SILT with moderate plasticity; no odor; no sheen.	
	35.5							



# SOIL BORING LOG

BORING No: NV-1

PAGE 1 of 1

PROJECT: 21-1577  
 LOCATION: Queen Anne, Seattle, WA  
 CLIENT: Chevron  
 DATE: 07/06/05  
 LOGGED BY: G. Cisneros, S. Kline

DRILLER: Cascade Drilling, Inc.  
 DRILL METHOD: Air Knife  
 SAMPLE METHOD: Hand Auger  
 HOLE DIAMETER: 10-inch max.  
 HOLE DEPTH: 9.0 feet

WELL DIAMETER: 10-inch  
 WELL DEPTH: 9.0 feet  
 WELL CASING: 1/4-inch outside diameter nylon tubing  
 WELL SCREEN: 5.0-5.5 ft & 8.0-8.5 ft  
 FILTER PACK: 2/12 Monterey Sand

GROUND ELEVATION: 134.33 msl

Analytical Sample Number	PID (ppm)	BLOWS/6"	Water Level	Sample		DEPTH (ft.)	SOIL TYPE	LITHOLOGY / DESCRIPTION	Well Completion Details
				Recovery	Interval				
	0.0					1 2 3 4 5	<b>SP-SM</b>	Brown, dense, fine to medium SAND with 15% gravel and 10% silt; no odor, no sheen	<p>The diagram shows a vertical cross-section of the well. At the top, there is a 1" steel casing. Below it is a concrete seal. A bentonite seal is located between the 3 and 4 foot depths. Another bentonite seal is located between the 7 and 8 foot depths. A 2/12 silica filter pack is shown between the 5 and 7 foot depths. The well is filled with sand and gravel, and the bottom is sealed with bentonite.</p>
	0.0					6 7 8 9 10 11	<b>SM</b>	Brown to gray, dense, fine to medium SAND with 5% gravel and 15% silt; no odor, no sheen	

NOTES: Soil vapor sampling devices consist of a 3/8-inch diameter by six-inch-long fine mesh stainless-steel screen with the lower open end of the device sealed. The upper end of each sampler contains a barb type fitting, to which 1/4-inch outside diameter nylon tubing is attached which runs to the surface of the well for sample collection.



# SOIL BORING LOG

BORING No: NV-2

PAGE 1 of 2

PROJECT: 21-1577  
 LOCATION: Queen Anne, Seattle, WA  
 CLIENT: Chevron  
 DATE: 07/06/05  
 LOGGED BY: G. Cisneros, S. Kline

DRILLER: Cascade Drilling, Inc.  
 DRILL METHOD: Air Knife/Hollow Stem  
 SAMPLE METHOD: Hand Auger/Split Spoon  
 HOLE DIAMETER: 10-inch max.  
 HOLE DEPTH: 21.0 feet

WELL DIAMETER: 10-inch  
 WELL DEPTH: 15.5 feet  
 WELL CASING: 1/4-inch outside diameter nylon tubing  
 WELL SCREEN: 5.0-5.5 ft, 10.0-10.5 & 15.0-15.5 ft  
 FILTER PACK: 2/12 Monterey Sand

GROUND ELEVATION: 133.60 msl

Analytical Sample Number	PID (ppm)	BLOWS/6"	Water Level	Sample		DEPTH (ft.)	SOIL TYPE	LITHOLOGY / DESCRIPTION	Well Completion Details
				Recovery	Interval				
						1			
						2			
						3			
						4	<b>SP-SM</b>	Airknifed to 8 feet bgs. Brown, dense, fine to coarse SAND with 5% gravel and 10% silt; no odor, no sheen.	
	4.7					5			
						6			
						7			
						8			
	0.8					9	<b>SM</b>	Brown, fine to coarse silty SAND with 20% gravel up to 1 inch in diameter.	
						10			
	0.2	50				11	<b>SP-SM</b>	Same as above with decreasing gravel content and interbedded silt layers 1- to 2-inches in thickness.	

NOTES: Soil vapor sampling devices consist of a 3/8-inch diameter by six-inch-long fine mesh stainless-steel screen with the lower open end of the device sealed. The upper end of each sampler contains a barb type fitting, to which 1/4-inch outside diameter nylon tubing is attached which runs to the surface of the well for sample collection.



# SOIL BORING LOG

BORING No: NV-2

PAGE 2 of 2

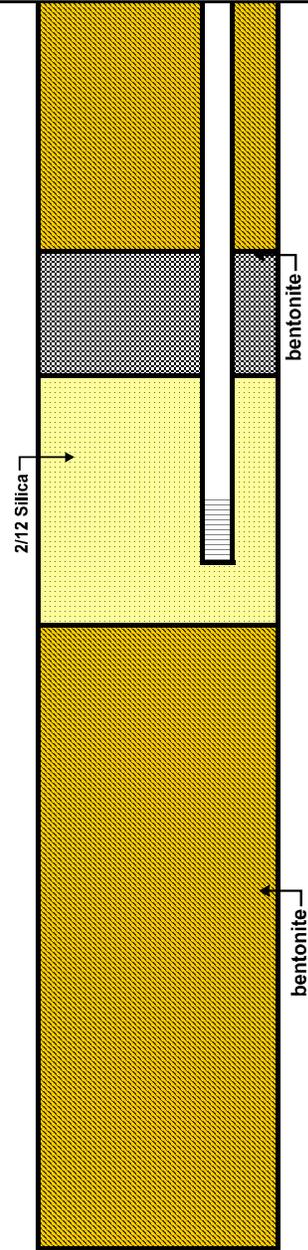
PROJECT: 21-1577  
 LOCATION: Queen Anne, Seattle, WA  
 CLIENT: Chevron  
 DATE: 07/06/05  
 LOGGED BY: G. Cisneros, S. Kline

DRILLER: Cascade Drilling, Inc.  
 DRILL METHOD: Air Knife/Hollow Stem  
 SAMPLE METHOD: Hand Auger/Split Spoon  
 HOLE DIAMETER: 10-inch max.  
 HOLE DEPTH: 21.0 feet

WELL DIAMETER: 10-inch  
 WELL DEPTH: 15.5 feet  
 WELL CASING: 1/4-inch outside diameter nylon tubing  
 WELL SCREEN: 5.0-5.5 ft, 10.0-10.5 & 15.0-15.5 ft  
 FILTER PACK: 2/12 Monterey Sand

GROUND ELEVATION: 133.60 msl

Analytical Sample Number	PID (ppm)	BLOWS/6"	Water Level	Sample		DEPTH (ft.)	SOIL TYPE	LITHOLOGY / DESCRIPTION	Well Completion Details
				Recovery	Interval				
						12			
						13	<b>SP-SM</b>	Same as above with decreasing gravel content and interbedded silt layers 1- to 2-inches in thickness.	
						14			
						15			
	0.1	50				16			
						17			
						18	<b>SP-SM</b>	Brown, dense, medium to coarse SAND with 5% gravel and 10% silt; no odor, no sheen.	
						19			
	1.2	50				20			
						21			
						22			



NOTES: Soil vapor sampling devices consist of a 3/8-inch diameter by six-inch-long fine mesh stainless-steel screen with the lower open end of the device sealed. The upper end of each sampler contains a barb type fitting, to which 1/4-inch outside diameter nylon tubing is attached which runs to the surface of the well for sample collection.

**BORING LOG**

Well No: DPE-5

Chevron Site No: 211577

Site Location: 631 QUEEN ANNE AVE N SEATTLE WA

Date: 10/26/2005 - 10/31/2005



Well Diameter: 4 in

Well Depth: 28 Ft

Well Screen: 14-24 Ft 10 Slot

Filter Pack: 16/30 Colorado Snd

Driller: Cascade Drilling, Inc.

Drilling Method: Sonic Drilling

Consultant: SAIC

Well Casing: Sch 40 PVC

Elevation (TOC): 146.68 Ft

Total Depth: 28.0 Ft

GW Depth: 18.0 Ft

Recov.	Depth Ft	Moist.	Blow Cnt	PPM	Soil Code	Soil Pattern	Soil Description	Well Construction
	0						Concrete and Asphalt. Airknife to 10 feet bgs.	<p>Casing Stainless Steel Well Box</p> <p>Grout Concrete</p> <p>Seal Bentonite Chips</p>
	5	Moist			SW	.....	Brown, very dense, fine to coarse SAND with silt and gravel.	
	10	Moist			SP	.....	Brown, dense, fine to medium SAND.	



**BORING LOG**

Well No: DPE-5

Chevron Site No: 211577

Site Location: 631 QUEEN ANNE AVE N SEATTLE WA

Date: 10/26/2005 - 10/31/2005



Well Diameter: 4 in  
 Well Depth: 28 Ft  
 Well Screen: 14-24 Ft 10 Slot  
 Filter Pack: 16/30 Colorado Sand

Driller: Cascade Drilling, Inc.  
 Drilling Method: Sonic Drilling  
 Consultant: SAIC  
 Well Casing: Sch 40 PVC      Elevation (TOC): 146.68 Ft

Total Depth: 28.0 Ft  
 GW Depth: 18.0 Ft

Recov.	Depth Ft	Moist.	Blow Cnt	PPM	Soil Code	Soil Pattern	Soil Description	Well Construction
	10	Moist		45.1	SW	.....	Brown to gray, dense, fine to coarse SAND with 10% gravel and 5% silt; no odor; no sheen.	
		Moist		86.9		.....	Same as above; moderate odor; strong sheen.	
	15	Moist		215	SP	.....	Gray, fine to medium SAND with 10% silt and no gravel; strong odor; moderate sheen.	
		Moist		2073		.....	Gray, fine to medium SAND, no gravel, no silt; strong odor; moderate sheen.	
		Wet		2214	SM-SP	.....	Gray, fine to medium SAND with two 2-inch silt layers interbedded; no gravel; strong odor; moderate sheen.	
		Moist		2806	ML	.....	Brown, reddish, sandy silt with 15% fine to medium sand and 5% gravel; dropstones and iron oxidation present; slight HC odor; slight sheen. (TILL?)	
		Moist		1656		.....		
	20	Moist		1165	SP	.....		



**BORING LOG**

Well No: DPE-5

Chevron Site No: 211577

Site Location: 631 QUEEN ANNE AVE N SEATTLE WA

Date: 10/26/2005 - 10/31/2005



Well Diameter: 4 in  
 Well Depth: 28 Ft  
 Well Screen: 14-24 Ft 10 Slot  
 Filter Pack: 16/30 Colorado Snd

Driller: Cascade Drilling, Inc.  
 Drilling Method: Sonic Drilling  
 Consultant: SAIC  
 Well Casing: Sch 40 PVC      Elevation (TOC): 146.68 Ft

Total Depth: 28.0 Ft  
 GW Depth: 18.0 Ft

Recov.	Depth Ft	Moist.	Blow Cnt	PPM	Soil Code	Soil Pattern	Soil Description	Well Construction
█	20	Moist		1569	SP		Gray, fine to coarse SAND with 5% silt and 10% gravel; moderate HC odor; moderate sheen.	<p>Filter Pack 16/30 Colorado Sand</p> <p>Screen 10 Slot Sch. 40 PVC</p> <p>Sump</p> <p>Backfill</p>
		Wet		1412	ML		Gray, fine sandy SILT with 15% SAND; moderate HC odor; strong sheen.	
		Wet		2107	SP-SM		Brown to slightly gray, fine to coarse SAND with 15% gravel and 10% silt; strong HC odor; strong sheen.	
				782				
				852				
				176				
	25	Dry		217	ML/CL		Gray, SILT with moderate plasticity and 10% gravel in upper 1.5 feet; no odor; no sheen.	
				29				
				31.8				
				40.0				
	28.0							



**BORING LOG**

Well No: DPE-6

Chevron Site No: 211577

Site Location: 631 Queen Anne Ave N, Seattle, WA

Date: 10/17/2005



Well Diameter: 4 inches

Well Depth: 33.5 ft

Well Screen: 15.5-30.5 ft 10-Slot

Filter Pack: 16/30 Colorado Snd

Driller: Cascade Drilling, Inc.

Method: AirPercussion, Hollow Stem

Consultant: Gabriel Cisneros (SAIC, Bothell)

Well Casing: Sch 40 PVC

Elevation (TOC): 146.19 msl

Total Depth: 33.5 Ft

GW Depth: 19.5 Ft

Recov.	Depth Ft	Moist.	Blow Cnt	OVM	Soil Code	Soil Pattern	Soil Description	Well Construction
	0							<p>Casing Stainless Steel Casing</p> <p>Grout Quickset</p> <p>Concrete/Quickset</p> <p>Seal Bentonite</p>
		Moist			SW		Asphalt top 2-inches. Airknifed to 8 feet bgs. FILL: Brown, silty, gravelly SAND with chunks of concrete.	
	5							
		Moist					Gray to brown, silty, fine to medium SAND with a silt layer at 8.25 feet and organics, no gravel; no odor; no sheen.	
			8/13/16		SP-SM		Brown, fine to coarse SAND with thin interbeds of silt; less than 5% silt in sand beds, no gravel; slight odor; moderate sheen.	
	10							
		Moist					Brown to gray, fine to medium, SAND interbedded with thin, organic, gray silt layers; no gravel and less than 5% silt in sandy layers; slight odor; moderate sheen in sandy layers.	
			15/50					
	12							



**BORING LOG**

Well No: DPE-6

Chevron Site No: 211577

Site Location: 631 Queen Anne Ave N, Seattle, WA

Date: 10/17/2005



Well Diameter: 4 inches

Well Depth: 33.5 ft

Well Screen: 15.5-30.5 ft 10-Slot

Filter Pack: 16/30 Colorado Sand

Driller: Cascade Drilling, Inc.

Method: AirPercussion, Hollow Stem

Consultant: Gabriel Cisneros (SAIC, Bothell)

Well Casing: Sch 40 PVC

Elevation (TOC): 146.19 msl

Total Depth: 33.5 Ft

GW Depth: 19.5 Ft

Recov.	Depth Ft	Moist.	Blow Cnt	OVM	Soil Code	Soil Pattern	Soil Description	Well Construction
	12	Moist					Same as above; moderate odor; moderate sheen.	
			50				Same as above.	
	15	Moist			SP-SM		Same as above; Brown to gray, fine to medium SAND with a 2-inch silt layer at top and 1-inch silt layer at bottom; 10% silt in sand layers; HC odor; moderate sheen.	
		Moist	50				Same as above.	
		Moist					Same as above; moderate HC odor; moderate sheen.	
			16/50					
					SP		Orangish brown; fine to medium SAND; no silt; no gravel; no odor; no sheen.	
	20	Moist			SP-SM		Gray, silty, fine to medium SAND with 30% silt and an organic silt layer at top; strong HC odor; moderate sheen.	
			13/32/50				Gray, fine to medium SAND with 5% silt; moderate HC odor; moderate sheen.	
		Moist			SM		Gray, fine, silty SAND with 30% silt; moderate odor; no sheen.	
		Wet					Same as above.	
			50					
		Wet			SP		Orangish brown, fine to coarse SAND with 5% silt; no gravel; slight HC odor; slight sheen.	
	24							



**BORING LOG**

Well No: DPE-6

Chevron Site No: 211577

Site Location: 631 Queen Anne Ave N, Seattle, WA

Date: 10/17/2005



Well Diameter: 4 inches

Well Depth: 33.5 ft

Well Screen: 15.5-30.5 ft 10-Slot

Filter Pack: 16/30 Colorado Snd

Driller: Cascade Drilling, Inc.

Method: AirPercussion, Hollow Stem

Consultant: Gabriel Cisneros (SAIC, Bothell)

Well Casing: Sch 40 PVC

Elevation (TOC): 146.19 msl

Total Depth: 33.5 Ft

GW Depth: 19.5 Ft

Recov.	Depth Ft	Moist.	Blow Cnt	OVM	Soil Code	Soil Pattern	Soil Description	Well Construction
	24	Wet						
	25	Sat	50		SP		Same as above; no odor; no sheen.	
		Sat.	50				Gray, fine to medium SAND; no silt; no gravel; no odor; no sheen.	
	30	Sat.					Same as above; no odor; no sheen.	
		Moist	13/22/37		ML/CL		Gray, hard, SILT with low plasticity; no odor; no sheen.	

**BORING LOG**

Well No: DPE-7

Chevron Site No: 211577

Site Location: 631 Queen Anne N, Seattle, WA

Date: 10/17/2005 - 10/21/2005



Well Diameter: 4 inches

Well Depth: 32 ft

Well Screen: 11-29 ft 10-Slot

Filter Pack: 16/30 Colorado Snd

Driller: Cascade Drilling, Inc.

Method: AirPercussion, Hollow Stem

Consultant: Gabriel Cisneros (SAIC, Bothell)

Well Casing: Sch 40 PVC

Elevation (TOC): 146.02 msl

Total Depth: 33.5 Ft

GW Depth: 23.0 Ft

Recov.	Depth Ft	Moist.	Blow Cnt	OVM	Soil Code	Soil Pattern	Soil Description	Well Construction
	0							<p>Casing Stainless Steel Well Box</p> <p>Grout Concrete</p> <p>Seal Bentonite Chips</p>
	5	Moist			SW	.....	Asphalt top 2-inches Silty, gravelly, fine to coarse SAND with blocks of concrete and large rocks; (FILL). Airknifed down to 8 feet bgs.	
					SM	.....	Silty, hard SAND (Till?)	
	9	Moist	3/4/8	7.5		.....	Gray, dark brown, silty fine-grained SAND with 13% silt and large angular clasts of silt; no odor; no sheen.	



**BORING LOG**

Well No: DPE-7

Chevron Site No: 211577

Site Location: 631 Queen Anne N, Seattle, WA

Date: 10/17/2005 - 10/21/2005



Well Diameter: 4 inches

Well Depth: 32 ft

Well Screen: 11-29 ft 10-Slot

Filter Pack: 16/30 Colorado Snd

Driller: Cascade Drilling, Inc.

Method: AirPercussion, Hollow Stem

Consultant: Gabriel Cisneros (SAIC, Bothell)

Well Casing: Sch 40 PVC

Elevation (TOC): 146.02 msl

Total Depth: 33.5 Ft

GW Depth: 23.0 Ft

Recov.	Depth Ft	Moist.	Blow Cnt	OVM	Soil Code	Soil Pattern	Soil Description	Well Construction
	9		3/4/8	7.5				<p>Seal Bentonite Chips</p> <p>Filter Pack 16/30 Colorado Sand</p> <p>Screen 10 Slot Sch. 40 PVC</p>
	10	Moist			SM		Gray, dark brown, silty fine-grained SAND with 13% silt and large angular clasts of silt; no odor; no sheen.	
			5/8	8.3				
		Moist	11	722	SP		Gray to dark gray, fine to medium SAND with 5% silt, no gravel; strong HC odor; moderate sheen.	
		Moist	8/11	182			Light brown, fine to medium SAND with no silt and no gravel; slight odor; slight sheen.	
		Moist	11	16.7	SM		Light brown to gray, silty fine SAND with 20% silt and no gravel; slight HC odor; slight sheen.	
	15	Moist					Light gray to brown, fine to medium SAND with 10% silt, no gravel; moderate HC odor; slight sheen.	
		Moist	2/11	573	SM-SP		Same as above but with 5% silt and a 2-inch thick silt/clay layer interbedded within fine SAND; slight HC odor; slight sheen.	
		Moist	16	17.6				
		Wet	14/14	231	SP		Brown, fine to coarse SAND with no silt and no gravel; slight odor; moderate sheen.	
	18							



**BORING LOG**

Well No: DPE-7

Chevron Site No: 211577

Site Location: 631 Queen Anne N, Seattle, WA

Date: 10/17/2005 - 10/21/2005



Well Diameter: 4 inches

Well Depth: 32 ft

Well Screen: 11-29 ft 10-Slot

Filter Pack: 16/30 Colorado Sand

Driller: Cascade Drilling, Inc.

Method: AirPercussion, Hollow Stem

Consultant: Gabriel Cisneros (SAIC, Bothell)

Well Casing: Sch 40 PVC

Elevation (TOC): 146.02 msl

Total Depth: 33.5 Ft

GW Depth: 23.0 Ft

Recov.	Depth Ft	Moist.	Blow Cnt	OVM	Soil Code	Soil Pattern	Soil Description	Well Construction	
	18	Wet	14/14	231	SP		Brown, fine to coarse SAND with no silt and no gravel; slight odor; moderate sheen.		
		Wet							Gray, fine medium SAND with 5% silt; no gravel; slight odor; moderate sheen.
	20		12/16	17					Same as above but with a 2-inch silt layer interbedded within the sand at 20.5' bgs; strong HC odor; strong sheen.
			22	580					
		Wet							
			13/18	527					
			18	630	ML	Gray, stiff SILT with moderate plasticity; moderate HC odor; strong sheen.			
	25	Sat.	22/50	590	SP	Gray, fine to medium SAND with no silt and no gravel; strong HC odor; moderate to heavy sheen.			
	27								



**BORING LOG**

Well No: DPE-7

Chevron Site No: 211577

Site Location: 631 Queen Anne N, Seattle, WA

Date: 10/17/2005 - 10/21/2005



Well Diameter: 4 inches

Well Depth: 32 ft

Well Screen: 11-29 ft 10-Slot

Filter Pack: 16/30 Colorado Snd

Driller: Cascade Drilling, Inc.

Method: AirPercussion, Hollow Stem

Consultant: Gabriel Cisneros (SAIC, Bothell)

Well Casing: Sch 40 PVC

Elevation (TOC): 146.02 msl

Total Depth: 33.5 Ft

GW Depth: 23.0 Ft

Recov.	Depth Ft	Moist.	Blow Cnt	OVM	Soil Code	Soil Pattern	Soil Description	Well Construction
	27	Sat.	10/30	450	SP		Gray, fine to coarse SAND with no silt and 5% gravel; moderate HC odor; no sheen.	
			48	384				
	30	Moist	7/9	402				
			11	15.8	ML/CL		Gray, clayey SILT with moderate to high plasticity; slight odor; very slight sheen at bottom.	

**BORING LOG**

Well No: MW-34

Chevron Site No: 211577

Site Location: 631 Queen Anne Ave N, Seattle, WA

Date: 11/21/2005



Well Diameter: 2 inches

Well Depth: 37 ft

Well Screen: 22-37 ft 10-Slot

Filter Pack: 16/30 Colorado Snd

Driller: Cascade Drilling, Inc.

Method: AirPercussion, Hollow Stem

Consultant: Gabriel Cisneros (SAIC, Bothell)

Well Casing: Sch 40 PVC

Elevation (TOC): 127.22 msl

Total Depth: 40.0 Ft

GW Depth: 27.5 Ft

Recov.	Depth Ft	Moist.	Blow Cnt	OVM	Soil Code	Soil Pattern	Soil Description	Well Construction
	0							
	5				SM		Concrete top 4-inches. Airknife to 8' bgs brown silty SAND (FILL)	
		Moist	13/18/32	1.7			Light brown to gray, fine to medium SAND with 20% silt and no gravel; no odor; no sheen.	
	10							



**BORING LOG**

Well No: MW-34

Chevron Site No: 211577

Site Location: 631 Queen Anne Ave N, Seattle, WA

Date: 11/21/2005



Well Diameter: 2 inches

Well Depth: 37 ft

Well Screen: 22-37 ft 10-Slot

Filter Pack: 16/30 Colorado Sand

Driller: Cascade Drilling, Inc.

Method: AirPercussion, Hollow Stem

Consultant: Gabriel Cisneros (SAIC, Bothell)

Well Casing: Sch 40 PVC

Elevation (TOC): 127.22 msl

Total Depth: 40.0 Ft

GW Depth: 27.5 Ft

Recov.	Depth Ft	Moist.	Blow Cnt	OVM	Soil Code	Soil Pattern	Soil Description	Well Construction
	10	Moist	12/50	4.4	SP-SM	.....	Light brown, fine to medium SAND with 10% silt and a 2-inch thick silt layer interbedded within the sand; no gravel; no odor.	<p>Seal Bentonite Chips</p>
		Moist	50	4.2	SP	.....	Brown to reddish brown, fine to medium SAND, no silt and no gravel; Fe oxidation coloring; no odor; no sheen.	
	15	Moist	19/50	4.7	SP-SM	.....	Brown to reddish brown, fine to medium SAND with 10% silt; no grave; no odor; no sheen.	
		Moist	50	4.0	SW	.....	Brown, fine to coarse SAND and gravel with 5% silt; no odor; no sheen.	
	20	Moist			SP	.....	Brown to Fe oxidized red, fine to medium SAND with less than 5% silt and a thin silt layer interbedded; no odor; no sheen.	



**BORING LOG**

Well No: MW-34

Chevron Site No: 211577

Site Location: 631 Queen Anne Ave N, Seattle, WA

Date: 11/21/2005



Well Diameter: 2 inches

Well Depth: 37 ft

Well Screen: 22-37 ft 10-Slot

Filter Pack: 16/30 Colorado Snd

Driller: Cascade Drilling, Inc.

Method: AirPercussion, Hollow Stem

Consultant: Gabriel Cisneros (SAIC, Bothell)

Well Casing: Sch 40 PVC

Elevation (TOC): 127.22 msl

Total Depth: 40.0 Ft

GW Depth: 27.5 Ft

Recov.	Depth Ft	Moist.	Blow Cnt	OVM	Soil Code	Soil Pattern	Soil Description	Well Construction
	20	Moist	50	4.0			Brown to Fe oxidized red, fine to medium SAND with less than 5% silt and a thin silt layer interbedded; no odor; no sheen.	<p>Filter Pack 16/30 Colorado Sand</p> <p>Screen 10 Slot Sch. 40 PVC</p>
		Moist	50	6.0			Brown, fine to medium SAND with no gravel and no silt; no odor; no sheen.	
	25	Moist	23/50	4.5	SP		Same as above; no odor; no sheen.	
		Wet	50	3.7			Same as above; no odor; no sheen.	
	30	Sat.					Light brown to gray, fine to coarse SAND with less than 5% fine gravel; no odor; no sheen.	



**BORING LOG**

Well No: MW-34

Chevron Site No: 211577

Site Location: 631 Queen Anne Ave N, Seattle, WA

Date: 11/21/2005



Well Diameter: 2 inches  
 Well Depth: 37 ft  
 Well Screen: 22-37 ft 10-Slot  
 Filter Pack: 16/30 Colorado Sand

Driller: Cascade Drilling, Inc.  
 Method: AirPercussion, Hollow Stem  
 Consultant: Gabriel Cisneros (SAIC, Bothell)  
 Well Casing: Sch 40 PVC Elevation (TOC): 127.22 msl

Total Depth: 40.0 Ft  
 GW Depth: 27.5 Ft

Recov.	Depth Ft	Moist.	Blow Cnt	OVM	Soil Code	Soil Pattern	Soil Description	Well Construction
	30	Sat.	50-3"	4.3			Light brown to gray, fine to coarse SAND with less than 5% fine gravel; no odor; no sheen.	<p>Filter Pack 16/30 Colorado Sand</p> <p>Screen 10 Slot Sch. 40 PVC</p>
	35	Sat.			SP		No Recovery.	
	40							



**BORING LOG**

**Well No: MW-35**

**Chevron Site No: 211577**

**Site Location: 631 Queen Anne Ave N, Seattle WA**

**Date: 11/21/2005 - 11/22/2005**



**Well Diameter: 2 in**

**Well Depth: 40 ft**

**Well Screen: 22-37 ft 10-Slot**

**Filter Pack: 16/30 Colorado Snd**

**Driller: Cascade Drilling, Inc.**

**Drilling Method: Hollow Stem**

**Consultant: Gabriel Cisneros (SAIC, Bothell)**

**Well Casing: Sch 40 PVC**

**Elevation (TOC): 133.39 msl**

**Total Depth: 41.0 ft**

**GW Depth: 29.0 ft**

Recov.	Depth Ft	Moist.	Blow Cnt	PPM	Soil Code	Soil Pattern	Soil Description	Well Construction
	0							<p>Casing Stainless Steel Well Box Grout Concrete Seal Bentonite Chips</p>
	5	Moist			SP	.....	Silty, gravelly SAND with large cobbles and concrete (FILL). Airknifed to 10 feet bgs.	
	10				SW	.....	Same as above; except larger cobbles.	
	12	Moist	15/17/21		SP	.....	Brown, fine to medium SAND with less than 5% silt, no gravel; no odor; no sheen.	

**BORING LOG**

Well No: MW-35

Chevron Site No: 211577

Site Location: 631 Queen Anne Ave N, Seattle WA

Date: 11/21/2005 - 11/22/2005



Well Diameter: 2 in  
 Well Depth: 40 ft  
 Well Screen: 22-37 ft 10-Slot  
 Filter Pack: 16/30 Colorado Snd

Driller: Cascade Drilling, Inc.  
 Drilling Method: Hollow Stem  
 Consultant: Gabriel Cisneros (SAIC, Bothell)  
 Well Casing: Sch 40 PVC Elevation (TOC): 133.39 msl

Total Depth: 41.0 ft  
 GW Depth: 29.0 ft

Recov.	Depth Ft	Moist.	Blow Cnt	PPM	Soil Code	Soil Pattern	Soil Description	Well Construction
	12	Moist					Brown, fine to medium SAND with less than 5% silt, no gravel; no odor; no sheen.	
	15	Moist	15/18/23		SP		Light brown, fine to medium SAND with 5% silt and finer sand; no gravel; no odor; no sheen.	
		Moist	15/29/50				Same as above except with finer-grained sand; no odor; no sheen.	
	20	Moist	17/33/50				Same as above; no odor; no sheen.	
		Moist	16/30/50		SP-SM		Light brown, fine-grained SAND with 10% silt; no gravel; no odor; no sheen.	
	24							

**BORING LOG**

Well No: MW-35

Chevron Site No: 211577

Site Location: 631 Queen Anne Ave N, Seattle WA

Date: 11/21/2005 - 11/22/2005



Well Diameter: 2 in

Well Depth: 40 ft

Well Screen: 22-37 ft 10-Slot

Filter Pack: 16/30 Colorado Sand

Driller: Cascade Drilling, Inc.

Drilling Method: Hollow Stem

Consultant: Gabriel Cisneros (SAIC, Bothell)

Well Casing: Sch 40 PVC

Elevation (TOC): 133.39 msl

Total Depth: 41.0 ft

GW Depth: 29.0 ft

Recov.	Depth Ft	Moist.	Blow Cnt	PPM	Soil Code	Soil Pattern	Soil Description	Well Construction
	24	Moist					Light brown, fine-grained SAND with 10% silt; no gravel; no odor; no sheen.	<p>Filter Pack 16/30 Colorado Sand</p> <p>Screen 10 Slot Sch. 40 PVC</p>
	25	Moist	30/50		SP-SM		Same as above except a 1-inch silt later interbedded at bottom 25.75 ft bgs; no odor; no sheen.	
		Moist	27/50				Light brown, fine to medium SAND with less than 5% silt, no odor, no sheen.	
	30	Wet	29/50		SP		Same as above; no odor; no sheen. (Wet to Saturated)	
		Sat.	34/50				Brown to gray, fine to coarse SAND with no silt and no gravel; no odor.	
	35	Wet	16/50		SM		Light brownish gray, fine, silty SAND with 15% silt; no odor; no sheen	
	36							

**BORING LOG**



**Well No: MW-35**

**Chevron Site No: 211577**

**Site Location: 631 Queen Anne Ave N, Seattle WA**

**Date: 11/21/2005 - 11/22/2005**

**Well Diameter: 2 in**

**Well Depth: 40 ft**

**Well Screen: 22-37 ft 10-Slot**

**Filter Pack: 16/30 Colorado Snd**

**Driller: Cascade Drilling, Inc.**

**Drilling Method: Hollow Stem**

**Consultant: Gabriel Cisneros (SAIC, Bothell)**

**Well Casing: Sch 40 PVC**

**Elevation (TOC): 133.39 msl**

**Total Depth: 41.0 ft**

**GW Depth: 29.0 ft**

Recov.	Depth Ft	Moist.	Blow Cnt	PPM	Soil Code	Soil Pattern	Soil Description	Well Construction
	36	Wet	16/50				Light brownish gray, fine, silty SAND with 15% silt; no odor; no sheen	
		Wet	16/35/50		SM		Gray, fine silty SAND with 30% silt; no odor; no sheen.	
	40	Moist	32/50		ML/CL		Gray, stiff, clayey SILT with moderate plasticity.	
	41.0							



**SOIL BORING LOG**

BORING No: DPE-3

PAGE 1 of 2

PROJECT: 21-1577

DRILLER: Cascade Drilling, Inc.

WELL DIAMETER: 4-inch

LOCATION: 631 Queen Anne Ave N, Seattle, WA

DRILL METHOD: Hollow-Stem Auger

WELL DEPTH: 22 feet

CLIENT: Chevron

SAMPLE METHOD: Hand Auger, Split Spoon

WELL CASING: 2" SCH 40 PVC

DATE: 9/15/06

HOLE DIAMETER: 10.25 inches

WELL SCREEN: 10-18 feet, .010-inch slots

LOGGED BY: G. Cisneros

HOLE DEPTH: 22 feet

FILTER PACK: 16-30 Colorado Sand

CASING ELEVATION: --

Analytical Sample Number	Moisture Content	PID (ppm)	BLOWS/6"	Water Level	Sample Recovery Interval	DEPTH (ft.)	SOIL TYPE	LITHOLOGY / DESCRIPTION	Well Completion Details
						0	<b>AS</b>	2" of Asphalt. Airknifed to 8 feet BGS. Airknifed to 8 feet BGS.	
						1			
						2	<b>SM</b>	Gravelly silty SAND. Fill.	
						3			
						4			
	Moist	0	--			5	<b>SP</b>	Brown, fine to medium, SAND w/ <5% gravel, loose; no odor, no sheen.	
						6			
						7			
	Moist	0	--			8		Gray, fine to medium SAND with 1" gray and brown silt layers embedded, dense; slight odor, no sheen.	
						9	<b>SP/ SM</b>		
		5.2	24			10		Brown to gray, fine to coarse SAND with 0.5 to 1" layers of silt embedded; slight odor, slight sheen. DPE-3-10 collected at 1000.	
DPE-3-10	Moist	15.7	29			11			

NOTES:



### SOIL BORING LOG

BORING No: DPE-3

PAGE 2 of 2

PROJECT: 21-1577	DRILLER: Cascade Drilling, Inc.	WELL DIAMETER: 4-inch
LOCATION: 631 Queen Anne Ave N, Seattle, WA	DRILL METHOD: Hollow-Stem Auger	WELL DEPTH: 22 feet
CLIENT: Chevron	SAMPLE METHOD: Hand Auger, Split Spoon	WELL CASING: 2" SCH 40 PVC
DATE: 9/15/06	HOLE DIAMETER: 10.25 inches	WELL SCREEN: 10-18 feet, .010-inch slots
LOGGED BY: G. Cisneros	HOLE DEPTH: 22 feet	FILTER PACK: 16-30 Colorado Sand

CASING ELEVATION: --

Analytical Sample Number	Moisture Content	PID (ppm)	BLOWS/6"	Water Level	Sample Recovery Interval	DEPTH (ft.)	SOIL TYPE	LITHOLOGY / DESCRIPTION	Well Completion Details
DPE-3-12.5	Moist	15.7	31			12	<b>SP/SM</b>	Same as above; brown to gray, fine to coarse SAND with 0.5 to 1" layers of silt embedded; slight odor, slight sheen.	
	Moist	78.8	27			13	<b>SP</b>	Gray, fine to medium SAND, no silt; no odor, slight odor. DPE-3-12.5 collected at 1020.	
	Moist	15.7	50			14		Same as above; strong odor, strong sheen. Grades to fine to medium SAND with 5% silt; no odor, no sheen. DPE-3-15 collected at 1030.	
	Moist	1088	31			15		Brown to slightly gray, fine to medium SAND with 5% silt; slight odor, slight sheen.	
	Moist	26.3	50			16	17	<b>ML</b>	
Moist	78	13		18	19				
Moist	26	17		20	21				
Total depth = 22 ft bgs									

NOTES:



### SOIL BORING LOG

BORING No: DPE-4

PAGE 1 of 3

PROJECT: 21-1577

DRILLER: Cascade Drilling, Inc.

WELL DIAMETER: 4-inch

LOCATION: 631 Queen Anne Ave N, Seattle, WA

DRILL METHOD: Hollow-Stem Auger

WELL DEPTH: 23.5 feet

CLIENT: Chevron

SAMPLE METHOD: Hand Auger, Split Spoon

WELL CASING: 2" SCH 40 PVC

DATE: 9/14-15/06

HOLE DIAMETER: 10.25 inches

WELL SCREEN: 10.5-20.5 feet, .010-inch slots

LOGGED BY: G. Cisneros

HOLE DEPTH: 23.5 feet

FILTER PACK: 16-30 Colorado Sand

CASING ELEVATION: --

Analytical Sample Number	Moisture Content	PID (ppm)	BLOWS/6"	Water Level	Sample Recovery Interval	DEPTH (ft.)	SOIL TYPE	LITHOLOGY / DESCRIPTION	Well Completion Details
						0	<b>AS</b>	Asphalt Airknifed to 8 feet BGS.	<p>concrete</p> <p>1" Steel Casing</p> <p>bentonite</p> <p>16-30 Colorado Sand</p>
						1			
						2		Brown, silty gravelly SAND; no odor.	
						3			
						4			
	Moist	0	--			5		Brown, fine to medium SAND, 5% silt, loose; no odor, no sheen.	
						6	<b>SP/SM</b>		
						7			
	Moist	0	--			8		Brown to dark brown, fine to medium SAND, 10% silt, dense; slight odor, no sheen.	
						9			
			20			10		Brown to dark brown, fine to medium SAND, 10% silt, medium dense; slight odor, no sheen.	
		0	23			11			

NOTES:



### SOIL BORING LOG

BORING No: DPE-4

PAGE 2 of 3

PROJECT: 21-1577	DRILLER: Cascade Drilling, Inc.	WELL DIAMETER: 4-inch
LOCATION: 631 Queen Anne Ave N, Seattle, WA	DRILL METHOD: Hollow-Stem Auger	WELL DEPTH: 23.5 feet
CLIENT: Chevron	SAMPLE METHOD: Hand Auger, Split Spoon	WELL CASING: 2" SCH 40 PVC
DATE: 9/14-15/06	HOLE DIAMETER: 10.25 inches	WELL SCREEN: 10.5-20.5 feet, .010-inch slots
LOGGED BY: G. Cisneros	HOLE DEPTH: 23.5 feet	FILTER PACK: 16-30 Colorado Sand

CASING ELEVATION: --

Analytical Sample Number	Moisture Content	PID (ppm)	BLOWS/6"	Water Level	Sample Recovery Interval	DEPTH (ft.)	SOIL TYPE	LITHOLOGY / DESCRIPTION	Well Completion Details
		0	21				<b>SP/SM</b>	Same as above.	
DPE-4-13	Moist	78.9 2546	25 26 22	▼		12 13 14		Brown to gray, fine to medium SAND, medium density; moderate hydrocarbon odor, moderate sheen. DPE-4-13 collected at 1330.	
DPE-4-16	Wet	79 194	15 13 17			15 16 17	<b>SP</b>	Gray, fine to coarse SAND, no silt, no gravel, moderate density; strong hydrocarbon odor, strong sheen. DPE-4-16 collected at 1340.	
	Wet	163	36 50			18 19		Gray, medium to coarse SAND, no silt, no gravel; slight odor, no sheen.	
		0	9			20			
		0	11			21	<b>ML/CL</b>	Brownish gray, soft clayey silt to silt clay.	
		0	10			22			

NOTES:



**SOIL BORING LOG**

BORING No: DPE-4

PAGE 3 of 3

PROJECT: 21-1577	DRILLER: Cascade Drilling, Inc.	WELL DIAMETER: 4-inch
LOCATION: 631 Queen Anne Ave N, Seattle, WA	DRILL METHOD: Hollow-Stem Auger	WELL DEPTH: 23.5 feet
CLIENT: Chevron	SAMPLE METHOD: Hand Auger, Split Spoon	WELL CASING: 2" SCH 40 PVC
DATE: 9/14-15/06	HOLE DIAMETER: 10.25 inches	WELL SCREEN: 10.5-20.5 feet, .010-inch slots
LOGGED BY: G. Cisneros	HOLE DEPTH: 23.5 feet	FILTER PACK: 16-30 Colorado Sand

CASING ELEVATION: --

Analytical Sample Number	Moisture Content	PID (ppm)	BLOWS/6"	Water Level	Recovery	Sample Interval	DEPTH (ft.)	SOIL TYPE	LITHOLOGY / DESCRIPTION	Well Completion Details
							23	ML/CL	Same as above.	
							24		Total depth = 23.5 ft bgs	
							25			
							26			
							27			
							28			
							29			
							30			
							31			
							32			
							33			

NOTES:



### SOIL BORING LOG

BORING No: DPE-8

PAGE 1 of 3

PROJECT: 21-1577

DRILLER: Cascade Drilling, Inc.

WELL DIAMETER: 4-inch

LOCATION: 631 Queen Anne Ave N, Seattle, WA

DRILL METHOD: <20 BGS Geoprobe, >20 BGS HSA

WELL DEPTH: 24 feet

CLIENT: Chevron

SAMPLE METHOD: Hand Auger, Split Spoon

WELL CASING: 2" SCH 40 PVC

DATE: 9/18/06

HOLE DIAMETER: 10.25 inches

WELL SCREEN: 10-20 feet, .010-inch slots

LOGGED BY: G. Cisneros

HOLE DEPTH: 24 feet

FILTER PACK: 16-30 Colorado Sand

CASING ELEVATION: --

Analytical Sample Number	Moisture Content	PID (ppm)	BLOWS/6"	Water Level	Sample Recovery Interval	DEPTH (ft.)	SOIL TYPE	LITHOLOGY / DESCRIPTION	Well Completion Details
						0	GW	Top 6" is peagravel, thin asphalt layer at 6" BGS.	
						1	SW	Airknife to 8 feet BGS. Drilled out MW-22 and replaced with DPE-8 (log used for MW-22 from 0 to 20 ft bgs). Fill - sand with little gravel no silt	
						2			
						3			
	Dry/Moist	2.9				4	SP	Brownish gray, dense medium to coarse SAND, 5% gravel; no odor, no sand.	
						5			
	Dry/Moist	4.2				6	SP/SM	Light brown to reddish speckled, dense fine to medium SAND, 1" silty SAND layers, 10% silt, 5% gravel; no odor, no sheen.	
						7			
	Dry	4.2				8			
	Moist	5.5				9	ML	Light brown, very hard sandy SILT, 5% clay, 15-20% sand; no odor, no sheen.	
	Moist	278				10			
	Moist	30				11	SP	10-11' gray, very dense fine to medium SAND, 5% silt, moderate hydrocarbon odor, slight sheen.	

NOTES:



### SOIL BORING LOG

BORING No: DPE-8

PAGE 2 of 3

PROJECT: 21-1577	DRILLER: Cascade Drilling, Inc.	WELL DIAMETER: 4-inch
LOCATION: 631 Queen Anne Ave N, Seattle, WA	DRILL METHOD: <20 BGS Geoprobe, >20 BGS HSA	WELL DEPTH: 24 feet
CLIENT: Chevron	SAMPLE METHOD: Hand Auger, Split Spoon	WELL CASING: 2" SCH 40 PVC
DATE: 9/18/06	HOLE DIAMETER: 10.25 inches	WELL SCREEN: 10-20 feet, .010-inch slots
LOGGED BY: G. Cisneros	HOLE DEPTH: 24 feet	FILTER PACK: 16-30 Colorado Sand

CASING ELEVATION: --

Analytical Sample Number	Moisture Content	PID (ppm)	BLOWS/6"	Water Level	Sample Recovery Interval	DEPTH (ft.)	SOIL TYPE	LITHOLOGY / DESCRIPTION	Well Completion Details
	Damp	29.1		▼		12		11-12' Same as above; moderate odor, slight sheen.	
	Moist	8.6				13	<b>SP</b>	12-13' Same as above, no silt, 5% gravel; strong odor, strong sheen.	
	Moist	78.9				14		13-14' Same as above; strong odor, strong sheen.	
	Wet					15		14-15' Same as above; strong odor, strong sheen.	
	Sat.	82				16		15-16' Same as above; strong odor, strong sheen.	
	Sat.	5900				17		16-17' gray, dense fine to coarse SAND, <5% silt, 5% gravel; strong odor, moderate sheen.	
	Wet	6100				18	<b>SW</b>	17-18' Same as above; strong odor, moderate sheen.	
	Wet	5836				19		18-19' Same as above; strong odor, moderate sheen.	
	Wet	2058				20	<b>ML</b>	19-20' gray to brown, very hard clayey silt, 10% sand, moderate plasticity; slight odor, no sheen.	
	Wet	257				21	<b>CL/ML</b>	Brownish gray CLAY, high plasticity; slight odor, no sheen.	
		32				22			
		50				23	<b>ML</b>	Gray, clayey SILT; no odor, no sheen.	

NOTES:



**SOIL BORING LOG**

BORING No: DPE-8

PAGE 3 of 3

PROJECT: 21-1577

DRILLER: Cascade Drilling, Inc.

WELL DIAMETER: 4-inch

LOCATION: 631 Queen Anne Ave N, Seattle, WA

DRILL METHOD: <20 BGS Geoprobe, >20 BGS HSA

WELL DEPTH: 24 feet

CLIENT: Chevron

SAMPLE METHOD: Hand Auger, Split Spoon

WELL CASING: 2" SCH 40 PVC

DATE: 9/18/06

HOLE DIAMETER: 10.25 inches

WELL SCREEN: 10-20 feet, .010-inch slots

LOGGED BY: G. Cisneros

HOLE DEPTH: 24 feet

FILTER PACK: 16-30 Colorado Sand

CASING ELEVATION: --

Analytical Sample Number	Moisture Content	PID (ppm)	BLOWS/6"	Water Level	Recovery	Sample Interval	DEPTH (ft.)	SOIL TYPE	LITHOLOGY / DESCRIPTION	Well Completion Details
							23	ML	Same as above.	
							24		Total depth = 24 ft bgs	
							25			
							26			
							27			
							28			
							29			
							30			
							31			
							32			
							33			

NOTES:



**SOIL BORING LOG**

BORING No: DPE-9

PAGE 1 of 2

PROJECT: 21-1577

DRILLER: Cascade Drilling, Inc.

WELL DIAMETER: 4-inch

LOCATION: 631 Queen Anne Ave N, Seattle, WA

DRILL METHOD: Hollow Stem Auger

WELL DEPTH: 19.5 feet

CLIENT: Chevron

SAMPLE METHOD: Hand Auger, Split Spoon

WELL CASING: 2" SCH 40 PVC

DATE: 9/18/06

HOLE DIAMETER: 10.25 inches

WELL SCREEN: 10.5-15.5 feet, .010-inch slots

LOGGED BY: G. Cisneros

HOLE DEPTH: 21.5 feet

FILTER PACK: 16-30 Colorado Silica Sand

CASING ELEVATION: --

Analytical Sample Number	Moisture Content	PID (ppm)	BLOWS/6"	Water Level	Sample		DEPTH (ft.)	SOIL TYPE	LITHOLOGY / DESCRIPTION	Well Completion Details
					Recovery	Interval				
								<b>AS</b> Asphalt		
								<b>Fill</b> Fill Material. Airknife to 8 feet BGS		
							1			
							2	<b>SP/SM</b>	Silty SAND/ sandy SILT.	
							3			
							4		Sand increases.	
	Moist	0					5	<b>SP</b>	Brown fine to medium SAND, no silt; no odor, no sheen.	
							6			
							7			
							8		7-7.5' Silt	
	Moist	0					9	<b>SP/SM</b>	Brown to gray fine to medium SAND, 10-15% silt, silt layers embedded; no odor, no sheen.	
							10			
	Moist	0	26				11		Brown fine to medium Sand, 1" silt layers embedded; no odor, no sheen.	
			38							

NOTES:



### SOIL BORING LOG

BORING No: DPE-9

PAGE 2 of 2

PROJECT: 21-1577	DRILLER: Cascade Drilling, Inc.	WELL DIAMETER: 4-inch
LOCATION: 631 Queen Anne Ave N, Seattle, WA	DRILL METHOD: Hollow Stem Auger	WELL DEPTH: 19.5 feet
CLIENT: Chevron	SAMPLE METHOD: Hand Auger, Split Spoon	WELL CASING: 2" SCH 40 PVC
DATE: 9/18/06	HOLE DIAMETER: 10.25 inches	WELL SCREEN: 10.5-15.5 feet, .010-inch slots
LOGGED BY: G. Cisneros	HOLE DEPTH: 21.5 feet	FILTER PACK: 16-30 Colorado Silica Sand

CASING ELEVATION: --

Analytical Sample Number	Moisture Content	PID (ppm)	BLOWS/6"	Water Level	Sample Recovery Interval	DEPTH (ft.)	SOIL TYPE	LITHOLOGY / DESCRIPTION	Well Completion Details
DPE-9-13.5	Moist	0	21			12	SP/ SM	Same as above.	
	Wet	0	27			13	SP	Brown (gray at 13'), fine to medlum SAND, no silt; strong odor, strong sheen. DPE-9-13.5 collected at 1000.	
	Moist	390	21			15		Gray, clayey SILT; slight odor, slight sheen.	
	Moist	51	50			16	ML/ CL	Gray, clayey SILT, 5% sand, 5 % fines; slight odor, slight sheen.	
	Moist	0	50		18	ML/ CL	Gray, clayey SILT, 5% sand, 5 % fines; slight odor, slight sheen.		
	Moist	0	50		20	ML/ CL	Gray, clayey SILT, 5% sand, 5 % fines; slight odor, slight sheen.		
						21			
						22		Total depth = 21.5 ft bgs	

NOTES:



**Project:** Arnold's Property  
**Project Number:** 0320-001  
**Logged by:** RAH  
**Date Started:** 5/2/12  
**Surface Conditions:** Asphalt  
**Well Location N/S:** 3.6' S of MW10  
**Well Location E/W:** 4.2' W of MW10  
**Reviewed by:** RKB  
**Date Completed:** 5/2/12

**BORING LOG | P01**

**Site Address:** 631 Queen Anne Avenue North  
Seattle, Washington

**Water Depth At Time of Drilling:** 11 feet bgs  
**Water Depth After Completion:** -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0						SP		Asphalt at surface.	
			80	1.0				Damp to moist, medium to fine SAND with silt and gravel, light brown, no hydrocarbon odor (10-80-10).	
				1.1	P01-04				
5						SM		Damp, dense, silty SAND with gravel, dark brown, no hydrocarbon odor (20-70-10).	
			80	3.8	P01-06				
				1.9		SP		Moist, dense, medium to fine SAND with silt and gravel, brown, no hydrocarbon odor (10-85-5).	
10									
			70	4.3					
				11.1	P01-11			Wet, dense, medium to fine SAND with silt and gravel, reddish-brown, no hydrocarbon odor (10-85-5).	
			100	44	P01-14			Wet, dense, medium to fine SAND with silt, brownish gray to gray, slight to moderate hydrocarbon odor (5-95-0).	
15									

<b>Drilling Co./Driller:</b> ESN/Don <b>Drilling Equipment:</b> Direct Push <b>Sampler Type:</b> -- <b>Hammer Type/Weight:</b> -- lbs <b>Total Boring Depth:</b> 24 feet bgs <b>Total Well Depth:</b> -- feet bgs <b>State Well ID No.:</b> --	<b>Well/Auger Diameter:</b> --/2 inches <b>Well Screened Interval:</b> -- feet bgs <b>Screen Slot Size:</b> -- inches <b>Filter Pack Used:</b> -- <b>Surface Seal:</b> Asphalt <b>Annular Seal:</b> Bentonite <b>Monument Type:</b> --	<b>Notes/Comments:</b>          <div style="border: 1px solid black; padding: 5px; display: inline-block;">         Page:  <b>1 of 2</b> </div>
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**Project:** Arnold's Property  
**Project Number:** 0320-001  
**Logged by:** RAH  
**Date Started:** 5/2/12  
**Surface Conditions:** Asphalt  
**Well Location N/S:** 3.6' S of MW10  
**Well Location E/W:** 4.2' W of MW10  
**Reviewed by:** RKB  
**Date Completed:** 5/2/12

**BORING LOG | P01**

**Site Address:** 631 Queen Anne Avenue North  
Seattle, Washington

**Water Depth At Time of Drilling:** 11 feet bgs  
**Water Depth After Completion:** -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15				3.8					
			100	2.1		ML		Damp, dense, SILT with fine sand, brown, no hydrocarbon odor (60-40-0).	
20				2.1	P01-20				
			100	1.0				Damp, dense, SILT with fine sand, gray, no hydrocarbon odor (60-40-0).	
				1.0	P01-24				
25								Boring terminated at 24' bgs.	
30									

**Drilling Co./Driller:** ESN/Don  
**Drilling Equipment:** Direct Push  
**Sampler Type:** --  
**Hammer Type/Weight:** -- lbs  
**Total Boring Depth:** 24 feet bgs  
**Total Well Depth:** -- feet bgs  
**State Well ID No.:** --

**Well/Auger Diameter:** --/2 inches  
**Well Screened Interval:** -- feet bgs  
**Screen Slot Size:** -- inches  
**Filter Pack Used:** --  
**Surface Seal:** Asphalt  
**Annular Seal:** Bentonite  
**Monument Type:** --

**Notes/Comments:**



**Project:** Arnold's Property  
**Project Number:** 0320-001  
**Logged by:** RAH  
**Date Started:** 5/2/12  
**Surface Conditions:** Asphalt  
**Well Location N/S:** 0' S of MW13  
**Well Location E/W:** 11.5' W of MW13  
**Reviewed by:** RKB  
**Date Completed:** 5/2/12

**BORING LOG | P02**

**Site Address:** 631 Queen Anne Avenue North  
 Seattle, Washington

**Water Depth At Time of Drilling:** 11 feet bgs  
**Water Depth After Completion:** -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0						SM		Asphalt at surface.	
			80	1.0				Damp, dense, silty SAND with gravel, brown, no hydrocarbon odor (20-75-5).	
				1.3	P02-04			Moist, dense, silty SAND with gravel, brown, no hydrocarbon odor (20-75-5).	
5			80	1.0					
				0.8	P02-08	SP		Moist, dense, medium to fine SAND with silt and gravel, brown, no hydrocarbon odor (10-85-5).	
				2.4					
10			90	24.7	P02-11			Wet, dense, medium to fine SAND with silt and gravel, brown, moderate hydrocarbon odor (10-85-5).	
				4.3					
15			100						

**Drilling Co./Driller:** ESN/Don  
**Drilling Equipment:** Direct Push  
**Sampler Type:** --  
**Hammer Type/Weight:** -- lbs  
**Total Boring Depth:** 24 feet bgs  
**Total Well Depth:** -- feet bgs  
**State Well ID No.:** --

**Well/Auger Diameter:** --/2 inches  
**Well Screened Interval:** -- feet bgs  
**Screen Slot Size:** -- inches  
**Filter Pack Used:** --  
**Surface Seal:** Asphalt  
**Annular Seal:** Bentonite  
**Monument Type:** --

**Notes/Comments:**



**Project:** Arnold's Property  
**Project Number:** 0320-001  
**Logged by:** RAH  
**Date Started:** 5/2/12  
**Surface Conditions:** Asphalt  
**Well Location N/S:** 0' S of MW13  
**Well Location E/W:** 11.5' W of MW13  
**Reviewed by:** RKB  
**Date Completed:** 5/2/12

**BORING LOG | P02**  
**Site Address:** 631 Queen Anne Avenue North  
 Seattle, Washington

**Water Depth At Time of Drilling:** 11 feet bgs  
**Water Depth After Completion:** -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15				4.3	P02-16				
				1.9					
			--						
20				2.4	P02-20				
				1.0		ML		Damp, dense, SILT with fine sand, gray, no hydrocarbon odor (60-40-0).	
			--						
				0.5	P02-24				
25								Boring terminated at 24' bgs.	
30									

<b>Drilling Co./Driller:</b> ESN/Don <b>Drilling Equipment:</b> Direct Push <b>Sampler Type:</b> -- <b>Hammer Type/Weight:</b> -- lbs <b>Total Boring Depth:</b> 24 feet bgs <b>Total Well Depth:</b> -- feet bgs <b>State Well ID No.:</b> --	<b>Well/Auger Diameter:</b> --/2 inches <b>Well Screened Interval:</b> -- feet bgs <b>Screen Slot Size:</b> -- inches <b>Filter Pack Used:</b> -- <b>Surface Seal:</b> Asphalt <b>Annular Seal:</b> Bentonite <b>Monument Type:</b> --	<b>Notes/Comments:</b>          <div style="border: 1px solid black; padding: 5px; width: fit-content; float: right;">         Page:  <b>2 of 2</b> </div>
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**Project:** Arnold's Property  
**Project Number:** 0320-001  
**Logged by:** RAH  
**Date Started:** 5/2/12  
**Surface Conditions:** Asphalt  
**Well Location N/S:** 2.0' S of MW09  
**Well Location E/W:** 75.2' E of MW09  
**Reviewed by:** RKB  
**Date Completed:** 5/2/12

**BORING LOG | P03**

**Site Address:** 631 Queen Anne Avenue North  
Seattle, Washington

**Water Depth At Time of Drilling:** 11 feet bgs  
**Water Depth After Completion:** -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0						SM		Asphalt at surface.	
			80	1.9				Damp, dense, silty SAND with gravel, brown, no hydrocarbon odor (20-70-10).	
				34.5	P03-04			Damp, dense, silty SAND with gravel, dark brown, moderate hydrocarbon odor (20-75-5).	
5			80	4.9				Damp, dense, silty SAND with gravel, brown, no hydrocarbon odor (20-70-10).	
				2.9	P03-08	SP		Moist, dense, medium to fine SAND with silt and gravel, brown, no hydrocarbon odor (5-90-5).	
			100	4.6					
10				100.2	P03-11			Wet, dense, medium to fine SAND with silt and gravel, gray to brownish gray, moderate to strong hydrocarbon odor (5-90-5).	
			100	23.6					
15									

**Drilling Co./Driller:** ESN/Don  
**Drilling Equipment:** Direct Push  
**Sampler Type:** --  
**Hammer Type/Weight:** -- lbs  
**Total Boring Depth:** 24 feet bgs  
**Total Well Depth:** -- feet bgs  
**State Well ID No.:** --

**Well/Auger Diameter:** --/2 inches  
**Well Screened Interval:** -- feet bgs  
**Screen Slot Size:** -- inches  
**Filter Pack Used:** --  
**Surface Seal:** Asphalt  
**Annular Seal:** Bentonite  
**Monument Type:** --

**Notes/Comments:**



**Project:** Arnold's Property  
**Project Number:** 0320-001  
**Logged by:** RAH  
**Date Started:** 5/2/12  
**Surface Conditions:** Asphalt  
**Well Location N/S:** 2.0' S of MW09  
**Well Location E/W:** 75.2' E of MW09  
**Reviewed by:** RKB  
**Date Completed:** 5/2/12

**BORING LOG | P03**

**Site Address:** 631 Queen Anne Avenue North  
Seattle, Washington

**Water Depth At Time of Drilling:** 11 feet bgs  
**Water Depth After Completion:** -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15				203.5	P03-15				
						ML		Damp, dense, SILT with fine sand, dark brown, no hydrocarbon odor (60-40-0).	
			100	648		SP		Wet, dense, medium to fine SAND with silt and gravel, gray, strong hydrocarbon odor (10-80-10).	
20				4.0	P03-20			Wet, dense, medium to fine SAND with silt and gravel, gray, no hydrocarbon odor (10-80-10).	
				4.0				Wet, dense, medium to fine SAND with silt and gravel, brown, no hydrocarbon odor (10-80-10).	
			--						
				2.7	P03-24				
25								Boring terminated at 24' bgs.	
30									

**Drilling Co./Driller:** ESN/Don  
**Drilling Equipment:** Direct Push  
**Sampler Type:** --  
**Hammer Type/Weight:** -- lbs  
**Total Boring Depth:** 24 feet bgs  
**Total Well Depth:** -- feet bgs  
**State Well ID No.:** --

**Well/Auger Diameter:** --/2 inches  
**Well Screened Interval:** -- feet bgs  
**Screen Slot Size:** -- inches  
**Filter Pack Used:** --  
**Surface Seal:** Asphalt  
**Annular Seal:** Bentonite  
**Monument Type:** --

**Notes/Comments:**



**Project:** Arnold's Property  
**Project Number:** 0320-001  
**Logged by:** RAH  
**Date Started:** 5/2/12  
**Surface Conditions:** Asphalt  
**Well Location N/S:** 7.6' S of DPE-G  
**Well Location E/W:** 10.0' E of DPE-C  
**Reviewed by:** RKB  
**Date Completed:** 5/2/12

**BORING LOG | P04**

**Site Address:** 631 Queen Anne Avenue North  
Seattle, Washington

**Water Depth At Time of Drilling:** 11 feet bgs  
**Water Depth After Completion:** -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0						SM		Asphalt at surface.	
			90	1.0				Damp, dense, silty SAND with gravel, light brown, no hydrocarbon odor (20-70-10).	
				1.9	P04-04			Damp, dense, silty SAND with gravel, light brown, no hydrocarbon odor (20-75-5).	
5			90	2.1					
				3.8	P04-08			Damp, dense, silty SAND with gravel, light brown, no hydrocarbon odor (20-70-10).	
				4.6		SP		Moist, dense, medium to fine SAND with silt and gravel, grayish-brown, no hydrocarbon odor (10-80-10).	
10			-	567	P04-11			Wet, dense, medium to fine SAND with silt and gravel, gray, strong hydrocarbon odor (10-80-10).	
			-						
15									

<b>Drilling Co./Driller:</b> ESN/Don <b>Drilling Equipment:</b> Direct Push <b>Sampler Type:</b> -- <b>Hammer Type/Weight:</b> -- lbs <b>Total Boring Depth:</b> 24 feet bgs <b>Total Well Depth:</b> -- feet bgs <b>State Well ID No.:</b> --	<b>Well/Auger Diameter:</b> --/2 inches <b>Well Screened Interval:</b> -- feet bgs <b>Screen Slot Size:</b> -- inches <b>Filter Pack Used:</b> -- <b>Surface Seal:</b> Asphalt <b>Annular Seal:</b> Bentonite <b>Monument Type:</b> --	<b>Notes/Comments:</b>          <div style="border: 1px solid black; padding: 5px; display: inline-block;">         Page:  <b>1 of 2</b> </div>
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**Project:** Arnold's Property  
**Project Number:** 0320-001  
**Logged by:** RAH  
**Date Started:** 5/2/12  
**Surface Conditions:** Asphalt  
**Well Location N/S:** 7.6' S of DPE-G  
**Well Location E/W:** 10.0' E of DPE-C  
**Reviewed by:** RKB  
**Date Completed:** 5/2/12

**BORING LOG | P04**

**Site Address:** 631 Queen Anne Avenue North  
Seattle, Washington

**Water Depth At Time of Drilling:** 11 feet bgs  
**Water Depth After Completion:** -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15				76.2	P04-15			Wet, dense, medium to fine SAND with silt and gravel, brownish-gray, slight hydrocarbon odor (5-85-10).	
			100	63.2					
20				9.5	P04-20			Wet, dense, medium to fine SAND with silt and gravel, brown, no hydrocarbon odor (5-95-0).	
			-	3.9					
				2.4	P04-24				
25								Boring terminated at 24' bgs.	
30									

**Drilling Co./Driller:** ESN/Don  
**Drilling Equipment:** Direct Push  
**Sampler Type:** --  
**Hammer Type/Weight:** -- lbs  
**Total Boring Depth:** 24 feet bgs  
**Total Well Depth:** -- feet bgs  
**State Well ID No.:** --

**Well/Auger Diameter:** --/2 inches  
**Well Screened Interval:** -- feet bgs  
**Screen Slot Size:** -- inches  
**Filter Pack Used:** --  
**Surface Seal:** Asphalt  
**Annular Seal:** Bentonite  
**Monument Type:** --

**Notes/Comments:**



**Project:** Arnold's Property  
**Project Number:** 0320-001  
**Logged by:** RAH  
**Date Started:** 5/2/12  
**Surface Conditions:** Asphalt  
**Well Location N/S:** 8' N of DPE-6  
**Well Location E/W:** 27.8' W of DPE-6  
**Reviewed by:** RKB  
**Date Completed:** 5/2/12

**BORING LOG | P05**

**Site Address:** 631 Queen Anne Avenue North  
Seattle, Washington

**Water Depth At Time of Drilling:** 11 feet bgs  
**Water Depth After Completion:** -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0						SP		Asphalt at surface.	
			100	1.6				Damp, dense, medium to fine SAND with gravel and silt, light brown, no hydrocarbon odor (10-80-10).	
5				29.1	P05-04	SM		Damp, dense, silty SAND with gravel, dark brown, moderate hydrocarbon odor (20-75-5).	
			80	30.0				Damp, dense, silty SAND with gravel, dark brown, brick fragments and fill debris towards bottom, no hydrocarbon odor (20-70-10).	
10				2.4	P05-08				
			-	6.0					
				6.2	P05-11	SP		Wet, dense, medium to fine SAND with silt and gravel, dark brown to dark gray, slight hydrocarbon odor (10-85-5).	
				10.3				Wet, dense, medium to fine SAND with silt, dark brown to dark gray, slight hydrocarbon odor (10-90-0).	
15									

<b>Drilling Co./Driller:</b> ESN/Don <b>Drilling Equipment:</b> Direct Push <b>Sampler Type:</b> -- <b>Hammer Type/Weight:</b> -- lbs <b>Total Boring Depth:</b> 24 feet bgs <b>Total Well Depth:</b> -- feet bgs <b>State Well ID No.:</b> --	<b>Well/Auger Diameter:</b> --/2 inches <b>Well Screened Interval:</b> -- feet bgs <b>Screen Slot Size:</b> -- inches <b>Filter Pack Used:</b> -- <b>Surface Seal:</b> Asphalt <b>Annular Seal:</b> Bentonite <b>Monument Type:</b> --	<b>Notes/Comments:</b>          <div style="border: 1px solid black; padding: 5px; display: inline-block;">         Page: 1 of 2       </div>
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**Project:** Arnold's Property  
**Project Number:** 0320-001  
**Logged by:** RAH  
**Date Started:** 5/2/12  
**Surface Conditions:** Asphalt  
**Well Location N/S:** 8' N of DPE-6  
**Well Location E/W:** 27.8' W of DPE-6  
**Reviewed by:** RKB  
**Date Completed:** 5/2/12

**BORING LOG | P05**

**Site Address:** 631 Queen Anne Avenue North  
Seattle, Washington

**Water Depth At Time of Drilling:** 11 feet bgs  
**Water Depth After Completion:** -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15				12.5	P05-15			Wet, dense, medium to fine SAND with silt, brown, no hydrocarbon odor (5-95-0).	
				12.5		Moist, dense, medium to fine SAND with gravel and silt, brown, no hydrocarbon odor (10-80-10).			
				827	P05-20	Wet, dense, medium to fine SAND, dark gray, strong hydrocarbon odor (5-95-0).			
20			100	46.8		Wet, dense, medium to fine SAND with silt, grayish-brown, slight hydrocarbon odor (5-95-0).			
				3.5	P05-24	Wet, dense, medium to fine SAND with silt, brown, no hydrocarbon odor (5-95-0).			
25								Boring terminated at 24' bgs.	
30									

**Drilling Co./Driller:** ESN/Don  
**Drilling Equipment:** Direct Push  
**Sampler Type:** --  
**Hammer Type/Weight:** -- lbs  
**Total Boring Depth:** 24 feet bgs  
**Total Well Depth:** -- feet bgs  
**State Well ID No.:** --

**Well/Auger Diameter:** --/2 inches  
**Well Screened Interval:** -- feet bgs  
**Screen Slot Size:** -- inches  
**Filter Pack Used:** --  
**Surface Seal:** Asphalt  
**Annular Seal:** Bentonite  
**Monument Type:** --

**Notes/Comments:**



**Project:** Arnold's Property  
**Project Number:** 0320-001  
**Logged by:** RAH  
**Date Started:** 5/2/12  
**Surface Conditions:** Asphalt  
**Well Location N/S:** 6.6' S of MW09  
**Well Location E/W:** 23.3' W of MW09  
**Reviewed by:** RKB  
**Date Completed:** 5/2/12

**BORING LOG | P06**

**Site Address:** 631 Queen Anne Avenue North  
Seattle, Washington

**Water Depth At Time of Drilling:** 11 feet bgs  
**Water Depth After Completion:** -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0						SM		Asphalt at surface.	
			90	1.0				Damp, dense, silty SAND with gravel and brick fragments, light brown, no hydrocarbon odor (20-70-10).	
5				1.0	P06-04	ML		Damp, dense SILT with gravel and fine sand, dark brown, no hydrocarbon odor (40-50-10).	
			--	1.0		SP		Damp, dense, medium to fine SAND, light brown, no hydrocarbon odor (5-95-0).	
				0.8	P06-07	ML		Damp, dense, SILT with fine sand and wood fragments, dark brown, no hydrocarbon odor (40-50-10).	
10				4.3		SP		Moist, dense, medium to fine SAND with silt, brown, no hydrocarbon odor (5-95-0).	
				74.3	P06-11			Wet, dense, medium to fine SAND with silt brownish grey, slight hydrocarbon odor (10-80-10).	
15				116	P06-14				

<b>Drilling Co./Driller:</b> ESN/Don <b>Drilling Equipment:</b> Direct Push <b>Sampler Type:</b> -- <b>Hammer Type/Weight:</b> -- lbs <b>Total Boring Depth:</b> 24 feet bgs <b>Total Well Depth:</b> -- feet bgs <b>State Well ID No.:</b> --	<b>Well/Auger Diameter:</b> --/2 inches <b>Well Screened Interval:</b> -- feet bgs <b>Screen Slot Size:</b> -- inches <b>Filter Pack Used:</b> -- <b>Surface Seal:</b> Asphalt <b>Annular Seal:</b> Bentonite <b>Monument Type:</b> --	<b>Notes/Comments:</b>          <div style="border: 1px solid black; padding: 5px; width: fit-content; float: right;"> <b>Page:</b> 1 of 2         </div>
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**Project:** Arnold's Property  
**Project Number:** 0320-001  
**Logged by:** RAH  
**Date Started:** 5/2/12  
**Surface Conditions:** Asphalt  
**Well Location N/S:** 6.6' S of MW09  
**Well Location E/W:** 23.3' W of MW09  
**Reviewed by:** RKB  
**Date Completed:** 5/2/12

**BORING LOG | P06**

**Site Address:** 631 Queen Anne Avenue North  
Seattle, Washington

**Water Depth At Time of Drilling:** 11 feet bgs  
**Water Depth After Completion:** -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15				28.7				Wet, dense, medium to fine SAND with gravel and silt, brownish gray to gray, slight to moderate hydrocarbon odor (10-80-10).	
20			PID inoperable	P06-19					
			PID inoperable	P06-24					
25								Boring terminated at 24' bgs.	
30									

**Drilling Co./Driller:** ESN/Don  
**Drilling Equipment:** Direct Push  
**Sampler Type:** --  
**Hammer Type/Weight:** -- lbs  
**Total Boring Depth:** 24 feet bgs  
**Total Well Depth:** -- feet bgs  
**State Well ID No.:** --

**Well/Auger Diameter:** -/2 inches  
**Well Screened Interval:** -- feet bgs  
**Screen Slot Size:** -- inches  
**Filter Pack Used:** --  
**Surface Seal:** Asphalt  
**Annular Seal:** Bentonite  
**Monument Type:** --

**Notes/Comments:**



**Project:** Arnold's Property  
**Project Number:** 0320-001  
**Logged by:** RAH  
**Date Started:** 5/2/12  
**Surface Conditions:** Asphalt  
**Well Location N/S:** 26' S of MW09  
**Well Location E/W:** 31' W of MW09  
**Reviewed by:** RKB  
**Date Completed:** 5/2/12

**BORING LOG | P07**

**Site Address:** 631 Queen Anne Avenue North  
Seattle, Washington

**Water Depth At Time of Drilling:** 11 feet bgs  
**Water Depth After Completion:** -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0						SM		Asphalt at surface.	
			90	PID Inoperable	P07-04			Damp, dense, silty SAND with gravel, light brown, no hydrocarbon odor (20-70-10).	
5			90	PID Inoperable	P07-08			Damp, dense, silty SAND with gravel, dark brown, slight hydrocarbon odor (20-75-5).	
10			80	PID Inoperable	P07-11	SP		Wet, dense, medium to fine SAND with silt, dark gray, slight hydrocarbon odor (5-95-0).	
15			100	315	P07-14			Wet, dense, medium to fine SAND, dark gray, strong hydrocarbon odor (5-95-0).	

<b>Drilling Co./Driller:</b> ESN/Don <b>Drilling Equipment:</b> Direct Push <b>Sampler Type:</b> -- <b>Hammer Type/Weight:</b> -- lbs <b>Total Boring Depth:</b> 24 feet bgs <b>Total Well Depth:</b> -- feet bgs <b>State Well ID No.:</b> --	<b>Well/Auger Diameter:</b> --/2 inches <b>Well Screened Interval:</b> -- feet bgs <b>Screen Slot Size:</b> -- inches <b>Filter Pack Used:</b> -- <b>Surface Seal:</b> Asphalt <b>Annular Seal:</b> Bentonite <b>Monument Type:</b> --	<b>Notes/Comments:</b>          <div style="border: 1px solid black; padding: 5px; display: inline-block;">         Page: 1 of 2       </div>
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**Project:** Arnold's Property  
**Project Number:** 0320-001  
**Logged by:** RAH  
**Date Started:** 5/2/12  
**Surface Conditions:** Asphalt  
**Well Location N/S:** 26' S of MW09  
**Well Location E/W:** 31' W of MW09  
**Reviewed by:** RKB  
**Date Completed:** 5/2/12

**BORING LOG | P07**

**Site Address:** 631 Queen Anne Avenue North  
 Seattle, Washington

**Water Depth At Time of Drilling:** 11 feet bgs  
**Water Depth After Completion:** -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15				326				Wet, dense, medium to fine SAND, reddish-brown, slight hydrocarbon odor (5-95-0).	
				7.2				Silt lens.	
			--					Wet, dense, medium to fine SAND, dark gray, strong hydrocarbon odor (5-95-0).	
20				476	P07-20				
			--	285					
				4.2	P07-24			Wet, dense, medium to fine SAND, gray, slight hydrocarbon odor (5-95-0).	
25								Boring terminated at 24' bgs.	
30									

**Drilling Co./Driller:** ESN/Don  
**Drilling Equipment:** Direct Push  
**Sampler Type:** --  
**Hammer Type/Weight:** -- lbs  
**Total Boring Depth:** 24 feet bgs  
**Total Well Depth:** -- feet bgs  
**State Well ID No.:** --

**Well/Auger Diameter:** -/2 inches  
**Well Screened Interval:** -- feet bgs  
**Screen Slot Size:** -- inches  
**Filter Pack Used:** --  
**Surface Seal:** Asphalt  
**Annular Seal:** Bentonite  
**Monument Type:** --

**Notes/Comments:**



**Project:** Arnold's Property  
**Project Number:** 0320-001  
**Logged by:** RAH  
**Date Started:** 5/2/12  
**Surface Conditions:** Asphalt  
**Well Location N/S:** 4.4' S of NW corner of ramp  
**Well Location E/W:** 4.8' W of NW corner of ramp  
**Reviewed by:** RKB  
**Date Completed:** 5/2/12

**BORING LOG | P08**  
**Site Address:** 631 Queen Anne Avenue North  
 Seattle, Washington

**Water Depth At Time of Drilling:** 11 feet bgs  
**Water Depth After Completion:** -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0						Blank		Asphalt at surface. Rotten log.	
5			50						
				0.2	P08-08	SM		Damp, loose, silty SAND with gravel, dark brown, no hydrocarbon odor (20-75-5). Moist, dense, silty SAND with gravel, dark brown, no hydrocarbon odor (20-75-5).	
10			80	0.3					
				3.7	P08-11	SP		Wet, dense, medium to fine SAND with silt, brownish-gray, no hydrocarbon odor (5-95-0).	
			75	662	P08-14			Wet, medium to fine SAND with silt, gray, strong hydrocarbon hydrocarbon odor (5-95-0).	
15									

<b>Drilling Co./Driller:</b> ESN/Don <b>Drilling Equipment:</b> Direct Push <b>Sampler Type:</b> -- <b>Hammer Type/Weight:</b> -- lbs <b>Total Boring Depth:</b> 28 feet bgs <b>Total Well Depth:</b> -- feet bgs <b>State Well ID No.:</b> --	<b>Well/Auger Diameter:</b> --/2 inches <b>Well Screened Interval:</b> -- feet bgs <b>Screen Slot Size:</b> -- inches <b>Filter Pack Used:</b> -- <b>Surface Seal:</b> Asphalt <b>Annular Seal:</b> Bentonite <b>Monument Type:</b> --	<b>Notes/Comments:</b>          <div style="border: 1px solid black; padding: 5px; display: inline-block;">         Page:  <b>1 of 2</b> </div>
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**Project:** Arnold's Property  
**Project Number:** 0320-001  
**Logged by:** RAH  
**Date Started:** 5/2/12  
**Surface Conditions:** Asphalt  
**Well Location N/S:** 4.4' S of NW corner of ramp  
**Well Location E/W:** 4.8' W of NW corner of ramp  
**Reviewed by:** RKB  
**Date Completed:** 5/2/12

**BORING LOG | P08**

**Site Address:** 631 Queen Anne Avenue North  
Seattle, Washington

**Water Depth At Time of Drilling:** 11 feet bgs  
**Water Depth After Completion:** -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15				36.0	P08-16			Wet, dense, medium to fine SAND, gray, no hydrocarbon odor (5-95-0).	
			90	237		Moist, dense, medium to fine SAND, brown, strong hydrocarbon odor (5-95-0).			
20				298	P08-19			Wet, dense, medium to fine SAND, brown, strong hydrocarbon odor (5-95-0).	
				277					
25				30.1		ML		Damp, dense, SILT with fine sand, brown, moderate hydrocarbon odor (60-40-0).	
				7.0		Damp, dense, SILT with fine sand, gray, no hydrocarbon odor (70-30-0).			
				2.4	P08-28				
								Boring terminated at 28' bgs.	
30									

**Drilling Co./Driller:** ESN/Don  
**Drilling Equipment:** Direct Push  
**Sampler Type:** --  
**Hammer Type/Weight:** -- lbs  
**Total Boring Depth:** 28 feet bgs  
**Total Well Depth:** -- feet bgs  
**State Well ID No.:** --

**Well/Auger Diameter:** -/2 inches  
**Well Screened Interval:** -- feet bgs  
**Screen Slot Size:** -- inches  
**Filter Pack Used:** --  
**Surface Seal:** Asphalt  
**Annular Seal:** Bentonite  
**Monument Type:** --

**Notes/Comments:**



**Project:** Arnold's Property  
**Project Number:** 0320-001  
**Logged by:** RAH  
**Date Started:** 5/2/12  
**Surface Conditions:** Asphalt  
**Well Location N/S:** 0' N of DPE-7  
**Well Location E/W:** 8.7' W of DPE-7  
**Reviewed by:** RKB  
**Date Completed:** 5/2/12

**BORING LOG | P09**

**Site Address:** 631 Queen Anne Avenue North  
Seattle, Washington

**Water Depth At Time of Drilling:** 12 feet bgs  
**Water Depth After Completion:** -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0						SM		Asphalt at surface.	
			90	0.9		SP		Damp, loose, silty SAND with gravel, dark brown, no hydrocarbon odor (20-75-5).	
				0.8	P09-03	SM		Damp, loose, silty SAND with gravel, dark brown, no hydrocarbon odor (20-75-5).	
5			100	0.8					
				1.5	P09-08				
10			--	1.6		SP		Moist, dense, medium to fine SAND with silt, light brown, no hydrocarbon odor (5-95-0).	
				6.5	P09-12				
				16					
15									

<b>Drilling Co./Driller:</b> ESN/Don <b>Drilling Equipment:</b> Direct Push <b>Sampler Type:</b> -- <b>Hammer Type/Weight:</b> -- lbs <b>Total Boring Depth:</b> 24 feet bgs <b>Total Well Depth:</b> -- feet bgs <b>State Well ID No.:</b> --	<b>Well/Auger Diameter:</b> -1/2 inches <b>Well Screened Interval:</b> -- feet bgs <b>Screen Slot Size:</b> -- inches <b>Filter Pack Used:</b> -- <b>Surface Seal:</b> Asphalt <b>Annular Seal:</b> Bentonite <b>Monument Type:</b> --	<b>Notes/Comments:</b>          <div style="border: 1px solid black; padding: 5px; display: inline-block;">         Page:  <b>1 of 2</b> </div>
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**Project:** Arnold's Property  
**Project Number:** 0320-001  
**Logged by:** RAH  
**Date Started:** 5/2/12  
**Surface Conditions:** Asphalt  
**Well Location N/S:** 0' N of DPE-7  
**Well Location E/W:** 8.7' W of DPE-7  
**Reviewed by:** RKB  
**Date Completed:** 5/2/12

**BORING LOG | P09**

**Site Address:** 631 Queen Anne Avenue North  
Seattle, Washington

**Water Depth At Time of Drilling:** 12 feet bgs  
**Water Depth After Completion:** -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15				177	P09-15		[Dotted Pattern]	Wet, dense, medium to fine SAND, dark gray, strong hydrocarbon odor (5-95-0).	
				2.3		Wet, dense, medium to fine SAND, brown.			
			90						
20				42.3	P09-20	Wet, dense, medium to fine SAND with silt, gray, moderate hydrocarbon odor (5-95-0).			
				4.7			Wet, dense, medium to fine SAND with silt, light gray to gray, no hydrocarbon odor (5-95-0).		
				4.4	P09-24				
25								Boring terminated at 24' bgs.	
30									

<b>Drilling Co./Driller:</b> ESN/Don <b>Drilling Equipment:</b> Direct Push <b>Sampler Type:</b> -- <b>Hammer Type/Weight:</b> -- lbs <b>Total Boring Depth:</b> 24 feet bgs <b>Total Well Depth:</b> -- feet bgs <b>State Well ID No.:</b> --	<b>Well/Auger Diameter:</b> --/2 inches <b>Well Screened Interval:</b> -- feet bgs <b>Screen Slot Size:</b> -- inches <b>Filter Pack Used:</b> -- <b>Surface Seal:</b> Asphalt <b>Annular Seal:</b> Bentonite <b>Monument Type:</b> --	<b>Notes/Comments:</b>          <div style="border: 1px solid black; padding: 5px; width: fit-content; float: right;">         Page:  <b>2 of 2</b> </div>
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Project Name: Arnold's/Former Texaco Service Station No. 211577

Project Number: 2017-015C

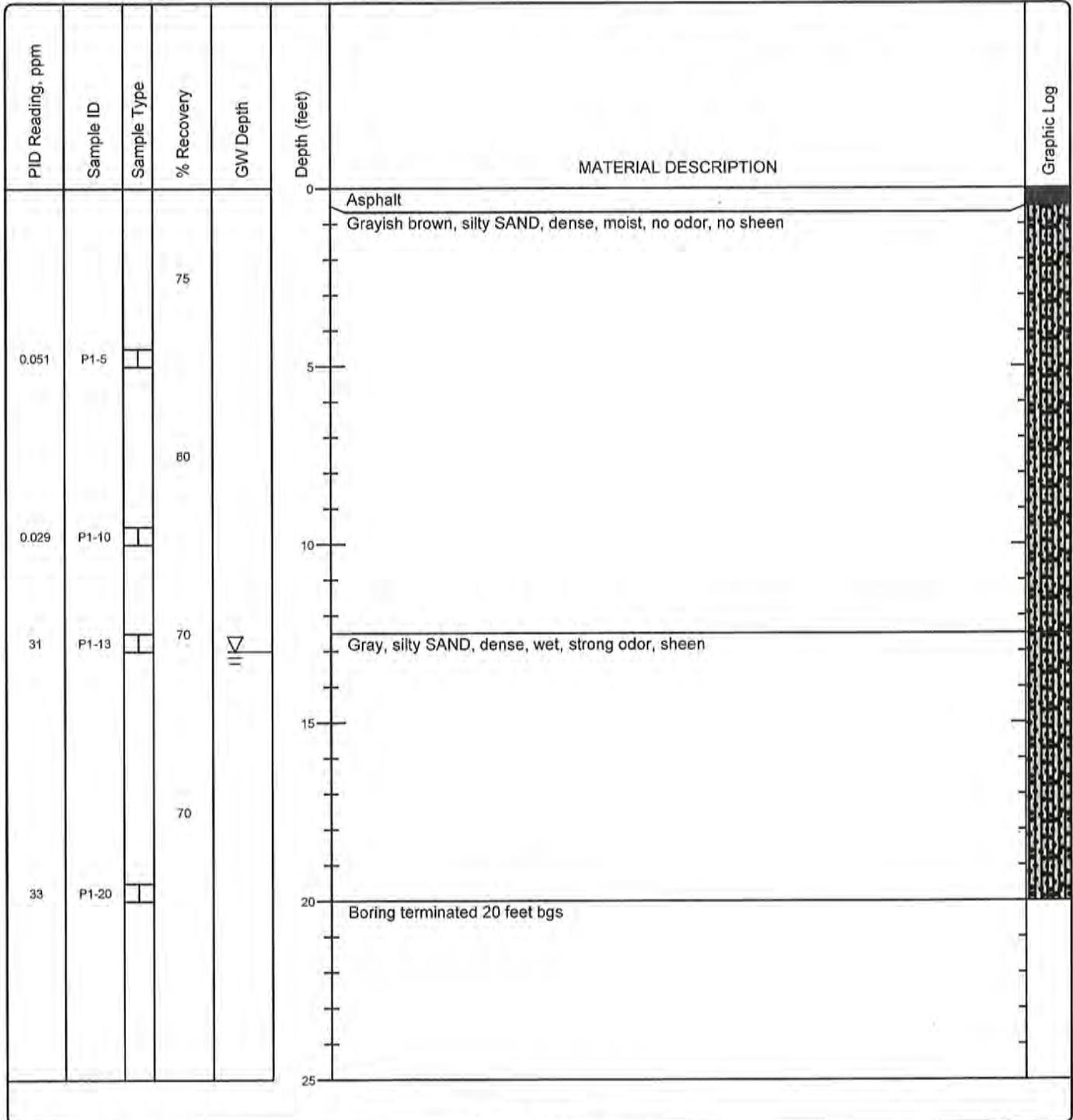
Client: Vibrant Cities



Test Probe No.: P1

Sheet 1 of 1

Date(s) Drilled: 05/22/17	Logged By: SL	Surface Conditions: Asphalt
Drilling Method(s): Direct Push	Drill Bit Size/Type: 2" Probe	Total Depth of Borehole: 20 feet bgs
Drill Rig Type: Truck-Mounted	Drilling Contractor: Holocene	Approximate Surface Elevation: 114'
Groundwater Level: 13' bgs	Sampling Method(s): Continuous	Hammer Data : n/a
Borehole Backfill: Bentonite	Location: 631 Queen Anne Avenue North, Seattle, Washington 98109	





Project Name: Arnold's/Former Texaco Service Station No. 211577

Project Number: 2017-015C

Client: Vibrant Cities



Test Probe No.: P3

Sheet 1 of 1

Date(s) Drilled: 05/22/17	Logged By: SL	Surface Conditions: Asphalt
Drilling Method(s): Direct Push	Drill Bit Size/Type: 2" Probe	Total Depth of Borehole: 20 feet bgs
Drill Rig Type: Truck-Mounted	Drilling Contractor: Holocene	Approximate Surface Elevation: 114'
Groundwater Level: 13' bgs	Sampling Method(s): Continuous	Hammer Data : n/a
Borehole Backfill: Bentonite	Location: 631 Queen Anne Avenue North, Seattle, Washington 98109	

PID Reading, ppm	Sample ID	Sample Type	% Recovery	GW Depth	Depth (feet)	MATERIAL DESCRIPTION	Graphic Log
					0	Asphalt	
			60			Brown, silty SAND, medium dense, moist, no odor, no sheen	
7.032	P3-5				5	Gray, silty SAND, medium dense, moist, strong odor, slight sheen	
			85			Brown, silty SAND, moist, no odor, no sheen	
0.15	P3-6				10	Gray, silty SAND, medium dense, odor, slight sheen	
			75			Wet	
30	P3-13				15	No odor	
			90			Boring terminated 20 feet bgs	
25	P3-20				20		
					25		

Project Name: Arnold's/Former Texaco Service Station No. 211577

Project Number: 2017-015C

Client: Vibrant Cities



Test Probe No.: P4

Sheet 1 of 1

Date(s) Drilled: <b>05/22/17</b>	Logged By: <b>SL</b>	Surface Conditions: <b>Concrete</b>
Drilling Method(s): <b>Direct Push</b>	Drill Bit Size/Type: <b>2" Probe</b>	Total Depth of Borehole: <b>5.5 feet bgs</b>
Drill Rig Type: <b>Track-Mounted, Limited Access</b>	Drilling Contractor: <b>Holocene</b>	Approximate Surface Elevation: <b>114'</b>
Groundwater Level: <b>Not Encountered</b>	Sampling Method(s): <b>Continuous</b>	Hammer Data : <b>n/a</b>
Borehole Backfill: <b>Bentonite</b>	Location: <b>631 Queen Anne Avenue North, Seattle, Washington 98109</b>	

PID Reading, ppm	Sample ID	Sample Type	% Recovery	GW Depth	Depth (feet)	MATERIAL DESCRIPTION	Graphic Log
					0	Concrete	
0.013	P4-2		80			Light brown, silty SAND, medium dense, moist, no odor, no sheen	
0.01	P4-4		80				
0.01	P4-5.5		70		5	Boring refusal at 5.5 feet bgs	
					10		
					15		
					20		
					25		

Project Name: Arnold's/Former Texaco Service Station No. 211577

Project Number: 2017-015C

Client: Vibrant Cities



Test Probe No.: P5

Sheet 1 of 1

Date(s) Drilled: <b>05/22/17</b>	Logged By: <b>SL</b>	Surface Conditions: <b>Concrete</b>
Drilling Method(s): <b>Direct Push</b>	Drill Bit Size/Type: <b>2" Probe</b>	Total Depth of Borehole: <b>6 feet bgs</b>
Drill Rig Type: <b>Track-Mounted, Limited Access</b>	Drilling Contractor: <b>Holocene</b>	Approximate Surface Elevation: <b>114'</b>
Groundwater Level: <b>Not Encountered</b>	Sampling Method(s): <b>Continuous</b>	Hammer Data : <b>n/a</b>
Borehole Backfill: <b>Bentonite</b>	Location: <b>631 Queen Anne Avenue North, Seattle, Washington 98109</b>	

PID Reading, ppm	Sample ID	Sample Type	% Recovery	GW Depth	Depth (feet)	MATERIAL DESCRIPTION	Graphic Log
					0	Concrete	
0.013	P5-2		80			Light brown, silty SAND, dense, moist, no odor, no sheen	
0.011	P5-4		45				
			0		5	Boring refusal at 6 feet bgs	
					10		
					15		
					20		
					25		

Project Name: Arnold's/Former Texaco Service Station No. 211577

Project Number: 2017-015C

Client: Vibrant Cities



Test Probe No.: P6

Sheet 1 of 1

Date(s) Drilled: 05/22/17	Logged By: SL	Surface Conditions: Concrete
Drilling Method(s): Direct Push	Drill Bit Size/Type: 2" Probe	Total Depth of Borehole: 4 feet bgs
Drill Rig Type: Track-Mounted, Limited Access	Drilling Contractor: Holocene	Approximate Surface Elevation: 114'
Groundwater Level: Not Encountered	Sampling Method(s): Continuous	Hammer Data : n/a
Borehole Backfill: Bentonite	Location: 631 Queen Anne Avenue North, Seattle, Washington 98109	

PID Reading, ppm	Sample ID	Sample Type	% Recovery	GW Depth	Depth (feet)	MATERIAL DESCRIPTION	Graphic Log
0.021	P6-1		80		0	Concrete	
			75			Light brown, silty SAND with gravel, dense, moist, no odor, no sheen	
0.017	P6-4				4	Boring refusal at 4 feet bgs	
					5		
					10		
					15		
					20		
					25		

Project Name: Arnold's/Former Texaco Service Station No. 211577

Project Number: 2017-015C

Client: Vibrant Cities



Test Probe No.: P7

Sheet 1 of 1

Date(s) Drilled: <b>05/22/17</b>	Logged By: <b>SL</b>	Surface Conditions: <b>Concrete</b>
Drilling Method(s): <b>Direct Push</b>	Drill Bit Size/Type: <b>2" Probe</b>	Total Depth of Borehole: <b>6 feet bgs</b>
Drill Rig Type: <b>Track-Mounted, Limited Access</b>	Drilling Contractor: <b>Holocene</b>	Approximate Surface Elevation: <b>114'</b>
Groundwater Level: <b>Not Encountered</b>	Sampling Method(s): <b>Continuous</b>	Hammer Data : <b>n/a</b>
Borehole Backfill: <b>Bentonite</b>	Location: <b>631 Queen Anne Avenue North, Seattle, Washington 98109</b>	

PID Reading, ppm	Sample ID	Sample Type	% Recovery	GW Depth	Depth (feet)	MATERIAL DESCRIPTION	Graphic Log
0.009	P7-2		80		0	Concrete	
0.010	P7-4		75		0	Light brown, silty SAND, dense, moist, no odor, no sheen	
0.011	P7-6		70		5	Boring refusal at 6 feet bgs	
					10		
					15		
					20		
					25		



PID Reading, ppm	Sample ID	Sample Type	% Recovery	GW Depth	Depth (feet)	MATERIAL DESCRIPTION	Graphic Log
1	2	3	4	5	6	7	8

**COLUMN DESCRIPTIONS**

- 1** PID Reading, ppm: The reading from a photo-ionization detector, in parts per million.
- 2** Sample ID: Sample identification number.
- 3** Sample Type: Type of soil sample collected at the depth interval shown.
- 4** % Recovery: % Recoverysquare foot.
- 5** GW Depth: Groundwater depth in feet below the ground surface.
- 6** Depth (feet): Depth in feet below the ground surface.
- 7** MATERIAL DESCRIPTION: Description of material encountered. May include consistency, moisture, color, and other descriptive text.
- 8** Graphic Log: Graphic depiction of the subsurface material encountered.

**FIELD AND LABORATORY TEST ABBREVIATIONS**

- CHEM: Chemical tests to assess corrosivity
- COMP: Compaction test
- CONS: One-dimensional consolidation test
- LL: Liquid Limit, percent
- PI: Plasticity Index, percent
- SA: Sieve analysis (percent passing No. 200 Sieve)
- UC: Unconfined compressive strength test, Qu, in ksf
- WA: Wash sieve (percent passing No. 200 Sieve)

**MATERIAL GRAPHIC SYMBOLS**

- Asphaltic Concrete (AC)
- Lean CLAY, CLAY w/SAND, SANDY CLAY (CL)
- Portland Cement Concrete
- AF
- Poorly graded GRAVEL (GP)
- SILT, SILT w/SAND, SANDY SILT (ML)
- Silty SAND (SM)
- Silty SAND to Sandy SILT (SM-ML)
- Poorly graded SAND (SP)
- Poorly graded SAND with Silt (SP-SM)

**TYPICAL SAMPLER GRAPHIC SYMBOLS**

- Auger sampler
- Bulk Sample
- 3-inch-OD California w/ brass rings
- CME Sampler
- Grab Sample
- 2.5-inch-OD Modified California w/ brass liners
- Pitcher Sample

**OTHER GRAPHIC SYMBOLS**

- 2-inch-OD unlined split spoon (SPT)
- Shelby Tube (Thin-walled, fixed head)
- Water level (at time of drilling, ATD)
- Water level (after walling)
- Minor change in material properties within a stratum
- Inferred/gradational contact between strata
- Queried contact between strata

**GENERAL NOTES**

- 1: Soil classifications are based on the Unified Soil Classification System. Descriptions and stratum lines are interpretive, and actual lithologic changes may be gradual. Field descriptions may have been modified to reflect results of lab tests.
- 2: Descriptions on these logs apply only at the specific boring locations and at the time the borings were advanced. They are not warranted to be representative of subsurface conditions at other locations or times.

Project Name: Arnold's/Former Texaco Service Station No. 211577

Project Number: 2017-015C

Client: Vibrant Cities



Boring Log Key

Sheet 1 of 1

PID Reading, ppm	Sample ID	Sample Type	% Recovery	GW Depth	Depth (feet)	MATERIAL DESCRIPTION	Graphic Log
1	2	3	4	5	6	7	8

**COLUMN DESCRIPTIONS**

- 1** PID Reading, ppm: The reading from a photo-ionization detector, in parts per million.
- 2** Sample ID: Sample identification number.
- 3** Sample Type: Type of soil sample collected at the depth interval shown.
- 4** % Recovery: % Recoverysquare foot.
- 5** GW Depth: Groundwater depth in feet below the ground surface.
- 6** Depth (feet): Depth in feet below the ground surface.
- 7** MATERIAL DESCRIPTION: Description of material encountered. May include consistency, moisture, color, and other descriptive text.
- 8** Graphic Log: Graphic depiction of the subsurface material encountered.

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- COMP: Compaction test
- CONS: One-dimensional consolidation test
- LL: Liquid Limit, percent
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- SA: Sieve analysis (percent passing No. 200 Sieve)
- UC: Unconfined compressive strength test, Qu, in ksf
- WA: Wash sieve (percent passing No. 200 Sieve)

**MATERIAL GRAPHIC SYMBOLS**

- Asphaltic Concrete (AC)
- Portland Cement Concrete
- Silty SAND (SM)

**TYPICAL SAMPLER GRAPHIC SYMBOLS**

- Auger sampler
- Bulk Sample
- 3-inch-OD California w/ brass rings
- CME Sampler
- Grab Sample
- 2.5-inch-OD Modified California w/ brass liners
- Pitcher Sample

- 2-inch-OD unlined split spoon (SPT)
- Shelby Tube (Thin-walled, fixed head)

**OTHER GRAPHIC SYMBOLS**

- Water level (at time of drilling, ATD)
- Water level (after waiting)
- Minor change in material properties within a stratum
- Inferred/gradational contact between strata
- Queried contact between strata

**GENERAL NOTES**

- 1: Soil classifications are based on the Unified Soil Classification System. Descriptions and stratum lines are interpretive, and actual lithologic changes may be gradual. Field descriptions may have been modified to reflect results of lab tests.
- 2: Descriptions on these logs apply only at the specific boring locations and at the time the borings were advanced. They are not warranted to be representative of subsurface conditions at other locations or times.

Project Name: **Arnold's/Former Texaco Service Station No. 211577**

Project Number: **2017-015D**

Client: **Vibrant Cities**



Test Probe/Well No.: **SSI-W1**

Sheet 1 of 1

Date(s) Drilled: <b>12/02/17</b>	Logged By: <b>LC</b>	Surface Conditions: <b>Concrete</b>
Drilling Method(s): <b>Direct Push</b>	Drill Bit Size/Type: <b>3.25" Diameter</b>	Total Depth of Borehole: <b>21 feet bgs</b>
Drill Rig Type: <b>Geoprobe</b>	Drilling Contractor: <b>RGI</b>	Approximate Surface Elevation (feet amsl): <b>115'</b>
Groundwater Level: <b>10.75' on 12/06/17</b>	Sampling Method(s): <b>Continuous</b>	Hammer Data : <b>n/a</b>
Borehole Backfill: <b>Bentonite</b>	Location: <b>631 Queen Anne Avenue North, Seattle, Washington 98109</b>	

Elevation (feet)	Depth (feet)	Sample Type	Sample ID	Sampling Resistance, blows/ft	PID Reading, ppm	Recovery (%)	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Well Log	REMARKS AND OTHER TESTS
0	0						Concrete		Concrete		Concrete 0 - 1
							SM		Brown, silty SAND to SAND with some silt, medium dense, damp (fill)		Blank 1.5" PVC 0 - 10
							ML		Gray, SILT with trace sand and gravel, stiff, damp		Bentonite 1 - 3
	6.5		SS1-W1-8		0.0	50%	SP-SM		Light brown to blue-gray, SAND with some silt and trace gravel to silty SAND with some gravel, dense, moist to wet, hydrocarbon odor		Prepack Slotted 1.5" PVC 10 - 20
	14.5		SS1-W1-15		0.1	95%					
	18.5		SSW-W1-16		0.0	90%	CL		Light brown to blue-gray, silty CLAY with some gravel and trace sand, very stiff, damp		
	20.5		SS1-W1-21		0.0	100%			No gravel or sand		
	21								Boring terminated 21 feet bgs		

Project Name: **Arnold's/Former Texaco Service Station No. 211577**

Project Number: **2017-015D**

Client: **Vibrant Cities**



Test Probe/Well No.: **SSI-W2**

Sheet 1 of 1

Date(s) Drilled: <b>12/02/17</b>	Logged By: <b>LC</b>	Surface Conditions: <b>Concrete</b>
Drilling Method(s): <b>Direct Push</b>	Drill Bit Size/Type: <b>3.25" Diameter</b>	Total Depth of Borehole: <b>22 feet bgs</b>
Drill Rig Type: <b>Geoprobe</b>	Drilling Contractor: <b>RGI</b>	Approximate Surface Elevation (feet amsl): <b>114'</b>
Groundwater Level: <b>13.65' on 12/06/17</b>	Sampling Method(s): <b>Continuous</b>	Hammer Data : <b>n/a</b>
Borehole Backfill: <b>Bentonite</b>	Location: <b>631 Queen Anne Avenue North, Seattle, Washington 98109</b>	

Elevation (feet)	Depth (feet)	Sample Type	Sample ID	Sampling Resistance, blows/ft	PID Reading, ppm	Recovery (%)	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Well Log	REMARKS AND OTHER TESTS
0							Concrete		Concrete		Concrete 0 - 1
							SM		Brown, silty SAND to SAND with some silt, medium dense, damp (fill)		Blank 1.5" PVC 0 - 12
							ML		Black to brown, sandy SILT with trace gravel, very stiff, damp		Bentonite 1 - 3
	5						SM		Light brown to gray, SAND with some silt, soft to medium dense, wet, hydrocarbon odor		
	8		SS1-W2-9		0.0	70%			Trace gravel and silt 8' - 10'		
	11						ML		Sandy SILT and CLAY, stiff		
	12		SS1-W2-12.5		51.8	100%					Prepack Slotted 1.5" PVC 12 - 22
	14						SM		Light brown to gray, SAND with some silt, soft to medium dense, wet, hydrocarbon odor		
	16		SSW-W2-16		0.0	100%			Trace silt		
	17								Silty with trace gravel		
	19		SS1-W2-19.5		0.0	100%	CL		Light brown to gray, silty CLAY with trace sand, very stiff, wet		
	22								Boring terminated 22 feet bgs		

Project Name: Arnold's/Former Texaco Service Station No. 211577

Project Number: 2017-015D

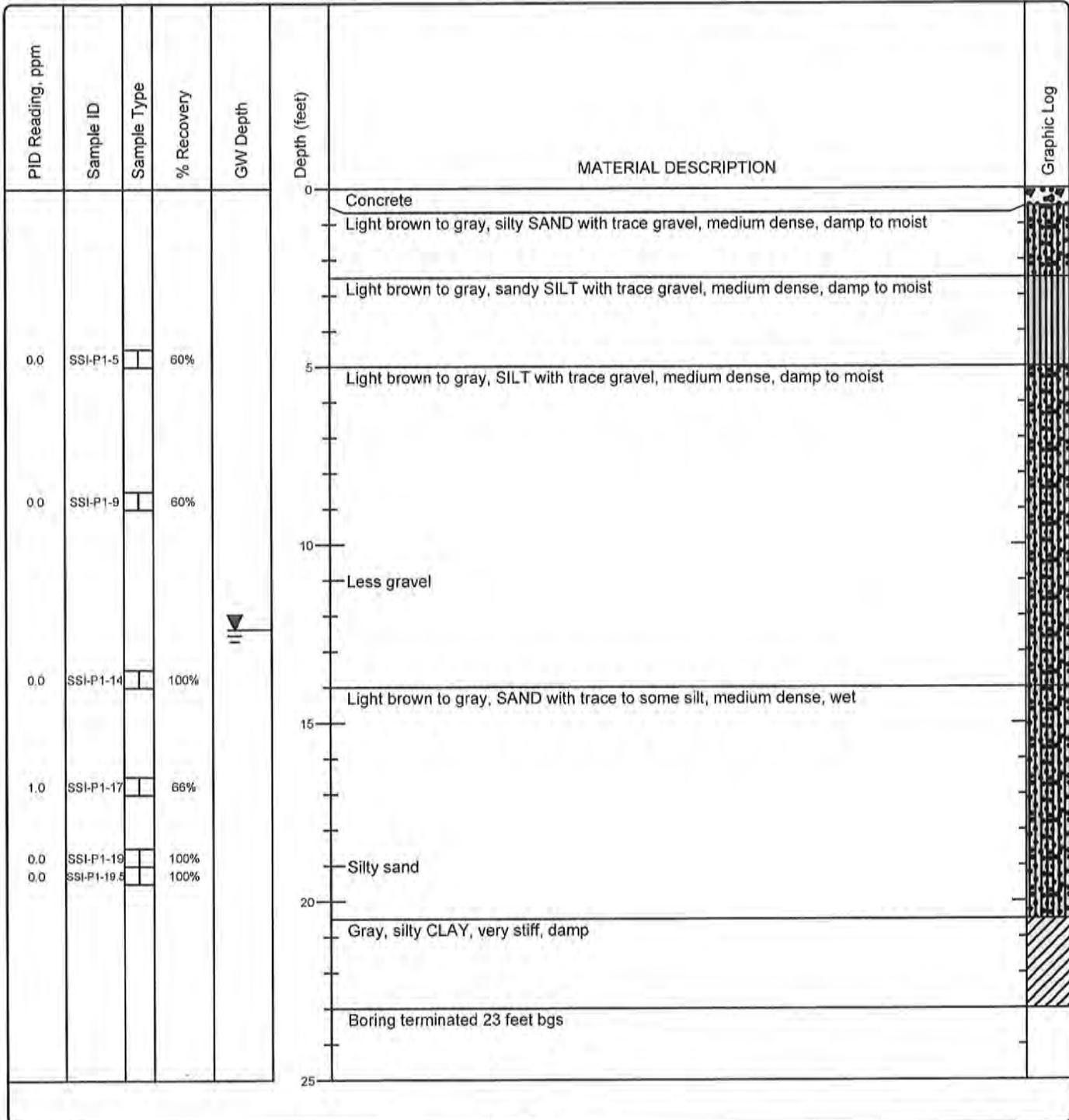
Client: Vibrant Cities



Test Probe No.: SSI-P1

Sheet 1 of 1

Date(s) Drilled: 12/02/17	Logged By: LC	Surface Conditions: Concrete
Drilling Method(s): Direct Push	Drill Bit Size/Type: 3.25" Diameter	Total Depth of Borehole: 23 feet bgs
Drill Rig Type: Geoprobe	Drilling Contractor: RGI	Approximate Surface Elevation: 114.5'
Groundwater Level: 12.37' on 12/3	Sampling Method(s): Continuous	Hammer Data : n/a
Borehole Backfill: Bentonite	Location: 631 Queen Anne Avenue North, Seattle, Washington 98109	



Project Name: Arnold's/Former Texaco Service Station No. 211577

Project Number: 2017-015D

Client: Vibrant Cities



Test Probe No.: SSI-P2

Sheet 1 of 1

Date(s) Drilled: 12/02/17	Logged By: LC	Surface Conditions: Concrete
Drilling Method(s): Direct Push	Drill Bit Size/Type: 3.25" Diameter	Total Depth of Borehole: 22 feet bgs
Drill Rig Type: Geoprobe	Drilling Contractor: RGI	Approximate Surface Elevation: 114
Groundwater Level: 19.17' on 12/2	Sampling Method(s): Continuous	Hammer Data : n/a
Borehole Backfill: Bentonite	Location: 631 Queen Anne Avenue North, Seattle, Washington 98109	

PID Reading, ppm	Sample ID	Sample Type	% Recovery	GW Depth	Depth (feet)	MATERIAL DESCRIPTION	Graphic Log
					0	Concrete	
					0	Light brown to gray, silty SAND with trace gravel and some silt, medium dense, damp, hydrocarbon odor	
0.0	SSI-P2-7.5		50%				
						Light brown to gray, gravelly SAND with some silt, medium dense, damp	
0.0	SSI-P2-10		75%		10	Wet, loose	
0.0	SSI-P2-15		100%		15	Light brown/black, medium to coarse SAND, medium dense, wet, hydrocarbon odor	
0.0	SSI-P2-15.5		100%			Light brown, SILT with trace sand, very stiff, damp, hydrocarbon odor	
0.0	SSI-P2-18		100%			Gray, silty CLAY, very stiff, damp	
						Boring terminated 22 feet bgs	
					25		

Project Name: Arnold's/Former Texaco Service Station No. 211577

Project Number: 2017-015D

Client: Vibrant Cities



Test Probe No.: SSI-P3

Sheet 1 of 2

Date(s) Drilled: 12/04/17	Logged By: LC	Surface Conditions: Asphalt
Drilling Method(s): Direct Push	Drill Bit Size/Type: 3.25" Diameter	Total Depth of Borehole: 35 feet bgs
Drill Rig Type: Geoprobe	Drilling Contractor: RGI	Approximate Surface Elevation: 113.5'
Groundwater Level: Not measured	Sampling Method(s): Continuous	Hammer Data : n/a
Borehole Backfill: Bentonite	Location: 631 Queen Anne Avenue North, Seattle, Washington 98109	

PID Reading, ppm	Sample ID	Sample Type	% Recovery	GW Depth	Depth (feet)	MATERIAL DESCRIPTION	Graphic Log
					0	Asphalt	
						Fill	
0.1	SSI-P3-5		60%			Light brown to gray, silty SAND to sandy SILT with some gravel, dense, damp, hydrocarbon odor	
					5	Light brown to gray, silty SAND to SAND with trace silt and gravel, dense, damp, hydrocarbon odor	
0.1	SSI-P3-10		80%				
2.3	SSI-P3-12		100%			Light brown to gray, SAND with trace silt and gravel, soft, wet, hydrocarbon odor	
					15		
0.1	SSI-P3-17		100%			Less gravel	
					20	Some gravel	
69.7	SSI-P3-22		90%			Slight sheen potentially related to groundwater contamination	
					25		

Project Name: Arnold's/Former Texaco Service Station No. 211577

Project Number: 2017-015D

Client: Vibrant Cities



Test Probe No.: SSI-P3

Sheet 2 of 2

PID Reading, ppm	Sample ID	Sample Type	% Recovery	GW Depth	Depth (feet)	MATERIAL DESCRIPTION	Graphic Log
0.1	SSI-P3-27	□	100%		25		
						Gray, CLAY with trace sand, stiff, damp	
0.1	SSI-P3-31	□	100%		30		
						Very stiff, no odor	
0.1	SSI-P3-34	□	100%				
0.1	SSI-P3-35	□	100%		35		
						Refusal at 35 feet bgs	
					40		
					45		
					50		
					55		
					60		

Project Name: Arnold's/Former Texaco Service Station No. 211577

Project Number: 2017-015D

Client: Vibrant Cities



Test Probe No.: SSI-P4

Sheet 1 of 2

Date(s) Drilled: <b>12/04/17</b>	Logged By: <b>LC</b>	Surface Conditions: <b>Asphalt</b>
Drilling Method(s): <b>Direct Push</b>	Drill Bit Size/Type: <b>3.25" Diameter</b>	Total Depth of Borehole: <b>37 feet bgs</b>
Drill Rig Type: <b>Geoprobe</b>	Drilling Contractor: <b>RGI</b>	Approximate Surface Elevation: <b>113'</b>
Groundwater Level: <b>Not measured</b>	Sampling Method(s): <b>Continuous</b>	Hammer Data: <b>n/a</b>
Borehole Backfill: <b>Bentonite</b>	Location: <b>631 Queen Anne Avenue North, Seattle, Washington 98109</b>	

PID Reading, ppm	Sample ID	Sample Type	% Recovery	GW Depth	Depth (feet)	MATERIAL DESCRIPTION	Graphic Log
					0	Asphalt	
						Light to medium brown/black, sandy SILT, medium stiff, damp, hydrocarbon odor	
						SAND	
						Light to medium brown/black, sandy SILT, medium stiff, damp, hydrocarbon odor	
0.0	SSI-P4-5		60%		5	Light brown to black, silty SAND, medium dense, damp, odor	
						Gravelly, asphaltic lens	
0.0	SSI-P4-7		100%			Light brown to black, silty SAND, medium dense, damp, odor	
0.0	SSI-P4-7.5		66%			Light brown to brick red to black, sandy SILT, medium stiff, damp to moist	
						Light brown, SAND with some silt and trace sand, medium dense, damp, odor	
0.0	SSI-P4-10		66%		10	Light brown to gray, sandy SILT to silty SAND with trace gravel, medium stiff, dense, no odor	
0.0	SSI-P4-11		50%			Light brown to dark gray, SAND with trace to some silt, loose to medium dense, wet, hydrocarbon odor	
3.4	SSI-P4-14		100%		15	Trace gravel	
19	SSI-P4-17		100%			Strong sheen 18' to 23' bgs. Hydrocarbon odor to 28' bgs	
0.2	SSI-P4-18		100%				
17.5	SSI-P4-19		100%				
27.4	SSI-P4-22		100%		25		

Project Name: Arnold's/Former Texaco Service Station No. 211577

Project Number: 2017-015D

Client: Vibrant Cities



Test Probe No.: SSI-P4

Sheet 2 of 2

PID Reading, ppm	Sample ID	Sample Type	% Recovery	GW Depth	Depth (feet)	MATERIAL DESCRIPTION	Graphic Log
0.1	SSI-P4-27		100%		25		
						Light brown, sandy SILT, medium stiff, damp, slight hydrocarbon odor	
0.1	SSI-P4-30		100%		30	Gray, CLAY with trace to no sand, very stiff, damp, no odor	
0.1	SSI-P4-35		100%		35		
0.1	SSI-P4-37		100%		37	Refusal at 37 feet bgs	
					40		
					45		
					50		
					55		
					60		

Project Name: Arnold's/Former Texaco Service Station No. 211577

Project Number: 2017-015D

Client: Vibrant Cities



Test Probe No.: SSI-P5

Sheet 1 of 2

Date(s) Drilled: 12/04/17	Logged By: LC	Surface Conditions: Asphalt
Drilling Method(s): Direct Push	Drill Bit Size/Type: 3.25" Diameter	Total Depth of Borehole: 31 feet bgs
Drill Rig Type: Geoprobe	Drilling Contractor: RGI	Approximate Surface Elevation: 113'
Groundwater Level: Not encountered	Sampling Method(s): Continuous	Hammer Data : n/a
Borehole Backfill: Bentonite	Location: 631 Queen Anne Avenue North, Seattle, Washington 98109	

PID Reading, ppm	Sample ID	Sample Type	% Recovery	GW Depth	Depth (feet)	MATERIAL DESCRIPTION	Graphic Log
					0	Asphalt	
0.1	SSI-P5-8		50%			Light to medium brown/gray to black, silty SAND with some gravel, medium dense, damp (fill)	
815	SSI-P5-12.5		95%		10	Light brown to gray, medium SAND with trace silt and gravel, medium dense, moist, strong hydrocarbon odor, strong sheen 10' to 20' bgs	
195	SSI-P5-17		100%		15	Loose, damp	
145	SSI-P5-20		100%		20		
5.2	SSI-P5-23		100%		25	Gray, CLAY, very stiff, damp, no odor	

Project Name: Arnold's/Former Texaco Service Station No. 211577

Project Number: 2017-015D

Client: Vibrant Cities



Test Probe No.: SSI-P5

Sheet 2 of 2

PID Reading, ppm	Sample ID	Sample Type	% Recovery	GW Depth	Depth (feet)	MATERIAL DESCRIPTION	Graphic Log
0.2	SSI-P5-28		100%		25	Gray, CLAY, very stiff, damp, no odor	
0.1	SSI-P5-31				30	Refusal at 31 feet bgs	
					35		
					40		
					45		
					50		
					55		
					60		



Well Completion	PID (PPM)	Sample ID	Blow Count	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
Concrete						0		GRAY GRAVEL (GP), dry, fine to coarse, angular, few fine to coarse sand, few fines, (FILL) (Hand cleared to 1 foot)
Sch. 40 PVC	9.9		6	7		2		ORANGE BROWN SAND WITH GRAVEL (SP), dry, loose, fine to medium, some fine to coarse subangular to rounded gravel (up to 1-inch diameter), few fines
Bentonite Chips	7.7	OTBMW-1-5	3	3		4		MOTTLED DARK BROWN AND BROWN SANDY SILT (ML), moist, loose, some fine to coarse sand, low plasticity, trace organic material
			2	14		6		LIGHT BROWN SAND WITH SILT (SP), moist, loose, fine to medium, few fines
	4.2	OTBMW-1-8.5	3	4		8		at 8 feet: 4-inch layer GRAY SILT (ML), few fine sand, abundant orange staining, medium to high plasticity at 8.5 feet: medium dense, fine sand
#12-20 Sand Filter Pack	0.7		2	13		10		BROWN SILTY SAND (SM), moist, medium dense, fine to medium, little fines, occasional silt lenses up to 1/8-inch thick
	1.4	OTBMW-1-12.5	6	11		12		
0.010-inch Sch. 40 PVC Screen			10	14		14		
	2.8	OTBMW-1-16	9	13		16		BROWN SAND WITH SILT (SP), moist, medium dense, fine, few fines, occasional thin silt lenses
	0.0		6	14		18		BROWN SAND (SP), wet, dense, fine to medium, few fines
End Cap	0.0	OTBMW-1-20	14	20		20		at 20 feet: medium dense
			11	18		22		Bottom of Boring at 21.5 feet.
			12	17		24		Well Completion Details: Well constructed with 2-inch Schedule 40 PVC pipe and a 0.010-inch machine slotted screen with #12-20 Pioneer Sand.  Total Well Depth: 20.5 feet Well Sump: 20.3 to 20.5 feet

Project: Queen Anne Arms  
Project Number: 1006.024.01.002  
Site Location: Seattle, WA  
Logged By: C. DeBoer  
Ecology I.D. BLT-961

Total Drilled Depth: 21.5  
Diameter of Boring: 8-inches  
Drill Date: 8/6/19  
Drilled By: Holocene Drilling, Inc.  
Drill Method: Hollow Stem Auger with 140lb/30" hammer & SPT



Well Completion	PID (PPM)	Sample ID	Blow Count	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
						26		Well Sump: 20.5 to 20.5 feet Well Screen: 10.3 to 20.3 feet Well Riser: 0.5 to 10.3 feet Filter Pack: 8 to 21.5 feet Well Seal: 2 to 8 feet (hydrated bentonite) Surface Seal: 0 to 2 feet (concrete) Well Monument: 8-inch flush mount monument
						28		
						30		
						32		
						34		
						36		
						38		
						40		
						42		
						44		
						46		
						48		
						50		

Project: Queen Anne Arms	Total Drilled Depth: 21.5
Project Number: 1006.024.01.002	Diameter of Boring: 8-inches
Site Location: Seattle, WA	Drill Date: 8/6/19
Logged By: C. DeBoer	Drilled By: Holocene Drilling, Inc.
Ecology I.D. BLT-961	Drill Method: Hollow Stem Auger with 140lb/30" hammer & SPT



Well Completion	PID (PPM)	Sample ID	Blow Count	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
						0		GRAY GRAVEL (GP), dry, coarse, angular, few fine to coarse sand, few fines (FILL) (Hand cleared to 1 foot)
						2		BROWN SILT WITH SAND (SM), dry, firm, little fine to medium sand, few subangular coarse gravel, low plasticity
	2		9	2		4		at 5.5 feet: 3-inch layer of DARK BROWN SANDY SILT (ML), moist, some medium sand, low plasticity, little organic material
			6			6		BROWN SILTY SAND (SM), moist, medium dense, fine to medium, little fines
	6.6	OTBMW-2-6	6			8		
			3			10		
	12.2	OTBMW-2-7.5	6	18		12		
			11			14		
			16			16		
	2.7	OTBMW-2-10	4	11		18		
			14			20		
			16			22		
	3.5		12	13		24		
			15			26		
			18			28		
1.6	OTBMW-2-15	10	16		30			
		15			32			
		15			34			
1.4		9	18		36			
		16			38			
		20			40			
		18			42			
		16			44			
		9	18		46			
		14			48			
		16			50			
		9	18		52			
		14			54			
		16			56			
		9	18		58			
		14			60			
		16			62			
		9	18		64			
		14			66			
		16			68			
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		16			74			
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		16			98			
		9	18		100			
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		9	18		418			
		14			420			
		16			422			
		9	18		424			
		14			426			
		16			428			
		9	18		430			
		14			432			
		16						



Well Completion	PID (PPM)	Sample ID	Blow Count	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
						26		Well Sump: 19.6 to 19.6 feet Well Screen: 9.6 to 19.6 feet Filter Pack: 21.5 to 8 feet Well Seal: 8 to 2.5 feet (hydrated bentonite) Surface Seal: 2.5 to 0 feet (concrete) Well Monument: 8-inch flush mount monument
						28		
						30		
						32		
						34		
						36		
						38		
						40		
						42		
						44		
						46		
						48		
						50		

Project: Queen Anne Arms Project Number: 1006.024.01.002 Site Location: Seattle, WA Logged By: C. DeBoer Ecology I.D. BLT-960	Total Drilled Depth: 21.5 Diameter of Boring: 8-inches Drill Date: 8/6/19 Drilled By: Holocene Drilling, Inc. Drill Method: Hollow Stem Auger with 140lb/30" hammer & SPT
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Well Completion	PID (PPM)	Sample ID	Blow Count	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description	
	0.1	QAAMW-1-26	24 44 24	18	24-26	26		At 30 feet: orange staining	
	1.4	QAAMW-1-28	18 17 24	18	28-30	28		GRAY SILT (ML), moist, very hard, trace fine sand, low plasticity, orange staining in upper 3-inches of sample	
	0.6 0.6	QAAMW-1-30	20 50/5	11	30-32	30		Bottom of Boring at 31.5 feet.	
	<p>Well Completion Details: Well constructed with 2-inch Schedule 40 PVC pipe and a 0.010-inch machine slotted screen with #12-20 Pioneer Sand.</p>								
	<p>Total Well Depth: 30.4 feet Well Sump: 30.2 to 30.4 feet Well Screen: 15.2 to 30.2 feet Well Riser: 0.2 to 15.2 feet Filter Pack: 13 to 31.5 feet Well Seal: 2 to 13 feet (hydrated bentonite chips) Surface Seal: 0 to 2 feet (concrete) Well Monument: 8-inch flush mount monument</p>								
	32								
	34								
	36								
	38								
	40								
42									
44									
46									
48									
50									

Project: Queen Anne Arms  
Project Number: 1006.024.01.002  
Site Location: Seattle, WA  
Logged By: C. DeBoer  
Ecology I.D. BLT-962

Total Drilled Depth: 31.5  
Diameter of Boring: 8-inches  
Drill Date: 8/7/19  
Drilled By: Holocene Drilling, Inc.  
Drill Method: Hollow Stem Auger with 140lb/30" hammer & SPT



Boring Completion	PID (PPM)	Sample ID	Blow Count	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description	
Gravel	3.1	SB-1-2.5	2	10	2-3	0	[Symbol: Dotted pattern]	GRAY GRAVEL (GP), dry, fine to coarse, angular, few fine to coarse sand, few fines (FILL)	
			3			2		ORANGE BROWN SILTY SAND (SM), moist, loose, fine to medium, little fines, few fine rounded gravel	
Bentonite Chips	2.7	SB-1-10.5	3	11	3-5	4	[Symbol: Dotted pattern]	DARK BROWN SANDY SILT (ML), moist, firm, some medium sand, low to medium plasticity	
			5			6		BROWN SILTY SAND WITH GRAVEL (SM), moist, medium dense, fine to medium, little fines, some coarse subrounded gravel (up to 1.5-inch diameter), trace coarse sand	
			7			8		at 7.5 feet: crushed rock in sampler	
			13			8		LIGHT BROWN SILTY SAND (SM), dry, dense, fine, little fines	
			43			10		at 10 feet: some fines	
			23			12		LIGHT BROWN SANDY SILT (ML), dry, soft, some fine sand, low plasticity	
			15			12		at 11 feet: 3-inch layer of yellow brown sand with silt	
			11			14		LIGHT BROWN SAND WITH SILT (SP), moist to dry, dense, fine to medium, few fines	
			12			16		LIGHT BROWN SAND (SP), moist to dry, very dense, fine to medium, few fines	
			18			18		at 18.5 feet: sand coarsens	
SB-1-13.5	0.0	SB-1-13.5	11	17	11-12	[Symbol: Dotted pattern]	[Symbol: Dotted pattern]	LIGHT BROWN SAND WITH SILT (SP), moist to dry, dense, fine to medium, few fines	
			24					14	LIGHT BROWN SAND WITH SILT (SP), moist, dense, fine to medium, few fines, abundant orange-red staining in up to 3-inch thick intervals
			25					14	LIGHT BROWN SAND WITH SILT (SP), moist, dense, fine to medium, few fines, abundant orange-red staining in up to 3-inch thick intervals
SB-1-18	0.0	SB-1-18	16	18	16-18	[Symbol: Dotted pattern]	[Symbol: Dotted pattern]	LIGHT BROWN SAND (SP), moist to dry, very dense, fine to medium, few fines	
			22					18	at 18.5 feet: sand coarsens
			24					18	LIGHT BROWN SAND WITH SILT (SP), moist, dense, fine to medium, few fines, abundant orange-red staining in up to 3-inch thick intervals
SB-1-20	0.0	SB-1-20	20	18	20-22	[Symbol: Dotted pattern]	[Symbol: Dotted pattern]	LIGHT BROWN SAND WITH SILT (SP), moist, dense, fine to medium, few fines, abundant orange-red staining in up to 3-inch thick intervals	
			33					20	LIGHT BROWN SAND WITH SILT (SP), moist, dense, fine to medium, few fines, abundant orange-red staining in up to 3-inch thick intervals
			37					20	LIGHT BROWN SILTY SAND (SM), moist, dense, fine, little fines
Bottom of Boring at 24 feet Boring backfilled with hydrated bentonite chips									
22									
24									

Project: Queen Anne Arms	Total Drilled Depth: 21.5
Project Number: 1006.024.01.002	Diameter of Boring: 8-inches
Site Location: Seattle, WA	Drill Date: 8/6/2019
Logged By: C. DeBoer	Drilled By: Holocene Drilling, Inc.
Notes: SPT with 140 lb/30-inch hammer	Drill Method: Hollow Stem Auger



Boring Completion	PID (PPM)	Sample ID	Blow Count	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
						0		GRAY GRAVEL (GW), dry, loose, angular, fine to coarse, few fines (FILL)
						2		
	1.7		9	8.5		4		LIGHT BROWN SAND WITH SILT AND GRAVEL (SP), dry, loose, fine to coarse, little angular gravel, few fines
			4			5		
			5			4		BROWN SILTY SAND (SM), dry, loose, fine to coarse, little fines, few gravel
			2			at 5 feet: few angular gravel		
	2.2	SB-2-5	1	6		6		DARK BROWN SILTY SAND (SM), moist, medium dense, some fines, few gravel, low plasticity
			2					
	0.3	SB-2-8	4	18		8		YELLOW BROWN SILTY SAND (SM), moist, medium dense, fine to medium, little fines
			12					
			15					
	0.0		4	15		10		GRAY SANDY CLAY (CL), moist, hard, some medium to coarse sand
			5					
			11					
	0.0	SB-2-13	10	11		12		BROWN SILTY SAND (SM), wet, dense, fine to medium, little fines
		12						
		18						
0.0	SB-2-15.5	12	13		at 15 feet: moist, fine to coarse, trace gravel			
		14						
		21						
0.0		22	18		18		DARK BROWN SAND WITH SILT (SP), dry, dense, fine to medium, few fines	
		39						
		50/6						
0.0	SB-2-20	13	18		at 20 feet: color yellow brown, medium dense			
		21						
		15						
						22		Bottom of Boring at 21.5 feet Boring backfilled with hydrated bentonite chips
						24		

Project: Queen Anne Arms  
 Project Number: 1006.024.01.002  
 Site Location: Seattle, WA  
 Logged By: H. Cohen  
 Notes: SPT with 140 lb/30-inch hammer

Total Drilled Depth: 21.5 feet  
 Diameter of Boring: 8-inches  
 Drill Date: 8/6/2019  
 Drilled By: Holocene Drilling, Inc.  
 Drill Method: Hollow Stem Auger



Boring Completion	PID (PPM)	Sample ID	Blow Count	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description	
	0.2					0		DARK BROWN SILTY SAND (SM), dry, loose, medium to coarse, little fines, few gravel	
						2		DARK BROWN SILTY SAND (SM), dry, loose, fine to coarse, some fines	
	0.2		3	18		4			
			3						
			3						
	0.1	SB-3-6	1	16		6		DARK BROWN SANDY SILT (ML), dry, soft, some sand, some clay content, orange mottling	
			2	3					
			2				8		at 7.5 feet: firm
	0.1		10	18					GRAY SAND WITH SILT (SP), dry, medium dense, fine to coarse, few fines, orange mottling
			12						
			5				10		at 10 feet: dark gray, moist
	0.1	SB-3-10.5	9	18					GRAY BROWN SILTY SAND (SM), moist, dense, fine to coarse, little fines
			12						
			11				12		at 12.5 feet: wet, trace rounded gravel
	0.1		15	18					
			17				14		
			10				16		at 15 feet: medium to coarse sand
	0.1	SB-3-15.5	14	18					
		15							
		10				18			
0.2	SB-3-18	21	16					GRAY SANDY SILT (ML), moist, very hard, some fine to medium sand, orange mottling	
		23							
		15				20		LIGHT BROWN SILTY SAND (SM), wet, dense, fine to coarse, little fines	
0.1	SB-3-20.5	21	18					LIGHT GRAY SANDY SILT (ML), moist, very hard, some fine sand	
		19							
						22		Bottom of Boring at 21.5 feet Boring backfilled with hydrated bentonite chips	
						24			

Project: Queen Anne Arms	Total Drilled Depth: 21.5 feet
Project Number: 1006.024.01.002	Diameter of Boring: 8-inches
Site Location: Seattle, WA	Drill Date: 8/7/19
Logged By: H. Cohen	Drilled By: Holocene Drilling, Inc.
Notes: SPT with 140 lb/30-inch hammer	Drill Method: Hollow Stem Auger



Boring Completion	PID (PPM)	Sample ID	Blow Count	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description	
						0		Asphalt	
						2		DARK BROWN SILTY SAND (SM), moist, very dense, medium to coarse, little fines, few subrounded gravel	
	0.2		7 25 37	5		4			
	0.1	SB-4-5.5	9 5 5	10		6		GRAY SILTY SAND (SM), moist, medium dense, fine to coarse, some fines at 5.5 feet: 4-inch layer of gray sandy silt	
	0.1		2 5 10	18		8		GRAY SAND WITH SILT (SP), moist, medium dense, medium to coarse, few fines, orange mottling throughout	
	0.0	SB-4-11	4 9 11	18		10		BROWN SILTY SAND (SM), moist, medium dense, medium to coarse, little fines	
	0.0	SB-4-13	9 9 10	18		14		at 12.5 feet: fine to coarse sand, fines content increases	
	0.3		10 17 17	18		16		LIGHT GRAY SILTY SAND (SM), wet, dense, fine to coarse, little fines	
	0.5	SB-4-18	11 20 26	18		18		at 17.5 feet: faint hydrocarbon-like odor	
	3.4	SB-4-20	16 22 30	18		20		at 20 feet: moderate hydrocarbon-like odor	
							22		at 22.5 feet: faint hydrocarbon-like odor
	2.6	SB-4-23	6 16 26	18		24		GRAYISH BROWN SILTY SAND (SM), wet, medium dense, fine to medium, little fines, no odor	
									Bottom of Boring at 24 feet Boring backfilled with hydrated bentonite chips

Project: Queen Anne Arms	Total Drilled Depth: 24 feet
Project Number: 1006.024.01.002	Diameter of Boring: 8-inches
Site Location: Seattle, WA	Drill Date: 8/7/2019
Logged By: H. Cohen	Drilled By: Holocene Drilling, Inc.
Notes: SPT with 140 lb/30-inch hammer	Drill Method: Hollow Stem Auger



Boring Completion	PID (PPM)	Sample ID	Blow Count	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
						0		Asphalt (2-inches thick)
						2		DARK BROWN SILTY SAND (SM), moist, loose, fine to medium, little fines, few fine subangular to subrounded gravel
	0.1		2	10		3		
			3			4		
			2			6		
	0.1	SB-5-5.5	2	17		6		LIGHT BROWN SILT (ML), moist, soft, few fine sand, low to medium plasticity, abundant orange staining
			2			8		
			3			10		
	0.1		4	17		8		LIGHT BROWN SILTY SAND (SM), moist, loose, fine to medium, little fines, frequent staining
			10			10		
			11			12		
	0.1	SB-5-10.5	5	14		10		BROWN SAND WITH SILT (SP), moist to wet, medium dense, fine to medium, few fines
			11			12		
			12			14		
	0.2		10	18		12		at 12.5 feet: wet
			16			14		
			19			16		
	0.9	SB-5-15.5	10	18		16		BROWN SILTY SAND (SM), wet, dense, fine, little fines, faint hydrocarbon-like odor
		15			18			
		19			20			
28.0	SB-5-18	15	18		18		at 17.5 feet: color change to gray	
		20			20			
		25			22			
16.7	SB-5-20.5	12	18		20		at 20 feet: 6-inch thick silt layer	
		12			22			
		18			24			
4.7		15	18		22		at 22.5 feet: no odor	
		22						
		38						
						24		Bottom of Boring at 24 feet Boring backfilled with hydrated bentonite chips

Project: Queen Anne Arms  
 Project Number: 1006.024.01.002  
 Site Location: Seattle, WA  
 Logged By: C. DeBoer  
 Notes: SPT with 140 lb/30-inch hammer

Total Drilled Depth: 24 feet  
 Diameter of Boring: 8-inches  
 Drill Date: 8/7/19  
 Drilled By: Holocene Drilling, Inc.  
 Drill Method: Hollow Stem Auger

# APPENDIX E

Laboratory Reports, Chain of Custody Documents, and Data  
Validation Reports



August 27, 2020

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

## Arcadis - Chevron - WA

Sample Delivery Group: L1250218  
Samples Received: 08/13/2020  
Project Number: 30045360  
Description: 211577  
Site: 211577  
Report To: Ada Hamilton  
1100 Olive Way  
Suite 800  
Seattle, WA 98101

Entire Report Reviewed By:

*Brian Ford*

Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



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# SAMPLE SUMMARY



## MW-4\_200812 L1250218-01 GW

Collected by DSG,TB,BP,JV,KZ      Collected date/time 08/12/20 10:15      Received date/time 08/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1526880	1	08/19/20 15:48	08/20/20 03:08	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1526885	1	08/19/20 11:45	08/19/20 17:36	JDG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1526547	1	08/16/20 01:02	08/16/20 01:02	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1526159	1	08/15/20 08:27	08/15/20 08:27	JCP	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1526687	1	08/16/20 06:07	08/17/20 10:45	LEL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1526939	1	08/17/20 04:55	08/18/20 09:00	CAG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1526940	1	08/17/20 04:56	08/20/20 02:02	CAG	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## MW-5\_200812 L1250218-02 GW

Collected by DSG,TB,BP,JV,KZ      Collected date/time 08/12/20 11:45      Received date/time 08/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1526880	1	08/19/20 15:48	08/20/20 03:11	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1526885	1	08/19/20 11:45	08/19/20 17:38	JDG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1526547	1	08/16/20 01:25	08/16/20 01:25	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1526159	1	08/15/20 08:48	08/15/20 08:48	JCP	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1526687	1	08/16/20 06:07	08/17/20 11:33	LEL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1526939	1	08/17/20 04:55	08/19/20 23:59	CAG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1526940	1	08/17/20 04:56	08/20/20 08:17	CAG	Mt. Juliet, TN

## MW-7\_200812 L1250218-03 GW

Collected by DSG,TB,BP,JV,KZ      Collected date/time 08/12/20 14:30      Received date/time 08/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1526880	1	08/19/20 15:48	08/20/20 03:14	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1526885	1	08/19/20 11:45	08/19/20 17:41	JDG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1526547	1	08/16/20 01:48	08/16/20 01:48	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1526159	1	08/15/20 09:08	08/15/20 09:08	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1528204	10	08/19/20 06:23	08/19/20 06:23	DWR	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1526687	1	08/16/20 06:07	08/17/20 11:45	LEL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1526939	1	08/17/20 04:55	08/20/20 00:19	CAG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1526940	1	08/17/20 04:56	08/20/20 08:37	CAG	Mt. Juliet, TN

## MW-16\_200812 L1250218-04 GW

Collected by DSG,TB,BP,JV,KZ      Collected date/time 08/12/20 12:00      Received date/time 08/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1526880	1	08/19/20 15:48	08/20/20 03:16	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1526885	1	08/19/20 11:45	08/19/20 17:44	JDG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1526547	1	08/16/20 02:11	08/16/20 02:11	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1526159	1	08/15/20 09:28	08/15/20 09:28	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1528204	1	08/19/20 06:04	08/19/20 06:04	DWR	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1526687	1	08/16/20 06:07	08/17/20 11:57	LEL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1526939	1	08/17/20 04:55	08/20/20 00:39	CAG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1526940	1	08/17/20 04:56	08/20/20 00:39	AEG	Mt. Juliet, TN

# SAMPLE SUMMARY

## MW-20\_200812 L1250218-05 GW

Collected by DSG,TB,BP,JV,KZ    Collected date/time 08/12/20 11:46    Received date/time 08/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1526880	1	08/19/20 15:48	08/20/20 03:19	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1526885	1	08/19/20 11:45	08/19/20 17:46	JDG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1526547	1	08/16/20 02:34	08/16/20 02:34	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1526159	1	08/15/20 09:49	08/15/20 09:49	JCP	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1526687	1	08/16/20 06:07	08/17/20 12:09	LEL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1526939	1	08/17/20 04:55	08/20/20 00:59	CAG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1526940	1	08/17/20 04:56	08/20/20 00:59	AEG	Mt. Juliet, TN

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## MW-25\_200812 L1250218-06 GW

Collected by DSG,TB,BP,JV,KZ    Collected date/time 08/12/20 13:50    Received date/time 08/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1526880	1	08/19/20 15:48	08/20/20 03:22	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1526885	1	08/19/20 11:45	08/19/20 17:49	JDG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1526547	1	08/16/20 02:57	08/16/20 02:57	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1526159	1	08/15/20 10:09	08/15/20 10:09	JCP	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1526687	1	08/16/20 06:07	08/17/20 12:21	LEL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1526939	1	08/17/20 04:55	08/18/20 11:11	DMG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1526940	1	08/17/20 04:56	08/20/20 04:07	CAG	Mt. Juliet, TN

## MW-26\_200812 L1250218-07 GW

Collected by DSG,TB,BP,JV,KZ    Collected date/time 08/12/20 10:12    Received date/time 08/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1526880	1	08/19/20 15:48	08/20/20 03:24	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1526885	1	08/19/20 11:45	08/19/20 17:52	JDG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1526547	1	08/16/20 03:20	08/16/20 03:20	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1526159	1	08/15/20 10:29	08/15/20 10:29	JCP	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1526687	1	08/16/20 06:07	08/17/20 12:33	LEL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1527433	1	08/19/20 06:33	08/24/20 10:36	CAG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1527434	1	08/19/20 06:34	08/24/20 05:13	CAG	Mt. Juliet, TN

## MW-33\_200812 L1250218-08 GW

Collected by DSG,TB,BP,JV,KZ    Collected date/time 08/12/20 14:45    Received date/time 08/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1526880	1	08/19/20 15:48	08/20/20 03:32	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1526885	1	08/19/20 11:45	08/19/20 18:00	JDG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1526547	1	08/16/20 03:43	08/16/20 03:43	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1526159	1	08/15/20 10:50	08/15/20 10:50	JCP	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1526687	1	08/16/20 06:07	08/17/20 12:45	LEL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1527433	1	08/19/20 06:33	08/24/20 10:56	CAG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1527434	1	08/19/20 06:34	08/24/20 05:33	CAG	Mt. Juliet, TN

## DPE-2\_200812 L1250218-09 GW

Collected by DSG,TB,BP,JV,KZ    Collected date/time 08/12/20 13:25    Received date/time 08/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1526880	1	08/19/20 15:48	08/20/20 03:35	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1526885	1	08/19/20 11:45	08/19/20 18:02	JDG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1526547	1	08/16/20 04:06	08/16/20 04:06	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1526159	1	08/15/20 11:10	08/15/20 11:10	JCP	Mt. Juliet, TN

# SAMPLE SUMMARY

## DPE-2\_200812 L1250218-09 GW

Collected by DSG,TB,BP,JV,KZ  
Collected date/time 08/12/20 13:25  
Received date/time 08/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
EDB / DBCP by Method 8011	WG1526687	1	08/16/20 06:07	08/17/20 13:09	LEL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1527433	1	08/19/20 06:33	08/24/20 09:36	CAG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1527434	1	08/19/20 06:34	08/24/20 05:53	CAG	Mt. Juliet, TN

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## DPE-9\_200812 L1250218-10 GW

Collected by DSG,TB,BP,JV,KZ  
Collected date/time 08/12/20 10:40  
Received date/time 08/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1526880	1	08/19/20 15:48	08/20/20 03:38	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1526885	1	08/19/20 11:45	08/19/20 18:05	JDG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1526547	1	08/16/20 04:29	08/16/20 04:29	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1526159	1	08/15/20 11:30	08/15/20 11:30	JCP	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1526687	1	08/16/20 06:07	08/17/20 13:21	LEL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1527433	1	08/19/20 06:33	08/24/20 11:17	CAG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1527434	1	08/19/20 06:34	08/24/20 06:13	CAG	Mt. Juliet, TN

## VP-4\_200812 L1250218-11 GW

Collected by DSG,TB,BP,JV,KZ  
Collected date/time 08/12/20 12:10  
Received date/time 08/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1526880	1	08/19/20 15:48	08/20/20 03:40	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1526885	1	08/19/20 11:45	08/19/20 18:08	JDG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1526980	1	08/16/20 17:00	08/16/20 17:00	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1526159	1	08/15/20 11:51	08/15/20 11:51	JCP	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1526687	1	08/16/20 06:07	08/17/20 13:33	LEL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1527433	1	08/19/20 06:33	08/24/20 09:56	CAG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1527434	1	08/19/20 06:34	08/24/20 06:33	CAG	Mt. Juliet, TN

## DUP-2\_200812 L1250218-12 GW

Collected by DSG,TB,BP,JV,KZ  
Collected date/time 08/12/20 00:00  
Received date/time 08/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1526880	1	08/19/20 15:48	08/20/20 03:43	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1526885	1	08/19/20 11:45	08/19/20 18:10	JDG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1526980	1	08/16/20 17:22	08/16/20 17:22	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1526159	1	08/15/20 12:11	08/15/20 12:11	JCP	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1526687	1	08/16/20 06:07	08/17/20 13:45	LEL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1527433	1	08/19/20 06:33	08/24/20 11:37	CAG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1527434	1	08/19/20 06:34	08/24/20 06:53	CAG	Mt. Juliet, TN

## RINSATE BLANK-2\_200812 L1250218-13 GW

Collected by DSG,TB,BP,JV,KZ  
Collected date/time 08/12/20 09:00  
Received date/time 08/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1526881	1	08/19/20 08:14	08/19/20 10:43	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1528295	1	08/19/20 17:15	08/19/20 23:51	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1526980	1	08/16/20 17:44	08/16/20 17:44	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1526159	1	08/15/20 12:31	08/15/20 12:31	JCP	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1526687	1	08/16/20 06:07	08/17/20 13:57	LEL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1527433	1	08/19/20 06:33	08/24/20 11:57	CAG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1527434	1	08/19/20 06:34	08/24/20 07:13	CAG	Mt. Juliet, TN

# SAMPLE SUMMARY



TRIP BLANK\_200812 L1250218-14 GW

Collected by DSG,TB,BP,JV,KZ  
 Collected date/time 08/12/20 00:00  
 Received date/time 08/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1526980	1	08/16/20 15:31	08/16/20 15:31	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1526159	1	08/15/20 08:07	08/15/20 08:07	JCP	Mt. Juliet, TN

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 17:36	<a href="#">WG1526885</a>
Lead,Dissolved	U		2.95	6.00	1	08/20/2020 03:08	<a href="#">WG1526880</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	550		31.6	100	1	08/16/2020 01:02	<a href="#">WG1526547</a>
(S) a,a,a-Trifluorotoluene(FID)	114			78.0-120		08/16/2020 01:02	<a href="#">WG1526547</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	4.11		0.0941	1.00	1	08/15/2020 08:27	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 08:27	<a href="#">WG1526159</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 08:27	<a href="#">WG1526159</a>
Naphthalene	U	JO	1.00	5.00	1	08/15/2020 08:27	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 08:27	<a href="#">WG1526159</a>
Toluene	0.324	J	0.278	1.00	1	08/15/2020 08:27	<a href="#">WG1526159</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 08:27	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 08:27	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 08:27	<a href="#">WG1526159</a>
Xylenes, Total	0.830	J	0.174	3.00	1	08/15/2020 08:27	<a href="#">WG1526159</a>
(S) Toluene-d8	105			80.0-120		08/15/2020 08:27	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	113			77.0-126		08/15/2020 08:27	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	95.2			70.0-130		08/15/2020 08:27	<a href="#">WG1526159</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 10:45	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	2940		66.7	200	1	08/18/2020 09:00	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	799		83.3	250	1	08/18/2020 09:00	<a href="#">WG1526939</a>
(S) o-Terphenyl	102			52.0-156		08/18/2020 09:00	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	906		66.7	200	1	08/20/2020 02:02	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	141	J	83.3	250	1	08/20/2020 02:02	<a href="#">WG1526940</a>
(S) o-Terphenyl	69.5			52.0-156		08/20/2020 02:02	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 17:38	<a href="#">WG1526885</a>
Lead,Dissolved	U		2.95	6.00	1	08/20/2020 03:11	<a href="#">WG1526880</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	174	<u>B</u>	31.6	100	1	08/16/2020 01:25	<a href="#">WG1526547</a>
(S) a,a,a-Trifluorotoluene(FID)	113			78.0-120		08/16/2020 01:25	<a href="#">WG1526547</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	0.252	<u>J</u>	0.0941	1.00	1	08/15/2020 08:48	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	124		0.126	1.00	1	08/15/2020 08:48	<a href="#">WG1526159</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 08:48	<a href="#">WG1526159</a>
Naphthalene	U	<u>JO</u>	1.00	5.00	1	08/15/2020 08:48	<a href="#">WG1526159</a>
Tetrachloroethene	11.0		0.300	1.00	1	08/15/2020 08:48	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 08:48	<a href="#">WG1526159</a>
Trichloroethene	35.3		0.190	1.00	1	08/15/2020 08:48	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 08:48	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 08:48	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 08:48	<a href="#">WG1526159</a>
(S) Toluene-d8	106			80.0-120		08/15/2020 08:48	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	106			77.0-126		08/15/2020 08:48	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	94.1			70.0-130		08/15/2020 08:48	<a href="#">WG1526159</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 11:33	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	275		66.7	200	1	08/19/2020 23:59	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	153	<u>J</u>	83.3	250	1	08/19/2020 23:59	<a href="#">WG1526939</a>
(S) o-Terphenyl	109			52.0-156		08/19/2020 23:59	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	132	<u>J</u>	66.7	200	1	08/20/2020 08:17	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	91.9	<u>J</u>	83.3	250	1	08/20/2020 08:17	<a href="#">WG1526940</a>
(S) o-Terphenyl	84.2			52.0-156		08/20/2020 08:17	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 17:41	<a href="#">WG1526885</a>
Lead,Dissolved	U		2.95	6.00	1	08/20/2020 03:14	<a href="#">WG1526880</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	267	<u>B</u>	31.6	100	1	08/16/2020 01:48	<a href="#">WG1526547</a>
(S) a,a,a-Trifluorotoluene(FID)	114			78.0-120		08/16/2020 01:48	<a href="#">WG1526547</a>

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	0.159	<u>J</u>	0.0941	1.00	1	08/15/2020 09:08	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	185		1.26	10.0	10	08/19/2020 06:23	<a href="#">WG1528204</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 09:08	<a href="#">WG1526159</a>
Naphthalene	U	<u>JO</u>	1.00	5.00	1	08/15/2020 09:08	<a href="#">WG1526159</a>
Tetrachloroethene	13.1		0.300	1.00	1	08/15/2020 09:08	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 09:08	<a href="#">WG1526159</a>
Trichloroethene	39.0		0.190	1.00	1	08/15/2020 09:08	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 09:08	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 09:08	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 09:08	<a href="#">WG1526159</a>
(S) Toluene-d8	104			80.0-120		08/15/2020 09:08	<a href="#">WG1526159</a>
(S) Toluene-d8	108			80.0-120		08/19/2020 06:23	<a href="#">WG1528204</a>
(S) 4-Bromofluorobenzene	106			77.0-126		08/15/2020 09:08	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	105			77.0-126		08/19/2020 06:23	<a href="#">WG1528204</a>
(S) 1,2-Dichloroethane-d4	93.4			70.0-130		08/15/2020 09:08	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	118			70.0-130		08/19/2020 06:23	<a href="#">WG1528204</a>

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 11:45	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	226		66.7	200	1	08/20/2020 00:19	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	86.1	<u>J</u>	83.3	250	1	08/20/2020 00:19	<a href="#">WG1526939</a>
(S) o-Terphenyl	105			52.0-156		08/20/2020 00:19	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	148	<u>J</u>	66.7	200	1	08/20/2020 08:37	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	112	<u>J</u>	83.3	250	1	08/20/2020 08:37	<a href="#">WG1526940</a>
(S) o-Terphenyl	94.2			52.0-156		08/20/2020 08:37	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 17:44	<a href="#">WG1526885</a>
Lead,Dissolved	U		2.95	6.00	1	08/20/2020 03:16	<a href="#">WG1526880</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	52.5	<u>B</u>	31.6	100	1	08/16/2020 02:11	<a href="#">WG1526547</a>
(S) a,a,a-Trifluorotoluene(FID)	113			78.0-120		08/16/2020 02:11	<a href="#">WG1526547</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 09:28	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/19/2020 06:04	<a href="#">WG1528204</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 09:28	<a href="#">WG1526159</a>
Naphthalene	U	<u>JO</u>	1.00	5.00	1	08/15/2020 09:28	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 09:28	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 09:28	<a href="#">WG1526159</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 09:28	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 09:28	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 09:28	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 09:28	<a href="#">WG1526159</a>
(S) Toluene-d8	108			80.0-120		08/15/2020 09:28	<a href="#">WG1526159</a>
(S) Toluene-d8	106			80.0-120		08/19/2020 06:04	<a href="#">WG1528204</a>
(S) 4-Bromofluorobenzene	103			77.0-126		08/15/2020 09:28	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	98.6			77.0-126		08/19/2020 06:04	<a href="#">WG1528204</a>
(S) 1,2-Dichloroethane-d4	93.9			70.0-130		08/15/2020 09:28	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	120			70.0-130		08/19/2020 06:04	<a href="#">WG1528204</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 11:57	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/20/2020 00:39	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/20/2020 00:39	<a href="#">WG1526939</a>
(S) o-Terphenyl	105			52.0-156		08/20/2020 00:39	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/20/2020 00:39	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/20/2020 00:39	<a href="#">WG1526940</a>
(S) o-Terphenyl	105			52.0-156		08/20/2020 00:39	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 17:46	<a href="#">WG1526885</a>
Lead,Dissolved	U		2.95	6.00	1	08/20/2020 03:19	<a href="#">WG1526880</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	58.3	<u>B</u>	31.6	100	1	08/16/2020 02:34	<a href="#">WG1526547</a>
(S) a,a,a-Trifluorotoluene(FID)	113			78.0-120		08/16/2020 02:34	<a href="#">WG1526547</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 09:49	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 09:49	<a href="#">WG1526159</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 09:49	<a href="#">WG1526159</a>
Naphthalene	U	<u>JO</u>	1.00	5.00	1	08/15/2020 09:49	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 09:49	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 09:49	<a href="#">WG1526159</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 09:49	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 09:49	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 09:49	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 09:49	<a href="#">WG1526159</a>
(S) Toluene-d8	106			80.0-120		08/15/2020 09:49	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	106			77.0-126		08/15/2020 09:49	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	96.0			70.0-130		08/15/2020 09:49	<a href="#">WG1526159</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 12:09	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/20/2020 00:59	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/20/2020 00:59	<a href="#">WG1526939</a>
(S) o-Terphenyl	102			52.0-156		08/20/2020 00:59	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/20/2020 00:59	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/20/2020 00:59	<a href="#">WG1526940</a>
(S) o-Terphenyl	102			52.0-156		08/20/2020 00:59	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 17:49	<a href="#">WG1526885</a>
Lead,Dissolved	U		2.95	6.00	1	08/20/2020 03:22	<a href="#">WG1526880</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	54.3	<u>B</u>	31.6	100	1	08/16/2020 02:57	<a href="#">WG1526547</a>
(S) a,a,a-Trifluorotoluene(FID)	113			78.0-120		08/16/2020 02:57	<a href="#">WG1526547</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 10:09	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 10:09	<a href="#">WG1526159</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 10:09	<a href="#">WG1526159</a>
Naphthalene	U	<u>JO</u>	1.00	5.00	1	08/15/2020 10:09	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 10:09	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 10:09	<a href="#">WG1526159</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 10:09	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 10:09	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 10:09	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 10:09	<a href="#">WG1526159</a>
(S) Toluene-d8	105			80.0-120		08/15/2020 10:09	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	106			77.0-126		08/15/2020 10:09	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	95.9			70.0-130		08/15/2020 10:09	<a href="#">WG1526159</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 12:21	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	374		66.7	200	1	08/18/2020 11:11	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	377		83.3	250	1	08/18/2020 11:11	<a href="#">WG1526939</a>
(S) o-Terphenyl	98.9			52.0-156		08/18/2020 11:11	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	88.9	<u>J</u>	66.7	200	1	08/20/2020 04:07	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	93.6	<u>J</u>	83.3	250	1	08/20/2020 04:07	<a href="#">WG1526940</a>
(S) o-Terphenyl	90.5			52.0-156		08/20/2020 04:07	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 17:52	<a href="#">WG1526885</a>
Lead,Dissolved	U		2.95	6.00	1	08/20/2020 03:24	<a href="#">WG1526880</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	58.5	<u>B J</u>	31.6	100	1	08/16/2020 03:20	<a href="#">WG1526547</a>
(S) a,a,a-Trifluorotoluene(FID)	113			78.0-120		08/16/2020 03:20	<a href="#">WG1526547</a>

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 10:29	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 10:29	<a href="#">WG1526159</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 10:29	<a href="#">WG1526159</a>
Naphthalene	U	<u>JO</u>	1.00	5.00	1	08/15/2020 10:29	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 10:29	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 10:29	<a href="#">WG1526159</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 10:29	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 10:29	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 10:29	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 10:29	<a href="#">WG1526159</a>
(S) Toluene-d8	106			80.0-120		08/15/2020 10:29	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	104			77.0-126		08/15/2020 10:29	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	98.0			70.0-130		08/15/2020 10:29	<a href="#">WG1526159</a>

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 12:33	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/24/2020 10:36	<a href="#">WG1527433</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/24/2020 10:36	<a href="#">WG1527433</a>
(S) o-Terphenyl	97.4			52.0-156		08/24/2020 10:36	<a href="#">WG1527433</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/24/2020 05:13	<a href="#">WG1527434</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/24/2020 05:13	<a href="#">WG1527434</a>
(S) o-Terphenyl	91.1			52.0-156		08/24/2020 05:13	<a href="#">WG1527434</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 18:00	<a href="#">WG1526885</a>
Lead,Dissolved	U		2.95	6.00	1	08/20/2020 03:32	<a href="#">WG1526880</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	81.5	<u>B</u>	31.6	100	1	08/16/2020 03:43	<a href="#">WG1526547</a>
(S) a,a,a-Trifluorotoluene(FID)	112			78.0-120		08/16/2020 03:43	<a href="#">WG1526547</a>

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 10:50	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 10:50	<a href="#">WG1526159</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 10:50	<a href="#">WG1526159</a>
Naphthalene	U	<u>JO</u>	1.00	5.00	1	08/15/2020 10:50	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 10:50	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 10:50	<a href="#">WG1526159</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 10:50	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 10:50	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 10:50	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 10:50	<a href="#">WG1526159</a>
(S) Toluene-d8	107			80.0-120		08/15/2020 10:50	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	104			77.0-126		08/15/2020 10:50	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	95.8			70.0-130		08/15/2020 10:50	<a href="#">WG1526159</a>

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 12:45	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	674		66.7	200	1	08/24/2020 10:56	<a href="#">WG1527433</a>
Residual Range Organics (RRO)	114	<u>J</u>	83.3	250	1	08/24/2020 10:56	<a href="#">WG1527433</a>
(S) o-Terphenyl	94.2			52.0-156		08/24/2020 10:56	<a href="#">WG1527433</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	80.6	<u>J</u>	66.7	200	1	08/24/2020 05:33	<a href="#">WG1527434</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/24/2020 05:33	<a href="#">WG1527434</a>
(S) o-Terphenyl	96.8			52.0-156		08/24/2020 05:33	<a href="#">WG1527434</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 18:02	<a href="#">WG1526885</a>
Lead,Dissolved	U		2.95	6.00	1	08/20/2020 03:35	<a href="#">WG1526880</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	1130		31.6	100	1	08/16/2020 04:06	<a href="#">WG1526547</a>
(S) a,a,a-Trifluorotoluene(FID)	103			78.0-120		08/16/2020 04:06	<a href="#">WG1526547</a>

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	2.37		0.0941	1.00	1	08/15/2020 11:10	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	17.6		0.126	1.00	1	08/15/2020 11:10	<a href="#">WG1526159</a>
Ethylbenzene	0.597	J	0.137	1.00	1	08/15/2020 11:10	<a href="#">WG1526159</a>
Naphthalene	U	JO	1.00	5.00	1	08/15/2020 11:10	<a href="#">WG1526159</a>
Tetrachloroethene	0.542	J	0.300	1.00	1	08/15/2020 11:10	<a href="#">WG1526159</a>
Toluene	1.63		0.278	1.00	1	08/15/2020 11:10	<a href="#">WG1526159</a>
Trichloroethene	1.54		0.190	1.00	1	08/15/2020 11:10	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	0.561	J	0.322	1.00	1	08/15/2020 11:10	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	0.926	J	0.104	1.00	1	08/15/2020 11:10	<a href="#">WG1526159</a>
Xylenes, Total	1.39	J	0.174	3.00	1	08/15/2020 11:10	<a href="#">WG1526159</a>
(S) Toluene-d8	101			80.0-120		08/15/2020 11:10	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	109			77.0-126		08/15/2020 11:10	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	91.1			70.0-130		08/15/2020 11:10	<a href="#">WG1526159</a>

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 13:09	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	2200		66.7	200	1	08/24/2020 09:36	<a href="#">WG1527433</a>
Residual Range Organics (RRO)	147	J	83.3	250	1	08/24/2020 09:36	<a href="#">WG1527433</a>
(S) o-Terphenyl	95.8			52.0-156		08/24/2020 09:36	<a href="#">WG1527433</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	1380		66.7	200	1	08/24/2020 05:53	<a href="#">WG1527434</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/24/2020 05:53	<a href="#">WG1527434</a>
(S) o-Terphenyl	95.8			52.0-156		08/24/2020 05:53	<a href="#">WG1527434</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 18:05	<a href="#">WG1526885</a>
Lead,Dissolved	U		2.95	6.00	1	08/20/2020 03:38	<a href="#">WG1526880</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	62.0	<u>B</u>	31.6	100	1	08/16/2020 04:29	<a href="#">WG1526547</a>
(S) a,a,a-Trifluorotoluene(FID)	113			78.0-120		08/16/2020 04:29	<a href="#">WG1526547</a>

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 11:30	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 11:30	<a href="#">WG1526159</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 11:30	<a href="#">WG1526159</a>
Naphthalene	U	<u>JO</u>	1.00	5.00	1	08/15/2020 11:30	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 11:30	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 11:30	<a href="#">WG1526159</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 11:30	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 11:30	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 11:30	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 11:30	<a href="#">WG1526159</a>
(S) Toluene-d8	105			80.0-120		08/15/2020 11:30	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	104			77.0-126		08/15/2020 11:30	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	95.4			70.0-130		08/15/2020 11:30	<a href="#">WG1526159</a>

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 13:21	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	117	<u>J</u>	66.7	200	1	08/24/2020 11:17	<a href="#">WG1527433</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/24/2020 11:17	<a href="#">WG1527433</a>
(S) o-Terphenyl	96.8			52.0-156		08/24/2020 11:17	<a href="#">WG1527433</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/24/2020 06:13	<a href="#">WG1527434</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/24/2020 06:13	<a href="#">WG1527434</a>
(S) o-Terphenyl	87.9			52.0-156		08/24/2020 06:13	<a href="#">WG1527434</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 18:08	<a href="#">WG1526885</a>
Lead,Dissolved	U		2.95	6.00	1	08/20/2020 03:40	<a href="#">WG1526880</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	918		31.6	100	1	08/16/2020 17:00	<a href="#">WG1526980</a>
(S) a,a,a-Trifluorotoluene(FID)	93.9			78.0-120		08/16/2020 17:00	<a href="#">WG1526980</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	0.652	J	0.0941	1.00	1	08/15/2020 11:51	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	7.54		0.126	1.00	1	08/15/2020 11:51	<a href="#">WG1526159</a>
Ethylbenzene	1.21		0.137	1.00	1	08/15/2020 11:51	<a href="#">WG1526159</a>
Naphthalene	5.79	JO	1.00	5.00	1	08/15/2020 11:51	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 11:51	<a href="#">WG1526159</a>
Toluene	1.14		0.278	1.00	1	08/15/2020 11:51	<a href="#">WG1526159</a>
Trichloroethene	0.225	J	0.190	1.00	1	08/15/2020 11:51	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	49.0		0.322	1.00	1	08/15/2020 11:51	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	53.9		0.104	1.00	1	08/15/2020 11:51	<a href="#">WG1526159</a>
Xylenes, Total	10.9		0.174	3.00	1	08/15/2020 11:51	<a href="#">WG1526159</a>
(S) Toluene-d8	101			80.0-120		08/15/2020 11:51	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	107			77.0-126		08/15/2020 11:51	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	91.9			70.0-130		08/15/2020 11:51	<a href="#">WG1526159</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 13:33	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	829		66.7	200	1	08/24/2020 09:56	<a href="#">WG1527433</a>
Residual Range Organics (RRO)	179	J	83.3	250	1	08/24/2020 09:56	<a href="#">WG1527433</a>
(S) o-Terphenyl	94.7			52.0-156		08/24/2020 09:56	<a href="#">WG1527433</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	208		66.7	200	1	08/24/2020 06:33	<a href="#">WG1527434</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/24/2020 06:33	<a href="#">WG1527434</a>
(S) o-Terphenyl	82.6			52.0-156		08/24/2020 06:33	<a href="#">WG1527434</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 18:10	<a href="#">WG1526885</a>
Lead,Dissolved	U		2.95	6.00	1	08/20/2020 03:43	<a href="#">WG1526880</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	36.5	J	31.6	100	1	08/16/2020 17:22	<a href="#">WG1526980</a>
(S) a,a,a-Trifluorotoluene(FID)	95.8			78.0-120		08/16/2020 17:22	<a href="#">WG1526980</a>

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 12:11	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 12:11	<a href="#">WG1526159</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 12:11	<a href="#">WG1526159</a>
Naphthalene	U	JO	1.00	5.00	1	08/15/2020 12:11	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 12:11	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 12:11	<a href="#">WG1526159</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 12:11	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	0.479	J	0.322	1.00	1	08/15/2020 12:11	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	0.494	J	0.104	1.00	1	08/15/2020 12:11	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 12:11	<a href="#">WG1526159</a>
(S) Toluene-d8	105			80.0-120		08/15/2020 12:11	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	103			77.0-126		08/15/2020 12:11	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	95.7			70.0-130		08/15/2020 12:11	<a href="#">WG1526159</a>

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 13:45	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	106	J	66.7	200	1	08/24/2020 11:37	<a href="#">WG1527433</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/24/2020 11:37	<a href="#">WG1527433</a>
(S) o-Terphenyl	92.1			52.0-156		08/24/2020 11:37	<a href="#">WG1527433</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/24/2020 06:53	<a href="#">WG1527434</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/24/2020 06:53	<a href="#">WG1527434</a>
(S) o-Terphenyl	80.5			52.0-156		08/24/2020 06:53	<a href="#">WG1527434</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 23:51	<a href="#">WG1528295</a>
Lead,Dissolved	U		2.95	6.00	1	08/19/2020 10:43	<a href="#">WG1526881</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/16/2020 17:44	<a href="#">WG1526980</a>
(S) a,a,a-Trifluorotoluene(FID)	95.7			78.0-120		08/16/2020 17:44	<a href="#">WG1526980</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 12:31	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 12:31	<a href="#">WG1526159</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 12:31	<a href="#">WG1526159</a>
Naphthalene	U	JO	1.00	5.00	1	08/15/2020 12:31	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 12:31	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 12:31	<a href="#">WG1526159</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 12:31	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	0.390	J	0.322	1.00	1	08/15/2020 12:31	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	0.117	J	0.104	1.00	1	08/15/2020 12:31	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 12:31	<a href="#">WG1526159</a>
(S) Toluene-d8	104			80.0-120		08/15/2020 12:31	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	105			77.0-126		08/15/2020 12:31	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	94.5			70.0-130		08/15/2020 12:31	<a href="#">WG1526159</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	0.0230		0.00536	0.0200	1	08/17/2020 13:57	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/24/2020 11:57	<a href="#">WG1527433</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/24/2020 11:57	<a href="#">WG1527433</a>
(S) o-Terphenyl	97.4			52.0-156		08/24/2020 11:57	<a href="#">WG1527433</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/24/2020 07:13	<a href="#">WG1527434</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/24/2020 07:13	<a href="#">WG1527434</a>
(S) o-Terphenyl	88.9			52.0-156		08/24/2020 07:13	<a href="#">WG1527434</a>



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/16/2020 15:31	<a href="#">WG1526980</a>
(S) a,a,a-Trifluorotoluene(FID)	95.8			78.0-120		08/16/2020 15:31	<a href="#">WG1526980</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	08/15/2020 08:07	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 08:07	<a href="#">WG1526159</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 08:07	<a href="#">WG1526159</a>
Naphthalene	U	<u>JO</u>	1.00	5.00	1	08/15/2020 08:07	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 08:07	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 08:07	<a href="#">WG1526159</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 08:07	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 08:07	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 08:07	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 08:07	<a href="#">WG1526159</a>
(S) Toluene-d8	105			80.0-120		08/15/2020 08:07	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	108			77.0-126		08/15/2020 08:07	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	95.3			70.0-130		08/15/2020 08:07	<a href="#">WG1526159</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3561719-1 08/20/20 02:24

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Lead,Dissolved	U		2.95	6.00

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

Laboratory Control Sample (LCS)

(LCS) R3561719-2 08/20/20 02:27

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Lead,Dissolved	1000	948	94.8	80.0-120	

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

L1249996-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1249996-06 08/20/20 02:30 • (MS) R3561719-4 08/20/20 02:35 • (MSD) R3561719-5 08/20/20 02:38

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Lead,Dissolved	1000	U	972	963	97.2	96.3	1	75.0-125			0.993	20



Method Blank (MB)

(MB) R3561533-1 08/19/20 10:28

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Lead,Dissolved	U		2.95	6.00

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

Laboratory Control Sample (LCS)

(LCS) R3561533-2 08/19/20 10:30

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Lead,Dissolved	1000	1040	104	80.0-120	

<sup>4</sup> Cn

<sup>5</sup> Sr

L1250224-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1250224-02 08/19/20 10:33 • (MS) R3561533-4 08/19/20 10:38 • (MSD) R3561533-5 08/19/20 10:41

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Lead,Dissolved	1000	U	983	992	98.3	99.2	1	75.0-125			0.926	20

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3561721-1 08/19/20 16:54

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Lead	U		2.95	6.00

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Laboratory Control Sample (LCS)

(LCS) R3561721-2 08/19/20 16:57

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Lead	50.0	49.8	99.6	80.0-120	

6 Qc

L1250013-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1250013-01 08/19/20 17:00 • (MS) R3561721-4 08/19/20 17:05 • (MSD) R3561721-5 08/19/20 17:08

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Lead	50.0	U	48.8	51.4	97.6	103	1	75.0-125			5.09	20

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3561717-1 08/19/20 23:28

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Lead	U		2.95	6.00

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS)

(LCS) R3561717-2 08/19/20 23:30

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Lead	1000	957	95.7	80.0-120	

L1250766-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1250766-01 08/19/20 23:33 • (MS) R3561717-4 08/19/20 23:38 • (MSD) R3561717-5 08/19/20 23:41

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Lead	1000	U	962	958	96.2	95.8	1	75.0-125			0.435	20

L1251789-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1251789-02 08/19/20 23:43 • (MS) R3561717-6 08/19/20 23:46 • (MSD) R3561717-7 08/19/20 23:48

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Lead	1000	U	964	966	96.4	96.6	1	75.0-125			0.174	20



Method Blank (MB)

(MB) R3561248-2 08/15/20 21:53

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	49.9	↓	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	113			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3561248-1 08/15/20 20:12

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5580	101	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			107	78.0-120	

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3561672-2 08/16/20 13:44

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	95.6			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3561672-1 08/16/20 12:35

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5160	93.8	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			101	78.0-120	

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3561129-2 08/15/20 07:15

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Benzene	U		0.0941	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
Ethylbenzene	U		0.137	1.00
Naphthalene	U		1.00	5.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
Trichloroethene	U		0.190	1.00
1,2,4-Trimethylbenzene	U		0.322	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Xylenes, Total	U		0.174	3.00
<i>(S) Toluene-d8</i>	104			80.0-120
<i>(S) 4-Bromofluorobenzene</i>	102			77.0-126
<i>(S) 1,2-Dichloroethane-d4</i>	95.7			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3561129-1 08/15/20 06:34

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Benzene	5.00	4.48	89.6	70.0-123	
cis-1,2-Dichloroethene	5.00	4.96	99.2	73.0-120	
Ethylbenzene	5.00	4.67	93.4	79.0-123	
Naphthalene	5.00	3.84	76.8	54.0-135	
Tetrachloroethene	5.00	5.32	106	72.0-132	
Toluene	5.00	4.56	91.2	79.0-120	
Trichloroethene	5.00	5.12	102	78.0-124	
1,2,4-Trimethylbenzene	5.00	4.50	90.0	76.0-121	
1,3,5-Trimethylbenzene	5.00	4.73	94.6	76.0-122	
Xylenes, Total	15.0	13.8	92.0	79.0-123	
<i>(S) Toluene-d8</i>			100	80.0-120	
<i>(S) 4-Bromofluorobenzene</i>			107	77.0-126	
<i>(S) 1,2-Dichloroethane-d4</i>			96.6	70.0-130	



Method Blank (MB)

(MB) R3561338-3 08/18/20 23:01

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
cis-1,2-Dichloroethene	U		0.126	1.00
(S) Toluene-d8	111			80.0-120
(S) 4-Bromofluorobenzene	94.3			77.0-126
(S) 1,2-Dichloroethane-d4	95.4			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3561338-1 08/18/20 22:04 • (LCSD) R3561338-2 08/18/20 22:23

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
cis-1,2-Dichloroethene	5.00	4.45	4.63	89.0	92.6	73.0-120			3.96	20
(S) Toluene-d8				109	105	80.0-120				
(S) 4-Bromofluorobenzene				93.4	105	77.0-126				
(S) 1,2-Dichloroethane-d4				93.9	95.8	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3560655-1 08/17/20 10:21

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Ethylene Dibromide	U		0.00536	0.0200

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1249676-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1249676-01 08/17/20 11:09 • (DUP) R3560655-3 08/17/20 10:57

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ethylene Dibromide	U	U	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3560655-4 08/17/20 12:57 • (LCSD) R3560655-5 08/17/20 15:09

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Ethylene Dibromide	0.250	0.225	0.236	90.0	94.4	60.0-140			4.77	20

L1250218-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1250218-01 08/17/20 10:45 • (MS) R3560655-2 08/17/20 10:33

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Ethylene Dibromide	0.100	U	0.104	104	1	64.0-159	



Method Blank (MB)

(MB) R3560731-1 08/17/20 11:39

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		66.7	200
Residual Range Organics (RRO)	U		83.3	250
<i>(S) o-Terphenyl</i>	84.0			52.0-156

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3560731-2 08/17/20 11:59 • (LCSD) R3560731-3 08/17/20 12:19

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	1500	1680	1660	112	111	50.0-150			1.20	20
<i>(S) o-Terphenyl</i>				98.5	97.0	52.0-156				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3562356-1 08/21/20 07:21

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		66.7	200
Residual Range Organics (RRO)	U		83.3	250
<i>(S) o-Terphenyl</i>	98.5			52.0-156

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3562356-2 08/21/20 07:47 • (LCSD) R3562356-3 08/21/20 08:13

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	1500	1360	1440	90.7	96.0	50.0-150			5.71	20
<i>(S) o-Terphenyl</i>				83.0	89.0	52.0-156				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3561032-1 08/17/20 21:06

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Diesel Range Organics (DRO)	U		66.7	200
Residual Range Organics (RRO)	U		83.3	250
<i>(S) o-Terphenyl</i>	90.0			52.0-156

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3561032-2 08/17/20 21:32 • (LCSD) R3561032-3 08/17/20 21:59

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Diesel Range Organics (DRO)	1500	1640	1440	109	96.0	50.0-150			13.0	20
<i>(S) o-Terphenyl</i>				105	89.0	52.0-156				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3562357-1 08/21/20 08:39

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		66.7	200
Residual Range Organics (RRO)	U		83.3	250
<i>(S) o-Terphenyl</i>	109			52.0-156

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3562357-2 08/21/20 09:05 • (LCSD) R3562357-3 08/21/20 09:31

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	1500	1610	1660	107	111	50.0-150			3.06	20
<i>(S) o-Terphenyl</i>				101	103	52.0-156				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

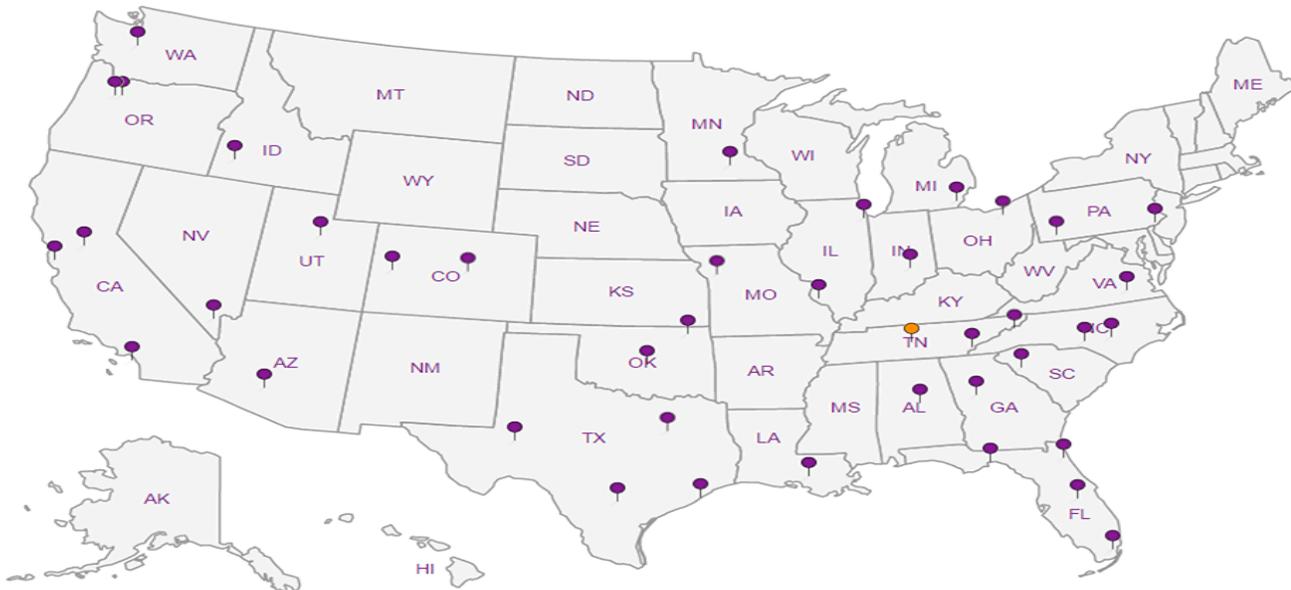
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



**Arcadis - Chevron - WA**  
 1100 Olive Way  
 Suite 800  
 Seattle WA 98101

Billing Information:  
 Attn: Accounts Payable  
 630 Plaza Dr., Ste. 600  
 Highlands Ranch, CO 80129

Pres  
 Chk

Report to:  
 Ada Hamilton

Email To:  
 Ada.Hamilton@arcadis.com;environmentDM-

Project Description:  
 211577

City/State  
 Collected: Seattle WA

Please Circle:  
 PT MT CT ET

Phone: 206-325-5254

Client Project #  
 30045360

Lab Project #  
 CHEVARCWA-211577

Collected by (print):  
 DSG, TB, BP, JV, KZ

Site/Facility ID #  
 211577

P.O. #

Collected by (signature):  
 Dawn Sely Smith

Rush? (Lab MUST Be Notified)  
 Same Day Five Day  
 Next Day 5 Day (Rad Only)  
 Two Day 10 Day (Rad Only)  
 Three Day

Quote #  
 811

Immediately  
 Packed on Ice N  Y

Date Results Needed  
 Standard

No. of  
 Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Diss Pb 6010 250mlHDPE-NoPres	EDB 8011 40mlClr-NaThio	NWTPHDX no silica 40mlAmb-HCl-BT	NWTPHDX w/ silica 40mlAmb-HCl-BT	NWTPHGX 40mlAmb HCl	Total Pb 6010 250mlHDPE-HNO3	VOCs 8260D * 40mlAmb-HCl
VP-4	Grab	GW		8-12-20	1210	15	X	X	X	X	X	X	X
Dup-2		GW		8-12-20	—	15	X	X	X	X	X	X	X
Rinstate Blank-2		GW		8-12-20	900	15	X	X	X	X	X	X	X
Trip Blank	—	GW		—	—	36					X	X	
		GW											
		GW											
		GW											
		GW											
		GW											

\* Matrix:  
 SS - Soil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - WasteWater  
 DW - Drinking Water  
 OT - Other

Remarks: \*VOCs 8260D=BTEX,Naph,PCE,TCE,cis-12-DCE,135-TMB,124-TMB.  
 pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y	N
COC Signed/Accurate:		Y	N
Bottles arrive intact:		X	N
Correct bottles used:		X	N
Sufficient volume sent:		X	N
If Applicable			
VOA Zero Headspace:		Y	N
Preservation Correct/Checked:		Y	N
RAD Screen <0.5 mR/hr:		Y	N

Samples returned via:  
 UPS  FedEx  Courier

Relinquished by: (Signature)  
 Dawn Sely Smith

Date: 8-12-20  
 Time: 1600

Received by: (Signature)

Trip Blank Received: Yes / No  
 UGL / MeOH  
 TBR  
 60

Relinquished by: (Signature)

Date: 2.0-12-9  
 Time: 194

Received by: (Signature)

Temp: 2.0-12-9  
 Bottles Received: 194

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: 8-13-20  
 Time: 900

Received for lab by: (Signature)

Date: 8-13-20  
 Time: 900

Hold: Condition: NCF OK

Chain of Custody Page 2 of 2



12065 Lebanon Rd  
 Mount Juliet, TN 37122  
 Phone: 615-758-5858  
 Phone: 800-767-5859  
 Fax: 615-758-5859



SDG # L1250218

Table #

Acctnum: CHEVARCWA

Template: T172074

Prelogin: P789679

PM: 110 - Brian Ford

PB: DN

Shipped Via:

Remarks	Sample # (lab only)
	11
	12
	13
	14

# CHEVRON - 211577

## DATA REVIEW

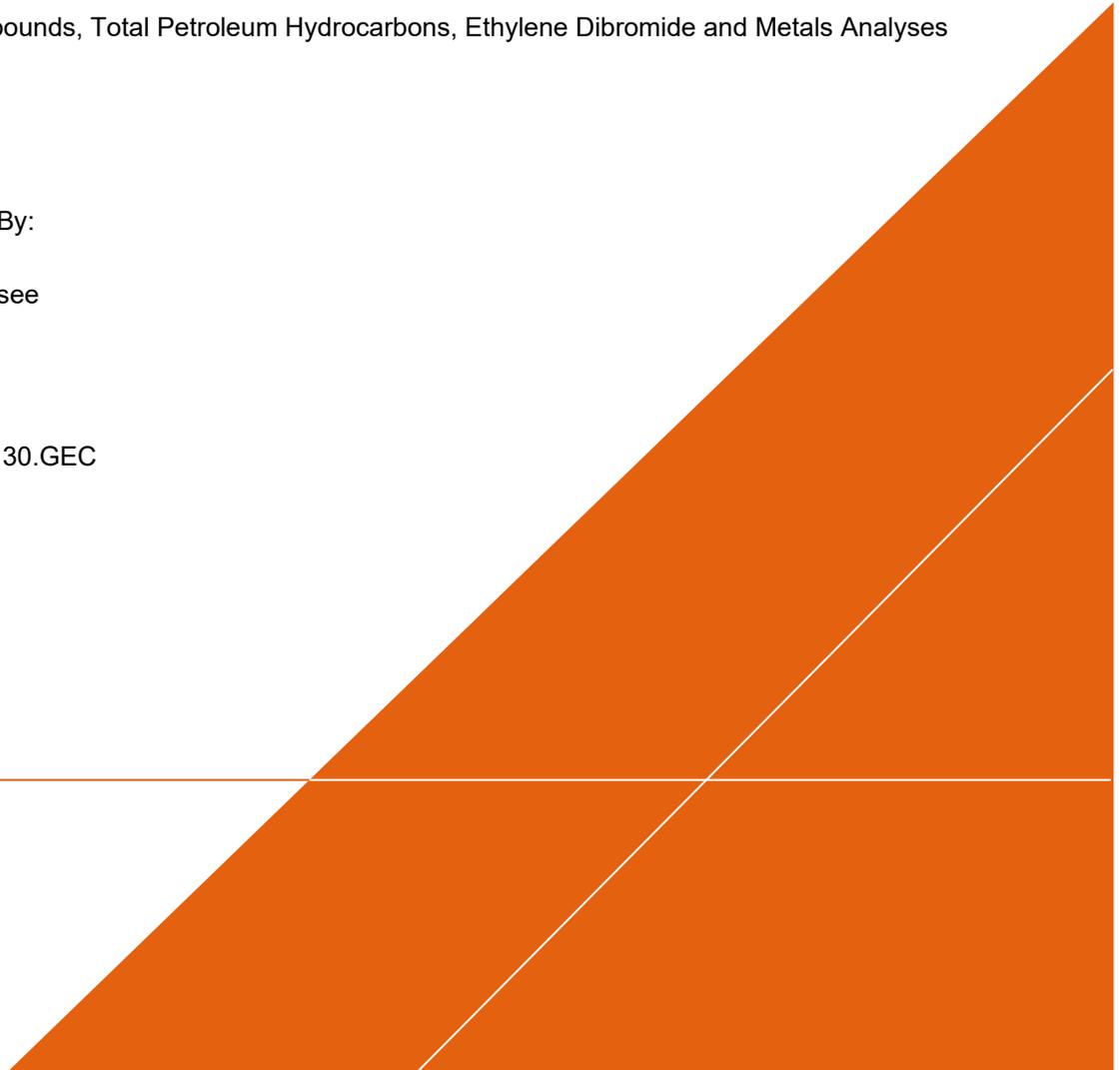
SEATTLE, WASHINGTON

Volatile organic compounds, Total Petroleum Hydrocarbons, Ethylene Dibromide and Metals Analyses

SDG # L1250218

Analyses Performed By:  
Pace Analytical  
Mount Juliet, Tennessee

Report # 38385R  
Review Level: Tier II  
Project: 30045360.5130.GEC



## DATA REVIEW REPORT

### SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # L1250218 for samples collected in association with the Chevron Seattle, Washington. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis			
					VOC	TPH	EDB	MET
MW-4_200812	L1250218-01	Water	08/12/2020		X	X	X	X
MW-5_200812	L1250218-02	Water	08/12/2020		X	X	X	X
MW-7_200812	L1250218-03	Water	08/12/2020		X	X	X	X
MW-16_200812	L1250218-04	Water	08/12/2020		X	X	X	X
MW-20_200812	L1250218-05	Water	08/12/2020		X	X	X	X
MW-25_200812	L1250218-06	Water	08/12/2020		X	X	X	X
MW-26_200812	L1250218-07	Water	08/12/2020		X	X	X	X
MW-33_200812	L1250218-08	Water	08/12/2020		X	X	X	X
DPE-2_200812	L1250218-09	Water	08/12/2020		X	X	X	X
DPE-9_200812	L1250218-10	Water	08/12/2020		X	X	X	X
VP-4_200812	L1250218-11	Water	08/12/2020		X	X	X	X
DUP-2_200812	L1250218-12	Water	08/12/2020	DPE-9_200812	X	X	X	X
RINSATE BLANK-2_200812	L1250218-13	Water	08/12/2020		X	X	X	X
TRIP BLANK_200812	L1250218-14	Water	08/12/2020		X	X		

#### Notes:

VOC – Volatile Organic Compounds.

TPH – Total Petroleum Hydrocarbons.

EDB – Ethylene Dibromide.

MET – Metals (Total and Dissolved).

## DATA REVIEW REPORT

### ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

Note:

QA - Quality Assurance

## DATA REVIEW REPORT

### ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D, ECY 97-602 NWTPH,Gx, ECY 97-602 NWTPH,Dx and 8011. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
  - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
  - E The compound was quantitated above the calibration range.
  - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
  - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
  - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
  - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
  - UB Compound considered non-detect at the listed value due to associated blank contamination.
  - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
  - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

## DATA REVIEW REPORT

### VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

#### 1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260D	Water	14 days from collection to analysis (preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u.

Note:

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

#### 2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (B) of data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample ID	Compounds	Sample Result	Qualification
DPE-2_200812	1,2,4-Trimethylbenzene (RB)	Detected sample results <RL and <BAL	"UB" at the RL
DUP-2_200812	1,2,4-Trimethylbenzene (RB)		
	1,3,5-Trimethylbenzene (RB)		

Note:

RB – Rinse blank

RL – Reporting limit

#### 3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

## DATA REVIEW REPORT

### 4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

MS/MSD analysis was not performed on samples from this SDG.

### 5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

### 6. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result (µg/l)	Duplicate Result (µg/l)	RPD
DPE-9_200812 / DUP-2_200812	1,2,4-Trimethylbenzene	1.00 U	0.479 J	AC
	1,3,5-Trimethylbenzene	1.00 U	0.494 J	AC

#### Notes:

U – Non detect

AC - Acceptable

The calculated differences between the parent sample and field duplicate were acceptable.

### 7. System Performance and Overall Assessment

Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
MW-7_200812	cis-1,2-Dichloroethene	--	185	185 D

Note: In the instance where both the original analysis and the diluted analysis sample results exhibited a concentration greater than and/or less than the calibration linear range of the instrument; the sample result exhibiting the greatest concentration will be reported as the final result.

Sample results associated with compounds exhibiting concentrations greater than the linear range are qualified as documented in the table below when reported as the final reported sample result.

## DATA REVIEW REPORT

Reported Sample Results	Qualification
Diluted sample result within calibration range	D
Diluted sample result less than the calibration range	DJ
Diluted sample result greater than the calibration range	EDJ
Original sample result greater than the calibration range	EJ

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

**DATA REVIEW REPORT**

**DATA VALIDATION CHECKLIST FOR VOCs**

VOCs: SW-846 8260D	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
<b>GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)</b>					
<b>Tier II Validation</b>					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks		X	X		
C. Trip blanks		X		X	
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate (LCSD)	X				X
LCS/LCSD Precision (RPD)	X				X
Matrix Spike (MS)	X				X
Matrix Spike Duplicate (MSD)	X				X
MS/MSD Precision (RPD)	X				X
Lab Duplicate (RPD)	X				X
Field Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	

Notes:

%R    Percent recovery

RPD    Relative percent difference

## DATA REVIEW REPORT

### TOTAL PETROLEUM HYDROCARBONS ANALYSES

#### 1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
ECY 97-602 NWTPH-Gx	Water	14 days from collection to analysis	Cool to <6 °C: preserved to a pH of less than 2 s.u.
ECY 97-602 NWTPH-Dx			

All samples were analyzed within the specified holding times.

#### 2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (B) of data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample ID	Analytical batch	Compound	Sample Result	Qualification
MW-5_200812	WG1526547	Gasoline Range Organics	Detected sample results >RL and <BAL	"UB" at detected sample concentration
MW-16_200812			Detected sample results <RL and <BAL	"UB" at the RL
MW-20_200812				
MW-25_200812				
MW-26_200812				
MW-33_200812				
DPE-9_200812				

#### Note:

RL – Reporting limit

#### 3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. The analysis requires surrogate compounds exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

#### 4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

## DATA REVIEW REPORT

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

MS/MSD analysis was not performed on samples from these SDGs.

### 5. Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate Analysis (LCSD)

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery and RPD within the laboratory-established acceptance limits.

All compounds associated with the LCS/LCSD analysis exhibited recoveries and RPDs within the control limits.

### 6. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result (µg/l)	Duplicate Result (µg/l)	RPD
DPE-9_200812 / DUP-2_200812	Gasoline Range Organics	62.0 J	36.5 J	AC
	Diesel Range Organics	117 J	106 J	AC

#### Notes:

AC - Acceptable

The calculated differences between the parent sample and field duplicate were acceptable.

### 7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

## DATA REVIEW REPORT

### DATA VALIDATION CHECKLIST FOR TPH

TPH: ECY 97-602 NWTPH-Gx and ECY 97-602 NWTPH-Dx	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY (GC/FID)					
<b>Tier II Validation</b>					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X	X		
B. Equipment blanks		X		X	
C. Trip blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R	X				X
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Lab Duplicate (RPD)	X				X
Field Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	

**Notes:**

%R - percent recovery

RPD - relative percent difference

## DATA REVIEW REPORT

### ETHYLENE DIBROMIDE ANALYSES

#### 1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8011	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to <6°C

All samples were analyzed within the specified holding time criteria.

#### 2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compound Ethylene dibromide was detected (0.0230 µg/L) in the rinse blank (RINSATE BLANK-2\_200812); however, the associated sample results were non-detect. No other qualification of the sample results was required.

#### 3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

##### 3.1 MS/MSD Analysis

The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

MS analysis was performed on sample ID MW-4\_200812. MS analysis exhibited acceptable recovery.

##### 3.2 Laboratory Duplicate Analysis

The laboratory duplicates relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

Laboratory duplicate analysis was not performed on samples from this SDG.

## DATA REVIEW REPORT

### 4. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery and RPD within the laboratory-established acceptance limits.

All compounds associated with the LCS/LCSD analysis exhibited recoveries and RPDs within the control limits.

### 5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result (µg/l)	Duplicate Result (µg/l)	RPD
DPE-9_200812 / DUP-2_200812	Ethylene Dibromide	U	U	AC

#### Notes:

U – Non detect

AC - Acceptable

The calculated differences between the parent sample and field duplicate were acceptable.

### 6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

# DATA REVIEW REPORT

## DATA VALIDATION CHECKLIST FOR ETHYLNE DIBROMIDE

Ethylene Dibromide: SW-846 8011	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
<b>GAS CHROMATOGRAPHY/FLAME IONIZATION DETECTOR (GC/FID)</b>					

### Tier II Validation

Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment/Field blanks		X	X		
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Lab Duplicate (RPD)	X				X
Field Duplicate (RPD)		X		X	
Dilution Factor		X		X	

#### Notes:

%R - percent recovery

RPD - relative percent difference

## DATA REVIEW REPORT

### INORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 6010D. Data were reviewed in accordance with USEPA National Functional Guidelines of July 2002.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
  - J The reported value was obtained from a reading less than the reporting limit (RL), but greater than or equal to the method detection limit (MDL).
- Quantitation (Q) Qualifiers
  - E The reported value is estimated due to the presence of interference.
  - N Spiked sample recovery is not within control limits.
  - \* Duplicate analysis is not within control limits.
- Validation Qualifiers
  - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
  - UJ The analyte was not detected above the reporting limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
  - UB Analyte considered non-detect at the listed value due to associated blank contamination.
  - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

## DATA REVIEW REPORT

### METALS ANALYSES

#### 1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010D	Water	180 days from collection to analysis	Preserved to a pH of less than 2.

All samples were analyzed within the specified holding times.

#### 2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

#### 3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

##### 3.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

MS/MSD analysis was not performed on samples from this SDG.

##### 3.2 Laboratory Duplicate Analysis

The laboratory duplicates relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

Laboratory duplicate analysis was not performed on samples from this SDG.

#### 4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

## DATA REVIEW REPORT

Sample ID/Duplicate ID	Compound	Sample Result (µg/l)	Duplicate Result (µg/l)	RPD
DPE-9_200812 / DUP-2_200812	Lead (Total)	U	U	AC
	Lead (Dissolved)	U	U	AC

### Notes:

U – Non detect

AC - Acceptable

The calculated differences between the parent sample and field duplicate were acceptable.

### **5. Laboratory Control Sample (LCS) Analysis**

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS/LCSD analysis exhibited recoveries within the control limits.

### **6. General Assessment – Total vs. Dissolved**

When the dissolved concentration exceeded the associated total concentration, and both results were five times greater than the LOQ, then the %D between the total and dissolved concentrations must be less than 10%.

The calculated %D between the total and the dissolved sample results were within the control limit.

### **7. System Performance and Overall Assessment**

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

## DATA REVIEW REPORT

### DATA VALIDATION CHECKLIST FOR METAL

METALS; SW-846 6010D	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)					
<b>Tier II Validation</b>					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Instrument Blanks	X				X
B. Method Blanks		X		X	
C. Equipment/Field Blanks		X		X	
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate (LCSD) %R	X				X
LCS/LCSD Precision (RPD)	X				X
Matrix Spike (MS) %R	X				X
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Lab Duplicate (RPD)	X				X
Field Duplicate (RPD)		X		X	
Total vs Dissolved %D	X				X
Reporting Limit Verification		X		X	

Notes:

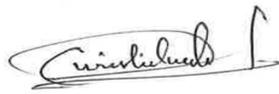
%R Percent recovery

RPD Relative percent difference

%D Percent difference

## DATA REVIEW REPORT

VALIDATION PERFORMED BY: Hrishikesh Upadhyaya

SIGNATURE: 

---

DATE: September 23, 2020

PEER REVIEW: Dennis Capria

DATE: September 25, 2020

**CHAIN OF CUSTODY  
CORRECTED SAMPLE ANALYSIS DATA  
SHEETS**



<b>Arcadis - Chevron - WA</b> 1100 Olive Way Suite 800 Seattle WA 98101				Billing Information:				Pres Chk	Analysis / Container / Preservative										Chain of Custody Page 1 of 2	
				Attn: Accounts Payable 630 Plaza Dr., Ste. 600 Highlands Ranch, CO 80129					Email To: Ada.Hamilton@arcadis.com;environmentDM-											
Report to: Ada Hamilton				City/State Collected: Seattle WA		Please Circle: PT MT CT ET												SDG # <u>L1256218</u> <b>J169</b>		
Project Description: 211577		Client Project # 30045360		Lab Project # CHEVARCWA-211577														Tabl		
Phone: 206-325-5254		Site/Facility ID # 211577		P.O. #														Acctnum: CHEVARCWA Template: T172074 Prelogin: P789679 PM: 110 - Brian Ford PB: DN		
Collected by (print): DSG, TB, BP, JV, KZ		Collected by (signature): <i>Samuel Sly Gamm</i>		Rush? (Lab MUST Be Notified)		Quote #												Shipped Via:		
Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>		<input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day		Date Results Needed Standard		No. of Cntrs												Remarks   Sample # (lab only)		
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time			Diss Pb 6010 250mlHDPE-NoPres	EDB 8011 40mlClr-NaThio	NWTPHDX no silica 40mlAmb-HCl-BT	NWTPHDX w/ silica 40mlAmb-HCl-BT	NWTPHGX 40mlAmb HCl	Total Pb 6010 250mlHDPE-HNO3	VOCs 8260D * 40mlAmb-HCl						
MW-4	Grab	GW		8-12-20	1015	15	X	X	X	X	X	X	X	X			-01			
MW-5		GW			1145	15	X	X	X	X	X	X	X	X			02			
MW-7		GW			1430	15	X	X	X	X	X	X	X	X			03			
MW-16		GW			1200	15	X	X	X	X	X	X	X	X			04			
MW-20		GW			1146	15	X	X	X	X	X	X	X	X			05			
MW-25		GW			1350	15	X	X	X	X	X	X	X	X			06			
MW-26		GW			1012	14	X	X	X	X	X	X	X	X			07			
MW-33		GW			1445	15	X	X	X	X	X	X	X	X			08			
DPE-2		GW			1325	15	X	X	X	X	X	X	X	X			09			
DPE-9		GW			1040	15	X	X	X	X	X	X	X	X			10			
* Matrix:		Remarks: *VOCs 8260D=BTEX,Naph,PCE,TCE,cis-12-DCE,135-TMB,124-TMB.										pH _____ Temp _____ Flow _____ Other _____		Sample Receipt Checklist COC Seal Present/Intact: <input type="checkbox"/> NP <input checked="" type="checkbox"/> Y <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If Applicable VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N						
SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____		Samples returned via: UPS <input type="checkbox"/> FedEx <input checked="" type="checkbox"/> Courier _____		Tracking # 9050 0891 1240				Relinquished by: (Signature) <i>Samuel Sly Gamm</i>		Date: 8-12-20 Time: 1600		Received by: (Signature)		Trip Blank Received: Yes / No HCL / MeOH TBR		COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If Applicable VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N				
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Temp: <i>20.1°C</i>		Bottles Received: <i>194</i>		If preservation required by Login: Date/Time								
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature)		Date: 8-13-20		Time: 900		Hold:		Condition: NCF / OK						

**Arcadis - Chevron - WA**  
 1100 Olive Way  
 Suite 800  
 Seattle WA 98101

Billing Information:  
 Attn: Accounts Payable  
 630 Plaza Dr., Ste. 600  
 Highlands Ranch, CO 80129

Pres  
 Chk

Report to:  
**Ada Hamilton**

Email To:  
 Ada.Hamilton@arcadis.com;environmentDM-

Project Description:  
 211577

City/State  
 Collected: **Seattle WA**

Please Circle:  
 PT MT CT ET

Phone: **206-325-5254**

Client Project #  
**30045360**

Lab Project #  
**CHEVARCWA-211577**

Collected by (print):  
**DSG, TB, BP, JV, KZ**

Site/Facility ID #  
**211577**

P.O. #

Collected by (signature):  
*Dawn Sely Smith*

Rush? (Lab MUST Be Notified)  
 \_\_\_ Same Day \_\_\_ Five Day  
 \_\_\_ Next Day \_\_\_ 5 Day (Rad Only)  
 \_\_\_ Two Day \_\_\_ 10 Day (Rad Only)  
 \_\_\_ Three Day

Quote #  
**811**

Immediately  
 Packed on Ice N \_\_\_ Y **X**

Date Results Needed  
**Standard**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
VP-4	Grab	GW		8-12-20	1210	15
Dup-2		GW		8-12-20	—	15
Rinse Blank-2		GW		8-12-20	900	15
Trip Blank	—	GW		—	—	36
		GW				
		GW				
		GW				
		GW				
		GW				
		GW				

Analysis / Container / Preservative						
Pres	Chk					
		Diss Pb 6010 250mlHDPE-NoPres				
		EDB 8011 40mlClr-NaThio				
		NWTPHDX no silica 40mlAmb-HCl-BT				
		NWTPHDX w/ silica 40mlAmb-HCl-BT				
		NWTPHGX 40mlAmb HCl				
		Total Pb 6010 250mlHDPE-HNO3				
		VOCs 8260D * 40mlAmb-HCl				

Chain of Custody Page 2 of 2



12065 Lebanon Rd  
 Mount Juliet, TN 37122  
 Phone: 615-758-5858  
 Phone: 800-767-5859  
 Fax: 615-758-5859



SDG # **L1250218**

Table #

Acctnum: **CHEVARCWA**

Template: **T172074**

Prelogin: **P789679**

PM: **110 - Brian Ford**

PB: **DN**

Shipped Via:

Remarks | Sample # (lab only)

\* Matrix:  
 SS - Soil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - WasteWater  
 DW - Drinking Water  
 OT - Other

Remarks: \*VOCs 8260D=BTEX,Naph,PCE,TCE,cis-12-DCE,135-TMB,124-TMB.

pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y	N
COC Signed/Accurate:		Y	N
Bottles arrive intact:		Y	N
Correct bottles used:		Y	N
Sufficient volume sent:		Y	N
If Applicable			
VOA Zero Headspace:		Y	N
Preservation Correct/Checked:		Y	N
RAD Screen <0.5 mR/hr:		Y	N

Samples returned via:  
 \_\_\_ UPS **X** FedEx \_\_\_ Courier

Tracking #

Relinquished by: (Signature)  
*Dawn Sely Smith*

Date: **8-12-20**  
 Time: **1600**

Received by: (Signature)

Trip Blank Received: Yes / No  
 \_\_\_ YGL / MeOH  
 \_\_\_ TBR

Relinquished by: (Signature)

Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Received by: (Signature)

Temp: **2.0-12.9** °C  
 Bottles Received: **194**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Received for lab by: (Signature)  
*hfy*

Date: **8-13-20**  
 Time: **900**

Hold: \_\_\_\_\_  
 Condition: **NCF OK**



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 17:36	<a href="#">WG1526885</a>
Lead,Dissolved	U		2.95	6.00	1	08/20/2020 03:08	<a href="#">WG1526880</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	550		31.6	100	1	08/16/2020 01:02	<a href="#">WG1526547</a>
(S) a,a,a-Trifluorotoluene(FID)	114			78.0-120		08/16/2020 01:02	<a href="#">WG1526547</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	4.11		0.0941	1.00	1	08/15/2020 08:27	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 08:27	<a href="#">WG1526159</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 08:27	<a href="#">WG1526159</a>
Naphthalene	U	<del>Q</del>	1.00	5.00	1	08/15/2020 08:27	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 08:27	<a href="#">WG1526159</a>
Toluene	0.324	J	0.278	1.00	1	08/15/2020 08:27	<a href="#">WG1526159</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 08:27	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 08:27	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 08:27	<a href="#">WG1526159</a>
Xylenes, Total	0.830	J	0.174	3.00	1	08/15/2020 08:27	<a href="#">WG1526159</a>
(S) Toluene-d8	105			80.0-120		08/15/2020 08:27	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	113			77.0-126		08/15/2020 08:27	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	95.2			70.0-130		08/15/2020 08:27	<a href="#">WG1526159</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 10:45	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	2940		66.7	200	1	08/18/2020 09:00	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	799		83.3	250	1	08/18/2020 09:00	<a href="#">WG1526939</a>
(S) o-Terphenyl	102			52.0-156		08/18/2020 09:00	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	906		66.7	200	1	08/20/2020 02:02	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	141	J	83.3	250	1	08/20/2020 02:02	<a href="#">WG1526940</a>
(S) o-Terphenyl	69.5			52.0-156		08/20/2020 02:02	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 17:38	<a href="#">WG1526885</a>
Lead,Dissolved	U		2.95	6.00	1	08/20/2020 03:11	<a href="#">WG1526880</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	174	UB	31.6	100	1	08/16/2020 01:25	<a href="#">WG1526547</a>
(S) a,a,a-Trifluorotoluene(FID)	113			78.0-120		08/16/2020 01:25	<a href="#">WG1526547</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	0.252	J	0.0941	1.00	1	08/15/2020 08:48	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	124		0.126	1.00	1	08/15/2020 08:48	<a href="#">WG1526159</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 08:48	<a href="#">WG1526159</a>
Naphthalene	U	JO	1.00	5.00	1	08/15/2020 08:48	<a href="#">WG1526159</a>
Tetrachloroethene	11.0		0.300	1.00	1	08/15/2020 08:48	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 08:48	<a href="#">WG1526159</a>
Trichloroethene	35.3		0.190	1.00	1	08/15/2020 08:48	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 08:48	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 08:48	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 08:48	<a href="#">WG1526159</a>
(S) Toluene-d8	106			80.0-120		08/15/2020 08:48	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	106			77.0-126		08/15/2020 08:48	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	94.1			70.0-130		08/15/2020 08:48	<a href="#">WG1526159</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 11:33	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	275		66.7	200	1	08/19/2020 23:59	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	153	J	83.3	250	1	08/19/2020 23:59	<a href="#">WG1526939</a>
(S) o-Terphenyl	109			52.0-156		08/19/2020 23:59	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	132	J	66.7	200	1	08/20/2020 08:17	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	91.9	J	83.3	250	1	08/20/2020 08:17	<a href="#">WG1526940</a>
(S) o-Terphenyl	84.2			52.0-156		08/20/2020 08:17	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 17:41	<a href="#">WG1526885</a>
Lead,Dissolved	U		2.95	6.00	1	08/20/2020 03:14	<a href="#">WG1526880</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	267	<del>B</del>	31.6	100	1	08/16/2020 01:48	<a href="#">WG1526547</a>
(S) a,a,a-Trifluorotoluene(FID)	114			78.0-120		08/16/2020 01:48	<a href="#">WG1526547</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	0.159	J	0.0941	1.00	1	08/15/2020 09:08	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	185	D	1.26	10.0	10	08/19/2020 06:23	<a href="#">WG1528204</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 09:08	<a href="#">WG1526159</a>
Naphthalene	U	<del>JO</del>	1.00	5.00	1	08/15/2020 09:08	<a href="#">WG1526159</a>
Tetrachloroethene	13.1		0.300	1.00	1	08/15/2020 09:08	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 09:08	<a href="#">WG1526159</a>
Trichloroethene	39.0		0.190	1.00	1	08/15/2020 09:08	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 09:08	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 09:08	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 09:08	<a href="#">WG1526159</a>
(S) Toluene-d8	104			80.0-120		08/15/2020 09:08	<a href="#">WG1526159</a>
(S) Toluene-d8	108			80.0-120		08/19/2020 06:23	<a href="#">WG1528204</a>
(S) 4-Bromofluorobenzene	106			77.0-126		08/15/2020 09:08	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	105			77.0-126		08/19/2020 06:23	<a href="#">WG1528204</a>
(S) 1,2-Dichloroethane-d4	93.4			70.0-130		08/15/2020 09:08	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	118			70.0-130		08/19/2020 06:23	<a href="#">WG1528204</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 11:45	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	226		66.7	200	1	08/20/2020 00:19	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	86.1	J	83.3	250	1	08/20/2020 00:19	<a href="#">WG1526939</a>
(S) o-Terphenyl	105			52.0-156		08/20/2020 00:19	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	148	J	66.7	200	1	08/20/2020 08:37	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	112	J	83.3	250	1	08/20/2020 08:37	<a href="#">WG1526940</a>
(S) o-Terphenyl	94.2			52.0-156		08/20/2020 08:37	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 17:44	<a href="#">WG1526885</a>
Lead,Dissolved	U		2.95	6.00	1	08/20/2020 03:16	<a href="#">WG1526880</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
	ug/l		ug/l	ug/l		date / time		
Gasoline Range Organics-NWTPH	<del>52.5</del>	<del>B</del>	<del>31.6</del>	100	UB	1	08/16/2020 02:11	<a href="#">WG1526547</a>
(S) a,a,a-Trifluorotoluene(FID)	113			78.0-120		08/16/2020 02:11	<a href="#">WG1526547</a>	

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 09:28	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/19/2020 06:04	<a href="#">WG1528204</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 09:28	<a href="#">WG1526159</a>
Naphthalene	U	<del>Q</del>	1.00	5.00	1	08/15/2020 09:28	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 09:28	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 09:28	<a href="#">WG1526159</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 09:28	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 09:28	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 09:28	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 09:28	<a href="#">WG1526159</a>
(S) Toluene-d8	108			80.0-120		08/15/2020 09:28	<a href="#">WG1526159</a>
(S) Toluene-d8	106			80.0-120		08/19/2020 06:04	<a href="#">WG1528204</a>
(S) 4-Bromofluorobenzene	103			77.0-126		08/15/2020 09:28	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	98.6			77.0-126		08/19/2020 06:04	<a href="#">WG1528204</a>
(S) 1,2-Dichloroethane-d4	93.9			70.0-130		08/15/2020 09:28	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	120			70.0-130		08/19/2020 06:04	<a href="#">WG1528204</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 11:57	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/20/2020 00:39	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/20/2020 00:39	<a href="#">WG1526939</a>
(S) o-Terphenyl	105			52.0-156		08/20/2020 00:39	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/20/2020 00:39	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/20/2020 00:39	<a href="#">WG1526940</a>
(S) o-Terphenyl	105			52.0-156		08/20/2020 00:39	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 17:46	<a href="#">WG1526885</a>
Lead,Dissolved	U		2.95	6.00	1	08/20/2020 03:19	<a href="#">WG1526880</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	<del>58.3</del>	<del>B J</del>	<del>31.6</del>	100 <b>UB</b>	1	08/16/2020 02:34	<a href="#">WG1526547</a>
(S) a,a,a-Trifluorotoluene(FID)	113			78.0-120		08/16/2020 02:34	<a href="#">WG1526547</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 09:49	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 09:49	<a href="#">WG1526159</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 09:49	<a href="#">WG1526159</a>
Naphthalene	U	<del>Q</del>	1.00	5.00	1	08/15/2020 09:49	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 09:49	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 09:49	<a href="#">WG1526159</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 09:49	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 09:49	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 09:49	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 09:49	<a href="#">WG1526159</a>
(S) Toluene-d8	106			80.0-120		08/15/2020 09:49	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	106			77.0-126		08/15/2020 09:49	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	96.0			70.0-130		08/15/2020 09:49	<a href="#">WG1526159</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 12:09	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/20/2020 00:59	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/20/2020 00:59	<a href="#">WG1526939</a>
(S) o-Terphenyl	102			52.0-156		08/20/2020 00:59	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/20/2020 00:59	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/20/2020 00:59	<a href="#">WG1526940</a>
(S) o-Terphenyl	102			52.0-156		08/20/2020 00:59	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 17:49	<a href="#">WG1526885</a>
Lead,Dissolved	U		2.95	6.00	1	08/20/2020 03:22	<a href="#">WG1526880</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	<del>54.3</del>	<del>B J</del>	<del>31.6</del>	100 UB	1	08/16/2020 02:57	<a href="#">WG1526547</a>
(S) a,a,a-Trifluorotoluene(FID)	113			78.0-120		08/16/2020 02:57	<a href="#">WG1526547</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 10:09	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 10:09	<a href="#">WG1526159</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 10:09	<a href="#">WG1526159</a>
Naphthalene	U	<del>Q</del>	1.00	5.00	1	08/15/2020 10:09	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 10:09	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 10:09	<a href="#">WG1526159</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 10:09	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 10:09	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 10:09	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 10:09	<a href="#">WG1526159</a>
(S) Toluene-d8	105			80.0-120		08/15/2020 10:09	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	106			77.0-126		08/15/2020 10:09	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	95.9			70.0-130		08/15/2020 10:09	<a href="#">WG1526159</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 12:21	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	374		66.7	200	1	08/18/2020 11:11	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	377		83.3	250	1	08/18/2020 11:11	<a href="#">WG1526939</a>
(S) o-Terphenyl	98.9			52.0-156		08/18/2020 11:11	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	88.9	J	66.7	200	1	08/20/2020 04:07	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	93.6	J	83.3	250	1	08/20/2020 04:07	<a href="#">WG1526940</a>
(S) o-Terphenyl	90.5			52.0-156		08/20/2020 04:07	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 17:52	<a href="#">WG1526885</a>
Lead,Dissolved	U		2.95	6.00	1	08/20/2020 03:24	<a href="#">WG1526880</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
	ug/l		ug/l	ug/l		date / time		
Gasoline Range Organics-NWTPH	<del>59.5</del>	<del>B J</del>	<del>31.6</del>	100	UB	1	08/16/2020 03:20	<a href="#">WG1526547</a>
(S) a,a,a-Trifluorotoluene(FID)	113			78.0-120		08/16/2020 03:20	<a href="#">WG1526547</a>	

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 10:29	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 10:29	<a href="#">WG1526159</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 10:29	<a href="#">WG1526159</a>
Naphthalene	U	<del>DO</del>	1.00	5.00	1	08/15/2020 10:29	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 10:29	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 10:29	<a href="#">WG1526159</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 10:29	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 10:29	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 10:29	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 10:29	<a href="#">WG1526159</a>
(S) Toluene-d8	106			80.0-120		08/15/2020 10:29	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	104			77.0-126		08/15/2020 10:29	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	98.0			70.0-130		08/15/2020 10:29	<a href="#">WG1526159</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 12:33	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/24/2020 10:36	<a href="#">WG1527433</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/24/2020 10:36	<a href="#">WG1527433</a>
(S) o-Terphenyl	97.4			52.0-156		08/24/2020 10:36	<a href="#">WG1527433</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/24/2020 05:13	<a href="#">WG1527434</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/24/2020 05:13	<a href="#">WG1527434</a>
(S) o-Terphenyl	91.1			52.0-156		08/24/2020 05:13	<a href="#">WG1527434</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 18:00	<a href="#">WG1526885</a>
Lead,Dissolved	U		2.95	6.00	1	08/20/2020 03:32	<a href="#">WG1526880</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	<del>81.5</del>	<del>B J</del>	<del>31.6</del>	100 UB	1	08/16/2020 03:43	<a href="#">WG1526547</a>
(S) a,a,a-Trifluorotoluene(FID)	112			78.0-120		08/16/2020 03:43	<a href="#">WG1526547</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 10:50	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 10:50	<a href="#">WG1526159</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 10:50	<a href="#">WG1526159</a>
Naphthalene	U	<del>JO</del>	1.00	5.00	1	08/15/2020 10:50	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 10:50	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 10:50	<a href="#">WG1526159</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 10:50	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 10:50	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 10:50	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 10:50	<a href="#">WG1526159</a>
(S) Toluene-d8	107			80.0-120		08/15/2020 10:50	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	104			77.0-126		08/15/2020 10:50	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	95.8			70.0-130		08/15/2020 10:50	<a href="#">WG1526159</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 12:45	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	674		66.7	200	1	08/24/2020 10:56	<a href="#">WG1527433</a>
Residual Range Organics (RRO)	114	J	83.3	250	1	08/24/2020 10:56	<a href="#">WG1527433</a>
(S) o-Terphenyl	94.2			52.0-156		08/24/2020 10:56	<a href="#">WG1527433</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	80.6	J	66.7	200	1	08/24/2020 05:33	<a href="#">WG1527434</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/24/2020 05:33	<a href="#">WG1527434</a>
(S) o-Terphenyl	96.8			52.0-156		08/24/2020 05:33	<a href="#">WG1527434</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 18:02	<a href="#">WG1526885</a>
Lead,Dissolved	U		2.95	6.00	1	08/20/2020 03:35	<a href="#">WG1526880</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	1130		31.6	100	1	08/16/2020 04:06	<a href="#">WG1526547</a>
(S) a,a,a-Trifluorotoluene(FID)	103			78.0-120		08/16/2020 04:06	<a href="#">WG1526547</a>

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	2.37		0.0941	1.00	1	08/15/2020 11:10	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	17.6		0.126	1.00	1	08/15/2020 11:10	<a href="#">WG1526159</a>
Ethylbenzene	0.597	J	0.137	1.00	1	08/15/2020 11:10	<a href="#">WG1526159</a>
Naphthalene	U	<del>JO</del>	1.00	5.00	1	08/15/2020 11:10	<a href="#">WG1526159</a>
Tetrachloroethene	0.542	J	0.300	1.00	1	08/15/2020 11:10	<a href="#">WG1526159</a>
Toluene	1.63		0.278	1.00	1	08/15/2020 11:10	<a href="#">WG1526159</a>
Trichloroethene	1.54		0.190	1.00	1	08/15/2020 11:10	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	<del>0.561</del>	J	<del>0.322</del>	1.00 UB	1	08/15/2020 11:10	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	0.926	J	0.104	1.00	1	08/15/2020 11:10	<a href="#">WG1526159</a>
Xylenes, Total	1.39	J	0.174	3.00	1	08/15/2020 11:10	<a href="#">WG1526159</a>
(S) Toluene-d8	101			80.0-120		08/15/2020 11:10	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	109			77.0-126		08/15/2020 11:10	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	91.1			70.0-130		08/15/2020 11:10	<a href="#">WG1526159</a>

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 13:09	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	2200		66.7	200	1	08/24/2020 09:36	<a href="#">WG1527433</a>
Residual Range Organics (RRO)	147	J	83.3	250	1	08/24/2020 09:36	<a href="#">WG1527433</a>
(S) o-Terphenyl	95.8			52.0-156		08/24/2020 09:36	<a href="#">WG1527433</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	1380		66.7	200	1	08/24/2020 05:53	<a href="#">WG1527434</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/24/2020 05:53	<a href="#">WG1527434</a>
(S) o-Terphenyl	95.8			52.0-156		08/24/2020 05:53	<a href="#">WG1527434</a>



## Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 18:05	<a href="#">WG1526885</a>
Lead,Dissolved	U		2.95	6.00	1	08/20/2020 03:38	<a href="#">WG1526880</a>

1 Cp

2 Tc

3 Ss

## Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	<del>62.0</del>	<del>B J</del>	<del>31.6</del>	100 <b>UB</b>	1	08/16/2020 04:29	<a href="#">WG1526547</a>
(S) a,a,a-Trifluorotoluene(FID)	113			78.0-120		08/16/2020 04:29	<a href="#">WG1526547</a>

4 Cn

5 Sr

6 Qc

## Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 11:30	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 11:30	<a href="#">WG1526159</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 11:30	<a href="#">WG1526159</a>
Naphthalene	U	<del>Q</del>	1.00	5.00	1	08/15/2020 11:30	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 11:30	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 11:30	<a href="#">WG1526159</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 11:30	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 11:30	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 11:30	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 11:30	<a href="#">WG1526159</a>
(S) Toluene-d8	105			80.0-120		08/15/2020 11:30	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	104			77.0-126		08/15/2020 11:30	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	95.4			70.0-130		08/15/2020 11:30	<a href="#">WG1526159</a>

7 Gl

8 Al

9 Sc

## EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 13:21	<a href="#">WG1526687</a>

## Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	117	<u>J</u>	66.7	200	1	08/24/2020 11:17	<a href="#">WG1527433</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/24/2020 11:17	<a href="#">WG1527433</a>
(S) o-Terphenyl	96.8			52.0-156		08/24/2020 11:17	<a href="#">WG1527433</a>

## Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/24/2020 06:13	<a href="#">WG1527434</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/24/2020 06:13	<a href="#">WG1527434</a>
(S) o-Terphenyl	87.9			52.0-156		08/24/2020 06:13	<a href="#">WG1527434</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 18:08	<a href="#">WG1526885</a>
Lead,Dissolved	U		2.95	6.00	1	08/20/2020 03:40	<a href="#">WG1526880</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	918		31.6	100	1	08/16/2020 17:00	<a href="#">WG1526980</a>
(S) a,a,a-Trifluorotoluene(FID)	93.9			78.0-120		08/16/2020 17:00	<a href="#">WG1526980</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	0.652	J	0.0941	1.00	1	08/15/2020 11:51	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	7.54		0.126	1.00	1	08/15/2020 11:51	<a href="#">WG1526159</a>
Ethylbenzene	1.21		0.137	1.00	1	08/15/2020 11:51	<a href="#">WG1526159</a>
Naphthalene	5.79	JO	1.00	5.00	1	08/15/2020 11:51	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 11:51	<a href="#">WG1526159</a>
Toluene	1.14		0.278	1.00	1	08/15/2020 11:51	<a href="#">WG1526159</a>
Trichloroethene	0.225	J	0.190	1.00	1	08/15/2020 11:51	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	49.0		0.322	1.00	1	08/15/2020 11:51	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	53.9		0.104	1.00	1	08/15/2020 11:51	<a href="#">WG1526159</a>
Xylenes, Total	10.9		0.174	3.00	1	08/15/2020 11:51	<a href="#">WG1526159</a>
(S) Toluene-d8	101			80.0-120		08/15/2020 11:51	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	107			77.0-126		08/15/2020 11:51	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	91.9			70.0-130		08/15/2020 11:51	<a href="#">WG1526159</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 13:33	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	829		66.7	200	1	08/24/2020 09:56	<a href="#">WG1527433</a>
Residual Range Organics (RRO)	179	J	83.3	250	1	08/24/2020 09:56	<a href="#">WG1527433</a>
(S) o-Terphenyl	94.7			52.0-156		08/24/2020 09:56	<a href="#">WG1527433</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	208		66.7	200	1	08/24/2020 06:33	<a href="#">WG1527434</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/24/2020 06:33	<a href="#">WG1527434</a>
(S) o-Terphenyl	82.6			52.0-156		08/24/2020 06:33	<a href="#">WG1527434</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 18:10	<a href="#">WG1526885</a>
Lead,Dissolved	U		2.95	6.00	1	08/20/2020 03:43	<a href="#">WG1526880</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	36.5	J	31.6	100	1	08/16/2020 17:22	<a href="#">WG1526980</a>
(S) a,a,a-Trifluorotoluene(FID)	95.8			78.0-120		08/16/2020 17:22	<a href="#">WG1526980</a>

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 12:11	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 12:11	<a href="#">WG1526159</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 12:11	<a href="#">WG1526159</a>
Naphthalene	U	J	1.00	5.00	1	08/15/2020 12:11	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 12:11	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 12:11	<a href="#">WG1526159</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 12:11	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	<del>0.479</del>	J	<del>0.322</del>	1.00	UB	08/15/2020 12:11	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	<del>0.494</del>	J	<del>0.104</del>	1.00	UB	08/15/2020 12:11	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 12:11	<a href="#">WG1526159</a>
(S) Toluene-d8	105			80.0-120		08/15/2020 12:11	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	103			77.0-126		08/15/2020 12:11	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	95.7			70.0-130		08/15/2020 12:11	<a href="#">WG1526159</a>

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 13:45	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	106	J	66.7	200	1	08/24/2020 11:37	<a href="#">WG1527433</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/24/2020 11:37	<a href="#">WG1527433</a>
(S) o-Terphenyl	92.1			52.0-156		08/24/2020 11:37	<a href="#">WG1527433</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/24/2020 06:53	<a href="#">WG1527434</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/24/2020 06:53	<a href="#">WG1527434</a>
(S) o-Terphenyl	80.5			52.0-156		08/24/2020 06:53	<a href="#">WG1527434</a>



Collected date/time: 08/12/20 09:00

L1250218

## Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 23:51	<a href="#">WG1528295</a>
Lead,Dissolved	U		2.95	6.00	1	08/19/2020 10:43	<a href="#">WG1526881</a>

1 Cp

2 Tc

3 Ss

## Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/16/2020 17:44	<a href="#">WG1526980</a>
(S) a,a,a-Trifluorotoluene(FID)	95.7			78.0-120		08/16/2020 17:44	<a href="#">WG1526980</a>

4 Cn

5 Sr

6 Qc

## Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 12:31	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 12:31	<a href="#">WG1526159</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 12:31	<a href="#">WG1526159</a>
Naphthalene	U	<del>Q</del>	1.00	5.00	1	08/15/2020 12:31	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 12:31	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 12:31	<a href="#">WG1526159</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 12:31	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	0.390	J	0.322	1.00	1	08/15/2020 12:31	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	0.117	J	0.104	1.00	1	08/15/2020 12:31	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 12:31	<a href="#">WG1526159</a>
(S) Toluene-d8	104			80.0-120		08/15/2020 12:31	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	105			77.0-126		08/15/2020 12:31	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	94.5			70.0-130		08/15/2020 12:31	<a href="#">WG1526159</a>

7 Gl

8 Al

9 Sc

## EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	0.0230		0.00536	0.0200	1	08/17/2020 13:57	<a href="#">WG1526687</a>

## Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/24/2020 11:57	<a href="#">WG1527433</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/24/2020 11:57	<a href="#">WG1527433</a>
(S) o-Terphenyl	97.4			52.0-156		08/24/2020 11:57	<a href="#">WG1527433</a>

## Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/24/2020 07:13	<a href="#">WG1527434</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/24/2020 07:13	<a href="#">WG1527434</a>
(S) o-Terphenyl	88.9			52.0-156		08/24/2020 07:13	<a href="#">WG1527434</a>



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/16/2020 15:31	<a href="#">WG1526980</a>
(S) a,a,a-Trifluorotoluene(FID)	95.8			78.0-120		08/16/2020 15:31	<a href="#">WG1526980</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	08/15/2020 08:07	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 08:07	<a href="#">WG1526159</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 08:07	<a href="#">WG1526159</a>
Naphthalene	U	<del>JO</del>	1.00	5.00	1	08/15/2020 08:07	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 08:07	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 08:07	<a href="#">WG1526159</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 08:07	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 08:07	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 08:07	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 08:07	<a href="#">WG1526159</a>
(S) Toluene-d8	105			80.0-120		08/15/2020 08:07	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	108			77.0-126		08/15/2020 08:07	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	95.3			70.0-130		08/15/2020 08:07	<a href="#">WG1526159</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Arcadis - Chevron - WA

Sample Delivery Group: L1250224

Samples Received: 08/13/2020

Project Number: 30045360

Description: 211577

Report To: Ada Hamilton  
1100 Olive Way  
Suite 800  
Seattle, WA 98101

Entire Report Reviewed By:



Brian Ford  
Project Manager

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<b>Cp: Cover Page</b>	<b>1</b>	<b>1</b> Cp
<b>Tc: Table of Contents</b>	<b>2</b>	
<b>Ss: Sample Summary</b>	<b>3</b>	<b>2</b> Tc
<b>Cn: Case Narrative</b>	<b>6</b>	
<b>Sr: Sample Results</b>	<b>7</b>	<b>3</b> Ss
MW-18_200811 L1250224-01	7	
MW-17_200811 L1250224-02	8	<b>4</b> Cn
MW-27_200811 L1250224-03	9	<b>5</b> Sr
MW-28_200811 L1250224-04	10	
MW-29_200811 L1250224-05	11	<b>6</b> Qc
MW-30_200811 L1250224-06	12	
MW-31_200811 L1250224-07	13	<b>7</b> Gl
MW-34_200811 L1250224-08	14	<b>8</b> Al
MW-35_200811 L1250224-09	15	
DUP-1_200811 L1250224-10	16	<b>9</b> Sc
RINSATE BLANK_200811 L1250224-11	17	
TRIP BLANK_200811 L1250224-12	18	
<b>Qc: Quality Control Summary</b>	<b>19</b>	
Metals (ICP) by Method 6010D	19	
Volatile Organic Compounds (GC) by Method NWTPHGX	21	
Volatile Organic Compounds (GC/MS) by Method 8260D	24	
EDB / DBCP by Method 8011	27	
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	29	
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	30	
<b>Gl: Glossary of Terms</b>	<b>31</b>	
<b>Al: Accreditations &amp; Locations</b>	<b>32</b>	
<b>Sc: Sample Chain of Custody</b>	<b>33</b>	

# SAMPLE SUMMARY



## MW-18\_200811 L1250224-01 GW

Collected by: DG,TB,BP  
 Collected date/time: 08/11/20 14:15  
 Received date/time: 08/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1526881	1	08/19/20 08:14	08/19/20 10:46	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1527069	1	08/18/20 16:39	08/19/20 02:48	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1526980	1	08/16/20 18:06	08/16/20 18:06	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1526159	1	08/15/20 12:52	08/15/20 12:52	JCP	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1526687	1	08/16/20 06:07	08/17/20 14:09	LEL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1526939	1	08/17/20 04:55	08/18/20 11:37	DMG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1526940	1	08/17/20 04:56	08/20/20 04:27	CAG	Mt. Juliet, TN

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## MW-17\_200811 L1250224-02 GW

Collected by: DG,TB,BP  
 Collected date/time: 08/11/20 12:30  
 Received date/time: 08/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1526881	1	08/19/20 08:14	08/19/20 10:33	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1527069	1	08/18/20 16:39	08/19/20 02:51	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1526980	1	08/16/20 18:28	08/16/20 18:28	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1526159	1	08/15/20 13:12	08/15/20 13:12	JCP	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1526687	1	08/16/20 06:07	08/17/20 14:21	LEL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1526939	1	08/17/20 04:55	08/18/20 12:03	DMG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1526940	1	08/17/20 04:56	08/18/20 12:03	DMG	Mt. Juliet, TN

## MW-27\_200811 L1250224-03 GW

Collected by: DG,TB,BP  
 Collected date/time: 08/11/20 14:10  
 Received date/time: 08/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1526881	1	08/19/20 08:14	08/19/20 10:49	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1527069	1	08/18/20 16:39	08/19/20 02:54	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1526980	1	08/16/20 18:50	08/16/20 18:50	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1526159	1	08/15/20 13:32	08/15/20 13:32	JCP	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1526687	1	08/16/20 06:07	08/17/20 14:33	LEL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1526939	1	08/17/20 04:55	08/18/20 12:31	DMG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1526940	1	08/17/20 04:56	08/18/20 12:31	CAG	Mt. Juliet, TN

## MW-28\_200811 L1250224-04 GW

Collected by: DG,TB,BP  
 Collected date/time: 08/11/20 10:50  
 Received date/time: 08/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1526881	1	08/19/20 08:14	08/19/20 10:51	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1527069	1	08/18/20 16:39	08/19/20 02:56	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1526980	1	08/16/20 19:12	08/16/20 19:12	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1526159	1	08/15/20 13:53	08/15/20 13:53	JCP	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1526687	1	08/16/20 06:07	08/17/20 14:45	LEL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1526939	1	08/17/20 04:55	08/18/20 12:57	DMG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1526940	1	08/17/20 04:56	08/18/20 12:57	CAG	Mt. Juliet, TN

## MW-29\_200811 L1250224-05 GW

Collected by: DG,TB,BP  
 Collected date/time: 08/11/20 09:35  
 Received date/time: 08/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1526881	1	08/19/20 08:14	08/19/20 10:59	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1527069	1	08/18/20 16:39	08/19/20 03:04	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1526980	1	08/16/20 19:34	08/16/20 19:34	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1526159	1	08/15/20 14:13	08/15/20 14:13	JCP	Mt. Juliet, TN

# SAMPLE SUMMARY



## MW-29\_200811 L1250224-05 GW

Collected by  
DG,TB,BP  
Collected date/time  
08/11/20 09:35  
Received date/time  
08/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
EDB / DBCP by Method 8011	WG1526687	1	08/16/20 06:07	08/17/20 14:57	LEL	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1526939	1	08/17/20 04:55	08/18/20 13:23	DMG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1526940	1	08/17/20 04:56	08/18/20 13:23	CAG	Mt. Juliet, TN

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## MW-30\_200811 L1250224-06 GW

Collected by  
DG,TB,BP  
Collected date/time  
08/11/20 12:15  
Received date/time  
08/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1526881	1	08/19/20 08:14	08/19/20 11:02	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1527069	1	08/18/20 16:39	08/19/20 02:38	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1526980	1	08/16/20 19:56	08/16/20 19:56	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1526159	1	08/15/20 14:33	08/15/20 14:33	JCP	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1526688	1	08/16/20 06:01	08/17/20 21:53	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1526939	1	08/17/20 04:55	08/18/20 13:49	DMG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1526940	1	08/17/20 04:56	08/18/20 13:49	CAG	Mt. Juliet, TN

## MW-31\_200811 L1250224-07 GW

Collected by  
DG,TB,BP  
Collected date/time  
08/11/20 10:30  
Received date/time  
08/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1526881	1	08/19/20 08:14	08/19/20 11:05	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1527069	1	08/18/20 16:39	08/19/20 03:07	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1526980	1	08/16/20 20:18	08/16/20 20:18	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1526501	1	08/15/20 18:37	08/15/20 18:37	ADM	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1526688	1	08/16/20 06:01	08/17/20 21:29	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1526939	1	08/17/20 04:55	08/18/20 14:15	DMG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1526940	1	08/17/20 04:56	08/18/20 14:15	CAG	Mt. Juliet, TN

## MW-34\_200811 L1250224-08 GW

Collected by  
DG,TB,BP  
Collected date/time  
08/11/20 12:45  
Received date/time  
08/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1526881	1	08/19/20 08:14	08/19/20 11:07	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1527069	1	08/18/20 16:39	08/19/20 03:10	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1526980	1	08/16/20 20:40	08/16/20 20:40	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1526501	1	08/15/20 18:57	08/15/20 18:57	ADM	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1526688	1	08/16/20 06:01	08/17/20 22:16	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1526939	1	08/17/20 04:55	08/18/20 14:42	DMG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1526940	1	08/17/20 04:56	08/18/20 14:42	CAG	Mt. Juliet, TN

## MW-35\_200811 L1250224-09 GW

Collected by  
DG,TB,BP  
Collected date/time  
08/11/20 00:00  
Received date/time  
08/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1526881	1	08/19/20 08:14	08/19/20 11:10	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1527069	1	08/18/20 16:39	08/19/20 03:12	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1526980	1	08/16/20 21:02	08/16/20 21:02	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1526501	1	08/15/20 19:18	08/15/20 19:18	ADM	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1526688	1	08/16/20 06:01	08/17/20 22:28	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1526939	1	08/17/20 04:55	08/18/20 15:08	DMG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1526940	1	08/17/20 04:56	08/18/20 15:08	CAG	Mt. Juliet, TN

# SAMPLE SUMMARY

## DUP-1\_200811 L1250224-10 GW

Collected by  
DG,TB,BP      Collected date/time  
08/11/20 00:00      Received date/time  
08/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1526881	1	08/19/20 08:14	08/19/20 11:13	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1527069	1	08/18/20 16:39	08/19/20 03:15	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1526980	1	08/16/20 21:24	08/16/20 21:24	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1526501	1	08/15/20 19:38	08/15/20 19:38	ADM	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1526688	1	08/16/20 06:01	08/17/20 22:40	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1526939	1	08/17/20 04:55	08/18/20 15:34	DMG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1526940	1	08/17/20 04:56	08/18/20 15:34	CAG	Mt. Juliet, TN

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## RINSATE BLANK\_200811 L1250224-11 GW

Collected by  
DG,TB,BP      Collected date/time  
08/11/20 11:40      Received date/time  
08/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1526881	1	08/19/20 08:14	08/19/20 11:15	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1527069	1	08/18/20 16:39	08/19/20 03:18	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1527202	1	08/17/20 12:55	08/17/20 12:55	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1526501	1	08/15/20 19:58	08/15/20 19:58	ADM	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1526688	1	08/16/20 06:01	08/17/20 22:52	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1526939	1	08/17/20 04:55	08/18/20 16:00	DMG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1526940	1	08/17/20 04:56	08/18/20 16:00	CAG	Mt. Juliet, TN

## TRIP BLANK\_200811 L1250224-12 GW

Collected by  
DG,TB,BP      Collected date/time  
08/11/20 00:00      Received date/time  
08/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1527405	1	08/17/20 17:32	08/17/20 17:32	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1526501	1	08/15/20 16:35	08/15/20 16:35	ADM	Mt. Juliet, TN



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	4.89	J	2.95	6.00	1	08/19/2020 02:48	<a href="#">WG1527069</a>
Lead,Dissolved	U		2.95	6.00	1	08/19/2020 10:46	<a href="#">WG1526881</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	1750		31.6	100	1	08/16/2020 18:06	<a href="#">WG1526980</a>
(S) a,a,a-Trifluorotoluene(FID)	97.1			78.0-120		08/16/2020 18:06	<a href="#">WG1526980</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	8.52		0.0941	1.00	1	08/15/2020 12:52	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	24.7		0.126	1.00	1	08/15/2020 12:52	<a href="#">WG1526159</a>
Ethylbenzene	0.750	J	0.137	1.00	1	08/15/2020 12:52	<a href="#">WG1526159</a>
Naphthalene	U	JO	1.00	5.00	1	08/15/2020 12:52	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 12:52	<a href="#">WG1526159</a>
Toluene	2.02		0.278	1.00	1	08/15/2020 12:52	<a href="#">WG1526159</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 12:52	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	1.70		0.322	1.00	1	08/15/2020 12:52	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	0.194	J	0.104	1.00	1	08/15/2020 12:52	<a href="#">WG1526159</a>
Xylenes, Total	1.69	J	0.174	3.00	1	08/15/2020 12:52	<a href="#">WG1526159</a>
(S) Toluene-d8	101			80.0-120		08/15/2020 12:52	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	109			77.0-126		08/15/2020 12:52	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	97.2			70.0-130		08/15/2020 12:52	<a href="#">WG1526159</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 14:09	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	1030		66.7	200	1	08/18/2020 11:37	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	316		83.3	250	1	08/18/2020 11:37	<a href="#">WG1526939</a>
(S) o-Terphenyl	96.8			52.0-156		08/18/2020 11:37	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	659		66.7	200	1	08/20/2020 04:27	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/20/2020 04:27	<a href="#">WG1526940</a>
(S) o-Terphenyl	90.0			52.0-156		08/20/2020 04:27	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 02:51	<a href="#">WG1527069</a>
Lead,Dissolved	U		2.95	6.00	1	08/19/2020 10:33	<a href="#">WG1526881</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	39.8	J	31.6	100	1	08/16/2020 18:28	<a href="#">WG1526980</a>
(S) a,a,a-Trifluorotoluene(FID)	95.7			78.0-120		08/16/2020 18:28	<a href="#">WG1526980</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 13:12	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 13:12	<a href="#">WG1526159</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 13:12	<a href="#">WG1526159</a>
Naphthalene	U	JO	1.00	5.00	1	08/15/2020 13:12	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 13:12	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 13:12	<a href="#">WG1526159</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 13:12	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 13:12	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 13:12	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 13:12	<a href="#">WG1526159</a>
(S) Toluene-d8	105			80.0-120		08/15/2020 13:12	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	106			77.0-126		08/15/2020 13:12	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	94.1			70.0-130		08/15/2020 13:12	<a href="#">WG1526159</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 14:21	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	157	J	66.7	200	1	08/18/2020 12:03	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	235	J	83.3	250	1	08/18/2020 12:03	<a href="#">WG1526939</a>
(S) o-Terphenyl	102			52.0-156		08/18/2020 12:03	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	157	J	66.7	200	1	08/18/2020 12:03	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	235	J	83.3	250	1	08/18/2020 12:03	<a href="#">WG1526940</a>
(S) o-Terphenyl	102			52.0-156		08/18/2020 12:03	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	3.08	J	2.95	6.00	1	08/19/2020 02:54	<a href="#">WG1527069</a>
Lead,Dissolved	U		2.95	6.00	1	08/19/2020 10:49	<a href="#">WG1526881</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/16/2020 18:50	<a href="#">WG1526980</a>
(S) a,a,a-Trifluorotoluene(FID)	95.5			78.0-120		08/16/2020 18:50	<a href="#">WG1526980</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 13:32	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 13:32	<a href="#">WG1526159</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 13:32	<a href="#">WG1526159</a>
Naphthalene	U	JO	1.00	5.00	1	08/15/2020 13:32	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 13:32	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 13:32	<a href="#">WG1526159</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 13:32	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 13:32	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 13:32	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 13:32	<a href="#">WG1526159</a>
(S) Toluene-d8	108			80.0-120		08/15/2020 13:32	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	102			77.0-126		08/15/2020 13:32	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	93.8			70.0-130		08/15/2020 13:32	<a href="#">WG1526159</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 14:33	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/18/2020 12:31	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	138	J	83.3	250	1	08/18/2020 12:31	<a href="#">WG1526939</a>
(S) o-Terphenyl	97.9			52.0-156		08/18/2020 12:31	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/18/2020 12:31	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	138	J	83.3	250	1	08/18/2020 12:31	<a href="#">WG1526940</a>
(S) o-Terphenyl	97.9			52.0-156		08/18/2020 12:31	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 02:56	<a href="#">WG1527069</a>
Lead,Dissolved	U		2.95	6.00	1	08/19/2020 10:51	<a href="#">WG1526881</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/16/2020 19:12	<a href="#">WG1526980</a>
(S) a,a,a-Trifluorotoluene(FID)	95.7			78.0-120		08/16/2020 19:12	<a href="#">WG1526980</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 13:53	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 13:53	<a href="#">WG1526159</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 13:53	<a href="#">WG1526159</a>
Naphthalene	U	J0	1.00	5.00	1	08/15/2020 13:53	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 13:53	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 13:53	<a href="#">WG1526159</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 13:53	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 13:53	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 13:53	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 13:53	<a href="#">WG1526159</a>
(S) Toluene-d8	107			80.0-120		08/15/2020 13:53	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	102			77.0-126		08/15/2020 13:53	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	94.5			70.0-130		08/15/2020 13:53	<a href="#">WG1526159</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 14:45	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/18/2020 12:57	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	111	J	83.3	250	1	08/18/2020 12:57	<a href="#">WG1526939</a>
(S) o-Terphenyl	198	J1		52.0-156		08/18/2020 12:57	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/18/2020 12:57	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	111	J	83.3	250	1	08/18/2020 12:57	<a href="#">WG1526940</a>
(S) o-Terphenyl	198	J1		52.0-156		08/18/2020 12:57	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	5.72	J	2.95	6.00	1	08/19/2020 03:04	<a href="#">WG1527069</a>
Lead,Dissolved	4.01	J	2.95	6.00	1	08/19/2020 10:59	<a href="#">WG1526881</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/16/2020 19:34	<a href="#">WG1526980</a>
(S) a,a,a-Trifluorotoluene(FID)	96.1			78.0-120		08/16/2020 19:34	<a href="#">WG1526980</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 14:13	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 14:13	<a href="#">WG1526159</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 14:13	<a href="#">WG1526159</a>
Naphthalene	U	JO	1.00	5.00	1	08/15/2020 14:13	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 14:13	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 14:13	<a href="#">WG1526159</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 14:13	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 14:13	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 14:13	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 14:13	<a href="#">WG1526159</a>
(S) Toluene-d8	106			80.0-120		08/15/2020 14:13	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	104			77.0-126		08/15/2020 14:13	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	95.4			70.0-130		08/15/2020 14:13	<a href="#">WG1526159</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 14:57	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/18/2020 13:23	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	134	J	83.3	250	1	08/18/2020 13:23	<a href="#">WG1526939</a>
(S) o-Terphenyl	96.8			52.0-156		08/18/2020 13:23	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/18/2020 13:23	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	134	J	83.3	250	1	08/18/2020 13:23	<a href="#">WG1526940</a>
(S) o-Terphenyl	96.8			52.0-156		08/18/2020 13:23	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 02:38	<a href="#">WG1527069</a>
Lead,Dissolved	U		2.95	6.00	1	08/19/2020 11:02	<a href="#">WG1526881</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/16/2020 19:56	<a href="#">WG1526980</a>
(S) a,a,a-Trifluorotoluene(FID)	95.8			78.0-120		08/16/2020 19:56	<a href="#">WG1526980</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 14:33	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	0.510	J	0.126	1.00	1	08/15/2020 14:33	<a href="#">WG1526159</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 14:33	<a href="#">WG1526159</a>
Naphthalene	U	JO	1.00	5.00	1	08/15/2020 14:33	<a href="#">WG1526159</a>
Tetrachloroethene	8.85		0.300	1.00	1	08/15/2020 14:33	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 14:33	<a href="#">WG1526159</a>
Trichloroethene	5.28		0.190	1.00	1	08/15/2020 14:33	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 14:33	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 14:33	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 14:33	<a href="#">WG1526159</a>
(S) Toluene-d8	106			80.0-120		08/15/2020 14:33	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	104			77.0-126		08/15/2020 14:33	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	94.2			70.0-130		08/15/2020 14:33	<a href="#">WG1526159</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 21:53	<a href="#">WG1526688</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	74.3	J	66.7	200	1	08/18/2020 13:49	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	136	J	83.3	250	1	08/18/2020 13:49	<a href="#">WG1526939</a>
(S) o-Terphenyl	98.4			52.0-156		08/18/2020 13:49	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	74.3	J	66.7	200	1	08/18/2020 13:49	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	136	J	83.3	250	1	08/18/2020 13:49	<a href="#">WG1526940</a>
(S) o-Terphenyl	98.4			52.0-156		08/18/2020 13:49	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	3.93	J	2.95	6.00	1	08/19/2020 03:07	<a href="#">WG1527069</a>
Lead,Dissolved	U		2.95	6.00	1	08/19/2020 11:05	<a href="#">WG1526881</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/16/2020 20:18	<a href="#">WG1526980</a>
(S) a,a,a-Trifluorotoluene(FID)	95.9			78.0-120		08/16/2020 20:18	<a href="#">WG1526980</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 18:37	<a href="#">WG1526501</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 18:37	<a href="#">WG1526501</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 18:37	<a href="#">WG1526501</a>
Naphthalene	U		1.00	5.00	1	08/15/2020 18:37	<a href="#">WG1526501</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 18:37	<a href="#">WG1526501</a>
Toluene	U		0.278	1.00	1	08/15/2020 18:37	<a href="#">WG1526501</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 18:37	<a href="#">WG1526501</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 18:37	<a href="#">WG1526501</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 18:37	<a href="#">WG1526501</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 18:37	<a href="#">WG1526501</a>
(S) Toluene-d8	104			80.0-120		08/15/2020 18:37	<a href="#">WG1526501</a>
(S) 4-Bromofluorobenzene	103			77.0-126		08/15/2020 18:37	<a href="#">WG1526501</a>
(S) 1,2-Dichloroethane-d4	98.3			70.0-130		08/15/2020 18:37	<a href="#">WG1526501</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 21:29	<a href="#">WG1526688</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/18/2020 14:15	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	108	J	83.3	250	1	08/18/2020 14:15	<a href="#">WG1526939</a>
(S) o-Terphenyl	96.3			52.0-156		08/18/2020 14:15	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/18/2020 14:15	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	108	J	83.3	250	1	08/18/2020 14:15	<a href="#">WG1526940</a>
(S) o-Terphenyl	96.3			52.0-156		08/18/2020 14:15	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	5.08	J	2.95	6.00	1	08/19/2020 03:10	<a href="#">WG1527069</a>
Lead,Dissolved	2.96	J	2.95	6.00	1	08/19/2020 11:07	<a href="#">WG1526881</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/16/2020 20:40	<a href="#">WG1526980</a>
(S) a,a,a-Trifluorotoluene(FID)	96.1			78.0-120		08/16/2020 20:40	<a href="#">WG1526980</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 18:57	<a href="#">WG1526501</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 18:57	<a href="#">WG1526501</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 18:57	<a href="#">WG1526501</a>
Naphthalene	U		1.00	5.00	1	08/15/2020 18:57	<a href="#">WG1526501</a>
Tetrachloroethene	3.03		0.300	1.00	1	08/15/2020 18:57	<a href="#">WG1526501</a>
Toluene	U		0.278	1.00	1	08/15/2020 18:57	<a href="#">WG1526501</a>
Trichloroethene	0.360	J	0.190	1.00	1	08/15/2020 18:57	<a href="#">WG1526501</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 18:57	<a href="#">WG1526501</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 18:57	<a href="#">WG1526501</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 18:57	<a href="#">WG1526501</a>
(S) Toluene-d8	106			80.0-120		08/15/2020 18:57	<a href="#">WG1526501</a>
(S) 4-Bromofluorobenzene	102			77.0-126		08/15/2020 18:57	<a href="#">WG1526501</a>
(S) 1,2-Dichloroethane-d4	95.3			70.0-130		08/15/2020 18:57	<a href="#">WG1526501</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 22:16	<a href="#">WG1526688</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/18/2020 14:42	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	139	J	83.3	250	1	08/18/2020 14:42	<a href="#">WG1526939</a>
(S) o-Terphenyl	96.8			52.0-156		08/18/2020 14:42	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/18/2020 14:42	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	139	J	83.3	250	1	08/18/2020 14:42	<a href="#">WG1526940</a>
(S) o-Terphenyl	96.8			52.0-156		08/18/2020 14:42	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	3.58	J	2.95	6.00	1	08/19/2020 03:12	<a href="#">WG1527069</a>
Lead,Dissolved	4.76	J	2.95	6.00	1	08/19/2020 11:10	<a href="#">WG1526881</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/16/2020 21:02	<a href="#">WG1526980</a>
(S) a,a,a-Trifluorotoluene(FID)	95.9			78.0-120		08/16/2020 21:02	<a href="#">WG1526980</a>

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 19:18	<a href="#">WG1526501</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 19:18	<a href="#">WG1526501</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 19:18	<a href="#">WG1526501</a>
Naphthalene	U		1.00	5.00	1	08/15/2020 19:18	<a href="#">WG1526501</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 19:18	<a href="#">WG1526501</a>
Toluene	U		0.278	1.00	1	08/15/2020 19:18	<a href="#">WG1526501</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 19:18	<a href="#">WG1526501</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 19:18	<a href="#">WG1526501</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 19:18	<a href="#">WG1526501</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 19:18	<a href="#">WG1526501</a>
(S) Toluene-d8	103			80.0-120		08/15/2020 19:18	<a href="#">WG1526501</a>
(S) 4-Bromofluorobenzene	105			77.0-126		08/15/2020 19:18	<a href="#">WG1526501</a>
(S) 1,2-Dichloroethane-d4	95.8			70.0-130		08/15/2020 19:18	<a href="#">WG1526501</a>

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 22:28	<a href="#">WG1526688</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/18/2020 15:08	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	133	J	83.3	250	1	08/18/2020 15:08	<a href="#">WG1526939</a>
(S) o-Terphenyl	103			52.0-156		08/18/2020 15:08	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/18/2020 15:08	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	133	J	83.3	250	1	08/18/2020 15:08	<a href="#">WG1526940</a>
(S) o-Terphenyl	103			52.0-156		08/18/2020 15:08	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	2.96	J	2.95	6.00	1	08/19/2020 03:15	<a href="#">WG1527069</a>
Lead,Dissolved	U		2.95	6.00	1	08/19/2020 11:13	<a href="#">WG1526881</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/16/2020 21:24	<a href="#">WG1526980</a>
(S) a,a,a-Trifluorotoluene(FID)	95.9			78.0-120		08/16/2020 21:24	<a href="#">WG1526980</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 19:38	<a href="#">WG1526501</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 19:38	<a href="#">WG1526501</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 19:38	<a href="#">WG1526501</a>
Naphthalene	U		1.00	5.00	1	08/15/2020 19:38	<a href="#">WG1526501</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 19:38	<a href="#">WG1526501</a>
Toluene	U		0.278	1.00	1	08/15/2020 19:38	<a href="#">WG1526501</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 19:38	<a href="#">WG1526501</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 19:38	<a href="#">WG1526501</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 19:38	<a href="#">WG1526501</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 19:38	<a href="#">WG1526501</a>
(S) Toluene-d8	104			80.0-120		08/15/2020 19:38	<a href="#">WG1526501</a>
(S) 4-Bromofluorobenzene	104			77.0-126		08/15/2020 19:38	<a href="#">WG1526501</a>
(S) 1,2-Dichloroethane-d4	97.6			70.0-130		08/15/2020 19:38	<a href="#">WG1526501</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 22:40	<a href="#">WG1526688</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	114	J	66.7	200	1	08/18/2020 15:34	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	175	J	83.3	250	1	08/18/2020 15:34	<a href="#">WG1526939</a>
(S) o-Terphenyl	102			52.0-156		08/18/2020 15:34	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	114	J	66.7	200	1	08/18/2020 15:34	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	175	J	83.3	250	1	08/18/2020 15:34	<a href="#">WG1526940</a>
(S) o-Terphenyl	102			52.0-156		08/18/2020 15:34	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 03:18	<a href="#">WG1527069</a>
Lead,Dissolved	3.38	J	2.95	6.00	1	08/19/2020 11:15	<a href="#">WG1526881</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	71.1	B J	31.6	100	1	08/17/2020 12:55	<a href="#">WG1527202</a>
(S) a,a,a-Trifluorotoluene(FID)	112			78.0-120		08/17/2020 12:55	<a href="#">WG1527202</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 19:58	<a href="#">WG1526501</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 19:58	<a href="#">WG1526501</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 19:58	<a href="#">WG1526501</a>
Naphthalene	U		1.00	5.00	1	08/15/2020 19:58	<a href="#">WG1526501</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 19:58	<a href="#">WG1526501</a>
Toluene	U		0.278	1.00	1	08/15/2020 19:58	<a href="#">WG1526501</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 19:58	<a href="#">WG1526501</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 19:58	<a href="#">WG1526501</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 19:58	<a href="#">WG1526501</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 19:58	<a href="#">WG1526501</a>
(S) Toluene-d8	104			80.0-120		08/15/2020 19:58	<a href="#">WG1526501</a>
(S) 4-Bromofluorobenzene	103			77.0-126		08/15/2020 19:58	<a href="#">WG1526501</a>
(S) 1,2-Dichloroethane-d4	97.5			70.0-130		08/15/2020 19:58	<a href="#">WG1526501</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 22:52	<a href="#">WG1526688</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/18/2020 16:00	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/18/2020 16:00	<a href="#">WG1526939</a>
(S) o-Terphenyl	96.3			52.0-156		08/18/2020 16:00	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/18/2020 16:00	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/18/2020 16:00	<a href="#">WG1526940</a>
(S) o-Terphenyl	96.3			52.0-156		08/18/2020 16:00	<a href="#">WG1526940</a>



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/17/2020 17:32	<a href="#">WG1527405</a>
(S) a,a,a-Trifluorotoluene(FID)	96.1			78.0-120		08/17/2020 17:32	<a href="#">WG1527405</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	08/15/2020 16:35	<a href="#">WG1526501</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 16:35	<a href="#">WG1526501</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 16:35	<a href="#">WG1526501</a>
Naphthalene	U		1.00	5.00	1	08/15/2020 16:35	<a href="#">WG1526501</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 16:35	<a href="#">WG1526501</a>
Toluene	U		0.278	1.00	1	08/15/2020 16:35	<a href="#">WG1526501</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 16:35	<a href="#">WG1526501</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 16:35	<a href="#">WG1526501</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 16:35	<a href="#">WG1526501</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 16:35	<a href="#">WG1526501</a>
(S) Toluene-d8	104			80.0-120		08/15/2020 16:35	<a href="#">WG1526501</a>
(S) 4-Bromofluorobenzene	105			77.0-126		08/15/2020 16:35	<a href="#">WG1526501</a>
(S) 1,2-Dichloroethane-d4	96.9			70.0-130		08/15/2020 16:35	<a href="#">WG1526501</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3561533-1 08/19/20 10:28

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Lead,Dissolved	U		2.95	6.00

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Laboratory Control Sample (LCS)

(LCS) R3561533-2 08/19/20 10:30

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Lead,Dissolved	1000	1040	104	80.0-120	

<sup>4</sup>Cn

<sup>5</sup>Sr

L1250224-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1250224-02 08/19/20 10:33 • (MS) R3561533-4 08/19/20 10:38 • (MSD) R3561533-5 08/19/20 10:41

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Lead,Dissolved	1000	U	983	992	98.3	99.2	1	75.0-125			0.926	20

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



Method Blank (MB)

(MB) R3561290-1 08/19/20 02:33

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Lead	U		2.95	6.00

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

Laboratory Control Sample (LCS)

(LCS) R3561290-2 08/19/20 02:35

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Lead	1000	917	91.7	80.0-120	

L1250224-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1250224-06 08/19/20 02:38 • (MS) R3561290-4 08/19/20 02:43 • (MSD) R3561290-5 08/19/20 02:46

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Lead	1000	U	918	919	91.8	91.9	1	75.0-125			0.0967	20

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



Method Blank (MB)

(MB) R3561672-2 08/16/20 13:44

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	95.6			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3561672-1 08/16/20 12:35

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5160	93.8	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			101	78.0-120	

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3560587-2 08/17/20 09:48

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	46.2	↓	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	111			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3560587-1 08/17/20 08:54

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5280	96.0	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			96.4	78.0-120	

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3560791-2 08/17/20 15:14

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	95.7			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3560791-1 08/17/20 14:08

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5020	91.3	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			102	78.0-120	

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3561129-2 08/15/20 07:15

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Benzene	U		0.0941	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
Ethylbenzene	U		0.137	1.00
Naphthalene	U		1.00	5.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
Trichloroethene	U		0.190	1.00
1,2,4-Trimethylbenzene	U		0.322	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	104			80.0-120
(S) 4-Bromofluorobenzene	102			77.0-126
(S) 1,2-Dichloroethane-d4	95.7			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3561129-1 08/15/20 06:34

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Benzene	5.00	4.48	89.6	70.0-123	
cis-1,2-Dichloroethene	5.00	4.96	99.2	73.0-120	
Ethylbenzene	5.00	4.67	93.4	79.0-123	
Naphthalene	5.00	3.84	76.8	54.0-135	
Tetrachloroethene	5.00	5.32	106	72.0-132	
Toluene	5.00	4.56	91.2	79.0-120	
Trichloroethene	5.00	5.12	102	78.0-124	
1,2,4-Trimethylbenzene	5.00	4.50	90.0	76.0-121	
1,3,5-Trimethylbenzene	5.00	4.73	94.6	76.0-122	
Xylenes, Total	15.0	13.8	92.0	79.0-123	
(S) Toluene-d8			100	80.0-120	
(S) 4-Bromofluorobenzene			107	77.0-126	
(S) 1,2-Dichloroethane-d4			96.6	70.0-130	



Method Blank (MB)

(MB) R3561130-2 08/15/20 16:15

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Benzene	U		0.0941	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
Ethylbenzene	U		0.137	1.00
Naphthalene	U		1.00	5.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
Trichloroethene	U		0.190	1.00
1,2,4-Trimethylbenzene	U		0.322	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	104			80.0-120
(S) 4-Bromofluorobenzene	106			77.0-126
(S) 1,2-Dichloroethane-d4	96.8			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3561130-1 08/15/20 15:34 • (LCSD) R3561130-5 08/16/20 01:05

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Benzene	5.00	4.58	4.28	91.6	85.6	70.0-123			6.77	20
cis-1,2-Dichloroethene	5.00	5.01	4.57	100	91.4	73.0-120			9.19	20
Ethylbenzene	5.00	4.77	4.51	95.4	90.2	79.0-123			5.60	20
Naphthalene	5.00	4.12	3.37	82.4	67.4	54.0-135			20.0	20
Tetrachloroethene	5.00	5.37	5.02	107	100	72.0-132			6.74	20
Toluene	5.00	4.72	4.48	94.4	89.6	79.0-120			5.22	20
Trichloroethene	5.00	5.26	4.89	105	97.8	78.0-124			7.29	20
1,2,4-Trimethylbenzene	5.00	4.67	4.29	93.4	85.8	76.0-121			8.48	20
1,3,5-Trimethylbenzene	5.00	4.85	4.50	97.0	90.0	76.0-122			7.49	20
Xylenes, Total	15.0	14.1	13.0	94.0	86.7	79.0-123			8.12	20
(S) Toluene-d8				103	103	80.0-120				
(S) 4-Bromofluorobenzene				107	105	77.0-126				
(S) 1,2-Dichloroethane-d4				96.4	95.7	70.0-130				



L1250311-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1250311-14 08/15/20 20:59 • (MS) R3561130-3 08/16/20 00:04 • (MSD) R3561130-4 08/16/20 00:24

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	5.00	U	4.28	3.94	85.6	78.8	1	17.0-158			8.27	27
cis-1,2-Dichloroethene	5.00	1.29	5.68	5.44	87.8	83.0	1	10.0-160			4.32	27
Ethylbenzene	5.00	U	4.43	4.14	88.6	82.8	1	30.0-155			6.77	27
Naphthalene	5.00	U	3.47	4.05	69.4	81.0	1	12.0-156			15.4	35
Tetrachloroethene	5.00	U	4.99	4.46	99.8	89.2	1	10.0-160			11.2	27
Toluene	5.00	U	4.22	4.03	84.4	80.6	1	26.0-154			4.61	28
Trichloroethene	5.00	U	5.04	4.37	101	87.4	1	10.0-160			14.2	25
1,2,4-Trimethylbenzene	5.00	U	4.18	4.19	83.6	83.8	1	26.0-154			0.239	27
1,3,5-Trimethylbenzene	5.00	U	4.49	4.36	89.8	87.2	1	28.0-153			2.94	27
Xylenes, Total	15.0	U	13.0	12.2	86.7	81.3	1	29.0-154			6.35	28
(S) Toluene-d8					98.6	99.9		80.0-120				
(S) 4-Bromofluorobenzene					108	106		77.0-126				
(S) 1,2-Dichloroethane-d4					98.8	97.1		70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3560655-1 08/17/20 10:21

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Ethylene Dibromide	U		0.00536	0.0200

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

L1249676-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1249676-01 08/17/20 11:09 • (DUP) R3560655-3 08/17/20 10:57

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ethylene Dibromide	U	U	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3560655-4 08/17/20 12:57 • (LCSD) R3560655-5 08/17/20 15:09

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Ethylene Dibromide	0.250	0.225	0.236	90.0	94.4	60.0-140			4.77	20

7 Gl

8 Al

9 Sc

L1250218-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1250218-01 08/17/20 10:45 • (MS) R3560655-2 08/17/20 10:33

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Ethylene Dibromide	0.100	U	0.104	104	1	64.0-159	



Method Blank (MB)

(MB) R3560857-3 08/17/20 23:04

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Ethylene Dibromide	U		0.00536	0.0200

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1250224-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1250224-06 08/17/20 21:53 • (DUP) R3560857-2 08/17/20 21:41

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ethylene Dibromide	U	U	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3560857-4 08/17/20 23:51 • (LCSD) R3560857-5 08/18/20 01:50

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Ethylene Dibromide	0.250	0.246	0.234	98.4	93.6	60.0-140			5.00	20

L1250224-07 Original Sample (OS) • Matrix Spike (MS)

(OS) L1250224-07 08/17/20 21:29 • (MS) R3560857-1 08/17/20 21:17

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Ethylene Dibromide	0.100	U	0.106	106	1	64.0-159	



Method Blank (MB)

(MB) R3560731-1 08/17/20 11:39

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		66.7	200
Residual Range Organics (RRO)	U		83.3	250
<i>(S) o-Terphenyl</i>	84.0			52.0-156

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3560731-2 08/17/20 11:59 • (LCSD) R3560731-3 08/17/20 12:19

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	1500	1680	1660	112	111	50.0-150			1.20	20
<i>(S) o-Terphenyl</i>				98.5	97.0	52.0-156				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3561032-1 08/17/20 21:06

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Diesel Range Organics (DRO)	U		66.7	200
Residual Range Organics (RRO)	U		83.3	250
<i>(S) o-Terphenyl</i>	90.0			52.0-156

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3561032-2 08/17/20 21:32 • (LCSD) R3561032-3 08/17/20 21:59

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Diesel Range Organics (DRO)	1500	1640	1440	109	96.0	50.0-150			13.0	20
<i>(S) o-Terphenyl</i>				105	89.0	52.0-156				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

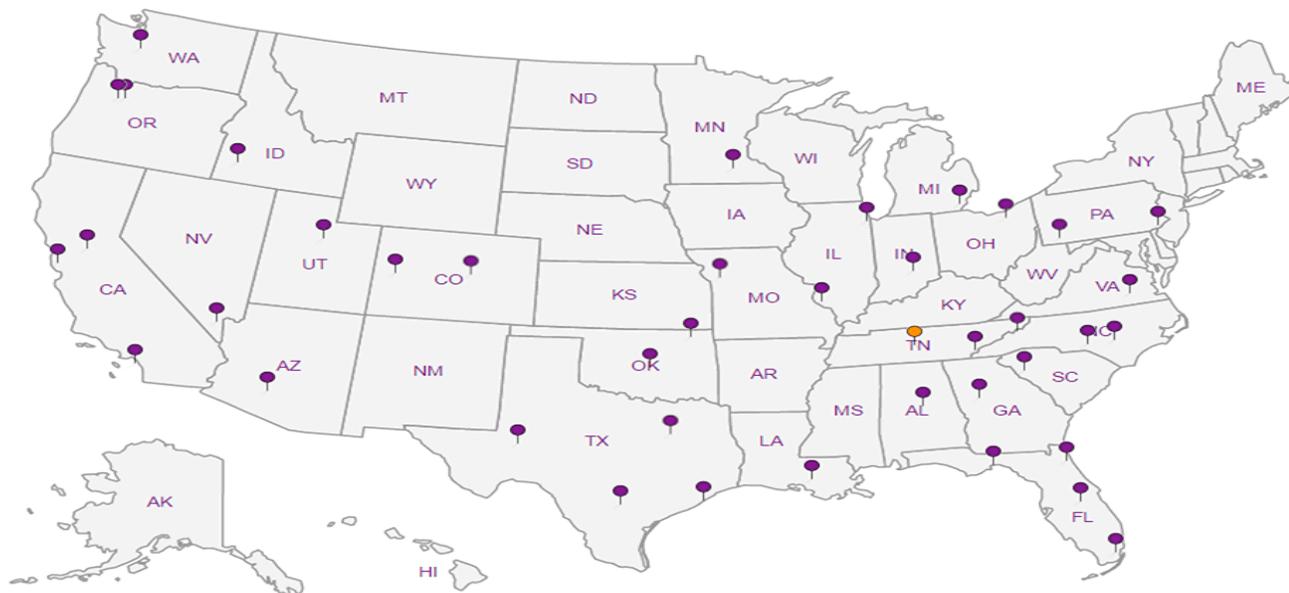
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

**Arcadis - Chevron - WA**

1100 Olive Way  
Suite 800  
Seattle WA 98101

Report to: **Ada Hamilton**

Project Description: **211577**

Phone: **206-325-5254**

Collected by (print): **Dan Gilbert, Trevor Bryant, Brian Pawley**

Collected by (signature):

Immediately Packed on Ice N  Y

Sample ID

Billing Information:

Attn: Accounts Payable  
630 Plaza Dr., Ste. 600  
Highlands Ranch, CO 80129

City/State Collected: **Seattle WA**

Please Circle:  PT  MT  CT  ET

Analysis / Container / Preservative

Pres Chk

12

Chain of Custody Page 1 of 2



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



Email To: **Ada.Hamilton@arcadis.com;environmentDM-**

Client Project #: **30045360**

Lab Project #: **CHEVARCWA-211577**

Site/Facility ID #

P.O. #

Quote #

Rush? (Lab MUST Be Notified)  
 Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Date Results Needed: **Standard**

No. of Cntrs

Diss Pb 6010 250mlHDPE-NoPres

EDB 8011 40mlClr-NaThio

NWTPHDX no silica 40mlAmb-HCl-BT

NWTPHDX w/ silica 40mlAmb-HCl-BT

NWTPHGX 40mlAmb HCl

Total Pb 6010 250mlHDPE-HNO3

VOCs 8260D\* 40mlAmb-HCl

SDG # **L1256224**

**J168**

Acctnum: **CHEVARCWA**

Template: **T172074**

Prelogin: **P789679**

PM: **110 - Brian Ford**

PB: **DN**

Shipped Via:

Remarks

Sample # (lab only)

Project Description: **211577**

City/State Collected: **Seattle WA**

Please Circle:  PT  MT  CT  ET

Client Project #: **30045360**

Lab Project #: **CHEVARCWA-211577**

Site/Facility ID #

P.O. #

Quote #

Rush? (Lab MUST Be Notified)  
 Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Date Results Needed: **Standard**

No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Diss Pb 6010 250mlHDPE-NoPres	EDB 8011 40mlClr-NaThio	NWTPHDX no silica 40mlAmb-HCl-BT	NWTPHDX w/ silica 40mlAmb-HCl-BT	NWTPHGX 40mlAmb HCl	Total Pb 6010 250mlHDPE-HNO3	VOCs 8260D* 40mlAmb-HCl	Remarks	Sample # (lab only)
MW-18	Grab	GW		8-11-20	1415	15	X	X	X	X	X	X	X		01
MW-17		GW			1230		X	X	X	X	X	X	X		02
MW-27		GW			1410		X	X	X	X	X	X	X		03
<del>MW-28</del> MW-28		GW			1050		X	X	X	X	X	X	X		04
MW-29		GW			0935		X	X	X	X	X	X	X		05
MW-30		GW			1215		X	X	X	X	X	X	X		06
MW-31		GW			1030		X	X	X	X	X	X	X		07
MW-34		GW			1245		X	X	X	X	X	X	X		08
MW-35		GW					X	X	X	X	X	X	X		09
Dup-1		GW					X	X	X	X	X	X	X		10

\* Matrix:  
 SS - Soil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - WasteWater  
 DW - Drinking Water  
 OT - Other

Remarks: \*VOCs 8260D=BTEX,Naph,PCE,TCE,cis-12-DCE,135-TMB,124-TMB.

pH \_\_\_\_\_ Temp \_\_\_\_\_

Flow \_\_\_\_\_ Other \_\_\_\_\_

Samples returned via:  
 UPS  FedEx  Courier

Tracking # **8098 2745 1683**

Sample Receipt Checklist

COC Seal Present/Intact:  NP  Y  N

COC Signed/Accurate:  Y  N

Bottles arrive intact:  Y  N

Correct bottles used:  Y  N

Sufficient volume sent:  Y  N

If Applicable

VOA Zero Headspace:  Y  N

Preservation Correct/Checked:  Y  N

RAD Screen <0.5 mR/hr:  Y  N

Relinquished by: (Signature) **Dan Gilbert** Date: **8-11-20** Time: **1600**

Received by: (Signature) \_\_\_\_\_ Trip Blank Received:  Yes  No  
 HCL/MeOH  TBR

Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature) \_\_\_\_\_ Temp: **11.4** °C Bottles Received: **165**

Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received for lab by: (Signature) **BK** Date: **8-11-20** Time: **900**

Hold: \_\_\_\_\_ Condition: **NCF**  OK

**Arcadis - Chevron - WA**  
 1100 Olive Way  
 Suite 800  
 Seattle WA 98101

Billing Information:  
 Attn: Accounts Payable  
 630 Plaza Dr., Ste. 600  
 Highlands Ranch, CO 80129

Analysis / Container / Preservative	
Pres Chk	62

Chain of Custody Page 2 of 2  
  
 Pace Analytical  
 National Center for Testing & Innovation

Report to:  
**Ada Hamilton**

Email To:  
 Ada.Hamilton@arcadis.com;environmentDIV-

Project Description:  
 211577

City/State Collected: **Seattle WA**

Please Circle:  
 PT MT CT ET

Phone: **206-325-5254**

Client Project #  
**30045360**

Lab Project #  
**CHEVARCWA-211577**

Collected by (print):  
**DSG, TB, BP**

Site/Facility ID #

P.O. #

Collected by (signature):

**Rush?** (Lab MUST Be Notified)  
 \_\_\_ Same Day \_\_\_ Five Day  
 \_\_\_ Next Day \_\_\_ 5 Day (Rad Only)  
 \_\_\_ Two Day \_\_\_ 10 Day (Rad Only)  
 \_\_\_ Three Day

Quote #

Immediately Packed on Ice N    Y X

Date Results Needed  
**Standard**

No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Diss Pb 6010 250mlHDPE-NoPres	EDB 8011 40mlClr-NaThio	NWTPDX no silica 40mlAmb-HCl-BT	NWTPDX w/ silica 40mlAmb-HCl-BT	NWTPHGX 40mlAmb HCl	Total Pb 6010 250mlHDPE-HNO3	VOCs 8260D* 40mlAmb-HCl
Ringside Blank	Grab	GW		8-11-20	1140	15	X	X	X	X	X	X	X
Trip Blank	—	GW		—	—	36					X	X	
		GW											
		GW											
		GW											
		GW											
		GW											
		GW											
		GW											
		GW											

12065 Lebanon Rd  
 Mount Juliet, TN 37122  
 Phone: 615-758-5858  
 Phone: 800-767-5859  
 Fax: 615-758-5859



SDG # **L1250224**

Table #

Acctnum: **CHEVARCWA**

Template: **T172074**

Prelogin: **P789679**

PM: **110 - Brian Ford**

PB: **DN**

Shipped Via:

Remarks | Sample # (lab only)

\* Matrix:  
 SS - Soil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - WasteWater  
 DW - Drinking Water  
 OT - Other

Remarks: \*VOCs 8260D=BTEX,Naph,PCE,TCE,cis-12-DCE,135-TMB,124-TMB.  
 pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_  
 Samples returned via:  
 \_\_\_ UPS \_\_\_ FedEx \_\_\_ Courier \_\_\_\_\_ Tracking # \_\_\_\_\_

Sample Receipt Checklist  
 COC Seal Present/Intact: NP Y    N  
 COC Signed/Accurate: X Y    N  
 Bottles arrive intact: X Y    N  
 Correct bottles used: X Y    N  
 Sufficient volume sent: X Y    N  
 If Applicable  
 VOA Zero Headspace: X Y    N  
 Preservation Correct/Checked: X Y    N  
 RAD Screen <0.5 mR/hr: X Y    N

Relinquished by: (Signature)  
*David S. G...*

Date: **8-11-20**

Time: **1600**

Received by: (Signature)

Trip Blank Received: Yes / No  
 HCl / MeOH  
 TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: **19.1°C** Bottles Received: **165**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)  
*RK*

Date: **8-13-2** Time: **900**

Hold: Condition: **NCF / OK**

# CHEVRON - 211577

## DATA REVIEW

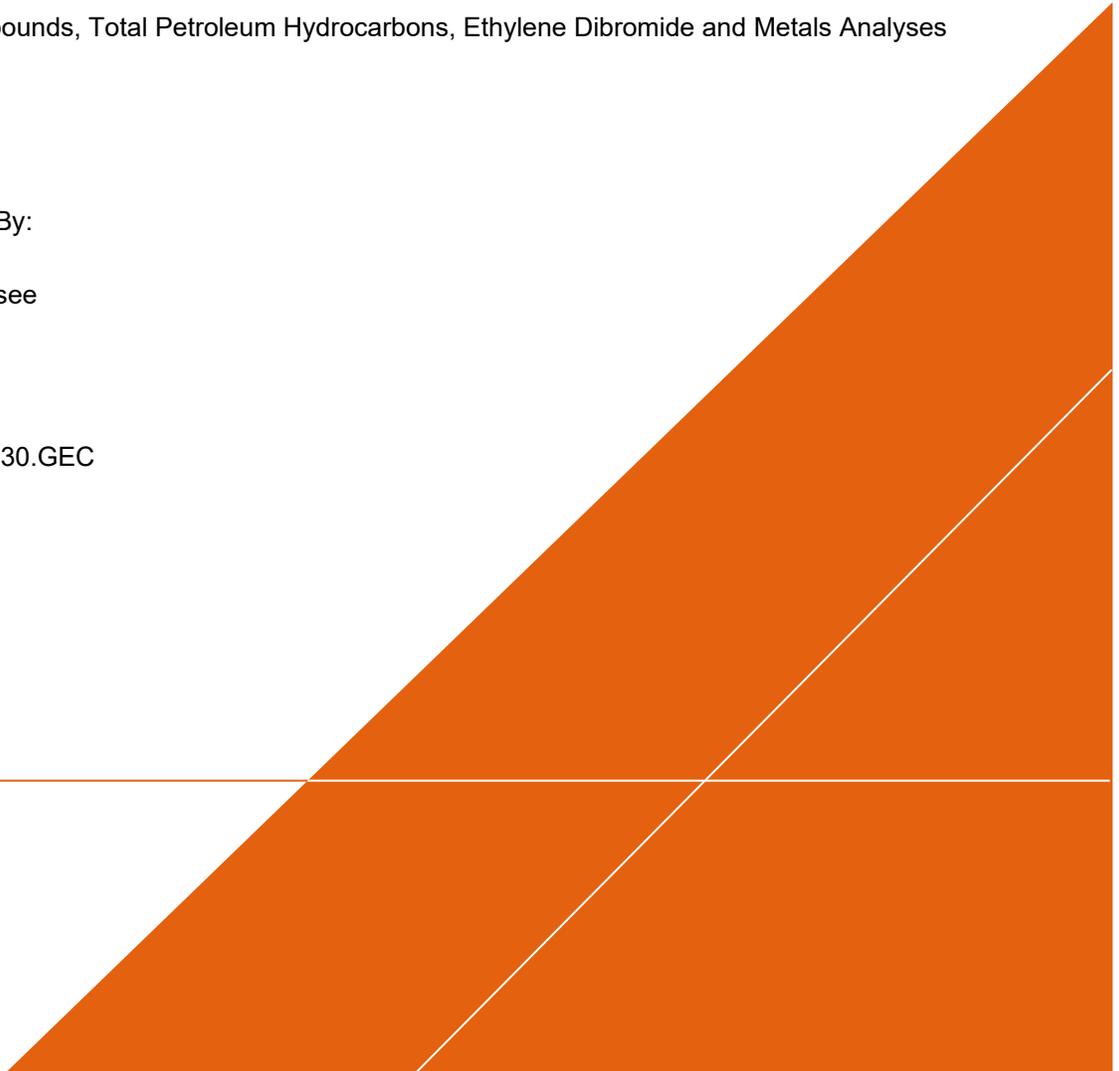
SEATTLE, WASHINGTON

Volatile organic compounds, Total Petroleum Hydrocarbons, Ethylene Dibromide and Metals Analyses

SDG # L1250224

Analyses Performed By:  
Pace Analytical  
Mount Juliet, Tennessee

Report # 38386R  
Review Level: Tier II  
Project: 30045360.5130.GEC



## DATA REVIEW REPORT

### SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # L1250224 for samples collected in association with the Chevron Seattle, Washington. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis			
					VOC	TPH	EDB	MET
MW-18_200811	L1250224-01	Water	08/11/2020		X	X	X	X
MW-17_200811	L1250224-02	Water	08/11/2020		X	X	X	X
MW-27_200811	L1250224-03	Water	08/11/2020		X	X	X	X
MW-28_200811	L1250224-04	Water	08/11/2020		X	X	X	X
MW-29_200811	L1250224-05	Water	08/11/2020		X	X	X	X
MW-30_200811	L1250224-06	Water	08/11/2020		X	X	X	X
MW-31_200811	L1250224-07	Water	08/11/2020		X	X	X	X
MW-34_200811	L1250224-08	Water	08/11/2020		X	X	X	X
MW-35_200811	L1250224-09	Water	08/11/2020		X	X	X	X
DUP-1_200811	L1250224-10	Water	08/11/2020	MW-17_200811	X	X	X	X
RINSATE BLANK_200811	L1250224-11	Water	08/11/2020		X	X	X	X
TRIP BLANK_200811	L1250224-12	Water	08/11/2020		X	X		

#### Notes:

VOC – Volatile Organic Compounds.

TPH – Total Petroleum Hydrocarbons.

EDB – Ethylene Dibromide.

MET – Metals (Total and Dissolved).

## DATA REVIEW REPORT

### ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

Note:

QA - Quality Assurance

## DATA REVIEW REPORT

### ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D, ECY 97-602 NWTPH,Gx, ECY 97-602 NWTPH,Dx and 8011. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
  - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
  - E The compound was quantitated above the calibration range.
  - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
  - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
  - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
  - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
  - UB Compound considered non-detect at the listed value due to associated blank contamination.
  - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
  - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

## DATA REVIEW REPORT

### VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

#### 1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260D	Water	14 days from collection to analysis (preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u.

Note:

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

#### 2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

#### 3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

#### 4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

MS/MSD analysis was not performed on samples from this SDG.

#### 5. Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate Analysis (LCSD)

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery and RPD within the laboratory-established acceptance limits.

## DATA REVIEW REPORT

All compounds associated with the LCS/LCSD analysis exhibited recoveries and RPDs within the control limits.

### 6. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result (µg/l)	Duplicate Result (µg/l)	RPD
MW-17_200811 / DUP-1_200811	All target compounds	U	U	AC

#### Notes:

U – Non detect

AC - Acceptable

The calculated differences between the parent sample and field duplicate were acceptable.

### 7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

# DATA REVIEW REPORT

## DATA VALIDATION CHECKLIST FOR VOCs

VOCs: SW-846 8260D	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
<b>GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)</b>					
<b>Tier II Validation</b>					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks		X		X	
C. Trip blanks		X		X	
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate (LCSD)		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS)	X				X
Matrix Spike Duplicate (MSD)	X				X
MS/MSD Precision (RPD)	X				X
Lab Duplicate (RPD)	X				X
Field Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	

**Notes:**

%R    Percent recovery

RPD    Relative percent difference

## DATA REVIEW REPORT

### TOTAL PETROLEUM HYDROCARBONS ANALYSES

#### 1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
ECY 97-602 NWTPH-Gx	Water	14 days from collection to analysis	Cool to <6 °C: preserved to a pH of less than 2 s.u.
ECY 97-602 NWTPH-Dx			

All samples were analyzed within the specified holding times.

#### 2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (B) of data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample ID	Compound	Sample Result	Qualification
MW-17_200811	Gasoline Range Organics (RB)	Detected sample results <RL and <BAL	"UB" at the RL

Note:

RB – Rinse blank

RL – Reporting limit

#### 3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. The analysis requires surrogate compounds exhibit recoveries within the laboratory-established acceptance limits.

Samples associated with surrogates exhibiting recoveries outside of the control limits presented in the following table.

Sample ID	Surrogate	Recovery
MW-28_200811	o-Terphenyl	> UL

Notes:

UL - Upper control limit

The criteria used to evaluate the surrogate recoveries are presented in the following table. In the case of a surrogate deviation, the sample results are qualified as documented in the table below.

## DATA REVIEW REPORT

Control Limit	Sample Result	Qualification
> UL	Non-detect	No Action
	Detect	J
< LL but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Surrogates diluted below the calibration curve due to the high concentration of a target compounds	Non-detect	UJ <sup>1</sup>
	Detect	J <sup>1</sup>

Note:

- <sup>1</sup> A more concentrated analysis was not performed with surrogate compounds within the calibration range; therefore, no determination of extraction efficiency could be made.

All surrogate recoveries were within control limits.

#### 4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

MS/MSD analysis was not performed on samples from these SDGs.

#### 5. Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate Analysis (LCSD)

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery and RPD within the laboratory-established acceptance limits.

All compounds associated with the LCS/LCSD analysis exhibited recoveries and RPDs within the control limits.

#### 6. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

## DATA REVIEW REPORT

Sample ID/Duplicate ID	Compound	Sample Result (µg/l)	Duplicate Result (µg/l)	RPD
MW-17_200811 / DUP-1_200811	Gasoline Range Organics	39.8 J	100 U	AC
	Diesel Range Organics	157 J	114 J	AC
	Residual Range Organics	235 J	175 J	AC
	Diesel Range Organics (SGT)	157 J	114 J	AC
	Residual Range Organics (SGT)	235 J	175 J	AC

Notes:

U – Non detect

AC - Acceptable

The calculated differences between the parent sample and field duplicate were acceptable.

### 7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

## DATA REVIEW REPORT

### DATA VALIDATION CHECKLIST FOR TPH

TPH: ECY 97-602 NWTPH-Gx and ECY 97-602 NWTPH-Dx	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY (GC/FID)					
<b>Tier II Validation</b>					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks		X	X		
C. Trip blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R	X				X
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Lab Duplicate (RPD)	X				X
Field Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X	X		
Dilution Factor		X		X	

**Notes:**

%R - percent recovery

RPD - relative percent difference

## DATA REVIEW REPORT

### ETHYLENE DIBROMIDE ANALYSES

#### 1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8011	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to <6°C

All samples were analyzed within the specified holding time criteria.

#### 2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compound Ethylene dibromide was not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

#### 3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

##### 3.1 MS/MSD Analysis

The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

MS analysis was performed on sample ID MW-30\_200811. MS analysis exhibited acceptable recovery.

##### 3.2 Laboratory Duplicate Analysis

The laboratory duplicates relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

Laboratory duplicate analysis was performed on sample ID MW-31\_200811. Laboratory duplicate analysis exhibited acceptable RPD.

## DATA REVIEW REPORT

### 4. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery and RPD within the laboratory-established acceptance limits.

All compounds associated with the LCS/LCSD analysis exhibited recoveries and RPDs within the control limits.

### 5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result (µg/l)	Duplicate Result (µg/l)	RPD
MW-17_200811 / DUP-1_200811	Ethylene Dibromide	U	U	AC

#### Notes:

U – Non detect

AC - Acceptable

The calculated differences between the parent sample and field duplicate were acceptable.

### 6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

# DATA REVIEW REPORT

## DATA VALIDATION CHECKLIST FOR ETHYLNE DIBROMIDE

Ethylene Dibromide: SW-846 8011	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
<b>GAS CHROMATOGRAPHY/FLAME IONIZATION DETECTOR (GC/FID)</b>					

### Tier II Validation

Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment/Field blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Lab Duplicate (RPD)		X		X	
Field Duplicate (RPD)		X		X	
Dilution Factor		X		X	

#### Notes:

%R - percent recovery

RPD - relative percent difference

## DATA REVIEW REPORT

### INORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 6010D. Data were reviewed in accordance with USEPA National Functional Guidelines of July 2002.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
  - J The reported value was obtained from a reading less than the reporting limit (RL), but greater than or equal to the method detection limit (MDL).
- Quantitation (Q) Qualifiers
  - E The reported value is estimated due to the presence of interference.
  - N Spiked sample recovery is not within control limits.
  - \* Duplicate analysis is not within control limits.
- Validation Qualifiers
  - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
  - UJ The analyte was not detected above the reporting limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
  - UB Analyte considered non-detect at the listed value due to associated blank contamination.
  - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

# DATA REVIEW REPORT

## METALS ANALYSES

### 1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010D	Water	180 days from collection to analysis	Preserved to a pH of less than 2.

All samples were analyzed within the specified holding times.

### 2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All analytes associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the analytes listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (B) from the data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample ID	Analyte	Sample Result	Qualification
MW-29_200811	Lead Dissolved (RB)	Detected sample results <RL and <BAL	"UB" at the RL
MW-34_200811		Detected sample results <RL and <BAL	"UB" at the RL
MW-35_200811		Detected sample results <RL and <BAL	"UB" at the RL

Note:

RB – Rinse blank

RL - Reporting limit

All analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

### 3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

#### 3.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

## DATA REVIEW REPORT

MS/MSD analysis was performed on sample ID MW-17\_200811 for dissolved lead and on sample ID MW-30\_200811 for total lead. MS/MSD analysis exhibited acceptable recoveries and RPDs.

### 3.2 Laboratory Duplicate Analysis

The laboratory duplicates relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

Laboratory duplicate analysis was not performed on samples from this SDG.

### 4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result (µg/l)	Duplicate Result (µg/l)	RPD
MW-17_200811 / DUP-1_200811	Lead (Total)	6.00 U	2.96 J	AC
	Lead (Dissolved)	U	U	AC

#### Notes:

U – Non detect

AC - Acceptable

The calculated differences between the parent sample and field duplicate were acceptable.

### 5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS/LCSD analysis exhibited recoveries within the control limits.

### 6. General Assessment – Total vs. Dissolved

When the dissolved concentration exceeded the associated total concentration, and both results were five times greater than the LOQ, then the %D between the total and dissolved concentrations must be less than 10%.

The calculated %D between the total and the dissolved sample results were within the control limit.

### 7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

# DATA REVIEW REPORT

## DATA VALIDATION CHECKLIST FOR METAL

METALS; SW-846 6010D	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)					
<b>Tier II Validation</b>					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Instrument Blanks	X				X
B. Method Blanks		X		X	
C. Equipment/Field Blanks		X		X	
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate (LCSD) %R	X				X
LCS/LCSD Precision (RPD)	X				X
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Lab Duplicate (RPD)	X				X
Field Duplicate (RPD)		X		X	
Total vs Dissolved %D	X				X
Reporting Limit Verification		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

%D Percent difference

## DATA REVIEW REPORT

VALIDATION PERFORMED BY: Hrishikesh Upadhyaya

SIGNATURE: 

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DATE: September 23, 2020

PEER REVIEW: Dennis Capria

DATE: September 25, 2020

**CHAIN OF CUSTODY  
CORRECTED SAMPLE ANALYSIS DATA  
SHEETS**



**Arcadis - Chevron - WA**

1100 Olive Way  
Suite 800  
Seattle WA 98101

Report to: **Ada Hamilton**

Project Description: **211577**

Phone: **206-325-5254**

Client Project #: **30045360**

Lab Project #: **CHEVARCWA-211577**

Collected by (print): **Dan Gilbert, Trevor Bryant, Brian Pawley**

Collected by (signature):

Immediately Packed on Ice N  Y

Sample ID

Comp/Grab

Matrix \*

Depth

Date

Time

No. of Cntrs

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

**Pace Analytical**  
National Center for Testing & Innovation

12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859

SDG # **L1256224**  
**J168**

Acctnum: **CHEVARCWA**

Template: **T172074**

Prelogin: **P789679**

PM: **110 - Brian Ford**

PB: **DN**

Shipped Via:

Remarks

Sample # (lab only)

Billing Information:

Attn: Accounts Payable  
630 Plaza Dr., Ste. 600  
Highlands Ranch, CO 80129

Pres Chk

Email To: **Ada.Hamilton@arcadis.com;environmentDM-**

City/State Collected: **Seattle WA**

Please Circle: **PT MT CT ET**

City/State Collected: **Seattle WA**

Site/Facility ID #

P.O. #

Quote #

Rush? (Lab MUST Be Notified)  
Same Day  Five Day   
Next Day  5 Day (Rad Only)   
Two Day  10 Day (Rad Only)   
Three Day

Date Results Needed: **Standard**

Sample ID

Comp/Grab

Matrix \*

Depth

Date

Time

No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Diss Pb 6010 250mlHDPE-NoPres	EDB 8011 40mlClr-NaThio	NWTPDX no silica 40mlAmb-HCl-BT	NWTPDX w/ silica 40mlAmb-HCl-BT	NWTPGX 40mlAmb HCl	Total Pb 6010 250mlHDPE-HNO3	VOCs 8260D* 40mlAmb-HCl	Remarks	Sample # (lab only)
MW-18	Grab	GW		8-11-20	1415	15	X	X	X	X	X	X	X		01
MW-17		GW			1230		X	X	X	X	X	X	X		02
MW-27		GW			1410		X	X	X	X	X	X	X		03
<del>MW-28</del> MW-28		GW			1050		X	X	X	X	X	X	X		04
MW-29		GW			935		X	X	X	X	X	X	X		05
MW-30		GW			1215		X	X	X	X	X	X	X		06
MW-31		GW			1030		X	X	X	X	X	X	X		07
MW-34		GW			1245		X	X	X	X	X	X	X		08
MW-35		GW					X	X	X	X	X	X	X		09
Dup-1		GW					X	X	X	X	X	X	X		10

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks: \*VOCs 8260D=BTEX,Naph,PCE,TCE,cis-12-DCE,135-TMB,124-TMB.

pH \_\_\_\_\_ Temp \_\_\_\_\_  
Flow \_\_\_\_\_ Other \_\_\_\_\_

Samples returned via:  UPS  FedEx  Courier

Tracking # **8098 2745 1683**

Sample Receipt Checklist

COC Seal Present/Intact:  NP  Y  N

COC Signed/Accurate:  Y  N

Bottles arrive intact:  Y  N

Correct bottles used:  Y  N

Sufficient volume sent:  Y  N

If Applicable

VOA Zero Headspace:  Y  N

Preservation Correct/Checked:  Y  N

RAD Screen <0.5 mR/hr:  Y  N

Relinquished by: (Signature) **Daniel S. S. S.**

Date: **8-11-20**

Time: **1600**

Received by: (Signature) \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

Trip Blank Received:  Yes  No

HCL/MeOH TBR

Temp: **14.4** °C

Bottles Received: **165**

Date: **8-11-20**

Time: **900**

If preservation required by Login: Date/Time

Hold:

Condition: **NCF**  OK

**Arcadis - Chevron - WA**  
 1100 Olive Way  
 Suite 800  
 Seattle WA 98101

Billing Information:  
 Attn: Accounts Payable  
 630 Plaza Dr., Ste. 600  
 Highlands Ranch, CO 80129

Analysis / Container / Preservative	
Pres Chk	L2

Chain of Custody Page 2 of 2  
  
 Pace Analytical  
 National Center for Testing & Innovation

Report to:  
**Ada Hamilton**

Project Description:  
 211577

Email To:  
 Ada.Hamilton@arcadis.com;environmentDIV-

City/State Collected: **Seattle WA**

Please Circle:  
 PT MT CT ET

12065 Lebanon Rd  
 Mount Juliet, TN 37122  
 Phone: 615-758-5858  
 Phone: 800-767-5859  
 Fax: 615-758-5859



Phone: 206-325-5254

Client Project #  
**30045360**

Lab Project #  
**CHEVARCWA-211577**

Collected by (print):  
**DSG, TB, BP**

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N  Y

**Rush?** (Lab MUST Be Notified)  
 Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Quote #

Date Results Needed  
**Standard**

Diss Pb 6010 250mlHDPE-NoPres	EDB 8011 40mlClr-NaThio	NWTPHDX no silica 40mlAmb-HCl-BT	NWTPHDX w/ silica 40mlAmb-HCl-BT	NWTPHGX 40mlAmb HCl	Total Pb 6010 250mlHDPE-HNO3	VOCs 8260D* 40mlAmb-HCl	

SDG # **L1250224**

Table #

Acctnum: **CHEVARCWA**

Template: **T172074**

Prelogin: **P789679**

PM: **110 - Brian Ford**

PB: **DN**

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Diss Pb 6010 250mlHDPE-NoPres	EDB 8011 40mlClr-NaThio	NWTPHDX no silica 40mlAmb-HCl-BT	NWTPHDX w/ silica 40mlAmb-HCl-BT	NWTPHGX 40mlAmb HCl	Total Pb 6010 250mlHDPE-HNO3	VOCs 8260D* 40mlAmb-HCl	Remarks	Sample # (lab only)
Ringside Blank	Grab	GW		8-11-20	1140	15	X	X	X	X	X	X	X		-11
Trip Blank		GW				26					X		X		12
		GW													
		GW													
		GW													
		GW													
		GW													
		GW													
		GW													
		GW													

\* Matrix:  
 SS - Soil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - WasteWater  
 DW - Drinking Water  
 OT - Other

Remarks: \*VOCs 8260D=BTEX,Naph,PCE,TCE,cis-12-DCE,135-TMB,124-TMB.

pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_

Samples returned via:  
 UPS  FedEx  Courier

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:  Y  N

COC Signed/Accurate:  Y  N

Bottles arrive intact:  Y  N

Correct bottles used:  Y  N

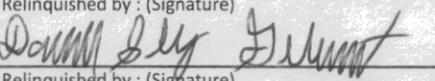
Sufficient volume sent:  Y  N

If Applicable

VOA Zero Headspace:  Y  N

Preservation Correct/Checked:  Y  N

RAD Screen <0.5 mR/hr:  Y  N

Relinquished by: (Signature)  


Date: **8-11-20**

Time: **1600**

Received by: (Signature)

Trip Blank Received:  Yes  No  
 HCl / MeOH  
 TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: **19.1°C** Bottles Received: **165**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: **8-13-2** Time: **900**

Hold: Condition: **NCF / OK**



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	4.89	J	2.95	6.00	1	08/19/2020 02:48	<a href="#">WG1527069</a>
Lead,Dissolved	U		2.95	6.00	1	08/19/2020 10:46	<a href="#">WG1526881</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	1750		31.6	100	1	08/16/2020 18:06	<a href="#">WG1526980</a>
(S) a,a,a-Trifluorotoluene(FID)	97.1			78.0-120		08/16/2020 18:06	<a href="#">WG1526980</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	8.52		0.0941	1.00	1	08/15/2020 12:52	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	24.7		0.126	1.00	1	08/15/2020 12:52	<a href="#">WG1526159</a>
Ethylbenzene	0.750	J	0.137	1.00	1	08/15/2020 12:52	<a href="#">WG1526159</a>
Methyl tert-butyl ether	U		0.101	1.00	1	08/15/2020 12:52	<a href="#">WG1526159</a>
Naphthalene	U		1.00	5.00	1	08/15/2020 12:52	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 12:52	<a href="#">WG1526159</a>
Toluene	2.02		0.278	1.00	1	08/15/2020 12:52	<a href="#">WG1526159</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 12:52	<a href="#">WG1526159</a>
1,2-Dichloroethane	U		0.0819	1.00	1	08/15/2020 12:52	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	1.70		0.322	1.00	1	08/15/2020 12:52	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	0.194	J	0.104	1.00	1	08/15/2020 12:52	<a href="#">WG1526159</a>
Xylenes, Total	1.69	J	0.174	3.00	1	08/15/2020 12:52	<a href="#">WG1526159</a>
(S) Toluene-d8	101			80.0-120		08/15/2020 12:52	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	109			77.0-126		08/15/2020 12:52	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	97.2			70.0-130		08/15/2020 12:52	<a href="#">WG1526159</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 14:09	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	1030		66.7	200	1	08/18/2020 11:37	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	316		83.3	250	1	08/18/2020 11:37	<a href="#">WG1526939</a>
(S) o-Terphenyl	96.8			52.0-156		08/18/2020 11:37	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	659		66.7	200	1	08/20/2020 04:27	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/20/2020 04:27	<a href="#">WG1526940</a>
(S) o-Terphenyl	90.0			52.0-156		08/20/2020 04:27	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 02:51	<a href="#">WG1527069</a>
Lead,Dissolved	U		2.95	6.00	1	08/19/2020 10:33	<a href="#">WG1526881</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	<del>39.8</del>	<u>J</u>	<del>31.6</del>	100	UB	1 08/16/2020 18:28	<a href="#">WG1526980</a>
(S) a,a,a-Trifluorotoluene(FID)	95.7			78.0-120		08/16/2020 18:28	<a href="#">WG1526980</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 13:12	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 13:12	<a href="#">WG1526159</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 13:12	<a href="#">WG1526159</a>
Methyl tert-butyl ether	U		0.101	1.00	1	08/15/2020 13:12	<a href="#">WG1526159</a>
Naphthalene	U		1.00	5.00	1	08/15/2020 13:12	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 13:12	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 13:12	<a href="#">WG1526159</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 13:12	<a href="#">WG1526159</a>
1,2-Dichloroethane	U		0.0819	1.00	1	08/15/2020 13:12	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 13:12	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 13:12	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 13:12	<a href="#">WG1526159</a>
(S) Toluene-d8	105			80.0-120		08/15/2020 13:12	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	106			77.0-126		08/15/2020 13:12	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	94.1			70.0-130		08/15/2020 13:12	<a href="#">WG1526159</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 14:21	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	157	<u>J</u>	66.7	200	1	08/18/2020 12:03	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	235	<u>J</u>	83.3	250	1	08/18/2020 12:03	<a href="#">WG1526939</a>
(S) o-Terphenyl	102			52.0-156		08/18/2020 12:03	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	157	<u>J</u>	66.7	200	1	08/18/2020 12:03	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	235	<u>J</u>	83.3	250	1	08/18/2020 12:03	<a href="#">WG1526940</a>
(S) o-Terphenyl	102			52.0-156		08/18/2020 12:03	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	3.08	J	2.95	6.00	1	08/19/2020 02:54	<a href="#">WG1527069</a>
Lead,Dissolved	U		2.95	6.00	1	08/19/2020 10:49	<a href="#">WG1526881</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/16/2020 18:50	<a href="#">WG1526980</a>
(S) a,a,a-Trifluorotoluene(FID)	95.5			78.0-120		08/16/2020 18:50	<a href="#">WG1526980</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 13:32	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 13:32	<a href="#">WG1526159</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 13:32	<a href="#">WG1526159</a>
Methyl tert-butyl ether	U		0.101	1.00	1	08/15/2020 13:32	<a href="#">WG1526159</a>
Naphthalene	U		1.00	5.00	1	08/15/2020 13:32	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 13:32	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 13:32	<a href="#">WG1526159</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 13:32	<a href="#">WG1526159</a>
1,2-Dichloroethane	U		0.0819	1.00	1	08/15/2020 13:32	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 13:32	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 13:32	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 13:32	<a href="#">WG1526159</a>
(S) Toluene-d8	108			80.0-120		08/15/2020 13:32	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	102			77.0-126		08/15/2020 13:32	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	93.8			70.0-130		08/15/2020 13:32	<a href="#">WG1526159</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 14:33	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/18/2020 12:31	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	138	J	83.3	250	1	08/18/2020 12:31	<a href="#">WG1526939</a>
(S) o-Terphenyl	97.9			52.0-156		08/18/2020 12:31	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/18/2020 12:31	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	138	J	83.3	250	1	08/18/2020 12:31	<a href="#">WG1526940</a>
(S) o-Terphenyl	97.9			52.0-156		08/18/2020 12:31	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 02:56	<a href="#">WG1527069</a>
Lead,Dissolved	U		2.95	6.00	1	08/19/2020 10:51	<a href="#">WG1526881</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/16/2020 19:12	<a href="#">WG1526980</a>
(S) a,a,a-Trifluorotoluene(FID)	95.7			78.0-120		08/16/2020 19:12	<a href="#">WG1526980</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 13:53	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 13:53	<a href="#">WG1526159</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 13:53	<a href="#">WG1526159</a>
Methyl tert-butyl ether	U		0.101	1.00	1	08/15/2020 13:53	<a href="#">WG1526159</a>
Naphthalene	U		1.00	5.00	1	08/15/2020 13:53	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 13:53	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 13:53	<a href="#">WG1526159</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 13:53	<a href="#">WG1526159</a>
1,2-Dichloroethane	U		0.0819	1.00	1	08/15/2020 13:53	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 13:53	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 13:53	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 13:53	<a href="#">WG1526159</a>
(S) Toluene-d8	107			80.0-120		08/15/2020 13:53	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	102			77.0-126		08/15/2020 13:53	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	94.5			70.0-130		08/15/2020 13:53	<a href="#">WG1526159</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 14:45	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/18/2020 12:57	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	111	J	83.3	250	1	08/18/2020 12:57	<a href="#">WG1526939</a>
(S) o-Terphenyl	198	J1		52.0-156		08/18/2020 12:57	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/18/2020 12:57	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	111	J	83.3	250	1	08/18/2020 12:57	<a href="#">WG1526940</a>
(S) o-Terphenyl	198	J1		52.0-156		08/18/2020 12:57	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	5.72	J	2.95	6.00	1	08/19/2020 03:04	<a href="#">WG1527069</a>
Lead,Dissolved	<del>4.01</del>	<del>J</del>	<del>2.95</del>	6.00 UB	1	08/19/2020 10:59	<a href="#">WG1526881</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/16/2020 19:34	<a href="#">WG1526980</a>
(S) a,a,a-Trifluorotoluene(FID)	96.1			78.0-120		08/16/2020 19:34	<a href="#">WG1526980</a>

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 14:13	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 14:13	<a href="#">WG1526159</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 14:13	<a href="#">WG1526159</a>
Methyl tert-butyl ether	U		0.101	1.00	1	08/15/2020 14:13	<a href="#">WG1526159</a>
Naphthalene	U		1.00	5.00	1	08/15/2020 14:13	<a href="#">WG1526159</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 14:13	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 14:13	<a href="#">WG1526159</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 14:13	<a href="#">WG1526159</a>
1,2-Dichloroethane	U		0.0819	1.00	1	08/15/2020 14:13	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 14:13	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 14:13	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 14:13	<a href="#">WG1526159</a>
(S) Toluene-d8	106			80.0-120		08/15/2020 14:13	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	104			77.0-126		08/15/2020 14:13	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	95.4			70.0-130		08/15/2020 14:13	<a href="#">WG1526159</a>

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 14:57	<a href="#">WG1526687</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/18/2020 13:23	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	134	J	83.3	250	1	08/18/2020 13:23	<a href="#">WG1526939</a>
(S) o-Terphenyl	96.8			52.0-156		08/18/2020 13:23	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/18/2020 13:23	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	134	J	83.3	250	1	08/18/2020 13:23	<a href="#">WG1526940</a>
(S) o-Terphenyl	96.8			52.0-156		08/18/2020 13:23	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 02:38	<a href="#">WG1527069</a>
Lead,Dissolved	U		2.95	6.00	1	08/19/2020 11:02	<a href="#">WG1526881</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/16/2020 19:56	<a href="#">WG1526980</a>
(S) a,a,a-Trifluorotoluene(FID)	95.8			78.0-120		08/16/2020 19:56	<a href="#">WG1526980</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 14:33	<a href="#">WG1526159</a>
cis-1,2-Dichloroethene	0.510	J	0.126	1.00	1	08/15/2020 14:33	<a href="#">WG1526159</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 14:33	<a href="#">WG1526159</a>
Methyl tert-butyl ether	U		0.101	1.00	1	08/15/2020 14:33	<a href="#">WG1526159</a>
Naphthalene	U		1.00	5.00	1	08/15/2020 14:33	<a href="#">WG1526159</a>
Tetrachloroethene	8.85		0.300	1.00	1	08/15/2020 14:33	<a href="#">WG1526159</a>
Toluene	U		0.278	1.00	1	08/15/2020 14:33	<a href="#">WG1526159</a>
Trichloroethene	5.28		0.190	1.00	1	08/15/2020 14:33	<a href="#">WG1526159</a>
1,2-Dichloroethane	U		0.0819	1.00	1	08/15/2020 14:33	<a href="#">WG1526159</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 14:33	<a href="#">WG1526159</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 14:33	<a href="#">WG1526159</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 14:33	<a href="#">WG1526159</a>
(S) Toluene-d8	106			80.0-120		08/15/2020 14:33	<a href="#">WG1526159</a>
(S) 4-Bromofluorobenzene	104			77.0-126		08/15/2020 14:33	<a href="#">WG1526159</a>
(S) 1,2-Dichloroethane-d4	94.2			70.0-130		08/15/2020 14:33	<a href="#">WG1526159</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 21:53	<a href="#">WG1526688</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	74.3	J	66.7	200	1	08/18/2020 13:49	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	136	J	83.3	250	1	08/18/2020 13:49	<a href="#">WG1526939</a>
(S) o-Terphenyl	98.4			52.0-156		08/18/2020 13:49	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	74.3	J	66.7	200	1	08/18/2020 13:49	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	136	J	83.3	250	1	08/18/2020 13:49	<a href="#">WG1526940</a>
(S) o-Terphenyl	98.4			52.0-156		08/18/2020 13:49	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	3.93	J	2.95	6.00	1	08/19/2020 03:07	<a href="#">WG1527069</a>
Lead,Dissolved	U		2.95	6.00	1	08/19/2020 11:05	<a href="#">WG1526881</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/16/2020 20:18	<a href="#">WG1526980</a>
(S) a,a,a-Trifluorotoluene(FID)	95.9			78.0-120		08/16/2020 20:18	<a href="#">WG1526980</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 18:37	<a href="#">WG1526501</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 18:37	<a href="#">WG1526501</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 18:37	<a href="#">WG1526501</a>
Methyl tert-butyl ether	U		0.101	1.00	1	08/15/2020 18:37	<a href="#">WG1526501</a>
Naphthalene	U		1.00	5.00	1	08/15/2020 18:37	<a href="#">WG1526501</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 18:37	<a href="#">WG1526501</a>
Toluene	U		0.278	1.00	1	08/15/2020 18:37	<a href="#">WG1526501</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 18:37	<a href="#">WG1526501</a>
1,2-Dichloroethane	U		0.0819	1.00	1	08/15/2020 18:37	<a href="#">WG1526501</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 18:37	<a href="#">WG1526501</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 18:37	<a href="#">WG1526501</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 18:37	<a href="#">WG1526501</a>
(S) Toluene-d8	104			80.0-120		08/15/2020 18:37	<a href="#">WG1526501</a>
(S) 4-Bromofluorobenzene	103			77.0-126		08/15/2020 18:37	<a href="#">WG1526501</a>
(S) 1,2-Dichloroethane-d4	98.3			70.0-130		08/15/2020 18:37	<a href="#">WG1526501</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 21:29	<a href="#">WG1526688</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/18/2020 14:15	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	108	J	83.3	250	1	08/18/2020 14:15	<a href="#">WG1526939</a>
(S) o-Terphenyl	96.3			52.0-156		08/18/2020 14:15	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/18/2020 14:15	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	108	J	83.3	250	1	08/18/2020 14:15	<a href="#">WG1526940</a>
(S) o-Terphenyl	96.3			52.0-156		08/18/2020 14:15	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	5.08	J	2.95	6.00	1	08/19/2020 03:10	<a href="#">WG1527069</a>
Lead,Dissolved	<del>2.96</del>	<del>J</del>	<del>2.95</del>	6.00	UB	08/19/2020 11:07	<a href="#">WG1526881</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/16/2020 20:40	<a href="#">WG1526980</a>
(S) a,a,a-Trifluorotoluene(FID)	96.1			78.0-120		08/16/2020 20:40	<a href="#">WG1526980</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 18:57	<a href="#">WG1526501</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 18:57	<a href="#">WG1526501</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 18:57	<a href="#">WG1526501</a>
Methyl tert-butyl ether	U		0.101	1.00	1	08/15/2020 18:57	<a href="#">WG1526501</a>
Naphthalene	U		1.00	5.00	1	08/15/2020 18:57	<a href="#">WG1526501</a>
Tetrachloroethene	3.03		0.300	1.00	1	08/15/2020 18:57	<a href="#">WG1526501</a>
Toluene	U		0.278	1.00	1	08/15/2020 18:57	<a href="#">WG1526501</a>
Trichloroethene	0.360	J	0.190	1.00	1	08/15/2020 18:57	<a href="#">WG1526501</a>
1,2-Dichloroethane	U		0.0819	1.00	1	08/15/2020 18:57	<a href="#">WG1526501</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 18:57	<a href="#">WG1526501</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 18:57	<a href="#">WG1526501</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 18:57	<a href="#">WG1526501</a>
(S) Toluene-d8	106			80.0-120		08/15/2020 18:57	<a href="#">WG1526501</a>
(S) 4-Bromofluorobenzene	102			77.0-126		08/15/2020 18:57	<a href="#">WG1526501</a>
(S) 1,2-Dichloroethane-d4	95.3			70.0-130		08/15/2020 18:57	<a href="#">WG1526501</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 22:16	<a href="#">WG1526688</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/18/2020 14:42	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	139	J	83.3	250	1	08/18/2020 14:42	<a href="#">WG1526939</a>
(S) o-Terphenyl	96.8			52.0-156		08/18/2020 14:42	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/18/2020 14:42	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	139	J	83.3	250	1	08/18/2020 14:42	<a href="#">WG1526940</a>
(S) o-Terphenyl	96.8			52.0-156		08/18/2020 14:42	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	3.58	J	2.95	6.00	1	08/19/2020 03:12	<a href="#">WG1527069</a>
Lead,Dissolved	<del>4.76</del>	<del>J</del>	<del>2.95</del>	6.00 UB	1	08/19/2020 11:10	<a href="#">WG1526881</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/16/2020 21:02	<a href="#">WG1526980</a>
(S) a,a,a-Trifluorotoluene(FID)	95.9			78.0-120		08/16/2020 21:02	<a href="#">WG1526980</a>

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 19:18	<a href="#">WG1526501</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 19:18	<a href="#">WG1526501</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 19:18	<a href="#">WG1526501</a>
Methyl tert-butyl ether	U		0.101	1.00	1	08/15/2020 19:18	<a href="#">WG1526501</a>
Naphthalene	U		1.00	5.00	1	08/15/2020 19:18	<a href="#">WG1526501</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 19:18	<a href="#">WG1526501</a>
Toluene	U		0.278	1.00	1	08/15/2020 19:18	<a href="#">WG1526501</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 19:18	<a href="#">WG1526501</a>
1,2-Dichloroethane	0.853	J	0.0819	1.00	1	08/15/2020 19:18	<a href="#">WG1526501</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 19:18	<a href="#">WG1526501</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 19:18	<a href="#">WG1526501</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 19:18	<a href="#">WG1526501</a>
(S) Toluene-d8	103			80.0-120		08/15/2020 19:18	<a href="#">WG1526501</a>
(S) 4-Bromofluorobenzene	105			77.0-126		08/15/2020 19:18	<a href="#">WG1526501</a>
(S) 1,2-Dichloroethane-d4	95.8			70.0-130		08/15/2020 19:18	<a href="#">WG1526501</a>

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 22:28	<a href="#">WG1526688</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/18/2020 15:08	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	133	J	83.3	250	1	08/18/2020 15:08	<a href="#">WG1526939</a>
(S) o-Terphenyl	103			52.0-156		08/18/2020 15:08	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/18/2020 15:08	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	133	J	83.3	250	1	08/18/2020 15:08	<a href="#">WG1526940</a>
(S) o-Terphenyl	103			52.0-156		08/18/2020 15:08	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	2.96	J	2.95	6.00	1	08/19/2020 03:15	<a href="#">WG1527069</a>
Lead,Dissolved	U		2.95	6.00	1	08/19/2020 11:13	<a href="#">WG1526881</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/16/2020 21:24	<a href="#">WG1526980</a>
(S) a,a,a-Trifluorotoluene(FID)	95.9			78.0-120		08/16/2020 21:24	<a href="#">WG1526980</a>

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 19:38	<a href="#">WG1526501</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 19:38	<a href="#">WG1526501</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 19:38	<a href="#">WG1526501</a>
Methyl tert-butyl ether	U		0.101	1.00	1	08/15/2020 19:38	<a href="#">WG1526501</a>
Naphthalene	U		1.00	5.00	1	08/15/2020 19:38	<a href="#">WG1526501</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 19:38	<a href="#">WG1526501</a>
Toluene	U		0.278	1.00	1	08/15/2020 19:38	<a href="#">WG1526501</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 19:38	<a href="#">WG1526501</a>
1,2-Dichloroethane	U		0.0819	1.00	1	08/15/2020 19:38	<a href="#">WG1526501</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 19:38	<a href="#">WG1526501</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 19:38	<a href="#">WG1526501</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 19:38	<a href="#">WG1526501</a>
(S) Toluene-d8	104			80.0-120		08/15/2020 19:38	<a href="#">WG1526501</a>
(S) 4-Bromofluorobenzene	104			77.0-126		08/15/2020 19:38	<a href="#">WG1526501</a>
(S) 1,2-Dichloroethane-d4	97.6			70.0-130		08/15/2020 19:38	<a href="#">WG1526501</a>

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 22:40	<a href="#">WG1526688</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	114	J	66.7	200	1	08/18/2020 15:34	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	175	J	83.3	250	1	08/18/2020 15:34	<a href="#">WG1526939</a>
(S) o-Terphenyl	102			52.0-156		08/18/2020 15:34	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	114	J	66.7	200	1	08/18/2020 15:34	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	175	J	83.3	250	1	08/18/2020 15:34	<a href="#">WG1526940</a>
(S) o-Terphenyl	102			52.0-156		08/18/2020 15:34	<a href="#">WG1526940</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 03:18	<a href="#">WG1527069</a>
Lead,Dissolved	3.38	J	2.95	6.00	1	08/19/2020 11:15	<a href="#">WG1526881</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	71.1	B-J	31.6	100	1	08/17/2020 12:55	<a href="#">WG1527202</a>
(S) a,a,a-Trifluorotoluene(FID)	112			78.0-120		08/17/2020 12:55	<a href="#">WG1527202</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/15/2020 19:58	<a href="#">WG1526501</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 19:58	<a href="#">WG1526501</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 19:58	<a href="#">WG1526501</a>
Methyl tert-butyl ether	U		0.101	1.00	1	08/15/2020 19:58	<a href="#">WG1526501</a>
Naphthalene	U		1.00	5.00	1	08/15/2020 19:58	<a href="#">WG1526501</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 19:58	<a href="#">WG1526501</a>
Toluene	U		0.278	1.00	1	08/15/2020 19:58	<a href="#">WG1526501</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 19:58	<a href="#">WG1526501</a>
1,2-Dichloroethane	U		0.0819	1.00	1	08/15/2020 19:58	<a href="#">WG1526501</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 19:58	<a href="#">WG1526501</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 19:58	<a href="#">WG1526501</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 19:58	<a href="#">WG1526501</a>
(S) Toluene-d8	104			80.0-120		08/15/2020 19:58	<a href="#">WG1526501</a>
(S) 4-Bromofluorobenzene	103			77.0-126		08/15/2020 19:58	<a href="#">WG1526501</a>
(S) 1,2-Dichloroethane-d4	97.5			70.0-130		08/15/2020 19:58	<a href="#">WG1526501</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/17/2020 22:52	<a href="#">WG1526688</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/18/2020 16:00	<a href="#">WG1526939</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/18/2020 16:00	<a href="#">WG1526939</a>
(S) o-Terphenyl	96.3			52.0-156		08/18/2020 16:00	<a href="#">WG1526939</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/18/2020 16:00	<a href="#">WG1526940</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/18/2020 16:00	<a href="#">WG1526940</a>
(S) o-Terphenyl	96.3			52.0-156		08/18/2020 16:00	<a href="#">WG1526940</a>



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/17/2020 17:32	<a href="#">WG1527405</a>
(S) a,a,a-Trifluorotoluene(FID)	96.1			78.0-120		08/17/2020 17:32	<a href="#">WG1527405</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	08/15/2020 16:35	<a href="#">WG1526501</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/15/2020 16:35	<a href="#">WG1526501</a>
Ethylbenzene	U		0.137	1.00	1	08/15/2020 16:35	<a href="#">WG1526501</a>
Methyl tert-butyl ether	U		0.101	1.00	1	08/15/2020 16:35	<a href="#">WG1526501</a>
Naphthalene	U		1.00	5.00	1	08/15/2020 16:35	<a href="#">WG1526501</a>
Tetrachloroethene	U		0.300	1.00	1	08/15/2020 16:35	<a href="#">WG1526501</a>
Toluene	U		0.278	1.00	1	08/15/2020 16:35	<a href="#">WG1526501</a>
Trichloroethene	U		0.190	1.00	1	08/15/2020 16:35	<a href="#">WG1526501</a>
1,2-Dichloroethane	U		0.0819	1.00	1	08/15/2020 16:35	<a href="#">WG1526501</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/15/2020 16:35	<a href="#">WG1526501</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/15/2020 16:35	<a href="#">WG1526501</a>
Xylenes, Total	U		0.174	3.00	1	08/15/2020 16:35	<a href="#">WG1526501</a>
(S) Toluene-d8	104			80.0-120		08/15/2020 16:35	<a href="#">WG1526501</a>
(S) 4-Bromofluorobenzene	105			77.0-126		08/15/2020 16:35	<a href="#">WG1526501</a>
(S) 1,2-Dichloroethane-d4	96.9			70.0-130		08/15/2020 16:35	<a href="#">WG1526501</a>

4 Cn

5 Sr

6 Qc

7 Gl

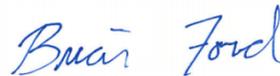
8 Al

9 Sc

## Arcadis - Chevron - WA

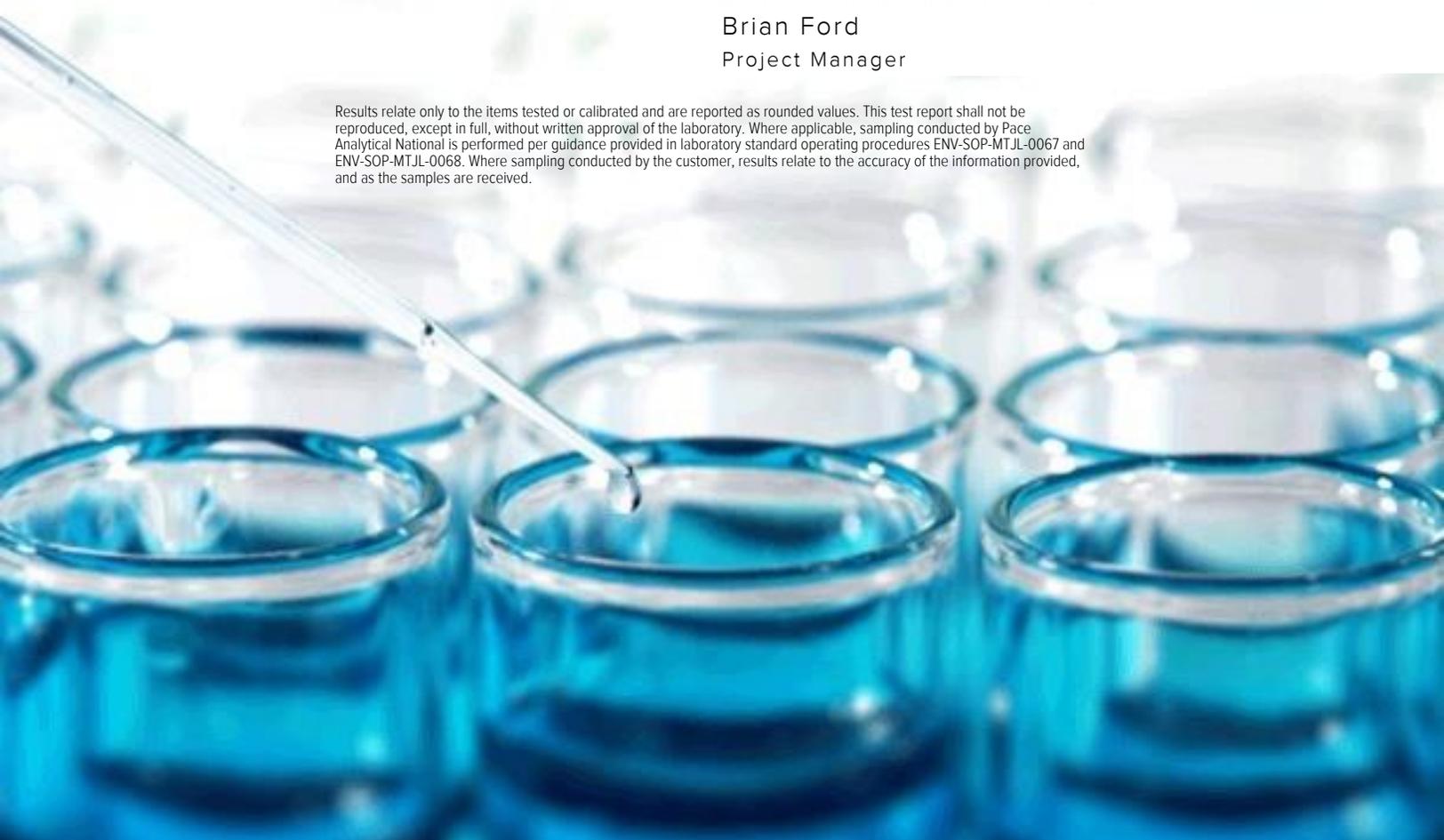
Sample Delivery Group: L1251789  
Samples Received: 08/14/2020  
Project Number: 30045360  
Description: 211577  
Site: 211577, SEATTLE, WA  
Report To: Ada Hamilton  
1100 Olive Way  
Suite 800  
Seattle, WA 98101

Entire Report Reviewed By:



Brian Ford  
Project Manager

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<b>Cp: Cover Page</b>	<b>1</b>	<b>1</b> Cp
<b>Tc: Table of Contents</b>	<b>2</b>	<b>2</b> Tc
<b>Ss: Sample Summary</b>	<b>3</b>	<b>3</b> Ss
<b>Cn: Case Narrative</b>	<b>4</b>	<b>4</b> Cn
<b>Sr: Sample Results</b>	<b>5</b>	<b>5</b> Sr
<b>RINSATE BLANK-3_200813 L1251789-01</b>	<b>5</b>	
<b>MW-21_200813 L1251789-02</b>	<b>6</b>	
<b>SS1-W1_200813 L1251789-03</b>	<b>7</b>	
<b>MW-32_200813 L1251789-04</b>	<b>8</b>	
<b>TRIP BLANK_200813 L1251789-05</b>	<b>9</b>	<b>6</b> Qc
<b>Qc: Quality Control Summary</b>	<b>10</b>	<b>7</b> Gl
<b>Metals (ICP) by Method 6010D</b>	<b>10</b>	
<b>Volatile Organic Compounds (GC) by Method NWTPHGX</b>	<b>12</b>	<b>8</b> Al
<b>Volatile Organic Compounds (GC/MS) by Method 8260D</b>	<b>14</b>	
<b>EDB / DBCP by Method 8011</b>	<b>16</b>	
<b>Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT</b>	<b>17</b>	<b>9</b> Sc
<b>Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT</b>	<b>19</b>	
<b>Gl: Glossary of Terms</b>	<b>21</b>	
<b>Al: Accreditations &amp; Locations</b>	<b>22</b>	
<b>Sc: Sample Chain of Custody</b>	<b>23</b>	

# SAMPLE SUMMARY

## RINSATE BLANK-3\_200813 L1251789-01 GW

Collected by  
TB/JV/DG/BP  
Collected date/time  
08/13/20 08:30  
Received date/time  
08/14/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1528289	1	08/19/20 22:11	08/20/20 14:01	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1528295	1	08/19/20 17:15	08/20/20 00:42	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1528664	1	08/20/20 10:27	08/20/20 10:27	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1528606	1	08/19/20 17:11	08/19/20 17:11	JCP	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1528640	1	08/21/20 07:07	08/21/20 15:55	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1528761	1	08/20/20 05:19	08/23/20 13:54	TJD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1528763	1	08/20/20 05:20	08/23/20 13:54	TJD	Mt. Juliet, TN

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## MW-21\_200813 L1251789-02 GW

Collected by  
TB/JV/DG/BP  
Collected date/time  
08/13/20 12:40  
Received date/time  
08/14/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1528289	1	08/19/20 22:11	08/20/20 12:56	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1528295	1	08/19/20 17:15	08/19/20 23:43	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1528664	1	08/20/20 10:49	08/20/20 10:49	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1528606	1	08/19/20 17:31	08/19/20 17:31	JCP	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1528640	1	08/21/20 07:07	08/21/20 12:10	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1530706	1	08/25/20 00:31	08/25/20 15:28	CAG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1530709	1	08/25/20 00:32	08/25/20 15:28	CAG	Mt. Juliet, TN

## SS1-W1\_200813 L1251789-03 GW

Collected by  
TB/JV/DG/BP  
Collected date/time  
08/13/20 10:30  
Received date/time  
08/14/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1528289	1	08/19/20 22:11	08/20/20 14:04	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1528295	1	08/19/20 17:15	08/20/20 00:45	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1528664	1	08/20/20 11:11	08/20/20 11:11	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1528606	1	08/19/20 17:52	08/19/20 17:52	JCP	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1528640	1	08/21/20 07:07	08/21/20 16:07	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1528761	1	08/20/20 05:19	08/23/20 14:46	TJD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1528763	1	08/20/20 05:20	08/23/20 14:46	TJD	Mt. Juliet, TN

## MW-32\_200813 L1251789-04 GW

Collected by  
TB/JV/DG/BP  
Collected date/time  
08/13/20 12:45  
Received date/time  
08/14/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG1528289	1	08/19/20 22:11	08/20/20 14:06	TRB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1528295	1	08/19/20 17:15	08/20/20 00:47	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1528664	1	08/20/20 11:34	08/20/20 11:34	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1528606	1	08/19/20 18:12	08/19/20 18:12	JCP	Mt. Juliet, TN
EDB / DBCP by Method 8011	WG1528640	1	08/21/20 07:07	08/21/20 16:19	HMH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1528761	1	08/20/20 05:19	08/23/20 15:13	DMG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG1528763	1	08/20/20 05:20	08/23/20 15:13	TJD	Mt. Juliet, TN

## TRIP BLANK\_200813 L1251789-05 GW

Collected by  
TB/JV/DG/BP  
Collected date/time  
08/13/20 13:00  
Received date/time  
08/14/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1528668	1	08/20/20 22:15	08/20/20 22:15	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1528606	1	08/19/20 12:02	08/19/20 12:02	JCP	Mt. Juliet, TN



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/20/2020 00:42	<a href="#">WG1528295</a>
Lead,Dissolved	4.57	J	2.95	6.00	1	08/20/2020 14:01	<a href="#">WG1528289</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/20/2020 10:27	<a href="#">WG1528664</a>
(S) a,a,a-Trifluorotoluene(FID)	99.2			78.0-120		08/20/2020 10:27	<a href="#">WG1528664</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/19/2020 17:11	<a href="#">WG1528606</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/19/2020 17:11	<a href="#">WG1528606</a>
Ethylbenzene	U		0.137	1.00	1	08/19/2020 17:11	<a href="#">WG1528606</a>
Naphthalene	U		1.00	5.00	1	08/19/2020 17:11	<a href="#">WG1528606</a>
Tetrachloroethene	U		0.300	1.00	1	08/19/2020 17:11	<a href="#">WG1528606</a>
Toluene	U		0.278	1.00	1	08/19/2020 17:11	<a href="#">WG1528606</a>
Trichloroethene	U		0.190	1.00	1	08/19/2020 17:11	<a href="#">WG1528606</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/19/2020 17:11	<a href="#">WG1528606</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/19/2020 17:11	<a href="#">WG1528606</a>
Xylenes, Total	U		0.174	3.00	1	08/19/2020 17:11	<a href="#">WG1528606</a>
(S) Toluene-d8	108			80.0-120		08/19/2020 17:11	<a href="#">WG1528606</a>
(S) 4-Bromofluorobenzene	88.3			77.0-126		08/19/2020 17:11	<a href="#">WG1528606</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		08/19/2020 17:11	<a href="#">WG1528606</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/21/2020 15:55	<a href="#">WG1528640</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/23/2020 13:54	<a href="#">WG1528761</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/23/2020 13:54	<a href="#">WG1528761</a>
(S) o-Terphenyl	76.3			52.0-156		08/23/2020 13:54	<a href="#">WG1528761</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/23/2020 13:54	<a href="#">WG1528763</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/23/2020 13:54	<a href="#">WG1528763</a>
(S) o-Terphenyl	76.3			52.0-156		08/23/2020 13:54	<a href="#">WG1528763</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 23:43	<a href="#">WG1528295</a>
Lead,Dissolved	U		2.95	6.00	1	08/20/2020 12:56	<a href="#">WG1528289</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	454		31.6	100	1	08/20/2020 10:49	<a href="#">WG1528664</a>
(S) a,a,a-Trifluorotoluene(FID)	89.3			78.0-120		08/20/2020 10:49	<a href="#">WG1528664</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	33.5		0.0941	1.00	1	08/19/2020 17:31	<a href="#">WG1528606</a>
cis-1,2-Dichloroethene	87.5		0.126	1.00	1	08/19/2020 17:31	<a href="#">WG1528606</a>
Ethylbenzene	U		0.137	1.00	1	08/19/2020 17:31	<a href="#">WG1528606</a>
Naphthalene	U		1.00	5.00	1	08/19/2020 17:31	<a href="#">WG1528606</a>
Tetrachloroethene	13.5		0.300	1.00	1	08/19/2020 17:31	<a href="#">WG1528606</a>
Toluene	U		0.278	1.00	1	08/19/2020 17:31	<a href="#">WG1528606</a>
Trichloroethene	31.9		0.190	1.00	1	08/19/2020 17:31	<a href="#">WG1528606</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/19/2020 17:31	<a href="#">WG1528606</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/19/2020 17:31	<a href="#">WG1528606</a>
Xylenes, Total	U		0.174	3.00	1	08/19/2020 17:31	<a href="#">WG1528606</a>
(S) Toluene-d8	106			80.0-120		08/19/2020 17:31	<a href="#">WG1528606</a>
(S) 4-Bromofluorobenzene	89.3			77.0-126		08/19/2020 17:31	<a href="#">WG1528606</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		08/19/2020 17:31	<a href="#">WG1528606</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/21/2020 12:10	<a href="#">WG1528640</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	94.8	J	66.7	200	1	08/25/2020 15:28	<a href="#">WG1530706</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/25/2020 15:28	<a href="#">WG1530706</a>
(S) o-Terphenyl	88.5			52.0-156		08/25/2020 15:28	<a href="#">WG1530706</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	90.5	J	66.7	200	1	08/25/2020 15:28	<a href="#">WG1530709</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/25/2020 15:28	<a href="#">WG1530709</a>
(S) o-Terphenyl	88.4			52.0-156		08/25/2020 15:28	<a href="#">WG1530709</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/20/2020 00:45	<a href="#">WG1528295</a>
Lead,Dissolved	U		2.95	6.00	1	08/20/2020 14:04	<a href="#">WG1528289</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/20/2020 11:11	<a href="#">WG1528664</a>
(S) a,a,a-Trifluorotoluene(FID)	99.3			78.0-120		08/20/2020 11:11	<a href="#">WG1528664</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/19/2020 17:52	<a href="#">WG1528606</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/19/2020 17:52	<a href="#">WG1528606</a>
Ethylbenzene	U		0.137	1.00	1	08/19/2020 17:52	<a href="#">WG1528606</a>
Naphthalene	U		1.00	5.00	1	08/19/2020 17:52	<a href="#">WG1528606</a>
Tetrachloroethene	U		0.300	1.00	1	08/19/2020 17:52	<a href="#">WG1528606</a>
Toluene	U		0.278	1.00	1	08/19/2020 17:52	<a href="#">WG1528606</a>
Trichloroethene	U		0.190	1.00	1	08/19/2020 17:52	<a href="#">WG1528606</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/19/2020 17:52	<a href="#">WG1528606</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/19/2020 17:52	<a href="#">WG1528606</a>
Xylenes, Total	U		0.174	3.00	1	08/19/2020 17:52	<a href="#">WG1528606</a>
(S) Toluene-d8	104			80.0-120		08/19/2020 17:52	<a href="#">WG1528606</a>
(S) 4-Bromofluorobenzene	86.8			77.0-126		08/19/2020 17:52	<a href="#">WG1528606</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		08/19/2020 17:52	<a href="#">WG1528606</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/21/2020 16:07	<a href="#">WG1528640</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/23/2020 14:46	<a href="#">WG1528761</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/23/2020 14:46	<a href="#">WG1528761</a>
(S) o-Terphenyl	75.8			52.0-156		08/23/2020 14:46	<a href="#">WG1528761</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/23/2020 14:46	<a href="#">WG1528763</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/23/2020 14:46	<a href="#">WG1528763</a>
(S) o-Terphenyl	75.8			52.0-156		08/23/2020 14:46	<a href="#">WG1528763</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/20/2020 00:47	<a href="#">WG1528295</a>
Lead,Dissolved	U		2.95	6.00	1	08/20/2020 14:06	<a href="#">WG1528289</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/20/2020 11:34	<a href="#">WG1528664</a>
(S) a,a,a-Trifluorotoluene(FID)	98.8			78.0-120		08/20/2020 11:34	<a href="#">WG1528664</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/19/2020 18:12	<a href="#">WG1528606</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/19/2020 18:12	<a href="#">WG1528606</a>
Ethylbenzene	U		0.137	1.00	1	08/19/2020 18:12	<a href="#">WG1528606</a>
Naphthalene	U		1.00	5.00	1	08/19/2020 18:12	<a href="#">WG1528606</a>
Tetrachloroethene	U		0.300	1.00	1	08/19/2020 18:12	<a href="#">WG1528606</a>
Toluene	U		0.278	1.00	1	08/19/2020 18:12	<a href="#">WG1528606</a>
Trichloroethene	U		0.190	1.00	1	08/19/2020 18:12	<a href="#">WG1528606</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/19/2020 18:12	<a href="#">WG1528606</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/19/2020 18:12	<a href="#">WG1528606</a>
Xylenes, Total	U		0.174	3.00	1	08/19/2020 18:12	<a href="#">WG1528606</a>
(S) Toluene-d8	106			80.0-120		08/19/2020 18:12	<a href="#">WG1528606</a>
(S) 4-Bromofluorobenzene	87.4			77.0-126		08/19/2020 18:12	<a href="#">WG1528606</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		08/19/2020 18:12	<a href="#">WG1528606</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/21/2020 16:19	<a href="#">WG1528640</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/23/2020 15:13	<a href="#">WG1528761</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/23/2020 15:13	<a href="#">WG1528761</a>
(S) o-Terphenyl	75.3			52.0-156		08/23/2020 15:13	<a href="#">WG1528761</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/23/2020 15:13	<a href="#">WG1528763</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/23/2020 15:13	<a href="#">WG1528763</a>
(S) o-Terphenyl	75.3			52.0-156		08/23/2020 15:13	<a href="#">WG1528763</a>



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/20/2020 22:15	<a href="#">WG1528668</a>
(S) a,a,a-Trifluorotoluene(FID)	112			78.0-120		08/20/2020 22:15	<a href="#">WG1528668</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	08/19/2020 12:02	<a href="#">WG1528606</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/19/2020 12:02	<a href="#">WG1528606</a>
Ethylbenzene	U		0.137	1.00	1	08/19/2020 12:02	<a href="#">WG1528606</a>
Naphthalene	U		1.00	5.00	1	08/19/2020 12:02	<a href="#">WG1528606</a>
Tetrachloroethene	U		0.300	1.00	1	08/19/2020 12:02	<a href="#">WG1528606</a>
Toluene	U		0.278	1.00	1	08/19/2020 12:02	<a href="#">WG1528606</a>
Trichloroethene	U		0.190	1.00	1	08/19/2020 12:02	<a href="#">WG1528606</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/19/2020 12:02	<a href="#">WG1528606</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/19/2020 12:02	<a href="#">WG1528606</a>
Xylenes, Total	U		0.174	3.00	1	08/19/2020 12:02	<a href="#">WG1528606</a>
(S) Toluene-d8	101			80.0-120		08/19/2020 12:02	<a href="#">WG1528606</a>
(S) 4-Bromofluorobenzene	88.2			77.0-126		08/19/2020 12:02	<a href="#">WG1528606</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		08/19/2020 12:02	<a href="#">WG1528606</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3561987-1 08/20/20 12:50

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Lead,Dissolved	U		2.95	6.00

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Laboratory Control Sample (LCS)

(LCS) R3561987-2 08/20/20 12:53

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead,Dissolved	1000	945	94.5	80.0-120	

<sup>4</sup>Cn

<sup>5</sup>Sr

L1251789-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1251789-02 08/20/20 12:56 • (MS) R3561987-4 08/20/20 13:01 • (MSD) R3561987-5 08/20/20 13:03

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lead,Dissolved	1000	U	964	939	96.4	93.9	1	75.0-125			2.66	20

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



Method Blank (MB)

(MB) R3561717-1 08/19/20 23:28

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Lead	U		2.95	6.00

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS)

(LCS) R3561717-2 08/19/20 23:30

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Lead	1000	957	95.7	80.0-120	

L1250766-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1250766-01 08/19/20 23:33 • (MS) R3561717-4 08/19/20 23:38 • (MSD) R3561717-5 08/19/20 23:41

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Lead	1000	U	962	958	96.2	95.8	1	75.0-125			0.435	20

L1251789-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1251789-02 08/19/20 23:43 • (MS) R3561717-6 08/19/20 23:46 • (MSD) R3561717-7 08/19/20 23:48

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Lead	1000	U	964	966	96.4	96.6	1	75.0-125			0.174	20



Method Blank (MB)

(MB) R3562216-2 08/20/20 05:00

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	99.3			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3562216-1 08/20/20 03:56

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5340	97.1	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			99.3	78.0-120	

5 Sr

6 Qc

7 Gl

L1250727-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1250727-21 08/20/20 05:37 • (MS) R3562216-3 08/20/20 13:03 • (MSD) R3562216-4 08/20/20 13:25

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	2010	6850	6710	88.0	85.5	1	10.0-155			2.06	21
(S) a,a,a-Trifluorotoluene(FID)					115	114		78.0-120				

8 Al

9 Sc

L1251789-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1251789-02 08/20/20 10:49 • (MS) R3562216-5 08/20/20 13:48 • (MSD) R3562216-6 08/20/20 14:10

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	454	4430	5340	72.3	88.8	1	10.0-155			18.6	21
(S) a,a,a-Trifluorotoluene(FID)					91.4	95.9		78.0-120				



Method Blank (MB)

(MB) R3562756-3 08/20/20 20:21

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	113			78.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3562756-1 08/20/20 19:19 • (LCSD) R3562756-2 08/20/20 19:40

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	5990	6280	109	114	70.0-124			4.73	20
(S) a,a,a-Trifluorotoluene(FID)				104	106	78.0-120				

L1251214-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1251214-12 08/21/20 04:35 • (MS) R3562756-4 08/21/20 05:57 • (MSD) R3562756-5 08/21/20 06:18

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	U	5260	6290	95.6	114	1	10.0-155			17.8	21
(S) a,a,a-Trifluorotoluene(FID)					100	102		78.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3562102-4 08/19/20 11:17

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Benzene	U		0.0941	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
Ethylbenzene	U		0.137	1.00
Naphthalene	U		1.00	5.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
Trichloroethene	U		0.190	1.00
1,2,4-Trimethylbenzene	U		0.322	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Xylenes, Total	U		0.174	3.00
<i>(S) Toluene-d8</i>	106			80.0-120
<i>(S) 4-Bromofluorobenzene</i>	86.9			77.0-126
<i>(S) 1,2-Dichloroethane-d4</i>	105			70.0-130

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS)

(LCS) R3562102-1 08/19/20 09:54

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Benzene	5.00	5.12	102	70.0-123	
cis-1,2-Dichloroethene	5.00	4.88	97.6	73.0-120	
Ethylbenzene	5.00	4.75	95.0	79.0-123	
Naphthalene	5.00	5.13	103	54.0-135	
Tetrachloroethene	5.00	4.87	97.4	72.0-132	
Toluene	5.00	4.79	95.8	79.0-120	
Trichloroethene	5.00	4.79	95.8	78.0-124	
1,2,4-Trimethylbenzene	5.00	4.98	99.6	76.0-121	
1,3,5-Trimethylbenzene	5.00	5.03	101	76.0-122	
Xylenes, Total	15.0	14.1	94.0	79.0-123	
<i>(S) Toluene-d8</i>			101	80.0-120	
<i>(S) 4-Bromofluorobenzene</i>			88.4	77.0-126	
<i>(S) 1,2-Dichloroethane-d4</i>			111	70.0-130	



L1251789-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1251789-02 08/19/20 17:31 • (MS) R3562102-5 08/19/20 18:53 • (MSD) R3562102-6 08/19/20 19:14

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	5.00	33.5	38.0	35.6	90.0	42.0	1	17.0-158			6.52	27
cis-1,2-Dichloroethene	5.00	87.5	93.9	91.0	128	70.0	1	10.0-160			3.14	27
Ethylbenzene	5.00	U	4.91	4.53	98.2	90.6	1	30.0-155			8.05	27
Naphthalene	5.00	U	5.94	5.95	119	119	1	12.0-156			0.168	35
Tetrachloroethene	5.00	13.5	18.8	18.0	106	90.0	1	10.0-160			4.35	27
Toluene	5.00	U	4.78	4.60	95.6	92.0	1	26.0-154			3.84	28
Trichloroethene	5.00	31.9	36.6	35.8	94.0	78.0	1	10.0-160			2.21	25
1,2,4-Trimethylbenzene	5.00	U	5.39	5.19	108	104	1	26.0-154			3.78	27
1,3,5-Trimethylbenzene	5.00	U	5.79	5.50	116	110	1	28.0-153			5.14	27
Xylenes, Total	15.0	U	14.5	13.8	96.7	92.0	1	29.0-154			4.95	28
<i>(S) Toluene-d8</i>					101	100		80.0-120				
<i>(S) 4-Bromofluorobenzene</i>					89.8	87.9		77.0-126				
<i>(S) 1,2-Dichloroethane-d4</i>					109	107		70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3562574-1 08/21/20 11:47

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Ethylene Dibromide	U		0.00536	0.0200

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

L1251466-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1251466-08 08/21/20 12:34 • (DUP) R3562574-3 08/21/20 12:22

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ethylene Dibromide	U	U	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3562574-4 08/21/20 14:20 • (LCSD) R3562574-5 08/21/20 16:31

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Ethylene Dibromide	0.250	0.244	0.242	97.6	96.8	60.0-140			0.823	20

7 Gl

8 Al

9 Sc

L1251789-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1251789-02 08/21/20 12:10 • (MS) R3562574-2 08/21/20 11:58

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Ethylene Dibromide	0.100	U	0.103	103	1	64.0-159	



Method Blank (MB)

(MB) R3562882-1 08/23/20 11:44

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		66.7	200
Residual Range Organics (RRO)	U		83.3	250
<i>(S) o-Terphenyl</i>	73.0			52.0-156

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3562882-2 08/23/20 12:11 • (LCSD) R3562882-3 08/23/20 12:37

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	1500	1570	1550	105	103	50.0-150			1.28	20
<i>(S) o-Terphenyl</i>				95.5	92.5	52.0-156				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3563858-1 08/25/20 14:36

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Diesel Range Organics (DRO)	U		66.7	200
Residual Range Organics (RRO)	U		83.3	250
<i>(S) o-Terphenyl</i>	85.0			52.0-156

Laboratory Control Sample (LCS)

(LCS) R3563858-2 08/25/20 15:02

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Diesel Range Organics (DRO)	1500	1560	104	50.0-150	
<i>(S) o-Terphenyl</i>			98.0	52.0-156	

L1251789-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1251789-02 08/25/20 15:28 • (MS) R3563858-3 08/25/20 15:55 • (MSD) R3563858-4 08/25/20 16:21

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Diesel Range Organics (DRO)	1500	94.8	1730	1680	109	106	1	50.0-150			2.93	20
<i>(S) o-Terphenyl</i>					99.5	93.5		52.0-156				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3562883-1 08/23/20 16:20

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Diesel Range Organics (DRO)	U		66.7	200
Residual Range Organics (RRO)	U		83.3	250
<i>(S) o-Terphenyl</i>	73.0			52.0-156

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3562883-2 08/23/20 16:46 • (LCSD) R3562883-3 08/23/20 17:12

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Diesel Range Organics (DRO)	1500	1460	1200	97.3	80.0	50.0-150			19.5	20
<i>(S) o-Terphenyl</i>				90.5	71.0	52.0-156				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3564040-3 08/26/20 08:48

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Diesel Range Organics (DRO)	U		66.7	200
Residual Range Organics (RRO)	120	J	83.3	250
<i>(S) o-Terphenyl</i>	86.5			52.0-156

Laboratory Control Sample (LCS)

(LCS) R3564040-4 08/26/20 09:14

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Diesel Range Organics (DRO)	1500	1510	101	50.0-150	
<i>(S) o-Terphenyl</i>			94.5	52.0-156	

L1251789-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1251789-02 08/25/20 15:28 • (MS) R3564040-1 08/25/20 15:55 • (MSD) R3564040-2 08/25/20 16:21

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Diesel Range Organics (DRO)	1430	90.5	1650	1590	109	105	1	50.0-150			3.70	20
<i>(S) o-Terphenyl</i>					99.5	93.7		52.0-156				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 GI
- 8 AI
- 9 Sc

### Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
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Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

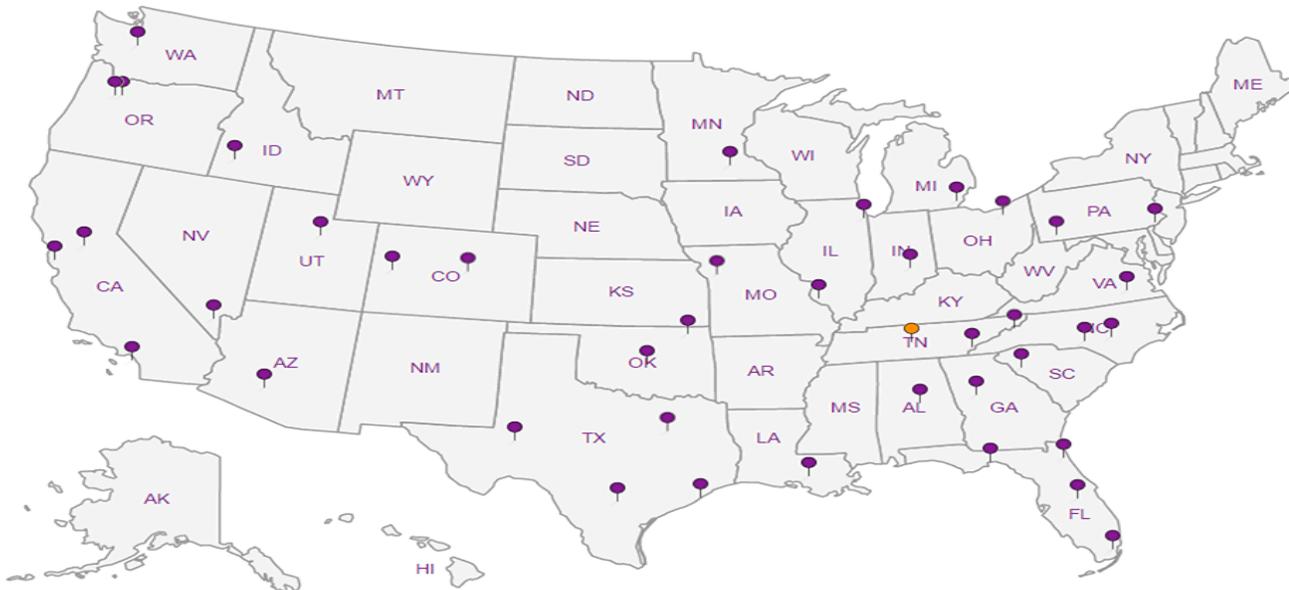
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



**Arcadis - Chevron - WA**  
 1100 Olive Way  
 Suite 800  
 Seattle WA 98101

**Billing Information:**  
 Attn: Accounts Payable  
 630 Plaza Dr., Ste. 600  
 Highlands Ranch, CO 80129

Report to:  
**Ada Hamilton**

Project Description:  
**211577**

City/State Collected: **Seattle WA**

Please Circle: PT MT CT ET

Analysis / Container / Preservative



Client Project # **30045360**

Lab Project # **CHEVARCWA-211577**

Site/Facility ID # **211577, Seattle, WA**

P.O. #

Quote # **Standard**

Date Results Needed

Immediately Packed on Ice: N  Y

Rush? (Lab MUST Be Notified)  
 \_\_\_ Same Day \_\_\_ Five Day  
 \_\_\_ Next Day \_\_\_ 5 Day (Rad Only)  
 \_\_\_ Two Day \_\_\_ 10 Day (Rad Only)  
 \_\_\_ Three Day

SDG # **1251789**

Table #

Acctnum: **CHEVARCWA**

Template: **T172074**

Prelogin: **P789679**

PM: **110 - Brian Ford**

PB: **DN**

Shipped Via:

Remarks Sample # (lab only)

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Diss Pb 6010 250mIHDPE-NoPres	EDB 8011 40mIClr-NaThio	NWTPHDX no silica 40mIAmb-HCl-BT	NWTPHDX w/ silica 40mIAmb-HCl-BT	NWTPHGX 40mIAmb HCl	Total Pb 6010 250mIHDPE-HNO3	VOCs 8260D * 40mIAmb-HCl		
Rinsate Blank -3	Grab	GW		8/13/20	0830	15	X	X	X	X	X	X	X		-01
MW-21	Grab	GW		8/13/20	1240	15	X	X	X	X	X	X	X		-02
SS1-N1	Grab	GW		8/13/20	1030	15	X	X	X	X	X	X	X		-03
MW-32	Grab	GW		8/13/20	1245	15	X	X	X	X	X	X	X		-04
MS/MSD	Grab	GW		8/13/20	1300	30	X	X	X	X	X	X	X		-05
Trip Blank	---	GW		8/13/20	---	3									-06 -05
		GW													
		GW													
		GW													
		GW													

\* Matrix: SS - Soil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - WasteWater  
 DW - Drinking Water  
 OT - Other

Remarks: \*VOCs 8260D=BTEX,Naph,PCE,TCE,cis-12-DCE,135-TMB,124-TMB.

pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_

Samples returned via: \_\_\_ UPS \_\_\_ FedEx \_\_\_ Courier

Tracking # **9050 0891 2238**

Sample Receipt Checklist  
 COC Seal Present/Intact:  NP  Y  N  
 COC Signed/Accurate:  Y  N  
 Bottles arrive intact:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N  
 If Applicable  
 VOA Zero Headspace:  Y  N  
 Preservation Correct/Checked:  Y  N  
 RAD Screen <0.5 mR/hr:  Y  N

Relinquished by: (Signature) **Julia Udeh** Date: **8/13/20** Time: **1400**

Received by: (Signature) \_\_\_\_\_ Trip Blank Received:  Yes  No  
 HCL/MeOH TBR

Temp: **1.8 ± 0.1 = 1.8 °C** Bottles Received: **90**

If preservation required by Login: Date/Time

Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received for lab by: (Signature) \_\_\_\_\_ Date: **08/14/20** Time: **0030**

Hold: \_\_\_\_\_ Condition: **NCF / OK**

# CHEVRON - 211577

## DATA REVIEW

SEATTLE, WASHINGTON

Volatile organic compounds, Total Petroleum Hydrocarbons, Ethylene Dibromide and Metals Analyses

SDG # L1251789

Analyses Performed By:  
Pace Analytical  
Mount Juliet, Tennessee

Report # 38387R  
Review Level: Tier II  
Project: 30045360.5130.GEC



## DATA REVIEW REPORT

### SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # L1251789 for samples collected in association with the Chevron Seattle, Washington. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis			
					VOC	TPH	EDB	MET
RINSATE BLANK-3_200813	L1251789-01	Water	08/13/2020		X	X	X	X
MW-21_200813	L1251789-02	Water	08/13/2020		X	X	X	X
SS1-W1_200813	L1251789-03	Water	08/13/2020		X	X	X	X
MW-32_200813	L1251789-04	Water	08/13/2020		X	X	X	X
TRIP BLANK_200813	L1251789-05	Water	08/13/2020		X	X		

Notes:

VOC – Volatile Organic Compounds.

TPH – Total Petroleum Hydrocarbons.

EDB – Ethylene Dibromide.

MET – Metals (Total and Dissolved).

## DATA REVIEW REPORT

### ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

Note:

QA - Quality Assurance

## DATA REVIEW REPORT

### ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D, ECY 97-602 NWTPH,Gx, ECY 97-602 NWTPH,Dx and 8011. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
  - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
  - E The compound was quantitated above the calibration range.
  - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
  - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
  - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
  - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
  - UB Compound considered non-detect at the listed value due to associated blank contamination.
  - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
  - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

## DATA REVIEW REPORT

### VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

#### 1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260D	Water	14 days from collection to analysis (preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u.

Note:

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

#### 2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

#### 3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

#### 4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

MS/MSD analysis was performed on sample ID MW-21\_200813. MS/MSD analysis exhibited acceptable recoveries and RPDs.

#### 5. Laboratory Control Sample (LCS) Analysis

The LCS/LCSD analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery and RPD within the laboratory-established acceptance limits.

## **DATA REVIEW REPORT**

All compounds associated with the LCS/LCSD analysis exhibited recoveries and RPDs within the control limits.

### **6. Field Duplicate Analysis**

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected for samples from this SDG.

### **7. System Performance and Overall Assessment**

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

# DATA REVIEW REPORT

## DATA VALIDATION CHECKLIST FOR VOCs

VOCs: SW-846 8260D	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
<b>GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)</b>					
<b>Tier II Validation</b>					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks		X		X	
C. Trip blanks		X		X	
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate (LCSD)	X				X
LCS/LCSD Precision (RPD)	X				X
Matrix Spike (MS)		X		X	
Matrix Spike Duplicate (MSD)		X		X	
MS/MSD Precision (RPD)		X		X	
Lab Duplicate (RPD)	X				X
Field Duplicate (RPD)	X				X
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	

**Notes:**

%R    Percent recovery

RPD    Relative percent difference

## DATA REVIEW REPORT

### TOTAL PETROLEUM HYDROCARBONS ANALYSES

#### 1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
ECY 97-602 NWTPH-Gx	Water	14 days from collection to analysis	Cool to <6 °C: preserved to a pH of less than 2 s.u.
ECY 97-602 NWTPH-Dx			

All samples were analyzed within the specified holding times.

#### 2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

#### 3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. The analysis requires surrogate compounds exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

#### 4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

MS/MSD analysis was performed on sample ID MW-21\_200813. MS/MSD analysis exhibited acceptable recoveries and RPDs.

#### 5. Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate Analysis (LCSD)

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery and RPD within the laboratory-established acceptance limits.

All compounds associated with the LCS/LCSD analysis exhibited recoveries and RPDs within the control limits.

## **DATA REVIEW REPORT**

### **6. Field Duplicate Analysis**

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected for samples from this SDG.

### **7. System Performance and Overall Assessment**

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

## DATA REVIEW REPORT

### DATA VALIDATION CHECKLIST FOR TPH

TPH: ECY 97-602 NWTPH-Gx and ECY 97-602 NWTPH-Dx	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY (GC/FID)					
<b>Tier II Validation</b>					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks		X		X	
C. Trip blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Lab Duplicate (RPD)	X				X
Field Duplicate (RPD)	X				X
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	

**Notes:**

%R - percent recovery

RPD - relative percent difference

## DATA REVIEW REPORT

### ETHYLENE DIBROMIDE ANALYSES

#### 1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8011	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to <6°C

All samples were analyzed within the specified holding time criteria.

#### 2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compound Ethylene dibromide was not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

#### 3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

##### 3.1 MS/MSD Analysis

The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

MS analysis was performed on sample ID MW-21\_200813. MS analysis exhibited acceptable recovery.

##### 3.2 Laboratory Duplicate Analysis

The laboratory duplicates relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

Laboratory duplicate analysis was not performed on samples from this SDG.

#### 4. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery and RPD within the laboratory-established acceptance limits.

## **DATA REVIEW REPORT**

All compounds associated with the LCS/LCSD analysis exhibited recoveries and RPDs within the control limits.

### **5. Field Duplicate Analysis**

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected for samples from this SDG.

### **6. System Performance and Overall Assessment**

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

# DATA REVIEW REPORT

## DATA VALIDATION CHECKLIST FOR ETHYLNE DIBROMIDE

Ethylene Dibromide: SW-846 8011	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
<b>GAS CHROMATOGRAPHY/FLAME IONIZATION DETECTOR (GC/FID)</b>					

### Tier II Validation

Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment/Field blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Lab Duplicate (RPD)	X				X
Field Duplicate (RPD)	X				X
Dilution Factor		X		X	

#### Notes:

%R - percent recovery

RPD - relative percent difference

## DATA REVIEW REPORT

### INORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 6010D. Data were reviewed in accordance with USEPA National Functional Guidelines of July 2002.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
  - J The reported value was obtained from a reading less than the reporting limit (RL), but greater than or equal to the method detection limit (MDL).
- Quantitation (Q) Qualifiers
  - E The reported value is estimated due to the presence of interference.
  - N Spiked sample recovery is not within control limits.
  - \* Duplicate analysis is not within control limits.
- Validation Qualifiers
  - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
  - UJ The analyte was not detected above the reporting limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
  - UB Analyte considered non-detect at the listed value due to associated blank contamination.
  - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

## DATA REVIEW REPORT

### METALS ANALYSES

#### 1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010D	Water	180 days from collection to analysis	Preserved to a pH of less than 2.

All samples were analyzed within the specified holding times.

#### 2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analyte dissolved lead was detected (4.57 J µg/l) in rinse blank (RINSATE BLANK-3\_200813); however, the associated sample results were non-detect. No other qualification of the sample results was required.

#### 3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

##### 3.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

MS/MSD analysis was performed on sample ID MW-21\_200813. MS/MSD analysis exhibited acceptable recoveries and RPDs.

##### 3.2 Laboratory Duplicate Analysis

The laboratory duplicates relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

Laboratory duplicate analysis was not performed on samples from this SDG.

#### 4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

## **DATA REVIEW REPORT**

A field duplicate sample was not collected for samples from this SDG.

### **5. Laboratory Control Sample (LCS) Analysis**

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

### **6. General Assessment – Total vs. Dissolved**

When the dissolved concentration exceeded the associated total concentration, and both results were five times greater than the LOQ, then the %D between the total and dissolved concentrations must be less than 10%.

The calculated %D between the total and the dissolved sample results were within the control limit.

### **7. System Performance and Overall Assessment**

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

## DATA REVIEW REPORT

### DATA VALIDATION CHECKLIST FOR METAL

METALS; SW-846 6010D	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)					
<b>Tier II Validation</b>					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Instrument Blanks	X				X
B. Method Blanks		X		X	
C. Equipment/Field Blanks		X	X		
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate (LCSD) %R	X				X
LCS/LCSD Precision (RPD)	X				X
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Lab Duplicate (RPD)	X				X
Field Duplicate (RPD)	X				X
Total vs Dissolved %D	X				X
Reporting Limit Verification		X		X	

Notes:

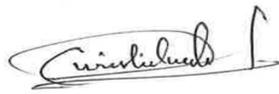
%R Percent recovery

RPD Relative percent difference

%D Percent difference

## DATA REVIEW REPORT

VALIDATION PERFORMED BY: Hrishikesh Upadhyaya

SIGNATURE: 

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DATE: September 23, 2020

PEER REVIEW: Dennis Capria

DATE: September 25, 2020

**CHAIN OF CUSTODY  
CORRECTED SAMPLE ANALYSIS DATA  
SHEETS**



**Arcadis - Chevron - WA**  
 1100 Olive Way  
 Suite 800  
 Seattle WA 98101

Billing Information:  
 Attn: Accounts Payable  
 630 Plaza Dr., Ste. 600  
 Highlands Ranch, CO 80129

Report to:  
**Ada Hamilton**

Project Description:  
**211577**

City/State Collected: **Seattle WA**

Please Circle: PT MT CT ET

Analysis / Container / Preservative



Client Project # **30045360**

Lab Project # **CHEVARCWA-211577**

Site/Facility ID # **211577, Seattle, WA**

P.O. #

Quote # **Standard**

Date Results Needed

Immediately Packed on Ice: N  Y

Rush? (Lab MUST Be Notified)  
 \_\_\_ Same Day \_\_\_ Five Day  
 \_\_\_ Next Day \_\_\_ 5 Day (Rad Only)  
 \_\_\_ Two Day \_\_\_ 10 Day (Rad Only)  
 \_\_\_ Three Day

SDG # **1251789**

Table #

Acctnum: **CHEVARCWA**

Template: **T172074**

Prelogin: **P789679**

PM: **110 - Brian Ford**

PB: **DN**

Shipped Via:

Remarks Sample # (lab only)

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Diss Pb 6010 250mIHDPE-NoPres	EDB 8011 40mIClr-NaThio	NWTPHDX no silica 40mIAmb-HCl-BT	NWTPHDX w/ silica 40mIAmb-HCl-BT	NWTPHGX 40mIAmb HCl	Total Pb 6010 250mIHDPE-HNO3	VOCs 8260D* 40mIAmb-HCl		
Rinsate Blank -3	Grab	GW		8/13/20	0830	15	X	X	X	X	X	X	X		-01
MW-21	Grab	GW		8/13/20	1240	15	X	X	X	X	X	X	X		-02
SS1-N1	Grab	GW		8/13/20	1030	15	X	X	X	X	X	X	X		-03
MW-32	Grab	GW		8/13/20	1245	15	X	X	X	X	X	X	X		-04
MS/MSD	Grab	GW		8/13/20	1300	30	X	X	X	X	X	X	X		-05
Trip Blank	---	GW		8/13/20	---	3									-06 -05
		GW													
		GW													
		GW													
		GW													

\* Matrix: SS - Soil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - WasteWater  
 DW - Drinking Water  
 OT - Other

Remarks: \*VOCs 8260D=BTEX,Naph,PCE,TCE,cis-12-DCE,135-TMB,124-TMB.

pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_

Samples returned via: \_\_\_ UPS \_\_\_ FedEx \_\_\_ Courier

Tracking # **9050 0891 2238**

Sample Receipt Checklist  
 COC Seal Present/Intact:  NP  Y  N  
 COC Signed/Accurate:  Y  N  
 Bottles arrive intact:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N  
 If Applicable  
 VOA Zero Headspace:  Y  N  
 Preservation Correct/Checked:  Y  N  
 RAD Screen <0.5 mR/hr:  Y  N

Relinquished by: (Signature) **Julia Udeh** Date: **8/13/20** Time: **1400**

Received by: (Signature) **[Signature]** Trip Blank Received:  Yes  No  
 HCL/MeOH TBR

Temp: **1.8 ± 0.1 = 1.8 °C** Bottles Received: **90**

If preservation required by Login: Date/Time

Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received for lab by: (Signature) **[Signature]** Date: **08/14/20** Time: **0030**

Hold: \_\_\_\_\_ Condition: **NCF / OK**



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/20/2020 00:42	<a href="#">WG1528295</a>
Lead,Dissolved	4.57	J	2.95	6.00	1	08/20/2020 14:01	<a href="#">WG1528289</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/20/2020 10:27	<a href="#">WG1528664</a>
(S) a,a,a-Trifluorotoluene(FID)	99.2			78.0-120		08/20/2020 10:27	<a href="#">WG1528664</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/19/2020 17:11	<a href="#">WG1528606</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/19/2020 17:11	<a href="#">WG1528606</a>
Ethylbenzene	U		0.137	1.00	1	08/19/2020 17:11	<a href="#">WG1528606</a>
Naphthalene	U		1.00	5.00	1	08/19/2020 17:11	<a href="#">WG1528606</a>
Tetrachloroethene	U		0.300	1.00	1	08/19/2020 17:11	<a href="#">WG1528606</a>
Toluene	U		0.278	1.00	1	08/19/2020 17:11	<a href="#">WG1528606</a>
Trichloroethene	U		0.190	1.00	1	08/19/2020 17:11	<a href="#">WG1528606</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/19/2020 17:11	<a href="#">WG1528606</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/19/2020 17:11	<a href="#">WG1528606</a>
Xylenes, Total	U		0.174	3.00	1	08/19/2020 17:11	<a href="#">WG1528606</a>
(S) Toluene-d8	108			80.0-120		08/19/2020 17:11	<a href="#">WG1528606</a>
(S) 4-Bromofluorobenzene	88.3			77.0-126		08/19/2020 17:11	<a href="#">WG1528606</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		08/19/2020 17:11	<a href="#">WG1528606</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/21/2020 15:55	<a href="#">WG1528640</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/23/2020 13:54	<a href="#">WG1528761</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/23/2020 13:54	<a href="#">WG1528761</a>
(S) o-Terphenyl	76.3			52.0-156		08/23/2020 13:54	<a href="#">WG1528761</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/23/2020 13:54	<a href="#">WG1528763</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/23/2020 13:54	<a href="#">WG1528763</a>
(S) o-Terphenyl	76.3			52.0-156		08/23/2020 13:54	<a href="#">WG1528763</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/19/2020 23:43	<a href="#">WG1528295</a>
Lead,Dissolved	U		2.95	6.00	1	08/20/2020 12:56	<a href="#">WG1528289</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	454		31.6	100	1	08/20/2020 10:49	<a href="#">WG1528664</a>
(S) a,a,a-Trifluorotoluene(FID)	89.3			78.0-120		08/20/2020 10:49	<a href="#">WG1528664</a>

4 Cn

5 Sr

6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	33.5		0.0941	1.00	1	08/19/2020 17:31	<a href="#">WG1528606</a>
cis-1,2-Dichloroethene	87.5		0.126	1.00	1	08/19/2020 17:31	<a href="#">WG1528606</a>
Ethylbenzene	U		0.137	1.00	1	08/19/2020 17:31	<a href="#">WG1528606</a>
Naphthalene	U		1.00	5.00	1	08/19/2020 17:31	<a href="#">WG1528606</a>
Tetrachloroethene	13.5		0.300	1.00	1	08/19/2020 17:31	<a href="#">WG1528606</a>
Toluene	U		0.278	1.00	1	08/19/2020 17:31	<a href="#">WG1528606</a>
Trichloroethene	31.9		0.190	1.00	1	08/19/2020 17:31	<a href="#">WG1528606</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/19/2020 17:31	<a href="#">WG1528606</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/19/2020 17:31	<a href="#">WG1528606</a>
Xylenes, Total	U		0.174	3.00	1	08/19/2020 17:31	<a href="#">WG1528606</a>
(S) Toluene-d8	106			80.0-120		08/19/2020 17:31	<a href="#">WG1528606</a>
(S) 4-Bromofluorobenzene	89.3			77.0-126		08/19/2020 17:31	<a href="#">WG1528606</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		08/19/2020 17:31	<a href="#">WG1528606</a>

7 Gl

8 Al

9 Sc

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/21/2020 12:10	<a href="#">WG1528640</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	94.8	J	66.7	200	1	08/25/2020 15:28	<a href="#">WG1530706</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/25/2020 15:28	<a href="#">WG1530706</a>
(S) o-Terphenyl	88.5			52.0-156		08/25/2020 15:28	<a href="#">WG1530706</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	90.5	J	66.7	200	1	08/25/2020 15:28	<a href="#">WG1530709</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/25/2020 15:28	<a href="#">WG1530709</a>
(S) o-Terphenyl	88.4			52.0-156		08/25/2020 15:28	<a href="#">WG1530709</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/20/2020 00:45	<a href="#">WG1528295</a>
Lead,Dissolved	U		2.95	6.00	1	08/20/2020 14:04	<a href="#">WG1528289</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/20/2020 11:11	<a href="#">WG1528664</a>
(S) a,a,a-Trifluorotoluene(FID)	99.3			78.0-120		08/20/2020 11:11	<a href="#">WG1528664</a>

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/19/2020 17:52	<a href="#">WG1528606</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/19/2020 17:52	<a href="#">WG1528606</a>
Ethylbenzene	U		0.137	1.00	1	08/19/2020 17:52	<a href="#">WG1528606</a>
Naphthalene	U		1.00	5.00	1	08/19/2020 17:52	<a href="#">WG1528606</a>
Tetrachloroethene	U		0.300	1.00	1	08/19/2020 17:52	<a href="#">WG1528606</a>
Toluene	U		0.278	1.00	1	08/19/2020 17:52	<a href="#">WG1528606</a>
Trichloroethene	U		0.190	1.00	1	08/19/2020 17:52	<a href="#">WG1528606</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/19/2020 17:52	<a href="#">WG1528606</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/19/2020 17:52	<a href="#">WG1528606</a>
Xylenes, Total	U		0.174	3.00	1	08/19/2020 17:52	<a href="#">WG1528606</a>
(S) Toluene-d8	104			80.0-120		08/19/2020 17:52	<a href="#">WG1528606</a>
(S) 4-Bromofluorobenzene	86.8			77.0-126		08/19/2020 17:52	<a href="#">WG1528606</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		08/19/2020 17:52	<a href="#">WG1528606</a>

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/21/2020 16:07	<a href="#">WG1528640</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/23/2020 14:46	<a href="#">WG1528761</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/23/2020 14:46	<a href="#">WG1528761</a>
(S) o-Terphenyl	75.8			52.0-156		08/23/2020 14:46	<a href="#">WG1528761</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/23/2020 14:46	<a href="#">WG1528763</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/23/2020 14:46	<a href="#">WG1528763</a>
(S) o-Terphenyl	75.8			52.0-156		08/23/2020 14:46	<a href="#">WG1528763</a>



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Lead	U		2.95	6.00	1	08/20/2020 00:47	<a href="#">WG1528295</a>
Lead,Dissolved	U		2.95	6.00	1	08/20/2020 14:06	<a href="#">WG1528289</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/20/2020 11:34	<a href="#">WG1528664</a>
(S) a,a,a-Trifluorotoluene(FID)	98.8			78.0-120		08/20/2020 11:34	<a href="#">WG1528664</a>

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	08/19/2020 18:12	<a href="#">WG1528606</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/19/2020 18:12	<a href="#">WG1528606</a>
Ethylbenzene	U		0.137	1.00	1	08/19/2020 18:12	<a href="#">WG1528606</a>
Naphthalene	U		1.00	5.00	1	08/19/2020 18:12	<a href="#">WG1528606</a>
Tetrachloroethene	U		0.300	1.00	1	08/19/2020 18:12	<a href="#">WG1528606</a>
Toluene	U		0.278	1.00	1	08/19/2020 18:12	<a href="#">WG1528606</a>
Trichloroethene	U		0.190	1.00	1	08/19/2020 18:12	<a href="#">WG1528606</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/19/2020 18:12	<a href="#">WG1528606</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/19/2020 18:12	<a href="#">WG1528606</a>
Xylenes, Total	U		0.174	3.00	1	08/19/2020 18:12	<a href="#">WG1528606</a>
(S) Toluene-d8	106			80.0-120		08/19/2020 18:12	<a href="#">WG1528606</a>
(S) 4-Bromofluorobenzene	87.4			77.0-126		08/19/2020 18:12	<a href="#">WG1528606</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		08/19/2020 18:12	<a href="#">WG1528606</a>

EDB / DBCP by Method 8011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Ethylene Dibromide	U		0.00536	0.0200	1	08/21/2020 16:19	<a href="#">WG1528640</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/23/2020 15:13	<a href="#">WG1528761</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/23/2020 15:13	<a href="#">WG1528761</a>
(S) o-Terphenyl	75.3			52.0-156		08/23/2020 15:13	<a href="#">WG1528761</a>

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	08/23/2020 15:13	<a href="#">WG1528763</a>
Residual Range Organics (RRO)	U		83.3	250	1	08/23/2020 15:13	<a href="#">WG1528763</a>
(S) o-Terphenyl	75.3			52.0-156		08/23/2020 15:13	<a href="#">WG1528763</a>



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	08/20/2020 22:15	<a href="#">WG1528668</a>
(S) a,a,a-Trifluorotoluene(FID)	112			78.0-120		08/20/2020 22:15	<a href="#">WG1528668</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0941	1.00	1	08/19/2020 12:02	<a href="#">WG1528606</a>
cis-1,2-Dichloroethene	U		0.126	1.00	1	08/19/2020 12:02	<a href="#">WG1528606</a>
Ethylbenzene	U		0.137	1.00	1	08/19/2020 12:02	<a href="#">WG1528606</a>
Naphthalene	U		1.00	5.00	1	08/19/2020 12:02	<a href="#">WG1528606</a>
Tetrachloroethene	U		0.300	1.00	1	08/19/2020 12:02	<a href="#">WG1528606</a>
Toluene	U		0.278	1.00	1	08/19/2020 12:02	<a href="#">WG1528606</a>
Trichloroethene	U		0.190	1.00	1	08/19/2020 12:02	<a href="#">WG1528606</a>
1,2,4-Trimethylbenzene	U		0.322	1.00	1	08/19/2020 12:02	<a href="#">WG1528606</a>
1,3,5-Trimethylbenzene	U		0.104	1.00	1	08/19/2020 12:02	<a href="#">WG1528606</a>
Xylenes, Total	U		0.174	3.00	1	08/19/2020 12:02	<a href="#">WG1528606</a>
(S) Toluene-d8	101			80.0-120		08/19/2020 12:02	<a href="#">WG1528606</a>
(S) 4-Bromofluorobenzene	88.2			77.0-126		08/19/2020 12:02	<a href="#">WG1528606</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		08/19/2020 12:02	<a href="#">WG1528606</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

# APPENDIX F

Technical Guidance Documents and Standard Operating Procedures



# TGI - INVESTIGATION-DERIVED WASTE HANDLING AND STORAGE

Rev #: 0

Rev Date: February 23, 2017

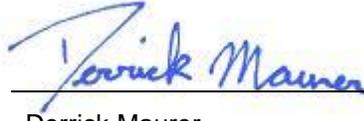


## VERSION CONTROL

Revision No	Revision Date	Page No(s)	Description	Reviewed by
0	February 23, 2017	ALL	Conversion from SOP to TGI	Ryan Mattson / Peter Frederick

## APPROVAL SIGNATURES

Prepared by:



Derrick Maurer

02/23/2017

Date:

Technical Expert Reviewed by:



Ryan Mattson (Technical Expert)

02/23/2017

Date:

## 1 INTRODUCTION

This document describes general and/or specific procedures, methods, actions, steps, and considerations to be used and observed by Arcadis staff when performing work, tasks, or actions under the scope and relevancy of this document. This document may describe expectations, requirements, guidance, recommendations, and/or instructions pertinent to the service, work task, or activity it covers.

It is the responsibility of the Arcadis Certified Project Manager (CPM) to provide this document to the persons conducting services that fall under the scope and purpose of this procedure, instruction, and/or guidance. The Arcadis CPM will also ensure that the persons conducting the work falling under this document are appropriately trained and familiar with its content. The persons conducting the work under this document are required to meet the minimum competency requirements outlined herein, and inquire to the CPM regarding any questions, misunderstanding, or discrepancy related to the work under this document.

This document is not considered to be all inclusive nor does it apply to any and all projects. It is the CPM's responsibility to determine the proper scope and personnel required for each project. There may be project- and/or client- and/or state-specific requirements that may be more or less stringent than what is described herein. The CPM is responsible for informing Arcadis and/or Subcontractor personnel of omissions and/or deviations from this document that may be required for the project. In turn, project staff are required to inform the CPM if or when there is a deviation or omission from work performed as compared to what is described herein.

In following this document to execute the scope of work for a project, it may be necessary for staff to make professional judgment decisions to meet the project's scope of work based upon site conditions, staffing expertise, state-specific requirements, health and safety concerns, etc. Staff are required to consult with the CPM when or if a deviation or omission from this document is required that has not already been previously approved by the CPM. Upon approval by the CPM, the staff can perform the deviation or omission as confirmed by the CPM.

## 2 SCOPE AND APPLICATION

The objective of this Technical Guidance Instruction (TGI) is to describe the procedures to manage investigation-derived wastes (IDW), both hazardous and nonhazardous, generated during site activities, which may include, but are not limited to: drilling, trenching/excavation, construction, demolition, monitoring well sampling, soil sampling, decontamination and remediation. For the purposes of this TGI, IDW is considered to be discarded materials which are defined as solid waste by United States Environmental Protection Agency (EPA) standard 40 CFR § 261.2 (which may include liquids, solids, or sludges). IDW may include soil, groundwater, drilling fluids, decontamination liquids, as well as contaminated personal protective equipment (PPE), sorbent materials, construction and demolition debris, and disposable sampling materials. Hazardous or uncharacterized IDW will be collected and staged at the point of generation. Quantities small enough to be containerized in 55-gallon drums will be taken to a designated temporary onsite storage area (discussed in further detail under Drum Storage) pending characterization and disposal. IDW materials will be characterized using process knowledge and appropriate laboratory analyses to determine the waste classification and evaluate proper safe handling and disposal methods.

This TGI describes the necessary equipment, field procedures, materials, regulatory references, and documentation procedures necessary for proper handling and storage of IDW up to the time it is properly transported from the project site and disposed. The procedures included in this TGI for handling and temporary storage of IDW are based on the EPA's guidance document *Guide to Management of Investigation Derived Wastes* (USEPA, 1992). IDW is assumed to be contaminated with the site constituents of concern (COCs) until analytical evidence indicates otherwise. IDW will be managed to ensure the protection of human health and the environment and will comply with all applicable or relevant and appropriate requirements (ARAR). Although not comprehensive, the following laws and regulations on Hazardous Waste Management should be considered as potential ARAR. It is the Arcadis Certified Project Manager (CPM) and/or designated Technical Expert to determine which laws and regulations, at all levels of government, are applicable to each project site and activity falling under this TGI.

#### Federal Laws and Regulations

- Resource Conservation and Recovery Act (RCRA) 42 USC § 6901-6987.
- Federal Hazardous Waste Regulations 40 CFR § 260-265

Department of Transportation (DOT) Hazardous Materials Transportation 49 CFR

Occupational Safety and Health Administration (OSHA) Regulations 29 CFR

#### State Laws and Regulations

- To be determined based on location of site and location of treatment, storage, and/or disposal facility (TSDF) to be utilized.

Regional, County, Municipal, and Local Regulations

- To be determined based on location of site and location of treatment, storage, and/or disposal facility (TSDF) to be utilized.

#### **Initial Storage**

Pending characterization, IDW will be temporarily stored appropriately within each area of contamination (AOC). Under RCRA, "storage" is defined as the "holding of hazardous waste for a temporary period, at the end of which the hazardous waste is treated, disposed of, or stored elsewhere" (40 CFR § 260.10). The onsite waste staging area will be in a secure and controlled area. Uncharacterized wastes are considered potentially hazardous wastes and must be stored in DOT approved packaging. Liquid wastes must be stored in DOT approved closed head drums or other approved containers (e.g., portable tank containers) that are compatible with the type of material stored therein. Solid materials must be stored in DOT approved open head drums where practicable. Larger quantities of solid IDW can be containerized in bulk containers (such as in a roll-off box). Soil from large excavation projects may be managed in stockpiles with within the AOC and does not need to be containerized until exiting the AOC.

#### **Characterization**

Waste characterization can either be based on generator knowledge, such as using historical process knowledge and safety data sheets (SDS), or can be based upon characterization sampling analytical results. IDW typically is not characterized using SDS as it is a mixture of aged chemicals and environmental media. Historical process knowledge should be used to determine if the IDW is a listed hazardous waste (40 CFR § 261.31-33). If the IDW is not a listed hazardous waste, waste

characterization can be completed by laboratory analysis of representative samples of the IDW. The laboratory used for waste characterization analysis must have the appropriate state and federal accreditations and may be required to be pre-approved by the Client. IDW will be classified as RCRA hazardous or non-regulated under RCRA based on the waste characterization determination.

If IDW is characterized as RCRA hazardous waste, RCRA and DOT requirements must be followed for packaging, labeling, transporting, storing, and record keeping as described in 40 CFR § 262 and 49 CFR § 171-178. Waste material classified as RCRA nonhazardous may be handled and disposed of as nonhazardous waste in accordance with applicable federal, state, and local regulations.

### **Storage Time Limitations**

Containerized hazardous wastes can be temporarily stored for a maximum of 90 calendar days from the accumulation start date for a large quantity generator or a maximum of 180 calendar days from the accumulation start date for a small quantity generator. Wastes classified as nonhazardous may be handled and disposed of as nonhazardous waste and are not subject to storage time limitations.

This is TGI may be modified by the CPM and/or Technical Expert for a specific project or client program, as required, dependent upon client requirements, site conditions, equipment limitations, or limitations imposed by the procedure. The resulting procedure employed to execute the work will be documented in the project work plans or reports. If changes to the sampling procedures are required due to unanticipated field conditions, the changes will be discussed with the CPM and/or Technical Expert as soon as practicable, and if approved to be performed, be documented.

## **3 PERSONNEL QUALIFICATIONS**

Arcadis field sampling personnel will have current regulatory- and Arcadis-required health and safety training including 40-hour HAZWOPER training, site supervisor training, site-specific training, first aid, and cardiopulmonary resuscitation (CPR), as needed. Personnel handling and packaging hazardous waste and performing hazardous waste characterizations must have RCRA hazardous waste management training per 40 CFR § 264.16.

Although not common practice, in certain situations Arcadis personnel may sign waste profiles and/or waste manifests on a case by case basis for clients, provided the appropriate agreement is in place between Arcadis and the client documenting that Arcadis is not the generator, but is acting as an authorized representative of the generator. Arcadis personnel who sign waste profiles and/or waste manifests will have both current RCRA hazardous waste management training per 40 CFR § 264.16 and current DOT hazardous materials transportation training per 49 CFR § 172.704. Arcadis field personnel will also comply with client-specific training. In addition, Arcadis field sampling personnel will be knowledgeable in the relevant processes, procedures, and Technical Guidance Instructions (TGIs) and possess the demonstrated required skills and experience necessary to successfully complete the desired field work. The project health and safety plan (HASP) and other documents will identify other training requirements or access control requirements.

## 4 EQUIPMENT LIST

The Following Materials, as required, will be available for IDW handling and Storage:

- Appropriate personal protective equipment as specified in the Site Health and Safety Plan (HASP)
- DOT approved containers
- Hammer
- Leather gloves
- Drum dolly
- Appropriate drum labels (outdoor waterproof self-adhesive)
- Portable tank container
- Appropriate labeling, packing, chain-of-custody forms, and shipping materials as determined by the CPM and/or Technical Expert.
- Indelible ink and/or permanent marking pens
- Plastic sheeting
- Appropriate sample containers, labels, and forms
- Stainless-steel bucket auger
- Stainless steel spatula or knife
- Stainless steel hand spade
- Stainless steel scoop
- Digital camera
- Field logbook

## 5 CAUTIONS

Filled drums can be very heavy, become unbalanced, or spill its contents. Therefore, use appropriate moving techniques and equipment for safe handling. Similar media (e.g. soils with other soils; or liquids with other liquids) will be stored in the same drums to aid in sample analysis and disposal. Drum lids must be secured to prevent rainwater from entering the drums and leakage during movement. Drums containing solid material may not contain any free liquids. Waste containers stored for extended periods of time may be subject to deterioration. Drum Over Packs may be used as secondary containment. All drums must be visually inspected for condition to ensure that they are in good condition without visible evidence of rusting, holes, breakage, etc., to prevent potential leakage and facilitate subsequent disposal. All drum lids must be verified as having a properly functioning secured lid prior to use.

## 6 HEALTH AND SAFETY CONSIDERATIONS

Click here and enter text] As determined by the site's known and suspected hazards, appropriate PPE must be worn by all field personnel within the designated work area. Exposure air monitoring may be required during certain field activities as required in the Site Health and Safety Plan. If soil excavation in areas with potentially hazardous contaminants is possible, contingency plans will be developed to address the potential for encountering gross contamination or non-aqueous phase liquids. All excavation

activities shall be in compliance with OSHA standard 29 CFR 1926.651 Excavations, and any other applicable regulations.

Arcadis field personnel and subcontractors will be trained in and perform their work in compliance with all applicable federal, state, and local health and safety regulations as well as Arcadis' HASP and applicable Client health and safety requirements.

## 7 PROCEDURE

Specific waste temporary storage and handling procedures to be used are dependent upon the type of generated waste, including type of media (e.g. soils or free liquids) and constituents of concern. For this reason, IDW can be stored in a secure location onsite in separate 55-gallon storage drums, where solids can be stockpiled onsite (if nonhazardous) and purge water may be stored in portable tank containers. Waste materials such as broken sample bottles or equipment containers and wrappings will be stored in 55-gallon drums unless they were not in contact with sample media.

### Management of IDW

Minimization of IDW should be considered by the project team during all phases of the project. Site managers may want to consider techniques such as replacing solvent based cleaners with aqueous-based cleaners for decontamination of equipment, reuse of equipment (where it can be properly decontaminated), limitation of traffic between exclusion and support zones, and drilling methods and sampling techniques that minimize the generation of waste. Alternative drilling and subsurface sampling methods may include the use of small diameter boreholes, as well as borehole testing methods such as a core penetrometer or direct push technique instead of coring.

### Drum Storage

Drums containing hazardous waste will be stored in accordance with the requirements of 40 CFR 265 Subpart I (for containers) and 265 Subpart DD (for containment buildings). All 55-gallon drums will be stored at a secure, centralized onsite location that is readily accessible for vehicular pick-up. Drums confirmed as, or assumed to contain hazardous waste will be stored over an impervious surface provided with secondary spill containment. The storage location will, for drums containing liquid, have a containment system that can contain at least the larger of 10% of the aggregate volume of staged materials or 100% of the volume of the largest container. Drums will be closed during storage and be in good condition in accordance with the Guide to Management of Investigation-Derived Wastes (USEPA, 1992).

### Hazardous Waste Determination

Waste material must be characterized to determine if it meets any of the federal definitions of hazardous waste as required by 40 CFR § 262.11. If the waste does not meet any of the federal definitions, it must then be established if any state-specific or local-specific hazardous waste criteria exist/apply.

### Generator Status

Once hazardous waste determination has been made, the generator status will be determined. Large quantity generators (LQG) are generators who generate more than 1,000 kilograms of hazardous waste in a calendar month. Small quantity generators (SQG) of hazardous waste are generators who generate

greater than 100 kilograms but less than 1,000 kilograms of hazardous waste in a calendar month. Conditionally exempt small quantity generators (CESQG) are generators who generate less than 100 kilograms of hazardous waste per month. Please note that a generator status may change from month to month and that a notice of this change is usually required by the generator's state agency.

### **Accumulation Time for Hazardous Waste**

A LQG may accumulate hazardous waste on site for 90 calendar days or less without a permit and without having interim status, provided that such accumulation is in compliance with requirements in 40 CFR § 262.34. A SQG may accumulate hazardous waste on site for 180 calendar days or less without a permit or without having interim status, subject to the requirements of 40 CFR § 262.34(d). CESQG requirements are found in 40 CFR § 261.5. NOTE: The CESQG and SQG provisions of 40 CFR § 261.5, 262.20(e), 262.42(b) and 262.44 may not be recognized by some states (e.g., California and Rhode Island). State-specific and local-specific regulations must be reviewed and understood prior to the generation of hazardous waste.

Satellite Accumulation of Hazardous Waste Satellite accumulation (SAA) will mean the accumulation of as much as fifty-five (55) gallons of hazardous waste, or the accumulation of as much as one quart of acutely hazardous waste, in containers at or near any point of generation where the waste initially accumulates, which is under the control of the operator of the process generating the waste, without a permit or interim status and without complying with the requirements of 40 CFR § 262.34(a) and without any storage time limit, provided that the generator complies with 40 CFR § 262.34(c)(1)(i).

Once more than 55 gallons of hazardous waste accumulates in SAA, the generator has three days to move this waste into storage.

Storage recommendations for hazardous waste include:

- Ignitable Hazardous wastes must be >50 feet from the property line per 40 CFR § 265.176 (LQG generators only).
- Hazardous waste must be stored on a concrete slab (asphalt is acceptable if there are no free liquids in the waste) per 40 CFR § 265.176.
- Drainage must be directed away from the accumulation area.
- Area must be properly vented.
- Area must be secure.

### **Drum/Container Labeling**

Drums will be labeled on both the side and lid of the drum using a permanent marking pen. Old drum labels must be removed to the extent possible, descriptions crossed out should any information remain, and new labels affixed on top of the old labels. Other containers used to store various types of waste (e.g., polyethylene tanks, roll-off boxes, end-dump trailers, etc.) will be labeled with an appropriate "Waste Container" or "Testing in Progress" label pending characterization. Drums and containers will be labeled as follows:

- Appropriate waste characterization label (Pending Analysis, Hazardous, or Nonhazardous)
- Waste generator's name (e.g., client name)
- Project Name
- Name and telephone number of Arcadis project manager

- Composition of contents (e.g., used oil, acetone 40%, toluene 60%)
- Media (e.g., solid, liquid)
- Accumulation start date
- Drum number of total drums as reconciled with the Drum Inventory maintained in the field log book.

IDW containers will remain closed except when adding or removing waste. Immediately upon beginning to place waste into the drum/container, a "Waste Container" or "Pending Analysis" label will be filled out to include the information specified above, and affixed to the container. Once the contents of the container are identified as either non-hazardous or hazardous, the following additional labels will be applied.

- Containers with waste determined to be non-hazardous will be labeled with a green and white "Nonhazardous Waste" label over the "Waste Container" label.
- Containers with waste determined to be hazardous will be stored in an onsite storage area and will be labeled with the "Hazardous Waste" label and affixed over the "Waste Container" label.

The ACCUMULATION DATE for the hazardous waste is the date the waste is first placed in the container and is the same date as the date on the "Waste Container" label. DOT hazardous class labels must be applied to all hazardous waste containers for shipment offsite to an approved disposal or recycling facility. In addition, a DOT proper shipping name will be included on the hazardous waste label. The transporter should be equipped with the appropriate DOT placards. However, placarding or offering placards to the initial transporter is the responsibility of the generator per 40 CFR § 262.33.

### **Inspections and Documentation**

All IDW will be documented as generated on a Drum Inventory Log maintained in the field log book. The Drum Inventory will record the generation date, type, quantity, matrix and origin (e.g., Boring-1, Test Pit 3, etc.) of materials in every drum, as well as a unique identification number for each drum. The drum inventory will be used during drum pickup to assist with labeling of drums. The drum storage area and any other areas of temporarily staged waste, such as soil/debris piles, will be inspected weekly. The weekly inspections will be recorded in the field notebook or on a Weekly Inspection Log. Digital photographs will be taken upon the initial generation and drumming/staging of waste, and final labeling after characterization to document compliance with labeling and storage protocols, and condition of the container. Evidence of damage, tampering or other discrepancy should be documented photographically.

### **Emergency Response and Notifications**

Specific procedures for responding to site emergencies will be detailed in the HASP. If the generator is designated as a LQG, a Contingency Plan will need to be prepared to include emergency response and notification procedures per 40 CFR § 265 Subpart D. In the event of a fire, explosion, or other release which could threaten human health outside of the site or when Client or ARCADIS has knowledge of a spill that has reached surface water, Client or ARCADIS must immediately notify the National Response Center (800-424-8802) in accordance with 40 CFR § 262.34. Other notifications to state and/or other local regulatory agencies may also be necessary.

### **Drilling Soil Cuttings and Muds**

Soil cuttings are solid to semi-solid soils generated during trenching activities, subsurface soil sampling, or installation of monitoring wells. Depending on the drilling method, drilling fluids known as "muds" may

be used to remove soil cuttings. Drilling fluids flushed from the borehole must be directed into a settling section of a mud pit. This allows reuse of the decanted fluids after removal of the settled sediments. Soil cuttings will be labeled and stored in 55-gallon drums with bolt-sealed lids.

### **Excavated Solids**

Excavated solids may include, but are not limited to: soil, fill, and construction and demolition debris. Prior to permitted treatment or offsite disposal, potentially hazardous excavated solids may be temporarily stockpiled onsite as long as the stockpile remains in the same AOC from where it was excavated. Potentially hazardous excavated solids removed from the AOC must be immediately containerized in labeled drums or closable top roll-offs lined with 9-mil polyvinyl chloride (PVC) sheeting and are subject to LQG storage time limits. Nonhazardous excavated solids can be stockpiled either inside or outside of the AOC, do not have to be containerized and are not subject to hazardous waste regulations. Potentially hazardous excavated solids must not be mixed with nonhazardous excavated solids. All classes of excavated solid stockpiles should be maintained in a secure area onsite. At a minimum, the floor of the stockpile area will be covered with a 20-mil high density polyethylene liner that is supported by a foundation or at least a 60-mil high density polyethylene liner that is not supported by a foundation. The excavated material will not contain free liquids. The owner/operator will provide controls for windblown dispersion, run-on control, and precipitation runoff. The run-on control system will prevent flow onto the active portion of the pile during peak discharge from at least a 25-year storm and the run-off management system will collect and control at least the water volume resulting from a 24-hour, 25-year storm (USEPA, 1992). Additionally, the stockpile area will be inspected on a weekly basis and after storm events. Individual states may require that the stockpile be inspected/certified by a licensed professional engineer. Stockpiled material will be covered with a 6-mil polyvinyl chloride (PVC) liner or sprayed dust control product. The stockpile cover will be secured in place with appropriate material (concrete blocks, weights, etc.) to prevent the movement of the cover.

### **Decontamination Solutions**

Decontamination solutions are generated during the decontamination of personal protective equipment and sampling equipment. Decontamination solutions may range from detergents, organic solvents and acids used to decontaminate small field sampling equipment to steam cleaning rinsate used to wash heavy field equipment. These solutions are to be labeled and stored in closed head drums compatible with the decontamination solution. Decontamination procedures, including personnel and field sampling equipment, must comply with applicable Arcadis procedural documents.

### **Disposable Equipment**

Disposable equipment includes personal protective equipment (e.g., tyvek coveralls, gloves, booties and APR cartridges) and disposable sampling equipment such as trowels or disposable bailers. If the media sampled exhibits hazardous characteristics per results of waste characterization sampling, contaminated disposable equipment will also be disposed of as a hazardous waste. If compatible with the original IDW waste stream (i.e., the IDW is a solid and the disposal equipment is a solid), the disposable equipment can be combined with the IDW. If these materials are not compatible (i.e., the IDW is a liquid and the disposal equipment is a solid), the disposable equipment will be stored onsite in separate labeled 55-gallon drums. Uncontaminated or decontaminated disposable equipment can be considered nonhazardous waste.

### **Purge Water**

Purge water includes groundwater generated during well development, groundwater sampling, or aquifer testing. The volume of groundwater generated will dictate the appropriate storage procedure. Monitoring well development and groundwater sampling may generate three well volumes of groundwater or more. This volume will be stored in labeled 55-gallon drums. Aquifer tests may generate significantly greater volumes of groundwater depending on the well yield and the duration of the test. Therefore, large-volume portable polyethylene tanks will be considered for temporary storage pending groundwater-waste characterization.

### **Purged Water Storage Tank Decontamination and Removal**

The following procedures will be used for inspection, cleaning, and offsite removal of storage tanks used for temporary storage of purge water. These procedures are intended to be used for rented portable tanks such as Baker Tanks or Rain for Rent containers. Storage tanks will be made of inert plastic materials. The major steps for preparing a rented tank for return to a vendor include characterizing the purge water, disposing of the purge water, decontaminating the tank, final tank inspection, and mobilization. Decontamination and inspection procedures are described in further detail below.

- **Tank Cleaning:** Most vendors require that tanks be free of any visible sediment and water before returning, a professional cleaning service may be required. Each specific vendor should be consulted concerning specific requirements for returning tanks.
- **Tank Inspection:** After emptying the tank, purged water storage tanks should be inspected for debris, chemical staining, and physical damage. The vendors require that tanks be returned in the original condition (i.e., free of sediment, staining and no physical damage).

## **8 WASTE MANAGEMENT**

### **Soil/Solids Characterization**

Waste characterization will be conducted in accordance with waste hauler, waste handling facility, and local/state/federal requirements. In general, RCRA hazardous wastes are those solid wastes determined by a Toxicity Characteristic Leaching Procedure (TCLP) test or to contain levels of certain toxic metals, pesticides, or other organic chemicals above specific applicable regulatory agency thresholds. If the one or more of 40 toxic compounds listed in Table I of 40 CFR § 261.24 are detected in the sample at levels above the maximum unregulated concentrations, the waste must be characterized as a toxic hazardous waste. Wastes can also be considered “listed” hazardous waste depending on site-specific processes.

Composite soil samples will be collected at a frequency of one sample per 10 cubic yard basis for stockpiled soil or one per 55-gallon drum for containerized. A four-point composite sample will be collected per 10 cubic yards of stockpiled material and for each drum. Sample and composite frequencies may be adjusted in accordance with the waste handling facility’s requirements. Waste characterization samples may be analyzed for the TCLP volatile organic compounds (VOCs), TCLP semi-volatile organic compounds (SVOCs), TCLP RCRA metals, and polychlorinated biphenyls (PCBs), as well as reactivity and flammability (flashpoint). Additional samples may be collected and analyzed by the laboratory on a contingency basis. Site-specific constituents of concern including pesticides may require additional

sampling. Please note that state- or local-specific regulations may require a different or additional sampling approaches.

### **Wastewater Characterization**

Waste characterization will be conducted in accordance with the requirements of the waste hauler, waste handling facility, and local/state/federal governments. In general, purge water should be analyzed by methods appropriate for the known contaminants, if any, that have been historically detected in the monitoring wells. Samples will be collected and analyzed in accordance with the requirements of the waste disposal facility. Wastewater characterization samples may be analyzed for TCLP volatile organic compounds (VOCs), TCLP semi-volatile organic compounds (SVOCs), TCLP RCRA metals, and polychlorinated biphenyls, as well as corrosivity (pH), reactivity and flammability (flashpoint). Additional samples may be collected and analyzed by the laboratory on a contingency basis. Site-specific constituents of concern including pesticides may require additional sampling. Please note that state- and/or local-specific regulations may require different or additional sampling approaches.

### **Sample Handling and Shipping**

All samples will be appropriately labeled, packed, and shipped, and the chain-of-custody will be filled out in accordance with current Arcadis sample chain of custody, handling, packing, and shipping procedures and guidance instructions.

It should be noted that additional training is required for packaging and shipping of hazardous and/or dangerous materials. Please refer to the current Arcadis training requirements related to handling and shipping of samples, shipping determinations, and hazardous materials.

### **Preparing Waste Shipment Documentation (Hazardous and Nonhazardous)**

Waste profiles will be prepared by the Arcadis CPM and forwarded, along with laboratory analytical data to the Client for approval/signature. The Client will then return the profile to Arcadis who will then forward to the waste removal contractor for preparation of a manifest. The manifest will be reviewed by Arcadis prior to forwarding to the Client for approval. Upon approval of the manifest, the Client will return the original signed manifest directly to the waste contractor or to the Arcadis CPM for forwarding to the waste contractor. Arcadis personnel may sign waste profiles and/or waste manifests on a case by case basis for clients, provided the appropriate agreement is in place between Arcadis and the client documenting that Arcadis is not the generator, but is acting as an authorized representative of the generator.

Final drum labeling and pickup will be supervised by an Arcadis representative who is trained and experienced with applicable waste labeling procedures. The Arcadis representative will have a copy of the drum inventory maintained in the field book and will reconcile the drum inventory with the profile numbers on the labels and on the manifest. Different profile numbers will be generated for different matrices or materials in the drums. For example, the profile number for drill cuttings will be different than the profile number for purge water. When there are multiple profiles it is critical that the proper label, with the profile number appropriate to a specific material be affixed to the proper drums. A copy of the Arcadis drum inventory will be provided to the waste transporter during drum pickup and to the facility receiving the waste.

## **9 DATA RECORDING AND MANAGEMENT**

Waste characterization sample handling, packing, and shipping procedures will be documented in accordance with relevant Arcadis procedures and guidance instructions as well as applicable client and/or project requirements, such as a Quality Assurance Project Plan or Sampling and Analysis Plan. Copies of the chain-of-custody forms will be maintained in the project file. Arcadis should photograph or maintain a copy of any hazardous waste manifest signed on behalf of Client in the corresponding office DOT record file.

## **10 QUALITY ASSURANCE**

The CPM or APM will review all field documentation once per week for errors or omissions as compared to applicable project requirements including but not limited to: the proposal/scope of work, QAPP, SAP, HASP, etc. Deficiencies will be noted, tracked, and resolved. Upon correction, they will be noted for project documentation.

## **11 REFERENCES**

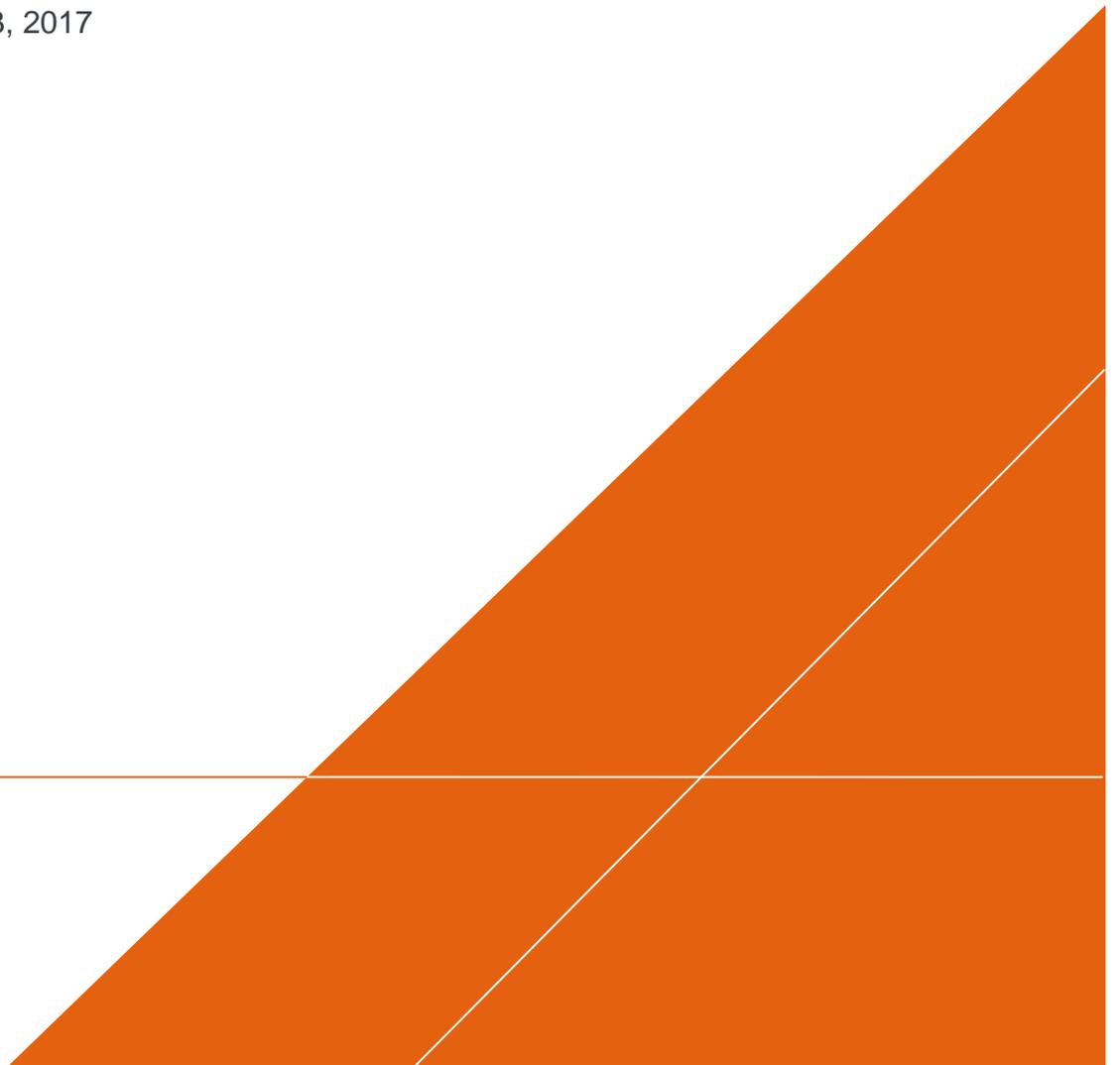
United States Environmental Protection Agency (USEPA). 1992. Guide to Management of Investigation-Derived Wastes. Office of Remedial and Emergency Response. Hazardous Site Control Division. January 1992.



# SOP - SAMPLE CHAIN OF CUSTODY

Rev: #1

Rev Date: May 23, 2017



## VERSION CONTROL

Revision No	Revision Date	Page No(s)	Description	Reviewed by
0	April 19, 2017	All	Re-write to COC only	Richard Murphy
1	May 23, 2017	4	Add: Guidance on use of previous version of SOP.	Peter Frederick
		9	Add: Info on COCs for multiple shipping containers	
		7	Modify: Move letter i. to letter m. and change to “when appropriate”	

## APPROVAL SIGNATURES

Prepared by:   
Peter C. Frederick

05/23/2017  
Date:

Technical Expert Reviewed by:   
Richard J. Murphy

05/23/2017  
Date:

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## 2 SCOPE AND APPLICATION

This Standard Operating Procedure (SOP) describes the general Chain of Custody (COC) procedures and guidance instructions for samples collected from project sites that are relinquished from Arcadis' possession.

COC is defined as the maintenance of an unbroken record of possession of an item from the time of its collection through some analytical or testing procedure. COC is typically documented by a written record of the collection, possession, and handling of samples collected from a project location. Each sample will be tracked by a documented record that efficiently documents the individuals who were responsible for the sample during each successive transfer of that sample to various recipients beyond Arcadis' possession. This information can be used to legally establish the integrity of the samples and therefore the analytical results derived from the samples. This information can be used in addition to other records and documentation regarding the samples, such as field forms, field logs, and photographs.

A sample is considered under custody if:

- It is in your possession; or
- It is in your view, after being in your possession; or
- It was in your possession and then you then locked it up to prevent tampering; or
- It is in a designated secure area.

**Continued use of previous version of SOP:**

Although not recommended, Arcadis program-, project-, and client-teams may be able to use the previous version of this SOP provided that it meets all of the quality expectations of Arcadis and client, and meets applicable regulatory requirements. It is up to the program, project, and/or client-team leader to determine whether it is appropriate to adopt the current SOP or to continue using the previous version.

However, all new work not associated with the previous version of this SOP must be performed with the current version of the SOP.

When adopting this new SOP, users of the previous versions must be aware that specific handling, packing, and shipping procedures and guidance has been removed and that those should be addressed within program or project plans (e.g. QAPPs, Work Plans, SAPs, etc.) or in a more detailed SOP or TGI specific to that sampling activity, whether related to media, constituent/analyte, client, state, etc.

In addition, adopting this new SOP will require users to refer to the Arcadis DOT Safety Program for procedures and guidance on the determination and handling, packing, and shipping of samples that are or may be considered hazardous materials.

### 3 PERSONNEL QUALIFICATIONS

Arcadis personnel performing work under the purview of this SOP will have received appropriate training and have field experience regarding the collection of samples from project locations. Arcadis personnel will have all other applicable and appropriate training relevant to the sampling work and project site.

### 4 EQUIPMENT LIST

The following list provides materials that may be required for each COC. Project reporting and documentation requirements must be reviewed with the CPM prior to execution of work. Additional materials, tools, equipment, etc. may be required, and project staff are required to verify with the CPM and/or Technical Expert what specific equipment is required to complete the COC.

- Indelible ink pen (preferably either black or blue ink);
- COC form <https://thesourceus.arcadissource.com/TKI/Documents/COC%20Form.pdf> (**Appendix A**) from either Arcadis, laboratory receiving and analyzing the samples, or other applicable and appropriate entity for the work performed;
- When appropriate, such as for litigation or expert testimony work, custody seals or tape.

## 5 CAUTIONS

One way in which the law tries to ensure the integrity of evidence is by requiring proof of the chain of custody by the party who is seeking to introduce a particular piece of evidence.

A proper chain of custody requires three types of affirmations: (1) affirmation that a sample is what it purports to be (for example, soil collected from a specified location and depth); (2) affirmation of continuous possession by each individual who has had possession of the sample from the time it is collected until the time it is analyzed or held by a laboratory; and (3) affirmation by each person who has had possession that sample remained in substantially the same condition and not contaminated or affected by outside influences from the moment one person took possession until the moment that person released the evidence into the custody of another (for example, affirmation that the sample was stored in a secure location where no one but the person in custody had access to it).

Proving chain of custody is necessary to "lay a foundation" for the samples in question, by showing the absence of alteration, substitution, or change of condition.

Ensure that appropriate sample containers with applicable preservatives, coolers, and packing material are planned for and provided at the site at the time of sample collection.

Understand the offsite transfer requirements of the samples for the facility at which samples are collected.

If overnight courier service is required schedule pick-up or know where the drop-off service center is located and the hours of operation.

An Arcadis employee appropriately trained at the correct level of internal hazardous materials/DOT (Department of Transportation) shipping must complete an Arcadis shipping determination to address applicable DOT and IATA (International Air Transport Association) shipping requirements. Review the applicable Arcadis procedures and guidance instructions for sample packaging, and labeling. Prior to using air transportation, confirm air shipment is acceptable under DOT and IATA regulations.

The person relinquishing possession of the samples or other member of the project team should contact the final recipient of the samples to confirm receipt and review any special provisions on the COC or questions that they may have.

## 6 HEALTH AND SAFETY CONSIDERATIONS

Follow the health and safety procedures outlined in the project/site Health and Safety Plan (HASP) as well as other applicable H&S requirements, such as:

- Arcadis Hazardous Material/DOT handling, packaging, and shipping training
- Project site-specific H&S training
- Client-specific H&S training
- Constituent-specific H&S training
- Media-specific H&S training

## 7 PROCEDURE

Collected samples must be uniquely identified, and properly documented, containerized, labeled with unique identifier, possessed in a secure manner during remainder of sampling event, packaged, and shipped to recipient laboratory.

### **Sample Identification**

The method of sample identification depends on the type of measurement or analyses performed. In some cases, in-situ measurements of existing conditions and/or sample location must be made during sample collection. These data will be recorded directly on field forms, logbooks, or other project record data sheets used to permanently retain this information for the project file. Examples of location identification information includes: latitude/longitudinal measurements, compass directions, well number, building number, floor number, room name, or proximity to a site feature unique to the site. Examples of in-situ measurements are pH, temperature, conductivity, flow measurement, or physical condition of the media being sampled. Physical samples collected are identified by a unique identifying number or code on a sample tag or label. These physical samples are removed from the sample location and transported to a laboratory for analyses.

In some cases, before samples are placed into individual containers and labeled as individual samples, samples may be separated into portions depending upon the analytical methods and required duplicate or triplicate analyses to be performed.

When completing a COC for samples, personnel must complete the following:

1. Written COCs must be completed with indelible ink (preferably either black or blue colored ink).
2. Written COCs must be completed using legible printed writing, and not cursive writing.
3. All entry fields on the COC form must be completed. If information is not applicable for a specific entry field, personnel will either put "N/A" or use a strike-out line or dash like "-----" to indicate no applicable information is needed for that field.
4. Use of quotation marks or lines/down arrows to represent repetitive/duplicative text in similar fields.
5. Regardless of the type or specific COC form, the following pertinent information must be provided on the COC form:
  - a. Arcadis project number
  - b. Arcadis project name
  - c. Project location, including street address, city, state, building number, providing as much detail as appropriate
  - d. Recipient laboratory contact and sample receiving shipping location information
  - e. Entities'/persons' contact information for who will be receiving analytical results
  - f. Name of sampler, i.e. person collecting sample and relinquishing possession of samples to the next entity in the chain of custody
  - g. Date of sample collection

- h. If appropriate for the sample media, contaminant/constituent of concern, or analytical method, document time of sample collection using standard military time
  - i. Sample analytical method(s)
  - j. Turnaround time required for analyses and/or reporting
  - k. Instructions to laboratory regarding handling, timing, analyses, etc. as applicable and appropriate
  - l. Printed name and signature of the individual person who collected the samples and relinquishing possession of the samples
  - m. If appropriate or when documentation of the specific sample collection method will influence how the laboratory handles, prepares, or analyzes the samples, document the sample collection methodology used for collecting the samples (e.g. ASTM D5755)
6. The following additional specific information will be entered on the COC form, regardless of what type of COC is being used:
- a. Unique Sample Identifier – The sample identifier (ID) must be unique to the individual sample it is applied to. The information in which the sample ID conveys is determined by the CPM, Technical Expert, and/or other project team members in advance of sample collection so that sample identification is consistently applied for the project. The sample nomenclature may be dictated by a specific client, program, or project database and require unique identification for each sample collected for the project. Consult with the CPM and/or Technical Expert for additional information regarding sample identification.

The sample ID could convey specific information regarding the sample to aid personnel in recognizing what the sample represents, or they may be arbitrary so as to facilitate the anonymity of the sample location, media, constituent of concern, project site, etc.

Examples of unique identifiers include:

- 1. Well locations, grid points, or soil boring identification numbers (e.g., MW-3, X-20, SB-30). When the depth interval is included, the complete sample ID would be “SB-30 (0.5-1.0) where the depth interval is in feet. Please note it is very important that the use of hyphens in sample names and depth units (i.e., feet or inches) remain consistent for all samples entered on the chain of custody form. DO NOT use the apostrophe or quotes in the sample ID.
  - 2. Sample names may also use the abbreviations “FB,” “TB,” and “DUP” as prefixes or suffixes to indicate that the sample is a field blank, trip blank, or field duplicate, respectively.
- b. List the date of sample collection. All indicated dates must be formatted using either mm/dd/yy (e.g., 03/07/09) or mm/dd/yyyy (e.g. 03/07/2009).
  - c. When appropriate for the analytical procedure used, list the local time that the sample was collected. The time value should be presented using military format. For example, 3:15 P.M. should be entered as 15:15.

- d. Samples should be indicated to be either “Grab” or “Composite”. Grab samples are collected from only one unique location at one specific point in time.
- e. Composite samples are a group of individual samples that are combined for analysis in their totality. Composite samples need to be documented if they are either collected from a number of different locations over a broader area to be representative of the entire area being sampled, or if they are representative of a single location over an extended period of time.
- f. If used, preservatives for the individual sample will be noted.
- g. The requested analytical method(s) that the samples are being analyzed for must be indicated. As much detail, as necessary, should be presented to allow the analytical laboratory to properly analyze the samples. For example, polychlorinated biphenyl (PCB) analyses may be represented by entering “EPA Method 8082 – PCBs” or “EPA PLM 600-R93-116.” In cases where multiple analytical methods and/or analytical parameters are required for an individual sample, each method should be indicated for the sample (e.g., EPA 8082/8260/8270 or EPA PLM/400-point count).
- h. If there are project-specific sample analytes to be reported, they should be specifically listed for each individual sample (e.g., 40 CFR 264 Appendix IX).
- i. The total number of containers for each analytical method requested should be documented. This information may be included under the parameter or as a total for the sample.
- j. When necessary, note which samples should be used for site specific matrix spikes.
- k. Indicate special project-specific requirements pertinent to the handling, shipping, or analyses. These requirements may be on a per sample basis such as “extract and hold sample until notified,” or may be used to inform the laboratory of special reporting requirements for the entire sample delivery group (SDG).
- l. Indicate turnaround time (TAT) required for samples on COC. If individual samples have differing TATs, the different TATs for each sample or groups of samples must be clearly indicated.
- m. Provide contact name and phone number in the event that problems are encountered when samples are received at the laboratory. The person relinquishing possession of the samples or other member of the project team should contact the final recipient of the samples to confirm receipt and review any special provisions on the COC or questions that they may have.
- n. If available, attach the Laboratory Task Order or Work Authorization forms.
- o. The “Relinquished By” field must contain the signature of the Arcadis person who relinquished custody of the samples to the next entity in the chain of custody, which may be another person, the shipping courier, or the analytical laboratory.
- p. Dates and times must be indicated using the following format:
  - 1) Date: either mm/dd/yy e.g., 01/01/17 OR mm/dd/yyyy e.g., 01/01/2017
  - 2) Time: use military format, e.g. 9:30 a.m. is 0930 and 9:30 p.m. is 2130

- q. The “Received By” section is signed by sample courier or laboratory representative who received the samples from the sampler or it is signed upon laboratory receipt from the overnight courier service.
4. When more than one page of the COC form is required to complete the total number of samples, use as many sheets as necessary to accurately and clearly document the samples and information. Some COCs may have a standard first page/cover page, and subsequent pages may not contain all the detailed fields as the first page/cover page. Ensure that any subsequent pages convey all of the necessary and pertinent information for each individual sample as required in this procedure document.
5. Pages of the COC must retain a page count of the total number of pages; e.g., Page 1 of 3, Page 2 of 3, Page 3 of 3.
6. Upon completing the COC forms, forward the original signed COC with the sample package. Ensure that the original COC form is secured with the sample package so that it remains with the physical samples for the duration of transport and handling to its final destination and ensure that the COC form will not be become damaged or rendered unreadable due to sample breakage/leakage if stored inside the sample shipping container or outside influences if COC is stored in an outside plastic pouch to the container.
7. If you’ve collected enough samples that would require more than one container to ship them all to the same laboratory or location, then each separate/individual container that contains any number of samples must have a separate COC representing only those samples contained within that specific container. For example, if you have 3 total shipping containers for all of your samples, you must have a total of 3 separate, individual COCs for each of the 3 containers representing only those samples in their representative container. Thus, every container holding samples must have its own, individual COC.
8. If electronic chain of custody (eCOC) forms are utilized, ensure that the requirements of this procedure and guidance instructions are followed to the extent possible. Verify that proper signature and COC procedures are maintained with the CPM and/or Technical Expert when using eCOC.

## 8 WASTE MANAGEMENT

Not Applicable.

## 9 DATA RECORDING AND MANAGEMENT

The original signed COC shall be submitted with the samples. Copies of COC records will be transmitted to the CPM or designee at the end of each day unless otherwise directed by the CPM. The sampling team leader retains copies of the chain of custody forms for filing in the project file. Record retention shall be in accordance with client- and project-specific requirements and Arcadis policies, the most stringent will apply.

## 10 QUALITY ASSURANCE

COC forms will be legibly completed in accordance with this procedure and guidance instruction document, as well as other applicable and appropriate project documents such as Sampling and Analysis Plan (SAP), Quality Assurance Project Plan (QAPP), Work Plan, or other project guidance documents.

COC records will be reviewed by the CPM or their appropriate designee for completeness and accuracy to the applicable requirements. Non-conformances will be noted and corrected in a timely manner on the copies retained by Arcadis as well as contacting the ultimate receiving entity for correction to the originally signed COC in their possession.

## 11 REFERENCES

Arcadis Client Document Retention Guide

Arcadis Transportation Safety Program requirements, procedures, and guidance instructions

EPA Samplers' Guide – Contract Laboratory Program Guidance for Field Samplers, EPA document EPA-540-R014-013 October 2014

EPA Region III – Sample Submission Procedures for the Office of Analytical Services and Quality Assurance (OASQA) Laboratory Branch revision 13.0 January 29, 2014

EPA Region I Office Environmental Measurement and Evaluation – Standard Operating Procedures for Chain of Custody of Samples revision 1 March 25, 2002

EPA Region IV Science and Ecosystem Support Division Operating Procedure for Sample and Evidence Management January 29, 2013

**APPENDIX A**  
**Chain of Custody Form**  
[\[click image below to access form\]](#)

		ID#:	<b>CHAIN OF CUSTODY &amp; LABORATORY ANALYSIS REQUEST FORM</b>				Page ___ of ___	Lab Work Order #																																																																		
		Send Results to: Contact & Company Name: _____ Telephone: _____ Address: _____ Fac: _____ City: _____ State: _____ Zip: _____ E-mail Address: _____		Preservation: Filtered (-) _____ # of Containers: _____ Container Information: _____	PARAMETER ANALYSIS & METHOD			<b>Keys</b> Preservation Key: A. H <sub>2</sub> O B. HCL C. HNO <sub>3</sub> D. NaOH E. None F. Other: _____ G. Other: _____ H. Other: _____ Matrix Key: SO - Soil W - Water T - Tissue SE - Sediment SL - Sludge A - Air NL - NAPL/OIL SW - Sample Wipe Other: _____																																																																		
Project Name/Location (City, State): _____ Project #: _____ Sampler's Printed Name: _____ Sampler's Signature: _____		REMARKS			<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Sample ID</th> <th style="width: 10%;">Collection Date</th> <th style="width: 10%;">Time</th> <th style="width: 10%;">Type (-)</th> <th style="width: 10%;">Matrix</th> <th style="width: 45%;"></th> </tr> <tr> <th></th> <th></th> <th></th> <th>Comp</th> <th>Grab</th> <th></th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>				Sample ID	Collection Date	Time	Type (-)	Matrix					Comp	Grab																																																							
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**Chain of Custody Form**  
[\[click image below to access form\]](#)



# TGI - STANDARD GROUNDWATER SAMPLING FOR MONITORING WELLS

Rev #: 0

Rev Date: October 8, 2018

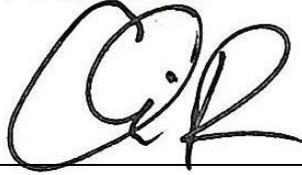


## VERSION CONTROL

Revision No	Revision Date	Page No(s)	Description	Reviewed by
0	October 8, 2018	All	Updated and re-written as a TGI	Marc Killingstad

## APPROVAL SIGNATURES

Prepared by:



Christopher Keen

10/08/2018

Date:

Technical Expert Reviewed by:



Marc Killingstad (Technical Expert)

10/08/2018

Date:

## 1 INTRODUCTION

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## 2 SCOPE AND APPLICATION

This Technical Guidance Instruction (TGI) describes the methods to be used to collect groundwater samples using traditional purging and sampling techniques. For low-flow purging techniques, please refer to the *TGI - Low-Flow Groundwater Purging and Sampling Procedures for Monitoring Wells*. For no-purge/passive sampling techniques such as passive diffusion bag (PDB), HydraSleeve™ and bailer-grab groundwater sampling please refer to: *TGI – Passive Diffusion Bag Sampling*, *TGI – Groundwater Sampling with HydraSleeves™*, and *TGI - Bailer-Grab Groundwater Sampling*.

*NOTE: Monitoring wells will not be sampled until the well has been properly developed. Monitoring wells must be appropriately developed after installation and at least one (1) week prior to groundwater sample collection (refer TGI – Monitoring Well Development). Project teams will consider the last time the wells were developed and if additional development may be required to ensure adequate communication with the surrounding formation and collection of representative groundwater samples.*

During precipitation events, groundwater sampling will be discontinued until precipitation ceases or a cover has been erected over the sampling area and monitoring well.

Both filtered and unfiltered groundwater samples may be collected using this TGI. Filtered samples may be obtained using a 1.0-, 0.45-, or 0.1-micron disposable filter.

### 3 PERSONNEL QUALIFICATIONS

Arcadis field sampling personnel will have completed or are in the process of completing site-specific training as well as having current health and safety training as required by Arcadis, client, or regulations, such as 40-hour HAZWOPER training and/or OSHA HAZWOPER site supervisor training. Arcadis personnel will also have current training as identified in the site-specific Health and Safety Plan (HASP) which may include first aid, cardiopulmonary resuscitation (CPR), Blood Borne Pathogens (BBP) as needed. The HASP will also identify any access control requirements.

Prior to mobilizing to the field, the groundwater sampling team will review and be thoroughly familiar with relevant site-specific documents including but not limited to the task-specific work plan or field implementation plan (FIP)/field sampling plan, Quality Assurance Project Plan (QAPP), HASP, historical information, and other relevant site documents.

Arcadis field sampling personnel will be knowledgeable in the relevant processes, procedures, and TGIs and possess the demonstrated required skills and experience necessary to successfully complete the desired field work. Additionally, the groundwater sampling team will review and be thoroughly familiar with documentation provided by equipment manufacturers and become familiar with the operation of (i.e., hands-on experience) all equipment that will be used in the field prior to mobilization.

Ideally, Arcadis personnel directing, supervising, or leading groundwater sample collection activities will have a minimum of one (1) year of previous groundwater sampling experience. Field employees with less than six (6) months of experience will be accompanied by a supervisor (as described above) to ensure that proper sample collection techniques are employed.

### 4 EQUIPMENT LIST

The following materials will be available, as required, during groundwater sampling:

- Site-specific HASP and health and safety documents identified in the HASP
- Field Implementation Plan (FIP) that includes site map, well construction records (table or logs), sampling plan (sample analyses, sample volume required, and sample holding time), and prior groundwater sampling records (if available)
- Field notebook and/or smart device (smart phone or tablet)
- Groundwater sampling field forms (**Attachment A**)
- Appropriate personal protective equipment (PPE) (e.g., latex or nitrile gloves, safety glasses, etc.) as specified in the HASP
- Traffic cones, delineators, and caution tape as appropriate for securing the work area as specified in the Traffic Safety Plan (TSP)

- Photoionization detector (PID), flame ionization detector (FID) or other air monitoring equipment, as needed, in accordance with the HASP
- Dedicated plastic sheeting (e.g., Weatherall Visqueen) or other clean surface to prevent sampling equipment from coming in contact with the ground
- If bailers are to be used in sampling:
  - appropriate number of dedicated bottom-loading, bottom-emptying bailers (i.e., polyvinyl chloride [PVC], polyethylene, Teflon®, or stainless steel)
  - polypropylene or nylon rope
- If submersible pumps are to be used in sampling:
  - appropriate amount of dedicated tubing (polyethylene, Teflon®, Teflon®-lined polyethylene, Tygon®) and other equipment necessary for purging selected in accordance with the FIP/sampling plan/work plan
  - generator or battery for operation of pumps (if required)
  - a pump selected in accordance with the FIP/sampling plan/work plan (parameter-specific [e.g., submersible, bladder, peristaltic])
- Graduated buckets to measure purge water volume
- Electronic water-level indicator (e.g., Solinst Model 101) or oil/water interface probe with 0.01-foot accuracy (oil/water as appropriate, note that sampling will not be performed when sheen or light non-aqueous phase liquid [LNAPL] is present)
- Down-hole multiparameter water-quality sonde (temperature/pH/specific conductivity/oxidation reduction [ORP]/turbidity/dissolved oxygen) meter and flow-through measurement cell; for example:
  - YSI 6-Series Multi-Parameter Instrument
  - Horiba U-22 Multi-Parameter Instrument.
  - Hydrolab Series 3 or Series 4a Multiprobe and Display.
- Groundwater sample containers and labels (supplied by the laboratory) appropriate for the analytical method(s) with preservative, as needed (parameter-specific)
- Filter, as needed, in accordance with the analytical method and parameter, and as specified in the FIP/sampling plan
- Decontamination equipment (buckets, distilled or deionized water, cleansers appropriate for removing expected chemicals of concern, paper towels)
- Appropriate blanks (trip blank supplied by the laboratory), as specified in the FIP/sampling plan
- Ziploc-type freezer bags for use as ice containers;
- Appropriate transport containers (coolers) with ice and appropriate labeling, packing, and shipping materials

- Chain-of-custody forms
- Digital camera (or phone with camera)
- Keys to wells and contingent bolt cutters for rusted locks and replacement keyed-alike locks
- Drums or other containers appropriate for purge water, as specified by the site investigation-derived waste (IDW) management plan and/or FIP/sampling plan and appropriate drum labels

## 5 CAUTIONS

*Different USEPA regions and/or state regulatory agencies may stipulate deviations from this document. It is the responsibility of the Project Team (Project Manager and Technical Lead) to be fully aware of the requirements from the applicable regulatory framework.*

If heavy precipitation occurs and no cover over the sampling area and monitoring well can be erected, sampling must be discontinued until adequate cover is provided. Rain water could contaminate groundwater samples.

Avoid extreme weather situations. Be aware that thermal currents and vertical mixing of cold and warm water inside the well casing could create a convection cell within the well and compromise data collection (e.g., biological mechanisms).

- Direct sunlight and hot ambient temperatures may cause the groundwater in the tubing or flow-through-cell to heat up and de-gas. This may result in the loss of volatile organic compounds (VOCs) and dissolved gases. Shade the equipment from direct sunlight, keep the tubing as short as possible, and avoid the hottest times of the day. Store and/or stage empty and full sample containers and coolers out of direct sunlight.
- Sampling during freezing conditions may adversely impact the data quality objectives. USEPA recommends low-flow sampling be conducted at air temperatures above 32°F (0°C) or taking special precautions to prevent groundwater from freezing in the equipment.

It may be necessary to field filter the groundwater for some parameters (e.g., metals) during collection, depending on preservation, analytical method, and project quality objectives. The task-kick-off notes and the FIP/sampling plan will list the samples that require field filtering.

To mitigate potential cross-contamination, groundwater samples are to be collected in a pre-determined order from least impacted to more impacted based on previous analytical data. If no analytical data are available, samples are to be collected in the following order:

1. First sample the upgradient well(s).
2. Next, sample the well located furthest downgradient of the interpreted or known source.
3. The remaining wells will be progressively sampled in order from downgradient to upgradient, such that the wells closest to the interpreted or known source are sampled last.

When using a gasoline generator, this power source will be set-up at least 30 feet downwind from the well to avoid exhaust fumes to contaminate samples.

Be careful not to over-tighten lids with Teflon® liners or septa (e.g., 40-mL vials). Over-tightening can cause the glass to shatter and/or impair the integrity of the seal.

*NOTE: Field logs and some forms are considered to be legal documents. All field logs and forms will be filled out in indelible ink. Do not use permanent marker or felt-tipped pens for labels on sample container or sample coolers. Permanent markers could introduce volatile constituents into the samples.*

*NOTE: An Arcadis employee that is appropriately trained at the correct level of internal hazardous materials/DOT (Department of Transportation) shipping must complete an Arcadis shipping determination to address applicable DOT and IATA (International Air Transport Association) shipping requirements. Review the applicable Arcadis procedures and guidance instructions for sample packaging and labeling. Prior to using air transportation, confirm air shipment is acceptable under DOT and IATA regulations.*

## 6 HEALTH AND SAFETY CONSIDERATIONS

The HASP will be followed, as appropriate, to ensure the safety of field personnel.

Appropriate personal protective equipment (PPE) will be worn at all times in line with the task and the site-specific HASP.

Review all site-specific and procedural hazards as they are provided in the HASP, and review Job Safety Analysis (JSA) documents in the field each day prior to beginning work.

Access to wells may expose field personnel to hazardous materials such as contaminated groundwater or non-aqueous phase liquid (NAPL) (e.g., oil). Other potential hazards include pressurized wells, stinging insects that may inhabit well heads, other biologic hazards (e.g. ticks in long grass/weeds around well head), and potentially the use of sharp cutting tools (scissors, knife)—open well caps slowly and keep face and body away to allow to vent any built-up pressure; only use non-toxic peppermint oil spray for stinging insect nests; review client-specific health and safety requirements, which may preclude the use of fixed/folding-blade knives, and use appropriate hand protection. Overtightening of lids with Teflon® liners can cause the glass to shatter and create a risk for hand injuries.

Generators and cord and plug equipment will employ an overcurrent protection device such as an integrated ground fault circuit interrupter (GFCI) cord. Grundfos pump controllers will not run properly with a GFCI, so the power source will be equipped with other overcurrent protection means.

If thunder or lightning is present, discontinue sampling until 30 minutes have passed after the last occurrence of thunder or lightning.

## 7 PROCEDURE

The general procedure for using traditional purging and sampling techniques to sample monitoring wells are outlined below:

1. Review equipment list (**Section 4** above) to confirm that the appropriate equipment has been acquired.
2. Don PPE as required in the HASP

- a. NOTE: *Depending on site-specific security and safety considerations, this often must be done prior to entering the work area*
3. Calibrate field instruments according to manufacturer procedures for calibration and document accordingly on the calibration logs, field form, and/or field logbook
4. All equipment will either be new or decontaminated in accordance with appropriate guidance document (*TGI – Groundwater and Soil Sampling Equipment Decontamination*) prior to use
5. Record site and monitoring well identification on the groundwater sampling log (**Attachment A**), along with date, arrival time, weather conditions, personnel present, equipment utilized, and other relevant data requested on the log.
6. Label all sample containers with indelible ink
7. Place plastic sheeting adjacent to the well for use as a clean work area, if conditions allow, otherwise, exercise care to prevent sampling equipment from contacting the ground or other surface that could compromise sample integrity
8. Visually inspect the well to ensure that it is undamaged, properly labeled and secured
  - a. Damage or other conditions that may affect the integrity of the well will be recorded in the Field Activity Daily Log and brought to the attention of the designated Field Manager and/or Project Manager
  - b. Record well construction and conditions on the Groundwater Sampling Field Form (**Attachment A**)
9. Remove lock from well and if rusted or broken, replace with a new brass keyed-alike lock
10. Safely open well
  - a. Unlock and open the well cover while standing upwind of the well
  - b. Remove well cap and place on the plastic sheeting
  - c. Insert the PID probe approximately 4 to 6 inches into the casing or the well headspace and cover it with a gloved hand
  - d. Record the PID reading on the field log
  - e. Perform air monitoring in the breathing zone according to the HASP and/or JSA
11. Set the sampling device, meters, and other sampling equipment on the plastic sheeting
  - a. If a dedicated sampling device stored in the well is to be used, this may also be set temporarily on the plastic sheeting
  - b. If a dedicated sampling device is stored below the water table, removing it may compromise water-level data, so water-level measurements will be taken prior to removing the device (see next step)
12. Obtain a water-level depth and bottom-of-well depth using an electric well probe prior to placing the pump and record on the groundwater sampling log using indelible ink

- a. Make sure to decontaminate the probe(s) after each use in accord with the FIP/sampling plan or the equipment decontamination TGI

NOTE: *Water levels may be measured at all wells prior to initiating any sampling activities, depending on FIP requirements.*

13. Prepare for pump installation:

- a. For submersible and non-dedicated bladder pumps, decontaminate the pump according to site decontamination procedures
- b. Non-dedicated bladder pumps will require a new bladder and attachment of an air-line, sample discharge line, and safety cable prior to placement in the well
- c. Attach the air-line tubing to the air-port on the top of the bladder pump
- d. Attach the sample discharge tubing to the water port on the top of the bladder pump taking care not to reverse the air and discharge tubing lines during bladder pump setup, as this could result in bladder failure or rupture
- e. Attach and secure a safety cable to the eyebolt on the top of bladder pump (if present, depending on pump model used)

14. Slowly lower the pump, safety cable, tubing, and electrical lines into the well to a depth corresponding to the approximate center of the saturated screen section of the well

- a. Avoid twisting and tangling of safety cable, tubing, and electrical lines while lowering the pump into the well; twisted and tangled lines could result in the pump becoming stuck in the well casing
- b. Make sure to keep tubing and lines from touching the ground or other surfaces while introducing them into the well, as this could lead to well contamination
- c. If a peristaltic pump is being used, slowly lower the sample tubing into the well to a depth corresponding to the approximate center of the saturated screen section of the well
- d. The pump intake or sample tubing must be kept at least 2 feet above the bottom of the well to prevent mobilization of any sediment present in the bottom of the well

15. If using a bladder pump, connect the air-line to the pump controller output port

- a. The pump controller will then be connected to a supply line from an air compressor or compressed gas cylinder using an appropriate regulator and air hose
- b. Tighten the regulator connector onto the gas cylinder (if used) to prevent leaks. Teflon® tape may be used on the threads of the cylinder to provide a tighter seal
- c. Once the air compressor or gas cylinder is connected to the pump controller, turn on the compressor or open the valve on the cylinder to begin the gas flow
- d. Turn on the pump controller power if an on/off switch is present and verify that all batteries are charged and fully operating before beginning to pump

16. Calculate the number of gallons of water in the well using the length of water column (in feet).  
Record the well volume on the groundwater sampling log using indelible ink
17. Remove the required purge volume of water from the well (measure purge water volume in measuring buckets)
  - a. The required purge volume will be three to five well volumes (the water column in the well screen and casing) unless the well runs dry, in which case, the water that comes into the well will be sampled (USEPA, 1986)
  - b. For wells screened across the water table, the well may be pumped dry and sampling can commence as soon as the volume in the well has recovered sufficiently to permit collection of samples
  - c. For wells screened entirely below the water table, the well may be pumped until the drawdown is at a level slightly higher than top of the well screen
  - d. Sampling may commence after one well volume has been removed and the well has recovered sufficiently to permit collection of samples
  - e. In any case, the pumping rate will be decreased during sampling to limit the potential for volatilization of organics potentially present in the groundwater
18. Field parameter measurements will be periodically collected in accordance with FIP/sampling plan specifications
  - a. Typical time intervals of field parameter measurement are (1) after each well volume removed, and (2) before sampling
  - b. If the field parameters are being measured above-ground (rather than with a downhole probe), then the final pre-sampling parameter measurement will be collected at the reduced flow rate to be used during sampling
  - c. Physical appearance of the purged water will be noted on the groundwater sampling log
  - d. Water-level measurements will be collected and recorded to verify that the well purging is in accordance with the guidelines set forth in the previous step
19. Unless otherwise specified by the applicable regulatory agencies, all purge water will be containerized
  - a. Containerized purge water will be managed in accordance with the FIP/sampling plan/work plan
  - b. If historical concentrations in the well are less than federal- or state-regulated concentrations appropriate for current land use, *and permission has been granted by the oversight regulatory agency to dispose of clean purge water on the ground next to the well(s), then purge water may be allowed to infiltrate into the ground surface downgradient from the monitoring well after the well is sampled—this will be specified in the FIP/sampling plan*

20. After the appropriate purge volume of groundwater in the well has been removed, or if the well has run dry and allowed to recover, obtain the groundwater sample needed for analysis via the dedicated bailer or from the dedicated sample tubing, pour the groundwater directly from the sampling device into the appropriate container in the order of volatilization sensitivity of the parameters sampled, and tightly screw on the cap (snug, but not too tight)

*NOTE: The suggested order for sample parameter collection, based on volatilization sensitivity, is presented below:*

- a. volatile organic compounds (VOCs);*
- b. semi-volatile organic compounds (SVOCs);*
- c. polychlorinated biphenyls (PCBs)/pesticides;*
- d. metals; and*
- e. wet chemistry.*

*NOTE: When sampling for volatiles, water samples will be collected directly from the bailer or dedicated tubing into 40-mL vials with Teflon®-lined septa.*

*NOTE: For other analytical samples, sample containers for each analyte type will be filled in the order specified by the FIP/sampling plan. If a bailer is used, then the sample for dissolved metals and/or filtered PCBs will either be placed directly from the bailer into a pressure filter apparatus or pumped directly from the bailer with a peristaltic pump, through an in-line filter, into the pre-preserved sample bottle. If dedicated sample tubing is used, then the filter will be installed in-line just prior to filtered sample collection.*

*NOTE: If sampling for total and filtered metals and/or PCBs, a filtered and unfiltered sample will be collected. Sample filtration for the filtered sample will be performed in the field utilizing a pump prior to preservation. Attach (clamp) a new 1.0-, 0.45-, or 0.1-micron filter to the discharge tubing of the pump (note the filter flow direction). Turn the pump on and allow 100 mL (or manufacturer recommended amount) of fluid to flow through the filter before sample collection. Dispense the filtered liquid directly into the laboratory sample bottles. If bailers are used for purging and sampling, a proper volume of purge water will be placed in a disposable or decontaminated polyethylene container and pumped through the filter and into the sample container using a peristaltic pump.*

21. As samples are collected, note the corresponding time on the sample label
22. Secure sample containers with packing material and maintain at approximately 4°C on wet ice contained in double Ziploc-type freezer bags stored in an insulated, durable transport cooler
23. Turn off the pump and air compressor or close the gas cylinder valve if using a bladder pump setup.
24. Slowly remove the pump, tubing, lines, and safety cable from the well
- a. If using dedicated tubing/lines, do not allow them to touch the ground or any other surfaces which could result in contamination

- b. If tubing is to be dedicated to a well, it will be folded to a length – without pinching it – that will allow the well to be capped and also facilitate retrieval of the tubing during later sampling events
  - c. Use a length of rope or string to tie the tubing to the well cap
  - d. Alternatively, if tubing and safety line are to be saved and reused for sampling the well at a later date, they may be coiled neatly and placed in a clean plastic bag that is clearly labeled with the well ID and tightly sealed before placing it in storage
25. Record the time sampling procedures were completed on the groundwater sampling field forms using indelible ink
26. Secure the well: replace the well cap and lock well or install a new lock if needed
- a. If new locks were installed, forward copies of the keys to the client Project Manager (PM) and Arcadis CPM at the end of the sampling activities
27. Complete the procedures for chain-of-custody, handling, packing, and shipping
- a. Chain-of-custody forms will be filled out and checked against the labels on the sample containers progressively after each sample is collected
28. Properly dispose of personal protective equipment (PPE) and disposable equipment—place all disposable sampling materials (e.g., plastic sheeting, disposable tubing or bailers, and PPE) in appropriate containers
29. Complete decontamination of sampling equipment (e.g., submersible or bladder pump) as appropriate (*TGI – Groundwater and Soil Sampling Equipment Decontamination*)
30. At the end of each day of the sampling event, perform calibration check of field instruments and record procedure and results in field log

## 8 WASTE MANAGEMENT

Investigation-Derived Waste (IDW), including purge water, decontamination liquids, and disposable materials (plastic sheeting, PPE, etc.) will be stored on site in appropriately labeled containers (disposable materials will be contained separately) and disposed of properly. Containers must be labeled at the time of collection and will include date, location(s), site name, city, state, and description of matrix contained (e.g., soil, PPE). Waste will be managed in accordance with the *TGI – Investigation-Derived Waste Handling and Storage*, the procedures identified in the FIP or QAPP as well as state-, federal- or client-specific requirements. Be certain that waste containers are properly labeled and documented in the field log book.

## 9 DATA RECORDING AND MANAGEMENT

Management of the original documents from the field will be completed in accordance with the site-specific QAPP. Records generated as a result of this TGI will be controlled and maintained in the project record files in accordance with project requirements.

In general, sampling activities will be documented on appropriate field logs as well as in a proper field notebook. All field data will be recorded in indelible ink. Field forms, logs/notes (including daily field and calibration logs), digital records, and chain-of-custody records will be maintained by the field team lead.

Initial field logs and chain-of-custody records will be transmitted to the Arcadis CPM and/or Technical Lead at the end of each day unless otherwise directed by the CPM. The field team leader retains copies of the field documentation.

Additionally, all documents (and photographs) will be scanned and electronically filed in the appropriate project directory for easy access.

## 10 QUALITY ASSURANCE

Quality assurance procedures will be conducted in accordance with the Arcadis Quality Management System or the site-specific QAPP.

Field-derived quality assurance blanks will be collected as specified in the FIP/sampling plan, depending on the project quality objectives. Typically, field rinse blanks (equipment blanks) will be collected when non-dedicated equipment (e.g., submersible pump) is used during groundwater sampling. Field rinse blanks will be used to confirm that decontamination procedures are sufficient and samples are representative of site conditions. Trip blanks for VOCs, which aid in the detection of contaminants from other media, sources, or the container itself, will be kept with the coolers and the sample containers throughout the sampling activities and during transport to the laboratory.

In addition to the quality control samples to be collected in accordance with this TGI, the following quality control procedures will be observed in the field:

- Collect samples from monitoring wells, in order of increasing concentration, to the extent known based on review of historical site information if available
- Equipment blanks will include the pump and tubing (if using disposable tubing) or the pump only (if using tubing dedicated to each well)
- Collect equipment blanks after wells with higher concentrations (if known) have been sampled
- Operate all monitoring instrumentation in accordance with manufacturer's instructions and calibration procedures
  - Calibrate instruments at the beginning of each day and verify the calibration at the end of each day
  - Record all calibration activities in the field notebook
- Clean all groundwater sampling equipment prior to use in the first well and after each subsequent well following the procedures outlined for equipment decontamination

## 11 REFERENCES

- United States Environmental Protection Agency (USEPA). 1986. RCRA Groundwater Monitoring Technical Enforcement Guidance Document (September 1986).
- USEPA. 1991. Handbook Ground Water, Volume II: Methodology, Office of Research and Development, Washington, DC. EPA/625/6-90/016b (July 1991).
- U.S. Geological Survey (USGS). 1977. National Handbook of Recommended Methods for Water-Data Acquisition: USGS Office of Water Data Coordination. Reston, Virginia.

## 12 ATTACHMENTS

Attachment 1 – Groundwater Sampling Field Form

## ATTACHMENTS 1

### Groundwater Sampling Field Form





# TGI - ADMINISTERING HELIUM TRACER GAS LEAK TEST

Rev: 2

Rev Date: December 5, 2018



## VERSION CONTROL

Revision No	Revision Date	Page No(s)	Description	Reviewed by
1	October 14, 2016			Mitch Wacksman
2	December 5, 2018		<ul style="list-style-type: none"><li>Revised purge rate to be consistent with other vapor intrusion TGIs</li><li>Add Health and Safety Considerations section</li></ul>	Mitch Wacksman

## APPROVAL SIGNATURES

Prepared by:   
Eric Cathcart  
Date: 12/5/2018

Technical Expert Reviewed by:   
Mitch Wacksman (Technical Expert)  
Date: 12/5/2018

## 1 INTRODUCTION

This document describes general and/or specific procedures, methods, actions, steps, and considerations to be used and observed by Arcadis staff when performing work, tasks, or actions under the scope and relevancy of this document. This document may describe expectations, requirements, guidance, recommendations, and/or instructions pertinent to the service, work task, or activity it covers.

It is the responsibility of the Arcadis Certified Project Manager (CPM) to provide this document to the persons conducting services that fall under the scope and purpose of this procedure, instruction, and/or guidance. The Arcadis CPM will also ensure that the persons conducting the work falling under this document are appropriately trained and familiar with its content. The persons conducting the work under this document are required to meet the minimum competency requirements outlined herein, and inquire to the CPM regarding any questions, misunderstanding, or discrepancy related to the work under this document.

This document is not considered to be all inclusive nor does it apply to all projects. It is the CPM's responsibility to determine the proper scope and personnel required for each project. There may be project- and/or client- and/or state-specific requirements that may be more or less stringent than what is described herein. The CPM is responsible for informing Arcadis and/or Subcontractor personnel of omissions and/or deviations from this document that may be required for the project. In turn, project staff are required to inform the CPM if or when there is a deviation or omission from work performed as compared to what is described herein.

In following this document to execute the scope of work for a project, it may be necessary for staff to make professional judgment decisions to meet the project's scope of work based upon site conditions, staffing expertise, regulation-specific requirements, health and safety concerns, etc. Staff are required to consult with the CPM when or if a deviation or omission from this document is required that has not already been previously approved by the CPM. Upon approval by the CPM, the staff can perform the deviation or omission as confirmed by the CPM.

## 2 SCOPE AND APPLICATION

When collecting subsurface vapor samples as part of a vapor intrusion evaluation, a tracer gas serves as a quality assurance/quality control method to verify the integrity of the vapor port seal and the numerous connections comprising the sample train. Without the use of a tracer, verification that a soil vapor sample has not been diluted by ambient or indoor air is difficult.

This Technical Guidance Instruction (TGI) focuses on using helium as a tracer gas. It should be noted that a field helium meter could register a false positive if methane is present in the subsurface. In this case an alternative method should be employed (i.e., water dam test), The protocol for using a tracer gas includes the following basic steps: (1) enrich the atmosphere in the immediate vicinity of the sample port where ambient air could enter the sampling train during sampling with the tracer gas; and (2) measure a vapor sample from the sample tubing for the presence of elevated concentrations (> 10%) of the tracer. A plastic pail, bucket, garbage can or even a plastic bag can serve as a shroud to keep the tracer gas in contact with the port during the testing.

There are two basic approaches to testing for the tracer gas:

1. Include the tracer gas in the list of target analytes reported by the laboratory; and/or
2. Use a portable monitoring device to analyze a sample of soil vapor for the tracer prior to sampling for the compounds of concern. (Note that tracer gas samples can be collected via syringe, Tedlar bag, etc. They need not be collected in SUMMA® canisters or minicans)

This TGI focuses on monitoring helium using a portable sampling device, although helium can also be analyzed by the laboratory along with other volatile organic compounds (VOCs). Real-time tracer sampling allows the investigator to confirm the integrity of the port seals prior to formal sample collection.

During the initial stages of a subsurface vapor sampling program, tracer gas samples should be collected at each of the sampling points. If the results of the initial samples indicate that the port seals are adequate, the Project Manager can consider reducing the number of locations at which tracer gas samples are used in future monitoring rounds. At a minimum, at least 10% of the subsequent samples should be supported with tracer gas analyses. When using permanent soil vapor points as part of a long-term monitoring program, the port should be tested prior to the first sampling event. Tracer gas testing of subsequent sampling events may often be reduced or eliminated unless conditions have changed at the site. Soil gas port integrity should certainly be rechecked with Tracer gas if land clearing/grading activities, freeze thaw cycles, or soil desiccation may have occurred. Points should also be rechecked if more than 2 years have elapsed since the last check of that port.

### 3 PERSONNEL QUALIFICATIONS

Arcadis field sampling personnel will have current health and safety training, including 40-hour HAZWOPER training, site supervisor training, site-specific training, first aid, and cardiopulmonary resuscitation (CPR), as needed. Arcadis field sampling personnel will be competent in the relevant procedures and possess the required skills and experience necessary to successfully complete the desired field work. Arcadis personnel responsible for directing tracer gas testing must have previous experience conducting similar tests without direct supervision.

### 4 EQUIPMENT LIST

The equipment required to conduct a helium tracer gas test is presented below:

- Appropriate PPE for site (as required by the Health and Safety Plan)
- Helium (laboratory grade)
- Regulator for helium tank
- Shroud (plastic bucket, garbage can, plastic bag, etc.)
  - The size of the shroud should be sufficient to fit over the sample port. It is worth noting that using the smallest shroud possible will minimize the volume of helium needed; this may be important when projects require a large number of helium tracer tests.

- The shroud will need to have three small holes in it. These holes will include one on the top (to accommodate the sample tubing), and two on the side (one for the helium detector probe, and one for the helium line).
- The shroud should ideally enclose the sample port and as much as possible of the sampling train.
- Helium detector capable of measuring from 1 - 100% (Dielectric MGD-2002, Mark Model 9522, or equivalent)
- Tedlar bag
- Seal material for shroud (rubber gasket, VOC-free modeling clay, bentonite, etc.) to keep helium levels in shroud high in windy conditions. Although the sealing material is not in direct contact with the sample if leakage does not occur, sealing materials with high levels of VOC emissions should be avoided, since they could contaminate a sample if a leak occurs.
- Sample logs
- Field notebook

## 5 CAUTIONS

Helium is an asphyxiant! Be cautious with its use indoors! Never release large volumes of helium within a closed room!

Field sampling equipment must be carefully handled to minimize the potential for injury and the spread of hazardous substances. All sampling personnel should review the appropriate health and safety plan (HASP) and job safety analysis (JSA) prior to beginning work to be aware of all potential hazards associated with the job site and the specific task. Field staff should review the attachment on safely handling compressed gas cylinders prior to commencing field work.

Compressed gas cylinders should be handled with caution; see attachment on the use and storage of compressed gasses before beginning field work.

Care should be taken not to pressurize the shroud while introducing helium. If the shroud is completely air tight and the helium is introduced quickly, the shroud can be over-pressurized and helium can be pushed into the ground. Provide a relief valve or small gap where the helium can escape.

Because minor leakage around the port seal should not materially affect the usability of the soil vapor sampling results, the mere presence of the tracer gas in the sample should not be a cause for alarm. Consequently, portable field monitoring devices with detection limits in the low ppm range are more than adequate for screening samples for the tracer. If high concentrations (> 10%) of tracer gas are observed in a sample, the port seal should be enhanced and fittings within the sampling train should be checked and/or tightened to reduce the infiltration of ambient air and the tracer test readministered. If the problem cannot be rectified, a new sample point should be installed or an alternate sampling train used.

## 6 HEALTH AND SAFETY CONSIDERATIONS

All sampling personnel should review the appropriate health and safety plan (HASP) and job safety analysis (JSA) prior to beginning work to be aware of all potential hazards associated with the job site and the specific task. Field sampling must be carefully performed to minimize the potential for injury and the spread of hazardous substances.

Soil Vapor sampling is often done on the ground with workers on their knees. Knee pads or a large pad can be used under the entire sample area (i.e. a large folded box). This will protect the worker's knees and the sampling equipment from touching the potentially impacted ground (i.e. asphalt parking lot with car oil stains).

The metal on metal fittings often create small metal splinters, so always used gloves when handling the canisters, fittings, valves, etc. Do not blow the splinters off towards other workers

## 7 PROCEDURE

The helium tracer test can be conducted when using temporary or permanent sampling points and inside or outside a facility. A visual of an example helium tracer gas test equipment set up is included as Figure 1.

1. Attach Teflon or nylon (Nylaflo) sample tubing to the sample point. This can be accomplished utilizing a number of different methods depending on the sample install (i.e., Swage-Lok or comparable fittings).
2. Place the shroud over the sample point and tubing.
3. Pull the tubing through hole in top of shroud. Seal opening at top of shroud with VOC free modeling clay.
4. Place weight on top of shroud to help maintain a good seal with the ground.
5. Insert helium tubing and helium detector probe into side of shroud. Seal both with modeling clay to prevent leaks.
6. Fill shroud with helium. Fill shroud slowly, allowing atmospheric air to escape either by leaving a gap where the shroud meets the ground surface or by providing a release valve on the side of the shroud. Do not pressurize the shroud!
7. Use the helium detector to monitor helium concentration within the shroud from the lowest hole drilled in the shroud (bottom of the shroud nearest where the sample tubing intersects the ground). Helium should be added until the environment inside the shroud has > 40% helium.
8. Purge the sample point through the sample tubing into a Tedlar bag using a syringe equipped with a three-way leuc lock valve. The purge rate should at least match the sample collection rate but not exceed 200 ml/min. Test the air in the Tedlar bag for helium using portable helium detector. If the point is free of leaks there should be very low helium in the purge air from the soil. The natural concentration of helium in the atmosphere is 0.00052% by volume and there are few if any natural sources of helium to soil gas.

9. If > 10% of the amount of helium present in the shroud is noted in purge air, rectify issues with the seal at the sample port and repeat the testing procedure. If the seal cannot be fixed, reinstall sample point.
10. Monitor and record helium level in shroud before, during and after tracer test.
11. Monitor and record helium level in purge exhaust.
12. At successful completion of tracer test and sample point purging, the soil vapor sample can be collected (if the helium shroud must be removed prior to sample collection be mindful not disturb the sample tubing and any established seals.

## **8 WASTE MANAGEMENT**

No specific waste management procedures are required.

## **9 DATA RECORDING AND MANAGEMENT**

Measurements will be recorded on the sample logs at the time of measurement with notations of the project name, sample date, sample start and finish time, sample location, and the helium concentrations in both the shroud and the purge air before, during, and after tracer testing. Any problems encountered should also be recorded in the field notes.

## **10 QUALITY ASSURANCE**

Conduct quality assurance as required by the project-specific work plan and/or Quality Assurance Project Plan (QAPP).

## **11 REFERENCES**

- New Jersey Department of Environmental Protection (NJDEP). 2018. Vapor Intrusion Technical Guidance. January.
- New York Department of Health. 2006. Guidance for Evaluating Soil Vapor Intrusion in the State of New York. October.
- United States Environmental Protection Agency (USEPA). 2015. OSWER Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air. June

## ATTACHMENT

### Compressed Gases – Use and Storage

In general, a compressed gas is any material contained under pressure that is dissolved or liquefied by compression or refrigeration. Compressed gas cylinders should be handled as high-energy sources and therefore as potential explosives and projectiles. Prudent safety practices should be followed when handling compressed gases since they expose workers to both chemical and physical hazards.

#### Handling

- Safety glasses with side shields (or safety goggles) and other appropriate personal protective equipment should be worn when working with compressed gases.
- Cylinders should be marked with a label that clearly identifies the contents.
- All cylinders should be checked for damage prior to use. Do not repair damaged cylinders or valves. Damaged or defective cylinders, valves, etc., should be taken out of use immediately and returned to the manufacturer/distributor for repair.
- All gas cylinders (full or empty) should be rigidly secured to a substantial structure at 2/3 height. Only two cylinders per restraint are allowed in the laboratory and only soldered link chains or belts with buckles are acceptable. Cylinder stands are also acceptable but not preferred.
- Handcarts shall be used when moving gas cylinders. Cylinders must be chained to the carts.
- All cylinders must be fitted with safety valve covers before they are moved.
- Only three-wheeled or four-wheeled carts should be used to move cylinders.
- A pressure-regulating device shall be used at all times to control the flow of gas from the cylinder.
- The main cylinder valve shall be the only means by which gas flow is to be shut off. The correct position for the main valve is all the way on or all the way off.
- Cylinder valves should never be lubricated, modified, forced, or tampered with.
- After connecting a cylinder, check for leaks at connections. Periodically check for leaks while the cylinder is in use.
- Regulators and valves should be tightened firmly with the proper size wrench. Do not use adjustable wrenches or pliers because they may damage the nuts.
- Cylinders should not be placed near heat or where they can become part of an electrical circuit.
- Cylinders should not be exposed to temperatures above 50 °C (122 °F). Some rupture devices on cylinders will release at about 65 °C (149 °F). Some small cylinders, such as lecture bottles, are not fitted with rupture devices and may explode if exposed to high temperatures.
- Rapid release of a compressed gas should be avoided because it will cause an unsecured gas hose to whip dangerously and also may build up enough static charge to ignite a flammable gas.

- Appropriate regulators should be used on each gas cylinder. Threads and the configuration of valve outlets are different for each family of gases to avoid improper use. Adaptors and homemade modifications are prohibited.
- Cylinders should never be bled completely empty. Leave a slight pressure to keep contaminants out.

### **Storage**

- When not in use, cylinders should be stored with their main valve closed and the valve safety cap in place.
- Cylinders must be stored upright and not on their side. All cylinders should be secured.
- Cylinders awaiting use should be stored according to their hazard classes.
- Cylinders should not be located where objects may strike or fall on them.
- Cylinders should not be stored in damp areas or near salt, corrosive chemicals, chemical vapors, heat, or direct sunlight. Cylinders stored outside should be protected from the weather.

### **Special Precautions**

#### Flammable Gases

- No more than two cylinders should be manifolded together; however, several instruments or outlets are permitted for a single cylinder.
- Valves on flammable gas cylinders should be shut off when the laboratory is unattended and no experimental process is in progress.
- Flames involving a highly flammable gas should not be extinguished until the source of the gas has been safely shut off; otherwise it can reignite causing an explosion.

#### Acetylene Gas Cylinders

- Acetylene cylinders must always be stored upright. They contain acetone, which can discharge instead of or along with acetylene. Do not use an acetylene cylinder that has been stored or handled in a nonupright position until it has remained in an upright position for at least 30 minutes.
- A flame arrestor must protect the outlet line of an acetylene cylinder.
- Compatible tubing should be used to transport gaseous acetylene. Some tubing like copper forms explosive acetylides.

#### Lecture Bottles

- All lecture bottles should be marked with a label that clearly identifies the contents.
- Lecture bottles should be stored according to their hazard classes.
- Lecture bottles that contain toxic gases should be stored in a ventilated cabinet.
- Lecture bottles should be stored in a secure place to eliminate them from rolling or falling.
- Lecture bottles should not be stored near corrosives, heat, direct sunlight, or in damp areas.

- To avoid costly disposal fees, lecture bottles should only be purchased from suppliers that will accept returned bottles (full or empty). Contact the supplier before purchasing lecture bottles to ensure that they have a return policy.
- Lecture bottles should be dated upon initial use. It is advised that bottles be sent back to the supplier after one year to avoid accumulation of old bottles.



# TGI – GROUNDWATER AND SOIL SAMPLING EQUIPMENT DECONTAMINATION

Rev: 0

Rev Date: February 23, 2017



## VERSION CONTROL

Revision No	Revision Date	Page No(s)	Description	Reviewed by
0	February 23, 2017	ALL	Conversion from SOP to TGI	Cassandra McCloud / Pete Frederick

## APPROVAL SIGNATURES

Prepared by:  Date: 02/23/2017  
Derrick Maurer

Technical Expert Reviewed by:  Date: 02/23/2017  
Cassandra McCloud (Technical Expert)

## 1 INTRODUCTION

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## 2 SCOPE AND APPLICATION

Decontamination is performed on sampling equipment prior to sample collection to ensure that the sampling equipment that contacts a sample, or monitoring equipment that is brought into contact with environmental media to be sampled, is free from analytes of interest and/or constituents that could interfere with laboratory analysis for analytes of interest. Sampling equipment must be appropriately cleaned prior to use for sampling or coming into contact with environmental media to be sampled, and following completion of the sampling event prior to shipment or storage. The effectiveness of the decontamination procedure should be verified by collecting and analyzing equipment blank samples.

The sampling equipment cleaning procedures described herein includes pre-field, in the field, and post-field cleaning of sampling equipment which may be conducted at an established equipment decontamination area (EDA) on site, as appropriate and necessary. Sampling equipment that may require decontamination at a given site includes: soil sampling tools; groundwater, sediment, and surface-water sampling devices; water testing instruments; down-hole instruments; and other activity-specific sampling equipment. Non-disposable equipment will be cleaned before collecting each sample, between each

sample collected, and prior to placing sampling equipment in protective cases, or containers for transport. Cleaning procedures for sampling equipment should be monitored by collecting equipment blank samples as required in project work plans, field sampling plans, quality assurance project plans (QAPP), or other pertinent project documents. Dedicated and/or single-use (i.e., not to be re-used) sampling equipment will not require decontamination.

### 3 PERSONNEL QUALIFICATIONS

Arcadis field sampling personnel will have completed or are in the process of completing site-specific training as well as having current health and safety training as required by Arcadis, client, or regulations, such as 40-hour HAZWOPER training and/or OSHA HAZWOPER site supervisor training. Arcadis personnel will also have current training as specified in the Health and Safety Plan (HASP) which may include first aid, cardiopulmonary resuscitation (CPR), Blood Borne Pathogens (BBP) as needed. In addition, Arcadis field sampling personnel will be knowledgeable in the relevant processes, procedures, and Technical Guidance Instructions (TGIs) and possess the demonstrated required skills and experience necessary to successfully complete the desired field work. The project health and safety plan (HASP) and other documents will identify other training requirements or access control requirements.

### 4 EQUIPMENT LIST

The equipment required for equipment decontamination is presented below:

- Health and safety equipment, including appropriate PPE, as required in the site Health and Safety Plan (HASP)
- Deionized water that meets that analytical criteria for deionized water with no detectable constituents above the reporting limits for the methods to be used and analytes being analyzed for. Deionized water is used for inorganics, and organic-free water for VOCs, SVOCs, pesticides, etc.
- Non-phosphate detergent such as Alconox or, if sampling for phosphorus or phosphorus-containing compounds, Liquinox (or equivalent).
- Tap water
- Rinsate collection plastic containers
- DOT-approved waste shipping container(s), as specified in the work plan, field sampling plan, or regulatory requirements if decontamination waste is to be shipped for disposal
- Brushes
- Large heavy-duty garbage bags
- Spray bottles
- (Optional) – Isopropyl alcohol (free of ketones) or methanol. These can be wipes or diluted with water (usually 1part isopropyl/methanol to 10 parts water) if a spray is needed.
- Airtight, sealable plastic baggies, such as Ziploc-type
- Plastic sheeting

## 5 CAUTIONS

Rinse equipment thoroughly and allow the equipment to dry before re-use or storage to prevent introducing solvent into sample medium. If manual drying of equipment is required, use clean lint-free material to wipe the equipment dry. Ensure all rinsate materials do not adversely affect sample collection efficiency or analytical results.

Store decontaminated equipment in a clean, dry environment. Do not store near combustion engine exhausts. Properly containerize equipment to ensure cross-contamination doesn't happen from other uncontaminated surfaces or equipment.

If equipment is damaged to the extent that decontamination is uncertain due to cracks, gouges, crevices, or dents, the equipment should not be used and should be discarded or submitted for repair prior to use for sample collection.

A proper shipping determination regarding hazardous materials will be performed by a DOT-trained individual for cleaning materials shipped by Arcadis.

Caution should be exercised to avoid contact with the pump casing and water in the container while the pump is running (do not use metal drums or garbage cans) to avoid electric shock.

## 6 HEALTH AND SAFETY CONSIDERATIONS

Review the safety data sheets (SDS) for the cleaning agents and materials used in decontamination. If solvent is used during decontamination, use appropriate PPE and work in a well-ventilated area and stand upwind while applying solvent to equipment. Apply solvent in a manner that minimizes potential for exposure to workers and bystanders. Follow health and safety procedures outlined in the HASP.

## 7 PROCEDURE

A designated area will be established to clean sampling equipment in the field prior to and following sample collection. Equipment cleaning areas will be set up within or adjacent to the specific work area, but not at a location that expose equipment to contamination (i.e. exposed to combustion engine exhaust). Detergent solutions will be prepared in clean containers for use in equipment decontamination. Decontaminated equipment should be handled by workers wearing clean gloves, properly changed to prevent cross-contamination.

### **Cleaning Sampling Equipment**

1. Wash the equipment/pump with potable water.
2. Wash with detergent solution (Alconox, Liquinox or equivalent) to remove all visible particulate matter and any residual oils or grease.
3. If equipment is very dirty, precleaning gross debris with a brush and tap water may be necessary.
4. If non-aqueous phase liquids are present, the use of isopropyl alcohol (free of ketones) or methanol is recommended. Cloth wipes or diluted solution can be used to remove the non-aqueous phase liquids that are hard to remove with detergent solution in step 2. Consult with project manager if

non-aqueous phase liquids are present onsite and design an appropriate decontamination procedure that includes step 4.

5. Rinse with deionized water.

### **Decontaminating Submersible Pumps**

Submersible pumps may be used during well development, groundwater sampling, or other investigative activities. The pumps must be cleaned and flushed before and between uses. This cleaning process will consist of an external detergent solution wash and tap water rinse, a flush of detergent solution through the pump, followed by a flush of potable water through the pump. Flushing will be accomplished by using an appropriate container filled with detergent solution and another container filled with potable water. The pump should be flushed with deionized water as the last step prior to use. The pump will run long enough to effectively flush the pump housing and hose (unless new, disposable hose is used). Disconnect the pump from the power source before handling. The pump and hose should be placed on or in clean polyethylene sheeting to avoid contact with the ground surface.

## **8 WASTE MANAGEMENT**

Equipment decontamination rinsate will be managed in conjunction with all other waste produced during the field sampling effort. Waste management procedures are outlined in the work plan or Waste Management Plan (WMP).

## **9 DATA RECORDING AND MANAGEMENT**

Equipment cleaning and decontamination will be noted in the field notebook for project documentation. Information will include the type of equipment cleaned, the decontamination location, specific procedures utilized, solvents and/or cleaning agents used, source of water, and deviations or omissions from this TGI.

Unusual field conditions should be noted if there is potential to impact the efficacy of the decontamination or subsequent sample collection.

An inventory of the solvents brought on site and used and removed from the site will be maintained in the project documentation. Records will be maintained for solvents used in decontamination, including lot number and expiration date.

Containers with decontamination fluids will be labeled.

## **10 QUALITY ASSURANCE**

Equipment blanks should be collected to verify that the decontamination procedures are effective in minimizing potential for cross contamination. The equipment blank is prepared by pouring deionized water (or organic-free water, for organic analyses) over the clean and dry tools and collecting the water into appropriate sample containers. Equipment blanks should be analyzed for the same set of parameters that are performed on the field samples collected with the equipment that was cleaned as specified in the sampling and analysis plan. Equipment blanks are collected per equipment set, which represents all of the tools needed to collect a specific sample.

## 11 REFERENCES

USEPA Region 9 - Field Sampling Guidance #1230, Sampling Equipment Decontamination.

USEPA Region 1 - Low Stress (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells.



# TECHNICAL GUIDANCE INSTRUCTION - MONITORING WELL DEVELOPMENT

Rev: #0

Rev Date: April 24, 2017

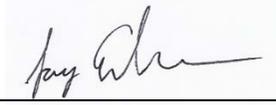


## VERSION CONTROL

Revision No	Revision Date	Page No(s)	Description	Reviewed by
0	4/24/2017	All	Re-written as TGI	Marc Killingstad

## APPROVAL SIGNATURES

Prepared by:



Jay Erickson

4/24/2017

Date:

Technical Expert Reviewed by:



Marc Killingstad

4/24/2017

Date:

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## 2 SCOPE AND APPLICATION

This Technical Guidance Instruction (TGI) covers the development of screened wells used for obtaining representative groundwater information and samples from granular aquifers (i.e., monitoring wells). Note that this TGI only applies to monitoring well development and not remediation (injection/extraction) well development.

The purposes of Monitoring Well Development are:

1. Repair damage to the borehole wall from drilling that can include clogging, smearing or compaction of aquifer materials;
2. Remove fine grained sediment from the formation and filter pack that may result in high turbidity levels in groundwater samples;
3. To re-sort formation and filter pack material adjacent to the well screen;

4. To recover any drilling fluids (if used) that may affect the permeability of the formation and filter pack or alter the water quality around the well; and
5. To optimize the well efficiency and hydraulic communication between the well screen and the formation.

Successful monitoring well development is dependent on the following:

1. Hydrostratigraphy – Permeable formations containing primarily sand and gravel are more easily developed due to lower percentages of silt and clay material. Water in permeable formations can be moved in and out of the screen and/or through the formation easier than in less permeable deposits
2. Well Diameter – Development tooling including brushes, surge blocks, pumps and jetting tools are more readily available for wells 4 inches in diameter and greater.
3. Well Design – Wells with filter packs and screens designed to match the formation through the analysis of formation sieve samples are easier to develop. An important aspect to well design is to minimize the size of the annular space between the formation and well screen. Adequate room must be allowed for the proper installation of well materials, but not too large as to prevent/reduce communication with the surrounding formation.
4. Drilling Methods – Different drilling methods result in varying amount of borehole damage and, therefore, impact the degree to which development will be successful.

Well development methods for monitoring wells include the following:

1. Bailing – use of a bailer to remove water and sediment from the well casing. This technique does little to remove fines from the filter pack and may lead to bridging of sediment since the flow is only in one direction, toward the well screen.
2. Pumping/overpumping – use of a pump to remove water and sediment from the well casing, overpumping involves pumping the well at a rate that exceeds the design capacity of the well. Similar to bailing, this technique does little to remove fines from the filter pack and may lead to bridging of sediment since the flow is only in one direction, toward the well screen. Small diameter monitoring wells have the additional constraint on pump size and flow rates.
3. Backwashing (rawhiding) – consists of starting and stopping a pump intermittently to produce rapid pressure changes in a well. This method can produce better results than pumping alone since the procedure involves movement of the water in and out of the screen and formation. However, in many cases the surging action is not rigorous enough to fully develop the well.
4. Surging/swabbing – use of a mechanical surge block or swabbing tool to operate like a piston with an up and down motion. The downstroke causes a backwash action that breaks up bridged sediment and the upstroke pulls the dislodged sediment into the well. This method works well for small and large diameter wells. Care should be taken on the downstroke so as not to force fines back into the formation, frequent pumping/purging during surging help to keep fines out of the well. Double surge blocks are recommended.
5. Jetting – use of a tool fitted with nozzles that direct streams of water horizontally into well screens at high velocity. Due to the size of the tooling, this method is better suited for wells 4 inch in diameter and larger. The method is also more effective with wire-wrapped/continuous slot screens due to the

increased open area. Jetting requires specialized equipment and concurrent pumping to prevent reintroducing fines into the filter pack. Additionally, jetting requires subsequent surging to remove fines dislodged in the filter pack and formation.

For most situations, gentle surging coupled with bailing or pumping to remove dislodged materials is recommended.

Well development for properly designed and constructed monitoring wells may begin after the annular seal materials have been installed and allowed to cure, since these wells are designed to retain 90-99% of the filter pack material. This cure time is typically at least 24 to 48 hours after the sealing materials have been installed.

This TGI is meant to provide a general guide for proper monitoring well development. A site-specific field implementation plan for well installation and development detailing the specific methods and tools should be developed to provide site-specific instruction and guidance.

### **3 PERSONNEL QUALIFICATIONS**

Monitoring well development activities will be performed by persons who have been trained in proper well development procedures under the guidance of an experienced field geologist, engineer, or technician.

### **4 EQUIPMENT LIST**

Required equipment depends on the selected method and should be detailed in the site-specific field implementation plan. However, the following are typically required.

- Health and safety equipment, as required by the site Health and Safety Plan (HASP):
- Cleaning equipment
- Field notebook and/or personal digital assistant (PDA)
- Monitoring well keys
- Water level indicator
- Field parameter meter (YSI)
- Well Development Logs
- Well construction logs/diagrams
- Weighted tape (measure depth)
- Turbidity meter
- Camera
- Watch/timing device.

## 5 CAUTIONS

Where surging is performed to assist in removing fine-grained material from the sand pack, surging must be performed in a gentle manner. Excessive suction could promote fine-grained sediment entry into the outside of the sand pack from the formation.

Avoid using development fluids or materials that could impact groundwater or soil quality, or could be incompatible with the subsurface conditions.

In some cases, it may be necessary to add potable water to a well to allow surging and development, especially for new monitoring wells installed in low permeability formations. Before adding potable water to a well, the Certified Project Manager (CPM) and/or Project Hydrogeologist must be notified and the CPM shall make the decision regarding the appropriateness and applicability of adding potable water to a well during well development procedures. If potable water is to be added to a well as part of development, the potable water source should be sampled and analyzed for constituents of concern, and the results evaluated by the CPM prior to adding the potable water to the well. If potable water is added to a well for development purposes, at the end of development the well will be purged dry to remove the potable water, or if the well no longer goes dry then the well will be purged to remove at least three times the volume of potable water that was added.

## 6 HEALTH AND SAFETY CONSIDERATIONS

Field activities associated with monitoring well development will be performed in accordance with a site-specific HASP, a copy of which will be present on site during such activities.

## 7 PROCEDURE

As indicated above, for most monitoring wells, gentle surging coupled with bailing or pumping to remove dislodged sediment is recommended.

- 1 Ensure sufficient time has passed to allow for proper curing of the well seal.
- 2 Don appropriate PPE (as required by the site-specific HASP).
- 3 Place plastic sheeting around the well.
- 4 Clean all equipment entering each monitoring well, except for new, disposable materials that have not been previously used.
- 5 Open the well cover while standing upwind of the well, remove well cap. Insert PID probe approximately 4 to 6 inches into the casing or the well headspace and cover with gloved hand. Record the PID reading in the field notebook. If the well headspace reading is less than 5 PID units, proceed; if the headspace reading is greater than 5 PID units, screen the air within the breathing zone. If the PID reading in the breathing zone is below 5 PID units, proceed. If the PID reading is above 5 PID units, move upwind from well for 5 minutes to allow the volatiles to dissipate. Repeat the breathing zone test. If the reading is still above 5 PID units, don the appropriate respiratory protection in accordance with the requirements of the HASP. Record all PID readings.

- 6 Obtain an initial measurement of the depth to water and the total well depth from the reference point at the top of the well casing. Record these measurements in the field log book. It is recommended to use a weighted tape for the total well depth measurement.
- 7 The depth to the bottom of the well should be sounded and then compared to the completion form or construction diagram for the well. Any discrepancies should be reported immediately to the CPM and/or Project Hydrogeologist. If sand or sediment is present inside the well, it should first be removed by bailing. Do not insert bailers, pumps, or surge blocks into the well if obstructions, parting of the casing, or other damage to the well is suspected. Instead report the conditions to the CPM and/or Project Hydrogeologist and obtain approval to continue or cease well development activities.
- 8 Lower a double surge block into the screened portion of the well. Starting from the bottom of the screen using 2 foot throws, gently raise and lower the surge block to force water in and out of the screen slots and sand pack. Continue surging for 15 to 30 minutes.
- 9 Lower a bottom-loading bailer, submersible pump, or inertia pump tubing with check valve to the bottom of the well and gently bounce on the bottom of the well to collect/remove accumulated sediment, if any. Remove and empty the bailer, if used. Repeat until the bailed/pumped water is free of excessive sediment and contact at the bottom of the well feels solid. Alternatively, measurement of the well depth with a weighted tape can be used to verify that sediment and/or silt has been removed to the extent practicable, based on a comparison with the well installation log or previous measurement of total well depth.
- 10 After surging the well for a minimum of two cycles and removing excess accumulated sediment from the bottom of the well, re-measure the depth-to-water and the total well depth from the reference point at the top of the well casing. Record these measurements in the field log book.
- 11 Remove formation water by pumping/bailing. Where pumping is used, measure and record the pre-pumping water level. Operate the pump at a relatively constant rate. Measure the pumping rate using a calibrated container and stop watch, and record the pumping rate in the field log book. Measure and record the water level in the well at least once every 5 minutes during pumping. Note any relevant observations in terms of water color, visual level of turbidity, sheen, odors, etc. Pump or bail until termination criteria specified in the Site-Specific Field Implementation plan are reached. Note: the project-specific field implementation plan may also specify a maximum turbidity requirement for completion of development. Unless otherwise specified the maximum turbidity should be 50 NTUs or less. Record the total volume of water purged from the well.
- 12 While developing, take periodic water level measurements (at least one every five minutes) to determine if drawdown is occurring and record the measurements on the Well Development Log.
- 13 While developing, calculate the rate at which water is being removed from the well. Record the volume on the Well Development Log.
- 14 While developing, water is also periodically collected directly from the well or bailer discharge and readings taken of the indicator parameters: pH, specific conductance, and temperature. Development is considered complete when the indicator parameters have stabilized (i.e., three consecutive pH, specific conductance, and temperature readings are within tolerances specified in the project work plans or within 10% if not otherwise specified), the extracted water is clear and free

of fine sediment and most importantly, when acceptable volume of water has been removed and/or a sufficient amount of surging has been performed.

- 15 In certain instances, for slow recharging wells, the parameters may not stabilize. In this case, well development is considered complete when minimal amounts of fine-grained sediments are recovered and acceptable volume of water has been removed.
- 16 If the well goes dry, stop pumping or bailing. Note the time that the well went dry. After allowing the well to recover, note the time and depth to water. Resume pumping or bailing when sufficient water has recharged the well.
- 17 Contain all development water in appropriate containers.
- 18 When complete, secure the lid back on the well.
- 19 Place disposable materials in plastic bags for appropriate disposal and decontaminate reusable, downhole pump components and/or bailer

## 8 WASTE MANAGEMENT

Materials generated during monitoring well installation and development will be placed in appropriate labeled containers and disposed of as described in the Work Plan/Field Implementation Plan or Field Sampling Plan.

## 9 DATA RECORDING AND MANAGEMENT

All well development activities should be documented on appropriate log forms as well as in a proper field notebook and/or PDA. Additionally, all documents (and photographs) should be scanned and electronically filed in the appropriate project directory for easy access. Pertinent information will include personnel present on site; times of arrival and departure; significant weather conditions; timing of well development activities; development method(s); observations of purge water color, turbidity, odor, sheen, etc.; purge rate; and water levels before, during, and after pumping.

## 10 QUALITY ASSURANCE

All reused, non-disposable, downhole well development equipment should be cleaned in accordance with the procedures outlined in the project documents.

## 11 REFERENCES

American Society for Testing Materials (ASTM), Designation D5521-05. *Standard Guide for Development of Ground-Water Monitoring Wells in Granular Aquifers*. American Society for Testing Materials. West Conshohocken, Pennsylvania.



# TGI - MONITORING WELL INSTALLATION

Rev #: 0

Rev Date: April 24, 2017



## VERSION CONTROL

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0	4/24/2017	All	Re-written as a TGI	Marc Killingstad Peter C. Frederick

## APPROVAL SIGNATURES

Prepared by:



Jay Erickson

4/20/17

Date:

Technical Expert Reviewed by:



Marc Killingstad

4/24/17

Date:

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## 2 SCOPE AND APPLICATION

This Technical Guidance Instruction (TGI) describes methods used to install groundwater monitoring wells in granular aquifers. It is assumed that the monitoring well has been properly designed, including sizing of the filter pack and screen, the length of the screen, total depth of the well, material strength and compatibility and surface completion. Typical monitoring wells are constructed of manufactured screen and engineered filter pack and are generally suitable for formations with granular materials having a grain size distribution with up to 50% passing a #200 sieve and up to 20% clay-sized material. Monitoring wells installed in formations finer than this may not be able to produce turbidity free water.

The monitoring well installation procedures set forth herein are consistent with the approach and methods presented in the American Society of Testing and Materials (ASTM) D5092 – *Standard Practice for Design and Installation of Groundwater Monitoring Wells* (ASTM D5092). As such, following this TGI in combination with proper well design (see appropriate TGI), well development (see appropriate TGI), groundwater sampling procedures (see appropriate TGI), and well maintenance and rehabilitation (see appropriate TGI), will result in a monitoring well suitable for: (1) collection of groundwater samples

representative of the surrounding formation and free of artificial turbidity; (2) measurement of accurate groundwater levels; and (3) hydraulic conductivity testing of formation sediments immediately adjacent to the open interval of the well (e.g., slug testing).

Monitoring well boreholes in unconsolidated (overburden) materials are typically drilled using the hollow-stem auger drilling method. Other drilling methods that are also suitable for installing overburden monitoring wells, and are sometimes necessary due to site-specific geologic conditions or project objectives, include: drive-and-wash, spun casing, Rotasonic, dual-rotary (Barber Rig), and fluid/mud rotary with core barrel or roller bit. Direct-push techniques (e.g., Geoprobe or cone penetrometer) and driven well points may also be used in some cases within the overburden. Monitoring wells to be installed within consolidated materials such as fractured bedrock are commonly drilled using water-rotary (coring or tri-cone roller bit), air rotary or Rotasonic methods. For guidance when installing monitoring wells in consolidated materials, please refer to the appropriate document. The drilling method to be used at a given site will be selected based on site-specific consideration of anticipated drilling/well depths, site or regional geologic knowledge, type of monitoring to be conducted using the installed well, project objectives, and cost.

No oils or grease will be used on equipment introduced into the boring (e.g., drill rod, casing, or sampling tools). No polyvinyl chloride (PVC) glue/cement will be used in constructing or retrofitting monitoring wells that will be used for water-quality monitoring. No coated bentonite pellets will be used in the well drilling or construction process. Specifications of materials to be installed in the borehole will be obtained prior to mobilizing onsite; these materials generally include:

- Well casing (length, material, and diameter);
- Well screen (length, material, diameter, and slot size);
- Bentonite (type, as applicable, chips, non-coated and granular bentonite are acceptable);
- Filter pack (filter pack type and fine sand seal type, as applicable); and
- Grout (type, as applicable).

Well materials will be inspected and, if needed, cleaned or replaced prior to installation.

### 3 PERSONNEL QUALIFICATIONS

Monitoring well installation activities will be performed by persons who have been trained in proper well installation procedures under the guidance of an experienced field geologist, engineer, or technician. Where field sampling is performed for soil or bedrock characterization, field personnel will have undergone in-field training in soil or bedrock description methods, as described in the appropriate Standard Operating Procedures (SOPs) and/or TGIs for those activities.

### 4 EQUIPMENT LIST

The following materials will be available during soil boring and monitoring well installation activities, as required:

- Site Plan with proposed soil boring/well locations;

- Work Plan (or equivalent), Field Sampling Plan (FSP), and site-specific Health and Safety Plan (HASP);
- Personal protective equipment (PPE), as required by the HASP;
- Traffic cones, delineators, caution tape, and/or fencing as appropriate for securing the work area, if such are not provided by drillers;
- Appropriate soil sampling equipment (e.g., stainless steel spatulas, knife);
- Soil and/or bedrock logging equipment as specified in the appropriate project documents;
- Appropriate sample containers and labels;
- Drum labels as required for investigation derived waste handling;
- Chain-of-custody forms;
- Insulated coolers with ice, when collecting samples requiring preservation by chilling;
- Photoionization detector (PID) or flame ionization detector (FID);
- Ziplock style bags;
- Water level or oil/water interface meter;
- Locks and keys for securing the well after installation;
- Decontamination equipment (bucket, distilled or deionized water, cleansers appropriate for removing expected chemicals of concern, paper towels);
- Engineer's tape/measuring wheel;
- Weighted tape;
- Disposable bailers;
- Digital camera (or phone with camera)
- Field notebook or Personal Digital Assistant (PDA); and
- Appropriate field forms, consider including a photo of the well head and a Google Earth map showing the well location.

Prior to mobilizing to the site, Arcadis personnel will contact the drilling subcontractor or in-house driller (as appropriate) to confirm that appropriate sampling and well installation equipment will be provided. Specifications of the sampling and well installation equipment are expected to vary by project, and so communication with the driller is necessary to ensure that the materials provided will meet the project objectives. Equipment/materials typically provided by the driller could include:

- Drilling equipment required by the ASTM standard guidance document D1586, when performing split-spoon sampling;
- Disposable plastic liners (when drilling with direct-push equipment);
- Drums for investigation derived waste;

- Drilling and sampling equipment decontamination materials;
- Decontamination pad materials, if required; and
- Well construction materials.

## 5 CAUTIONS

Prior to beginning field work, underground utilities in the vicinity of the drilling areas will be delineated by the drilling contractor or an independent underground utility locator service. See appropriate guidance for proper utility clearance protocol.

Prior to beginning field work, contact the project technical team to ensure that all field logistics (e.g., access issues, health and safety issues, communication network, schedules, etc.) and task objectives are clearly understood by all team members.

Some regulatory agencies require a minimum annular space between the well or permanent casing and the borehole wall. When specified, the minimum clearance is typically 2 inches on all sides (e.g., a 2-inch diameter well requires a 6-inch diameter borehole). In addition, some regulatory agencies have specific requirements regarding grout mixtures. Determine whether the oversight agency has any such requirements prior to finalizing the drilling and well installation plan.

If dense non-aqueous phase liquids (DNAPL) are known or expected to exist at the site, refer to the project specific documents for additional details regarding drilling and well installation to reduce the potential for inadvertent DNAPL remobilization.

Similarly, if light non-aqueous phase liquids (LNAPLs) are known or expected to be present as “perched” layers above the water table, refer to the DNAPL Contingency Plan. Follow the general provisions and concepts in the DNAPL contingency plan during drilling above the water table at known or expected LNAPL sites.

Avoid using drilling fluids or materials that could impact groundwater or soil quality, or could be incompatible with the subsurface conditions.

Similarly, consider the compatibility between the well materials and the surrounding environment. For example, PVC well materials are not preferred when DNAPL is present. In addition, some groundwater conditions leach metals from stainless steel or are corrosive to metal well materials. If questions arise, contact the CPM and/or project technical lead to discuss.

Water used for drilling and sampling of soil or bedrock, decontamination of drilling/sampling equipment, or grouting boreholes upon completion will be of a quality acceptable for project objectives. Testing of water supply should be considered.

Specifications of materials used for backfilling the borehole will be obtained, reviewed and approved to meet project quality objectives. Bentonite is not recommended where DNAPLs are likely to be present or in groundwater with high salinity. In these situations, neat cement grout is preferred.

As noted above, coated bentonite pellets will not be used in monitoring well construction, as the coating could impact the water quality in the completed well.

Heat of hydration during neat cement grout curing must be considered to avoid damage to PVC well materials. The annular space for a typical monitoring well is small enough that heat of hydration should not create excessive temperature increases which may damage PVC well material. However, washouts in the borehole can lead to thick accumulations of grout which can produce enough heat during curing to weaken and potentially damage PVC casing. If heat of hydration is a concern, contact the project technical lead to address the issue.

## 6 HEALTH AND SAFETY CONSIDERATIONS

Field activities associated with monitoring well installation will be performed in accordance with a site-specific HASP, a copy of which will be present on site during such activities.

## 7 PROCEDURE

The procedures for installing groundwater monitoring wells are presented below:

### **Hollow-Stem Auger, Drive-and-Wash, Spun Casing, Fluid/Mud Rotary, Rotasonic, and Dual-Rotary Drilling Methods**

1. Prior to monitoring well installation, determine the expected volumes of filter pack and seal materials including bentonite (if applicable) and grout (neat cement or cement-bentonite).
2. Locate boring/well location, establish work zone, and set up sampling equipment decontamination area.
3. Advance boring to desired depth. Collect soil and/or bedrock samples at appropriate interval as specified in the Work Plan (or equivalent) and/or FSP. Collect, document, and store samples for laboratory analysis as specified in the Work Plan and/or FSP. Decontaminate equipment between samples in accordance with the Work Plan (or equivalent) and/or FSP. A common sampling method that produces high-quality soil samples with relatively little soil disturbance is described in ASTM D1586 – *Standard Test Method for Penetration Test and Split-Barrel Sampling of Soils* (ASTM D1586). Split-spoon samples are obtained during drilling using hollow-stem auger, drive-and-wash, spun casing, and fluid/mud rotary. Rotasonic drilling produces soil cores that, for the most part, are relatively undisturbed, but note that when drilling in consolidated or finer-grained sediment the vibratory action during core barrel advancement may create secondary fractures or breaks. Dual-rotary removes cuttings by compressed air or water/mud and allow only a general assessment of geology.
4. Describe each soil sample as outlined in the appropriate project records. Record descriptions in the field notebook and/or personal digital assistant (PDA). It is also beneficial to photo document the samples. It should be noted that PDA logs must be electronically backed up and transferred to a location accessible to other project team members as soon as feasible to retain and protect the field data. During soil boring advancement, document all drilling events in field notebook, including blow counts (number of blows required to advance split-spoon sampler in 6-inch increments) and work stoppages. Blow counts will not be available if Rotasonic, dual-rotary, or direct-push methods are used.

5. If it is necessary to install a monitor well into a permeable zone below a confining layer, particularly if the deeper zone is believed to have water quality that differs significantly from the zone above the confining layer, then a telescopic well construction should be considered. In this case, the borehole is advanced approximately 3 to 5 feet into the top of the confining layer, and a permanent casing (typically PVC, black steel or stainless steel) is installed into the socket drilled into the top of the confining layer. The casing is then grouted in place. The preferred methods of grouting telescoping casings include: pressure-injection grouting using an inflatable packer installed temporarily into the base of the casing, such that grout is injected out the bottom of the casing until it is observed at ground surface outside the casing; displacement-method grouting (also known as the Halliburton method), which entails filling the casing with grout and displacing the grout out the bottom of the casing by pushing a drillable plug, typically made of wood to the bottom of the casing, following by tremie grouting the remainder of the annulus outside the casing; or tremie grouting the annulus surrounding the casing using a tremie pipe installed to the base of the borehole. In all three cases, the casing is grouted to the ground surface, and the grout is allowed to set prior to drilling deeper through the casing. Site-specific criteria and work plans should be created for the completion of non-standard monitoring wells, including telescopic wells.
6. Before installing a screened, it is important to confirm that the borehole has been advanced into the targeted saturated zone. This is particularly important for wells installed to monitor the water table and/or the shallow saturated zone, as the capillary fringe may cause soils above the water table to appear saturated. If one or more previously installed monitoring wells exist nearby, use the depth to water at such well(s) to estimate the water-table depth at the new borehole location.

To verify that the borehole has been advanced into the saturated zone, it is necessary to measure the water level in the borehole. For boreholes drilled without using water (e.g., hollow-stem auger, cable-tool, air rotary, air hammer), verify the presence of groundwater (and /or LNAPL, if applicable) in the borehole using an electronic water level probe, oil-water interface probe, or a new or decontaminated bailer. For boreholes drilled using water (e.g., drive and wash, spun-casing with roller-bit wash, Rotasonic, or water rotary with core or roller bit), monitor the water level in the borehole as it re-equilibrates to the static level. In low-permeability units like clay, fine-grained glacial tills, shale and other bedrock formations, it may be necessary to wait overnight to allow the water level to equilibrate. Document depth to water in the borehole on the appropriate field forms and field notebook. If there are questions concerning the depth of the well/screen interval, consult with the project technical lead prior to finalizing well depth/screen interval. To the extent practicable, ensure that the depth of the well below the apparent water table is deep enough so that the installed well can monitor groundwater year-round, accounting for seasonal water-table fluctuations. When in doubt, err on the side of slightly deeper well installation.

7. Upon completing the borehole to the desired depth, if a screened well construction is desired, install the monitoring well by lowering the screen and casing assembly with sump through the augers or casing. Monitoring wells typically will be constructed of 2-inch-diameter (although sometimes 4-inch), flush-threaded PVC or stainless steel slotted or wire wrapped well screen and blank riser casing. Smaller diameters may be used if wells are installed using direct-push methodology or if multiple wells are to be installed in a single borehole. The screen length will be specified in the Work Plan (or equivalent) or FSP based on regulatory requirements and specific monitoring objectives. Monitoring well screens are usually 5 to 10 feet long, but may be up to 25 feet long in very low permeability, thick

geologic formations. The screen length will depend on the purpose for the well and the objectives of the groundwater investigation and will (in most cases) be determined prior to the field mobilization.

The slot size and filter pack gradation should be predetermined in the Work Plan (or equivalent) or FSP and based on site-specific grain-size analysis (sieve analysis) or other geologic considerations or monitoring objectives. Typically, slot sizes for monitoring wells will range from 0.010 inches to 0.020 inches while the filter pack will be 20-40, Morie No. 0, or equivalent. In very fine-grained formations where sample turbidity needs to be minimized, it may be preferred to use a 0.006-inch slot size and 30-65, Morie No. 00, or equivalent filter pack. Alternatively, where monitoring wells are installed in coarse-grained deposits and higher well yield is required, a 0.020-inch slot size and 10-20, Morie No. 1, or equivalent filter pack may be preferred. If the screen slot size and filter pack have not been based on site-specific grain-size analysis, consider collecting soil samples during well installation so future wells can be properly designed.

A blank sump may be attached below the well screen if the well is being installed for DNAPL recovery/monitoring purposes. If so, the annular space around the sump may be backfilled with neat cement grout using a tremie to the bottom of the well screen prior to placing the filter pack around the screen. A blank riser will extend from the top of the screen to approximately 2.5 feet above grade or, if necessary, just below grade where conditions warrant a flush-mounted monitoring well. For wells greater than 50 feet deep, centralizers may be desired to assist in centering the monitoring well in the borehole during construction.

8. When the monitoring well assembly has been set in place and the grout has been placed around the sump (if any), place a washed silica filter pack in the annular space from the bottom of the boring to a height of 1 to 2 feet above the top of the well screen (following specifications in the Work Plan) using a tremie. The filter pack is placed and drilling equipment extracted in increments until the top of the sand pack is at the appropriate depth. Verify that the expected volume of filter pack matches with the actual amount installed. There can be differences due to irregularities in the borehole. Washout of the borehole will result in the need for greater than calculated well materials. If a difference of more than 10% is noted, consult with the project technical team. The filter pack will be consistent with the screen slot size and the soil particle size in the screened interval, as specified in the Work Plan (or equivalent) or FSP. The well should be gently surged to prevent filter pack material bridging and to settle the filter pack prior to well seal installation.
9. A hydrated bentonite seal (a minimum of 2 feet thick) will then be placed in the annular space above the sand pack (alternatively, in some cases a fine sand seal may be installed instead of bentonite—follow the specifications in the Work Plan). If non-hydrated bentonite is used, the bentonite should be permitted to hydrate in place for a minimum of 30 minutes before proceeding. *No coated bentonite pellets will be used in monitoring well drilling or construction.* Potable water may be added to hydrate the bentonite if the seal is above the water table. Monitor the placement of the sand pack and bentonite with a weighted tape measure.
10. During the extraction of the augers or casing, a cement/bentonite or neat cement grout will be placed in the annular space from the bentonite seal to a depth approximately 2 ft. below groundwater surface (bgs) or as specified in the Work Plan (or equivalent). As with the filter pack, it is recommended that seal material be placed with a tremie pipe. Ensure that seal materials are mixed at the proper ratios with water following manufacturer's recommendations.

11. Install the monitoring well completion as specified Work Plan (or equivalent). Typical completions are a locking, steel protective casing (extended at least 1.5 feet below grade and 2 feet above grade) over the riser casing and secure with a neat cement seal. Alternatively, for flush-mount completions, place a steel curb box with a bolt-down lid over the riser casing and secure with a neat cement seal. In either case, the cement seal will extend approximately 1.5 to 2.0 feet below grade and laterally at least 1 foot in all directions from the protective casing, and should slope gently away to promote drainage away from the well.
12. Monitoring wells should be labeled using indelible ink or paint with the appropriate designation on both the inner and outer well casings or inside of the curb box lid.
13. When an above-grade completion is used, the riser will be sealed using an expandable locking plug and the top of the well will be vented by drilling a small-diameter (1/8 inch) hole near the top of the well casing or through the locking plug, or by cutting a vertical slot in the top of the well casing. When a flush-mount installation is used, the riser will be sealed using an unvented, expandable locking plug.
14. During well installation, record construction details and actual measurements relayed by the drilling contractor and tabulate materials used (e.g., screen and riser footages; bags of bentonite, cement, and sand) in the field notebook as well as appropriate field forms.
15. After completing the well installation, lock the well, clean the area, and dispose of materials in accordance with the procedures outlined in Section 7 below.

#### **Direct-Push Method**

The direct-push drilling method may also be used to complete soil borings and install monitoring wells. Examples of this technique include the Diedrich ESP vibratory probe system, GeoProbe®, or AMS Power Probe® dual-tube system. Environmental probe systems typically use a hydraulically operated percussion hammer. Depending on the equipment used, the hammer delivers 140- to 350-foot pounds of energy with each blow. The hammer provides the force needed to penetrate very stiff to medium dense soil formations. The hammer simultaneously advances an outer steel casing that contains a dual-tube liner for sampling soil. The outside diameter (OD) of the outer casing ranges from 1.75 to 2.4 inches and the OD of the inner sampling tube ranges from 1.1 to 1.8 inches. The outer casing isolates shallow layers and permits the unit to continue to probe at depth. The double-rod system provides a borehole that may be tremie-grouted from the bottom up. Alternatively, the inside diameter (ID) of the steel casing provides clearance for the installation of small-diameter (e.g., 0.75- to 1-inch ID) micro-wells. The procedures for installing monitoring wells in soil using the direct-push method are described below.

1. Locate boring/well location, establish work zone, and set up sample equipment decontamination area.
2. Advance soil boring to designated depth, collecting samples at intervals specified in the Work Plan (or equivalent). Samples will be collected using dedicated, disposable, plastic liners. Describe samples in accordance with the procedures outlined in Step 3 above. Collect samples for laboratory analysis as specified in the Work Plan (or equivalent) and/or FSP.
3. Upon advancing the borehole to the desired depth, install the micro-well through the inner drill casing. The micro-well will consist of approximately 1-inch ID PVC or stainless steel slotted screen and blank riser. The sand pack, bentonite seal, and cement/bentonite grout will be installed as described, where applicable, in Steps 9 through 11 above.

4. Install protective steel casing or flush-mount, as appropriate, as described in Step 12 above. During well installation, record construction details and tabulate materials used in field notebook as well as appropriate field forms.
5. After completing the well installation, lock the well, clean the area, and dispose of materials in accordance with the procedures outlined in Section 8 below.

### **Driven Well Point Installation**

Well points will be installed by pushing or driving using a drilling rig or direct-push rig, or hand-driven where possible. The well point construction materials will consist of a 1- to 2-inch-diameter threaded steel casing with either 0.010- or 0.020-inch slotted stainless steel screen. The screen length will vary depending on the hydrogeologic conditions of the site. The casings will be joined together with threaded couplings and the terminal end will consist of a steel well point. Because they are driven or pushed to the desired depth, well points do not have annular backfill materials such as sand pack or grout.

## **8 WASTE MANAGEMENT**

Investigation-derived wastes (IDW), including soil cuttings and excess drilling fluids (if used), decontamination liquids, and disposable materials (well material packages, PPE, etc.), will be placed in clearly labeled, appropriate containers, or managed as otherwise specified in the Work Plan (or equivalent), FSP, and/or IDW management guidance document.

## **9 DATA RECORDING AND MANAGEMENT**

Drilling activities should be documented on appropriate field/log forms as well as in a proper field notebook and/or PDA. Additionally, all documents (and photographs) should be scanned and electronically filed in the appropriate project directory for easy access. Pertinent information will include personnel present on site, times of arrival and departure, significant weather conditions, timing of well installation activities, soil descriptions, well construction specifications (screen and riser material and diameter, sump length, screen length and slot size, riser length, sand pack type), and quantities of materials used. In addition, the locations of newly-installed wells will be documented photographically or in a site sketch. If appropriate, a measuring wheel or engineer's tape will be used to determine approximate distances between important site features.

The well location, ground surface elevation, and inner and outer casing elevations will be surveyed using the method specified in the site Work Plan (or equivalent). Generally, a local baseline control will be set up. This local baseline control can then be tied into the appropriate vertical and horizontal datum, such as the National Geodetic Vertical Datum of 1929 or 1988 and the State Plane Coordinate System. At a minimum, the elevation of the top of the inner casing used for water-level measurements should be measured to the nearest 0.01 foot. Elevations will be established in relation to the National Geodetic Vertical Datum of 1929. A permanent mark will be placed on top of the inner casing to mark the point for water-level measurements.

## 10 QUALITY ASSURANCE

All drilling equipment and associated tools (including augers, drill rods, sampling equipment, wrenches, and any other equipment or tools) that may have come in contact with soil will be cleaned in accordance with the procedures outlined in the appropriate SOP. Well materials will also be cleaned prior to well installation.

## 11 REFERENCES

American Society for Testing Materials (ASTM) D5092 - *Standard Practice for Design and Installation of Ground Water Monitoring Wells*. American Society for Testing Materials. West Conshohocken, Pennsylvania.

American Society of Testing and Materials (ASTM) D1586 - *Standard Test Method for Penetration Test and Split-Barrel Sampling of Soils*. American Society for Testing Materials. West Conshohocken, Pennsylvania.



# TGI - SOIL DESCRIPTION

Rev: #2

Rev Date: February 16, 2018



## VERSION CONTROL

Revision No	Revision Date	Page No(s)	Description	Reviewed by
0	May 20, 2008	17	Original SOP	Joe Quinnan Joel Hunt
1	September 2016	15	Updated to TGI	Nick Welty Patrick Curry
2	February 16, 2018	15	Updated descriptions, attachments and references in text	Nick Welty Patrick Curry

## APPROVAL SIGNATURES

Prepared by:



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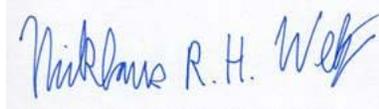
Patrick Curry, PG

June 30, 2017

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Date:

Technical Expert Reviewed by:



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Nicklaus Welty, PG

June 30, 2017

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Date:

## 1 INTRODUCTION

This document describes general and/or specific procedures, methods, actions, steps, and considerations to be used and observed by Arcadis staff when performing work, tasks, or actions under the scope and relevancy of this document. This document may describe expectations, requirements, guidance, recommendations, and/or instructions pertinent to the service, work task, or activity it covers.

It is the responsibility of the Arcadis Certified Project Manager (CPM) to provide this document to the persons conducting services that fall under the scope and purpose of this procedure, instruction, and/or guidance. The Arcadis CPM will also ensure that the persons conducting the work falling under this document are appropriately trained and familiar with its content. The persons conducting the work under this document are required to meet the minimum competency requirements outlined herein, and inquire to the CPM regarding any questions, misunderstanding, or discrepancy related to the work under this document.

This document is not considered to be all inclusive nor does it apply to all projects. It is the CPM's responsibility to determine the proper scope and personnel required for each project. There may be project- and/or client- and/or state-specific requirements that may be more or less stringent than what is described herein. The CPM is responsible for informing Arcadis and/or Subcontractor personnel of omissions and/or deviations from this document that may be required for the project. In turn, project staff are required to inform the CPM if or when there is a deviation or omission from work performed as compared to what is described herein.

In following this document to execute the scope of work for a project, it may be necessary for staff to make professional judgment decisions to meet the project's scope of work based upon site conditions, staffing expertise, regulation-specific requirements, health and safety concerns, etc. Staff are required to consult with the CPM when or if a deviation or omission from this document is required that has not already been previously approved by the CPM. Upon approval by the CPM, the staff can perform the deviation or omission as confirmed by the CPM.

## 2 SCOPE AND APPLICATION

This Arcadis Technical Guidance Instruction (TGI) describes proper soil description procedures. This TGI should be followed for unconsolidated material unless there is an established client-required specific procedure or regulatory-required specific procedure. In cases where there is a required specific procedure, it should be followed and should be referenced and/or provided as an appendix to reports that include soil classifications and/or boring logs. When following a required non-Arcadis procedure, additional information required by this TGI should be included in field notes with client approval.

This TGI has been developed to emphasize field observation and documentation of details required to:

- make hydrostratigraphic interpretations guided by depositional environment/geologic settings;
- provide information needed to understand the distribution of constituents of concern; properly design wells, piezometers, and/or additional field investigations; and develop appropriate remedial strategies.

This TGI incorporates elements from various standard systems such as ASTM D2488-06, Unified Soil Classification System, Burmister and Wentworth. However, none of these standard systems focus specifically on contaminant hydrogeology and remedial design. Therefore, although each of these

systems contain valuable guidance and information related to correct descriptions, strict application of these systems can omit information critical to our clients and the projects that we perform.

This TGI does not address details of health and safety; drilling method selection; boring log preparation; sample collection; or laboratory analysis. Refer to other Arcadis procedure, guidance, and instructional documents, the project work plans including the quality assurance project plan, sampling plan, and health and safety plan (HASP), as appropriate.

### **3 PERSONNEL QUALIFICATIONS**

Soil descriptions should only be performed by Arcadis personnel or authorized sub-contractors with a degree in geology or a geology-related discipline. Field personnel will complete training on the Arcadis soil description TGI in the office and/or in the field under the guidance of an experienced field geologist with at least 2 years of prior experience applying the Arcadis soil description method.

### **4 EQUIPMENT LIST**

The following equipment should be taken to the field to facilitate soil descriptions:

- field book, field forms or PDA to record soil descriptions;
- field book for supplemental notes;
- this TGI for Soil Descriptions and any project-specific procedure, guidance, and/or instructional documents (if required);
- field card showing Wentworth scale;
- Munsell® soil color chart;
- tape measure divided into tenths of a foot;
- stainless steel knife or spatula;
- hand lens;
- water squirt bottle;
- jar with lid;
- personal protective equipment (PPE), as required by the HASP; and
- digital camera

### **5 CAUTIONS**

Drilling and drilling-related hazards including subsurface utilities are discussed in other procedure documents and site-specific HASPs and are not discussed herein.

Soil samples may contain hazardous substances that can result in exposure to persons describing soils. Routes for exposure may include dermal contact, inhalation and ingestion. Refer to the project specific HASP for guidance in these situations.

## 6 HEALTH AND SAFETY CONSIDERATIONS

Field activities associated with soil sampling and description will be performed in accordance with a site-specific HASP, a copy of which will be present on site during such activities. Know what hazardous substances may be present in the soil and understand their hazards. Always avoid the temptation to touch soils with bare hands, detect odors by placing soils close to your nose, or tasting soils.

## 7 PROCEDURE

1. Select the appropriate sampling method to obtain representative samples in accordance with the selected sub-surface exploration method, e.g. split- spoon or Shelby sample for hollow-stem drilling, acetate sleeves for direct push, bagged core for sonic drilling, etc.
2. Proceed with field activities in required sequence. Although completion of soil descriptions is often not the first activity after opening sampler, identification of stratigraphic changes is often necessary to select appropriate intervals for field screening and/or selection of laboratory samples.
3. Set up boring log field sheet.
  - Drillers in both the US and Canada generally work in feet due to equipment specifications. Use the Arcadis standard boring log form (**Attachment A**).
  - The preferred boring log includes a graphic log of the principal soil component to support quick visual evaluation of grain size. The purpose of the graphic log is to quickly assess relative soil permeability. Note, for poorly sorted soils (e.g. glacial till), the principal component may not correlate to permeability of the sample. In this case, the geologist should use best judgement to graph overall soil type consistent with relative soil permeability. For example, for a dense sand/silt/clay till, the graphic log would reflect the silt/clay, rather than sand.
  - Record depths along the left-hand side at a standard scale to aid in the use of this tool. See an example completed boring log (**Attachment B**).
4. Examine each soil core (this is different than examining each sample selected for laboratory analysis), and record the following for each stratum:
  - depth interval;
  - principal component with descriptors, as appropriate;
  - amount and identification of minor component(s) with descriptors as appropriate;
  - moisture;
  - consistency/density;
  - color; and
  - additional description or comments (recorded as notes).
5. At the end of the boring, record the amount of drilling fluid used (if applicable) and the total depth logged.

The above is described more fully below.

## DEPTH

To measure and record the depth below ground surface (bgs) of top and bottom of each stratum, the following information should be recorded.

1. Measured depth to the top and bottom of sampled interval. Use starting depth of sample based upon measured tool length information and the length of sample interval.
2. Length of sample recovered, not including slough (material that has fallen into hole from previous interval), expressed as fraction with length of recovered sample as numerator over length of sampled interval as denominator (e.g. 14/24 for 14 inches recovered from 24-inch sampling interval that had 2 inches of slough discarded).
3. Thickness of each stratum measured sequentially from the top of recovery to the bottom of recovery.
4. Any observations of sample condition or drilling activity that would help identify whether there was loss from the top of the sampling interval, loss from the bottom of the sampling interval, or compression of the sampling interval. Examples: 14/24, gravel in nose of spoon; or 10/18 bottom 6 inches of spoon empty.

## DETERMINATION OF COMPONENTS

Obtain a representative sample of soil from a single stratum. If multiple strata are present in a single sample interval, each stratum should be described separately. More specifically, if the sample is from a 2-foot long split-spoon where strata of coarse sand, fine sand and clay are present, then the resultant description should be of the three individual strata unless a combined description can clearly describe the interbedded nature of the three strata. Example: Fine Sand with interbedded lenses of Silt and Clay, ranging between 1 and 3 inches thick.

Identify principal component and express volume estimates for minor components on logs using the following standard modifiers.

Modifier	Percent of Total Sample (by volume)
and	36 - 50
some	21 - 35
little	10 - 20
trace	<10

Determination of components is based on using the Udden-Wentworth particle size classification (see below) and measurement of the average grain size diameter. Each size grade or class differs from the next larger grade or class by a constant ratio of  $\frac{1}{2}$ . Due to visual limitations, the finer classifications of Wentworth's scale cannot be distinguished in the field and the subgroups are not included. Visual determinations in the field should be made carefully by comparing the sample to the Soil Description Field Guide (**Attachment C**) that shows Udden-Wentworth scale or by measuring with a ruler. Use of field sieves is encouraged to assist in estimating percentage of coarse grain sizes. Settling test or wash method (Appendix X4 of ASTM D2488) is encouraged for determining presence and estimating percentage of clay and silt. Note that "gravel" is not an Udden-Wentworth size class.

<b>Udden-Wentworth Scale Modified Arcadis, 2008</b>			
Size Class	Millimeters	Inches	Standard Sieve #
Boulder	256 – 4096	10.08+	
Large cobble	128 - 256	5.04 -10.08	
Small cobble	64 - 128	2.52 – 5.04	
Very large pebble	32 – 64	0.16 - 2.52	
Large pebble	16 – 32	0.63 – 1.26	
Medium pebble	8 – 16	0.31 – 0.63	
Small pebble	4 – 8	0.16 – 0.31	No. 5 +
Granule	2 – 4	0.08 – 0.16	No.5 – No.10
Very coarse sand	1 -2	0.04 – 0.08	No.10 – No.18
Coarse sand	½ - 1	0.02 – 0.04	No.18 - No.35
Medium sand	¼ - ½	0.01 – 0.02	No.35 - No.60
Fine sand	1/8 -¼	0.005 – 0.1	No.60 - No.120
Very fine sand	1/16 – 1/8	0.002 – 0.005	No. 120 – No. 230
Silt (subgroups not included)	1/256 – 1/16	0.0002 – 0.002	Not applicable (analyze by pipette or hydrometer)
Clay (subgroups not included)	1/2048 – 1/256	.00002 – 0.0002	

Identify components as follows. Remove particles greater than very large pebbles (64-mm diameter) from the soil sample. Record the volume estimate of the greater than very large pebbles. Examine the sample fraction of very large pebbles and smaller particles and estimate the volume percentage of the pebbles, granules, sand, silt and clay. Use the jar method, visual method, and/or wash method (Appendix X4 of ASTM D2488) to estimate the volume percentages of each category.

Determination of actual dry weight of each Udden-Wentworth fraction requires laboratory grain-size analysis using sieve sizes corresponding to Udden-Wentworth fractions and is highly recommended to determine grain-size distributions for each hydrostratigraphic unit.

Lab or field sieve analysis is advisable to characterize the variability and facies trends within each hydrostratigraphic unit. Field sieve-analysis can be performed on selected samples to estimate dry weight fraction of each category using ASTM D2488 Standard Practice for Classification of Soils for Engineering Purposes as guidance, but replace required sieve sizes with the following Udden-Wentworth set: U.S. Standard sieve mesh sizes 6; 12; 20; 40; 70; 140; and 270 to retain pebbles; granules; very coarse sand; coarse sand; medium sand; fine sand; and very fine sand, respectively.

## PRINCIPAL COMPONENT

The principal component is the size fraction or range of size fractions containing the majority of the volume. Examples: the principal component in a sample that contained 55% pebbles would be “Pebbles”; or the principal component in a sample that was 20% fine sand, 30% medium sand and 25% coarse sand would be “Sand, fine to coarse” or for a sample that was 40% silt and 45% clay the principal component would be “Clay and Silt”. Shade the boxes on the graphic log (**Attachment A**) up to and including the box with the principal component. The purpose of the graphical log is to provide a relative estimate of permeability. As noted above, for poorly sorted soils such as glacial till, the principal component may not correlate to permeability of the sample. In this case, the geologist should use best judgement to graph overall soil type consistent with relative soil permeability.

Include appropriate descriptors with the principal component. These descriptors vary for different particle sizes as follows.

Angularity – Describe the angularity for very coarse sand and larger particles in accordance with the table below (ASTM D-2488-06). Figures showing examples of angularity are available in ASTM D-2488-06 and the Arcadis Soil Description Field Guide.

Description	Criteria
Angular	Particles have sharp edges and relatively plane sides with unpolished surfaces.
Sub-angular	Particles are similar to angular description but have rounded edges.
Sub-rounded	Particles have nearly plane sides but have well-rounded corners and edges.
Rounded	Particles have smoothly curved sides and no edges.

Plasticity – Describe the plasticity for silt and clay based on observations made during the following test method (ASTM D-2488-06).

- As in the dilatancy test below, select enough material to mold into a ball about ½ inch (12 mm) in diameter. Mold the material, adding water if necessary, until it has a soft, but not sticky, consistency.
- Shape the test specimen into an elongated pat and roll by hand on a smooth surface or between the palms into a thread about 1/8 inch (3 mm) in diameter. If the sample is too wet to roll easily, it should be spread into a thin layer and allowed to lose some water by evaporation. Fold the sample threads and reroll repeatedly until the thread crumbles at a diameter of about 1/8 inch. The thread will crumble when the soil is near the plastic limit.

Description	Criteria
Non-plastic	A 1/8-inch (3 mm) thread cannot be rolled at any water content.
Low	The thread can barely be rolled, and the lump cannot be formed when drier than the plastic limit.
Medium	The thread is easy to roll and not much time is required to reach the plastic limit. The thread cannot be rerolled after reaching the plastic limit. The lump crumbles when drier than the plastic limit.
High	It takes considerable time rolling and kneading to reach the plastic limit. The thread can be rolled several times after reaching the plastic limit. The lump can be formed without crumbling when drier than the plastic limit.

Dilatancy – Describe the dilatancy for silt and silt-sand mixtures using the following field test method (ASTM D-2488-06).

- From the specimen select enough material to mold into a ball about ½ inch (12 mm) in diameter. Mold the material adding water if necessary, until it has a soft, but not sticky, consistency.
- Smooth the ball in the palm of one hand with a small spatula.
- Shake horizontally, striking the side of the hand vigorously with the other hand several times.
- Note the reaction of water appearing on the surface of the soil.
- Squeeze the sample by closing the hand or pinching the soil between the fingers, and note the reaction as none, slow, or rapid in accordance with the table below. The reaction is the speed with which water appears while shaking and disappears while squeezing.

Description	Criteria
None	No visible change in the specimen.
Slow	Water appears slowly on the surface of the specimen during shaking and does not disappear or disappears slowly upon squeezing.
Rapid	Water appears quickly on the surface of the specimen during shaking and disappears quickly upon squeezing.

Note that silt and silt-sand mixtures will be non-plastic and display dilatancy. Clay mixtures will have some degree of plasticity but do not typically react to dilatancy testing. Therefore, the tests outlined above can be used to differentiate between silt dominated and clay dominated soils.

**MINOR COMPONENT(S)**

The minor component(s) are the size fraction(s) containing less than 50% volume. Example: the identified components are estimated to be 60% medium sand to granules, 25% silt and clay; 15 % pebbles – there are two identified minor components: silt and clay; and pebbles.

Include a standard modifier to indicate percentage of minor components (see Table on Page 6) and the same descriptors that would be used for a principal component. Plasticity should be provided as a descriptor for clay and clay mixtures. Dilatancy should be provided for silt and silt mixtures. Angularity should be provided as a descriptor for pebbles and coarse sand. For the example above, the minor constituents with modifiers could be: some silt and clay, low plasticity; little medium to large pebbles, sub-round.

**SORTING**

Sorting is the opposite of grading, which is a commonly used term in the USCS or ASTM methods to describe the uniformity of the particle size distribution in a sample. Well-sorted samples are poorly graded and poorly sorted samples are well graded. Arcadis prefers the use of sorting for particle size distributions and grading to describe particle size distribution trends in the vertical profile of a sample or hydrostratigraphic unit because of the relationship between sorting and the energy of the depositional process. For soils with sand-sized or larger particles, sorting should be determined as follows:

Well sorted – the range of particle sizes is limited (e.g. the sample is comprised of predominantly one or two grain sizes).

Poorly sorted – a wide range of particle sizes are present.

You can also use sieve analysis to estimate sorting from a sedimentological perspective; sorting is the statistical equivalent of standard deviation. Smaller standard deviations correspond to higher degree of sorting (see Remediation Hydraulics, 2008).

**MOISTURE**

Moisture content should be described for every sample since increases or decreases in water content is critical information. Moisture should be described in accordance with the table below (percentages should not be used unless determined in the laboratory).

Description	Criteria
Dry	Absence of moisture, dry to touch, dusty.
Moist	Damp but no visible water.
Wet (Saturated)	Visible free water, soil is usually below the water table.

**CONSISTENCY or DENSITY**

This can be determined by standard penetration test (SPT) blow counts (ASTM D-1586) or field tests in accordance with the tables below. When drilling with hollow-stem augers and split-spoon sampling, the SPT blow counts and N-value is used to estimate density. The N-value is the blows per foot for the 6" to 18" interval. Example: for 24-inch spoon, recorded blows per 6-inch interval are: 4/6/9/22. Since the second interval is 6" to 12", the third interval is 12" to 18", the N value is 6+9, or 15. Fifty blow counts for less than 6 inches is considered refusal. In recent years, more common drilling methods include rotary-sonic or direct push. When blow counts are not available, density is determined using a thumb test. Note however, the thumb test only applies to fine-grained soils.

**Fine-grained soil – Consistency**

Description	Criteria
Very soft	N-value < 2 or easily penetrated several inches by thumb.
Soft	N-value 2-4 or easily penetrated one inch by thumb.
Medium stiff	N-value 9-15 or indented about ¼ inch by thumb with great effort.
Very stiff	N-value 16-30 or readily indented by thumb nail.
Hard	N-value > than 30 or indented by thumbnail with difficulty

**Coarse-grained soil – Density**

Description	Criteria
Very loose	N-value 1- 4
Loose	N-value 5-10
Medium dense	N-value 11-30
Dense	N-value 31- 50
Very dense	N-value >50

**COLOR**

Color should be described using simple basic terminology and modifiers based on the Munsell system. Munsell alpha-numeric codes are required for all samples. If the sample contains layers or patches of varying colors this should be noted and all representative colors should be described. The colors should be described for moist samples. If the sample is dry it should be wetted prior to comparing the sample to the Munsell chart.

**ADDITIONAL COMMENTS (NOTES)**

Additional comments should be made where observed and should be presented as notes with reference to a specific depth interval(s) to which they apply. Some of the significant information that may be observed includes the following.

- Odor - You should not make an effort to smell samples by placing near your nose since this can result in unnecessary exposure to hazardous materials. However, odors should be noted if they are detected during the normal sampling procedures. Odors should be based upon descriptors such as those used in NIOSH “Pocket Guide to Chemical Hazards”, e.g. “pungent” or “sweet” and should not indicate specific chemicals such as “phenol-like” odor or “BTEX” odor.
- Structure
- Bedding planes (laminated, banded, geologic contacts).
- Presence of roots, root holes, organic material, man-made materials, minerals, etc.
- Mineralogy
- Cementation
- NAPL presence/characteristics, including sheen (based on client-specific guidance).
- Reaction with HCl - typically only used for special soil conditions, such as caliche environments.
- Origin, if known (Lacustrine; Fill; etc.).

#### EXAMPLE DESCRIPTIONS



51.4 to 54.0' CLAY, some silt, medium to high plasticity; trace small to large pebbles, sub-round to sub-angular up to 2" diameter; moist, stiff, dark grayish brown (10 YR 4/2) NOTE: Lacustrine; laminated 0.1 to 0.2" thick, laminations brownish yellow (10 YR 4/3).



32.5 to 38.0' SAND, medium to very coarse, sub-round to sub-angular; little granule and pebble, trace silt; poorly sorted, wet, grayish brown (10 YR 5/2).

Unlike the first example where a density of cohesive soils could be estimated, this rotary-sonic sand and pebble sample was disturbed during drilling (due to vibrations in a loose sand and pebble matrix) so no density description could be provided. Neither sample had noticeable odor so odor comments were not included.

The standard generic description order is presented below.

- Depth
- Principal Components
  - Angularity for very coarse sand and larger particles
  - Plasticity for silt and clay
  - Dilatancy for silt and silt-sand mixtures
- Minor Components
- Sorting
- Moisture
- Consistency or Density
- Color
- Additional Comments

## 8 WASTE MANAGEMENT

Project-specific requirements should be identified and followed. The following procedures, or similar waste management procedures are generally required.

Water generated during cleaning procedures will be collected and contained onsite in appropriate containers for future analysis and appropriate disposal. PPE (such as gloves, disposable clothing, and other disposable equipment) resulting from personnel cleaning procedures and soil sampling/handling activities will be placed in plastic bags. These bags will be transferred into appropriately labeled 55-gallon drums or a covered roll-off box for appropriate disposal.

Soil materials will be placed in sealed 55-gallon steel drums or covered roll-off boxes and stored in a secured area. Once full, the material will be analyzed to determine the appropriate disposal method.

## 9 DATA RECORDING AND MANAGEMENT

Upon collection of soil samples, the soil sample should be logged on a standard boring log and/or in the field log book depending on Data Quality Objectives (DQOs) for the task/project. The preferred standard boring log is presented below and is included as **Attachment A**.

The general scheme for soil logging entries is presented above; however, depending on task/project DQOs, specific logging entries that are not applicable to task/project goals may be omitted at the project manager's discretion. In any case, use of a consistent logging procedure is required.

Completed logs and/or logbook will be maintained in the task/project field records file. Digital photographs of typical soil types observed at the site and any unusual features should be obtained whenever possible. All photographs should include a ruler or common object for scale. Photo location, depth and orientation must be recorded in the daily log or log book and a label showing this information in the photo is useful.

## 10 QUALITY ASSURANCE

Soil descriptions should be completed only by appropriately trained personnel. Descriptions should be reviewed by an experienced field geologist for content, format and consistency. Edited boring logs should be reviewed by the original author to assure that content has not changed.

## 11 REFERENCES

Arcadis Soil Description Field Guide, 2008.

Munsell® Color Chart – available from Forestry Suppliers, Inc.- Item 77341 “Munsell® Color Soil Color Charts.

Field Gauge Card that Shows Udden-Wentworth scale – available from Forestry Suppliers, Inc. – Item 77332 “Sand Grain Sizing Folder.”

ASTM D-1586, Test Method for Penetration Test and Split-Barrel Sampling of Soils.

ASTM D-2488-00, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)

United States Bureau of Reclamation. Engineering Geology Field Manual. United States Department of Interior, Bureau of Reclamation. <http://www.usbr.gov/pmts/geology/fieldmap.htm>.

Petrology of Sedimentary Rocks, Robert L. Folk, 1980, p. 1-48.

NIOSH Pocket Guide to Chemical Hazards.

Remediation Hydraulics, Fred C. Payne, Joseph A. Quinnan, and Scott T. Potter, 2008, p 59-63.

# ATTACHMENT A

## Arcadis Standard Soil Boring Log Form







# ATTACHMENT B

## Example of Completed Arcadis Soil Boring Log





# ATTACHMENT C

## Arcadis Soil Description Field Guide





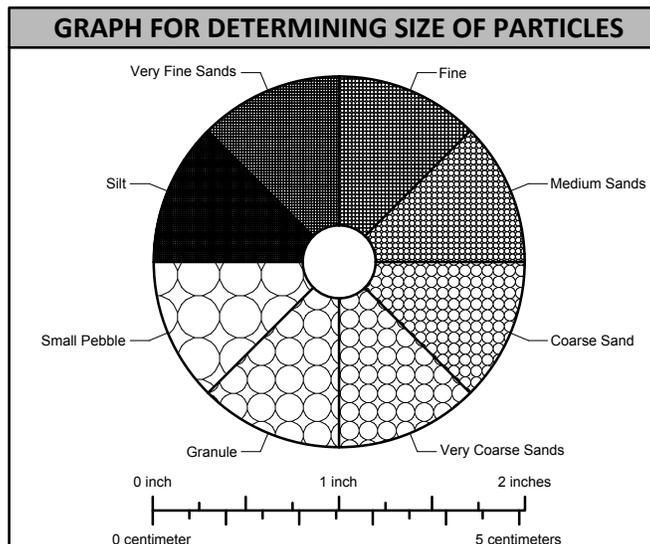
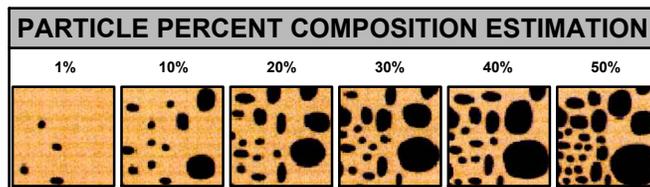
FINE-GRAINED SOILS	
Description	Criteria
<b>Descriptor - Plasticity</b>	
Nonplastic	A 1/8-inch (3mm) thread cannot be rolled at any moisture content.
Low	Thread can barely be rolled, and lump cannot be formed when drier than plastic limit.
Medium	Takes considerable time and rolling to reach plastic limit. Thread cannot be rolled after reaching plastic limit. Lump crumbles when drier than plastic limit.
High	Thread is easy to roll and quickly reaches plastic limit. Thread can be rerolled several times after reaching plastic limit. Lump can be formed without crumbling when drier than plastic limit.
<b>Descriptor - Dilatancy</b>	
No Dilatancy	No visible change when shaken or squeezed.
Slow	Water appears slowly on the surface of soil during shaking and does not disappear or disappears slowly when squeezed.
Rapid	Water appears quickly on surface of soil during shaking and disappears quickly when squeezed.
<b>Minor Components with Descriptors</b>	
<b>Moisture</b>	
Dry	Absence of moisture, dry to touch, dusty.
Moist	Damp but no visible water.
Wet	Visible free water; soil is usually below the water table. (Saturated)
<b>Consistency</b>	
Very soft	N-value < 2 or easily penetrated several inches by thumb.
Soft	N-value 2-4 or easily penetrated 1 inch by thumb.
Medium stiff	N-value 5-8 or indented about 1/2 inch by thumb with great effort.
Stiff	N-value 9-15 or indented about 1/4 inch by thumb with great effort.
Very stiff	N-value 16-30 or readily indented by thumb nail.
Hard	N-value > than 30 or indented by thumbnail with difficulty.
<b>Color using Munsell</b>	
<b>Geologic Origin (if known)</b>	
<b>Other</b>	

DESCRIPTION ORDER
Depth Interval Principal Components with Descriptors Minor Components with Descriptors Sorting Field Moisture Condition Density/Consistency Color using Munsell Geologic Origin (if known) Other descriptions as NOTES: - Odor - Stratigraphy - Structure - Sphericity - Cementation - Reaction to acid

MINOR COMPONENTS % MODIFIERS	
Modifier	Percent of Total Sample (by volume)
and	36 - 50
some	21 - 35
little	10 - 20
trace	<10

FOR COARSE-GRAINED SOILS	
Description	Criteria
<b>Descriptor - Angularity</b>	
Angular	Particles have sharp edges and relatively planar sides with unpolished surfaces.
Subangular	Particles are similar to angular but have rounded edges.
Subround	Particles have nearly planar sides but have well-rounded corners and edges.
Round	Particles have smoothly curved sides and no edges.
<b>Minor Components with Descriptors</b>	
<b>Sorting</b> Cu= d60/d10	
Well Sorted	Near uniform grain-size distribution Cu= 1 to 3.
Poorly Sorted	Wide range of grain size Cu= 4 to 6.
<b>Moisture</b>	
Dry	Absence of moisture, dry to touch, dusty.
Moist	Damp but no visible water.
Wet	Visible free water; soil is usually below the water table. (Saturated)
<b>Density</b>	
Very loose	N-value 1 - 4
Loose	N-value 5 - 10
Medium Dense	N-value 11 - 30
Dense	N-value 31 - 50
Very dense	N-value >50
<b>Color using Munsell</b>	
<b>Geologic Origin (if known)</b>	
<b>Other</b>	
<b>Cementation</b>	
Weak Cementation	Crumbles or breaks with handling or little finger pressure.
Moderate Cementation	Crumbles or breaks with considerable finger pressure.
Strong Cementation	Will not crumble with finger pressure.
<b>Reaction with Dilute HCl Solution (10%)</b>	
No Reaction	No visible reaction.
Weak Reaction	Some reaction, with bubbles forming slowly.
Strong Reaction	Violent reaction, with bubbles forming immediately.

UDDEN-WENTWORTH SCALE			
Fraction	Sieve Size	Grain Size	Approximate Scale
Boulder		256 - 4096 mm	Larger than volleyball
Large Cobble		128 - 256 mm	Softball to volleyball
Small Cobble		64 - 128 mm	Pool ball to softball
Very Large Pebble		32 - 64 mm	Pinball to pool ball
Large Pebble		16 - 32 mm	Dime size to pinball
Medium Pebble		8 - 16 mm	Pencil eraser to dime size
Small Pebble	No. 5+	4 - 8 mm	Pea size to pencil eraser
Granule	No. 10 - 5	2 - 4 mm	Rock salt to pea size
Very Coarse Sand	No. 18 - 10	1 - 2 mm	See field gauge card
Coarse Sand	No. 35 - 18	0.5 - 1 mm	See field gauge card
Medium Sand	No. 60 - 35	0.25 - 0.5 mm	See field gauge card
Fine Sand	No. 120 - 60	0.125 - 0.25 mm	See field gauge card
Very Fine Sand	No. 230 - 120	0.0625 - 0.125 mm	See field gauge card
Silt and Clay. See SOP for description of fines	Not Applicable	<0.0625 mm	Analyze by pipette or hydrometer

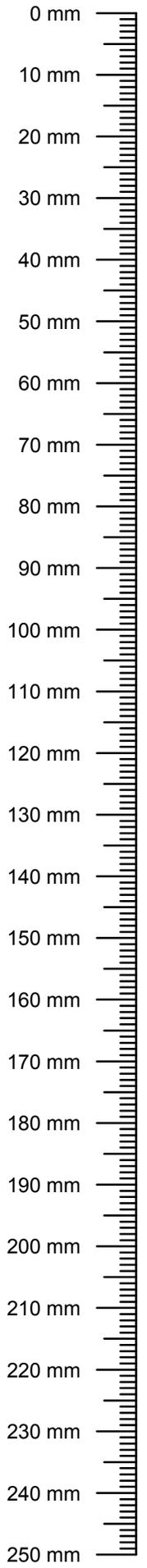
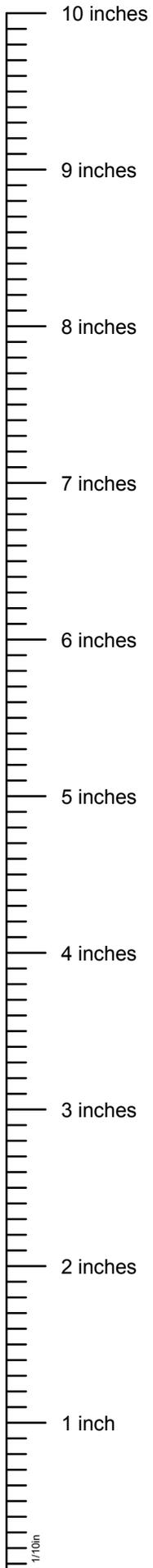


**EXAMPLE OF SOIL DESCRIPTION AND PHOTO**

10-15 feet CLAY, medium to high plasticity; trace silt; trace small to very large pebbles, subround to subangular up to 2" diameter; moist, stiff, dark grayish brown (10YR 4/2). NOTE: Lacustrine; laminated 0.1 to 0.2" thick, laminations brownish yellow (10YR 4/3).

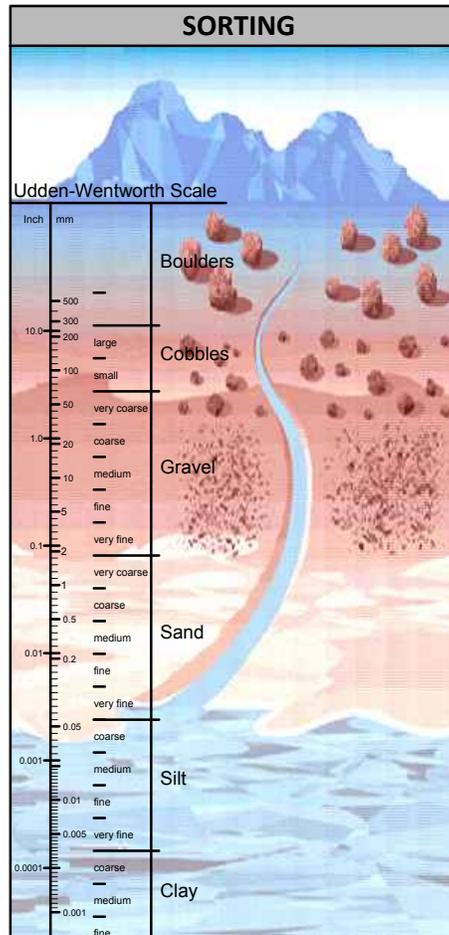
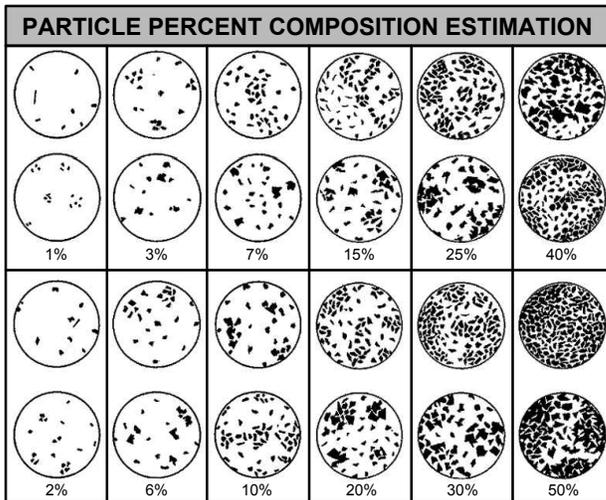
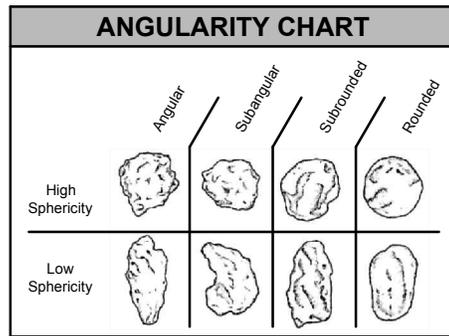
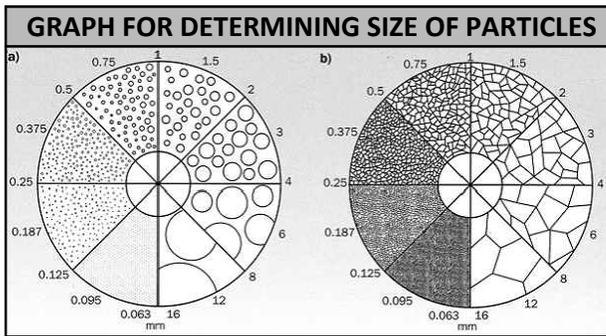
**EXAMPLE OF SOIL DESCRIPTION AND PHOTO**

10-15 feet SAND, medium to very coarse; little granules to medium pebbles, subround to subangular; trace silt; poorly sorted, wet, grayish brown (10YR5/2).



VARIATIONS IN SOIL STRATIGRAPHY	
Term	Thickness of Configuration
Parting	0 - to 1/16-inch thickness.
Seam	1/16 - to 1/2-inch thickness.
Layer	1/2 - to 12-inch thickness.
Stratum	> 12-inch thickness.
Pocket	Small erratic deposit, usually less than 1 foot in size.
Varved Clay	Alternating seams or layers of sand, silt, and clay (laminated).
Occasional	≤ 1 foot thick.
Frequent	> 1 foot thick.

SOIL STRUCTURE DESCRIPTIONS	
Term	Description
Homogeneous	Same color and appearance throughout.
Laminated	Alternating layers < 1/4 inch thick.
Stratified	Alternating layers ≥ 1/4 inch thick.
Lensed	Inclusions of small pockets of different materials, such as lenses of sand scattered through a mass of clay; note thickness.
Blocky	Cohesive soil can be broken down into small angular lumps, which resist further breakdown.
Fissured	Breaks along definite planes of fracture with little resistance to fracturing.
Slickensided	Fracture planes appear to be polished or glossy, sometimes striated.



SETTLING TABLE (SILT/CLAY)							
Diameter of Particle (mm)	<0.625	<0.031	<0.016	<0.008	<0.004	<0.002	<0.0005
Depth of Withdrawal (cm)	10	10	10	10	5	5	3
Time of Withdrawal	hr:min:sec						
Temperature (Celsius)							
20	00:00:29	00:01:55	00:07:40	00:30:40	00:61:19	04:05:00	37:21:00
21	00:00:28	00:01:52	00:07:29	00:29:58	00:59:50	04:00:00	
22	00:00:27	00:01:50	00:07:18	00:29:13	00:58:22	03:54:00	
23	00:00:27	00:01:47	00:07:08	00:28:34	00:57:05	03:48:00	
24	00:00:26	00:01:45	00:06:58	00:27:52	00:55:41	03:43:00	33:56:00
25	00:00:25	00:01:42	00:06:48	00:27:14	00:54:25	03:38:00	
26	00:00:25	00:01:40	00:06:39	00:26:38	00:53:12	03:33:00	
27	00:00:24	00:01:38	00:06:31	00:26:02	00:52:02	03:28:00	
28	00:00:24	00:01:35	00:06:22	00:25:28	00:50:52	03:24:00	31:00:00
29	00:00:23	00:01:33	00:06:13	00:24:53	00:49:42	03:10:00	
30	00:00:23	00:01:31	00:06:06	00:24:22	00:48:42	03:05:00	

# APPENDIX G

## Terrestrial Ecological Evaluation





# Voluntary Cleanup Program

## Washington State Department of Ecology Toxics Cleanup Program

### TERRESTRIAL ECOLOGICAL EVALUATION FORM

Under the Model Toxics Control Act (MTCA), a terrestrial ecological evaluation is necessary if hazardous substances are released into the soils at a Site. In the event of such a release, you must take one of the following three actions as part of your investigation and cleanup of the Site:

1. Document an exclusion from further evaluation using the criteria in WAC 173-340-7491.
2. Conduct a simplified evaluation as set forth in WAC 173-340-7492.
3. Conduct a site-specific evaluation as set forth in WAC 173-340-7493.

When requesting a written opinion under the Voluntary Cleanup Program (VCP), you must complete this form and submit it to the Department of Ecology (Ecology). The form documents the type and results of your evaluation.

**Completion of this form is not sufficient to document your evaluation. You still need to document your analysis and the basis for your conclusion in your cleanup plan or report.**

If you have questions about how to conduct a terrestrial ecological evaluation, please contact the Ecology site manager assigned to your Site. For additional guidance, please refer to <https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Terrestrial-ecological-evaluation>.

#### Step 1: IDENTIFY HAZARDOUS WASTE SITE

Please identify below the hazardous waste site for which you are documenting an evaluation.

Facility/Site Name: Texaco 211577 Monterey Cleanup Site - Roystone Redevelopment

Facility/Site Address: 631 Queen Anne Avenue North, Seattle, Washington

Facility/Site No: 77774779

VCP Project No.: Agreed Order (in progress)

#### Step 2: IDENTIFY EVALUATOR

Please identify below the person who conducted the evaluation and their contact information.

Name: Jerry Sawetz

Title: Project Manager

Organization: Riley Group, Inc.

Mailing address: 17522 Bothell Way Northeast

City: Bothell

State: WA

Zip code: 98011

Phone: 425-415-0551

Fax: 425-415-0311

E-mail: [jsawetz@riley-group.com](mailto:jsawetz@riley-group.com)

### Step 3: DOCUMENT EVALUATION TYPE AND RESULTS

#### A. Exclusion from further evaluation.

##### 1. Does the Site qualify for an exclusion from further evaluation?

- Yes *If you answered "YES," then answer **Question 2**.*
- No or Unknown *If you answered "NO" or "UNKNOWN," then skip to **Step 3B** of this form.*

##### 2. What is the basis for the exclusion? Check all that apply. Then skip to **Step 4** of this form.

Point of Compliance: WAC 173-340-7491(1)(a)

- All soil contamination is, or will be,\* at least 15 feet below the surface.
- All soil contamination is, or will be,\* at least 6 feet below the surface (or alternative depth if approved by Ecology), and institutional controls are used to manage remaining contamination.

Barriers to Exposure: WAC 173-340-7491(1)(b)

- All contaminated soil, is or will be,\* covered by physical barriers (such as buildings or paved roads) that prevent exposure to plants and wildlife, and institutional controls are used to manage remaining contamination.

Undeveloped Land: WAC 173-340-7491(1)(c)

- There is less than 0.25 acres of contiguous<sup>#</sup> undeveloped<sup>±</sup> land on or within 500 feet of any area of the Site and any of the following chemicals is present: chlorinated dioxins or furans, PCB mixtures, DDT, DDE, DDD, aldrin, chlordane, dieldrin, endosulfan, endrin, heptachlor, heptachlor epoxide, benzene hexachloride, toxaphene, hexachlorobenzene, pentachlorophenol, or pentachlorobenzene.
- For sites not containing any of the chemicals mentioned above, there is less than 1.5 acres of contiguous<sup>#</sup> undeveloped<sup>±</sup> land on or within 500 feet of any area of the Site.

Background Concentrations: WAC 173-340-7491(1)(d)

- Concentrations of hazardous substances in soil do not exceed natural background levels as described in WAC 173-340-200 and 173-340-709.

\* An exclusion based on future land use must have a completion date for future development that is acceptable to Ecology.

± "Undeveloped land" is land that is not covered by building, roads, paved areas, or other barriers that would prevent wildlife from feeding on plants, earthworms, insects, or other food in or on the soil.

# "Contiguous" undeveloped land is an area of undeveloped land that is not divided into smaller areas of highways, extensive paving, or similar structures that are likely to reduce the potential use of the overall area by wildlife.

**B. Simplified evaluation.**

**1. Does the Site qualify for a simplified evaluation?**

- Yes *If you answered "YES," then answer **Question 2** below.*
- No or Unknown *If you answered "NO" or "UNKNOWN," then skip to **Step 3C** of this form.*

**2. Did you conduct a simplified evaluation?**

- Yes *If you answered "YES," then answer **Question 3** below.*
- No *If you answered "NO," then skip to **Step 3C** of this form.*

**3. Was further evaluation necessary?**

- Yes *If you answered "YES," then answer **Question 4** below.*
- No *If you answered "NO," then answer **Question 5** below.*

**4. If further evaluation was necessary, what did you do?**

- Used the concentrations listed in Table 749-2 as cleanup levels. *If so, then skip to **Step 4** of this form.*
- Conducted a site-specific evaluation. *If so, then skip to **Step 3C** of this form.*

**5. If no further evaluation was necessary, what was the reason? Check all that apply. Then skip to **Step 4** of this form.**

Exposure Analysis: WAC 173-340-7492(2)(a)

- Area of soil contamination at the Site is not more than 350 square feet.
- Current or planned land use makes wildlife exposure unlikely. Used Table 749-1.

Pathway Analysis: WAC 173-340-7492(2)(b)

- No potential exposure pathways from soil contamination to ecological receptors.

Contaminant Analysis: WAC 173-340-7492(2)(c)

- No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations that exceed the values listed in Table 749-2.
- No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations that exceed the values listed in Table 749-2, and institutional controls are used to manage remaining contamination.
- No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays.
- No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays, and institutional controls are used to manage remaining contamination.

**C. Site-specific evaluation.** A site-specific evaluation process consists of two parts: (1) formulating the problem, and (2) selecting the methods for addressing the identified problem. Both steps require consultation with and approval by Ecology. See WAC 173-340-7493(1)(c).

**1. Was there a problem?** See WAC 173-340-7493(2).

- Yes *If you answered “YES,” then answer **Question 2** below.*
- No *If you answered “NO,” then identify the reason here and then skip to **Question 5** below:*
  - No issues were identified during the problem formulation step.
  - While issues were identified, those issues were addressed by the cleanup actions for protecting human health.

**2. What did you do to resolve the problem?** See WAC 173-340-7493(3).

- Used the concentrations listed in Table 749-3 as cleanup levels. *If so, then skip to **Question 5** below.*
- Used one or more of the methods listed in WAC 173-340-7493(3) to evaluate and address the identified problem. *If so, then answer **Questions 3 and 4** below.*

**3. If you conducted further site-specific evaluations, what methods did you use?**

*Check all that apply. See WAC 173-340-7493(3).*

- Literature surveys.
- Soil bioassays.
- Wildlife exposure model.
- Biomarkers.
- Site-specific field studies.
- Weight of evidence.
- Other methods approved by Ecology. If so, please specify:

**4. What was the result of those evaluations?**

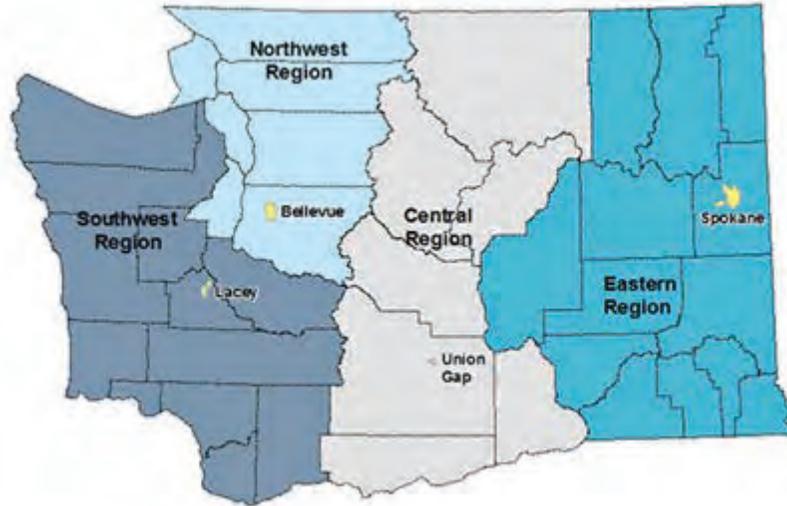
- Confirmed there was no problem.
- Confirmed there was a problem and established site-specific cleanup levels.

**5. Have you already obtained Ecology’s approval of both your problem formulation and problem resolution steps?**

- Yes *If so, please identify the Ecology staff who approved those steps:*
- No

## Step 4: SUBMITTAL

Please mail your completed form to the Ecology site manager assigned to your Site. If a site manager has not yet been assigned, please mail your completed form to the Ecology regional office for the County in which your Site is located.



<b>Northwest Region:</b> Attn: VCP Coordinator 3190 160 <sup>th</sup> Ave. SE Bellevue, WA 98008-5452	<b>Central Region:</b> Attn: VCP Coordinator 1250 West Alder St. Union Gap, WA 98903-0009
<b>Southwest Region:</b> Attn: VCP Coordinator P.O. Box 47775 Olympia, WA 98504-7775	<b>Eastern Region:</b> Attn: VCP Coordinator N. 4601 Monroe Spokane WA 99205-1295

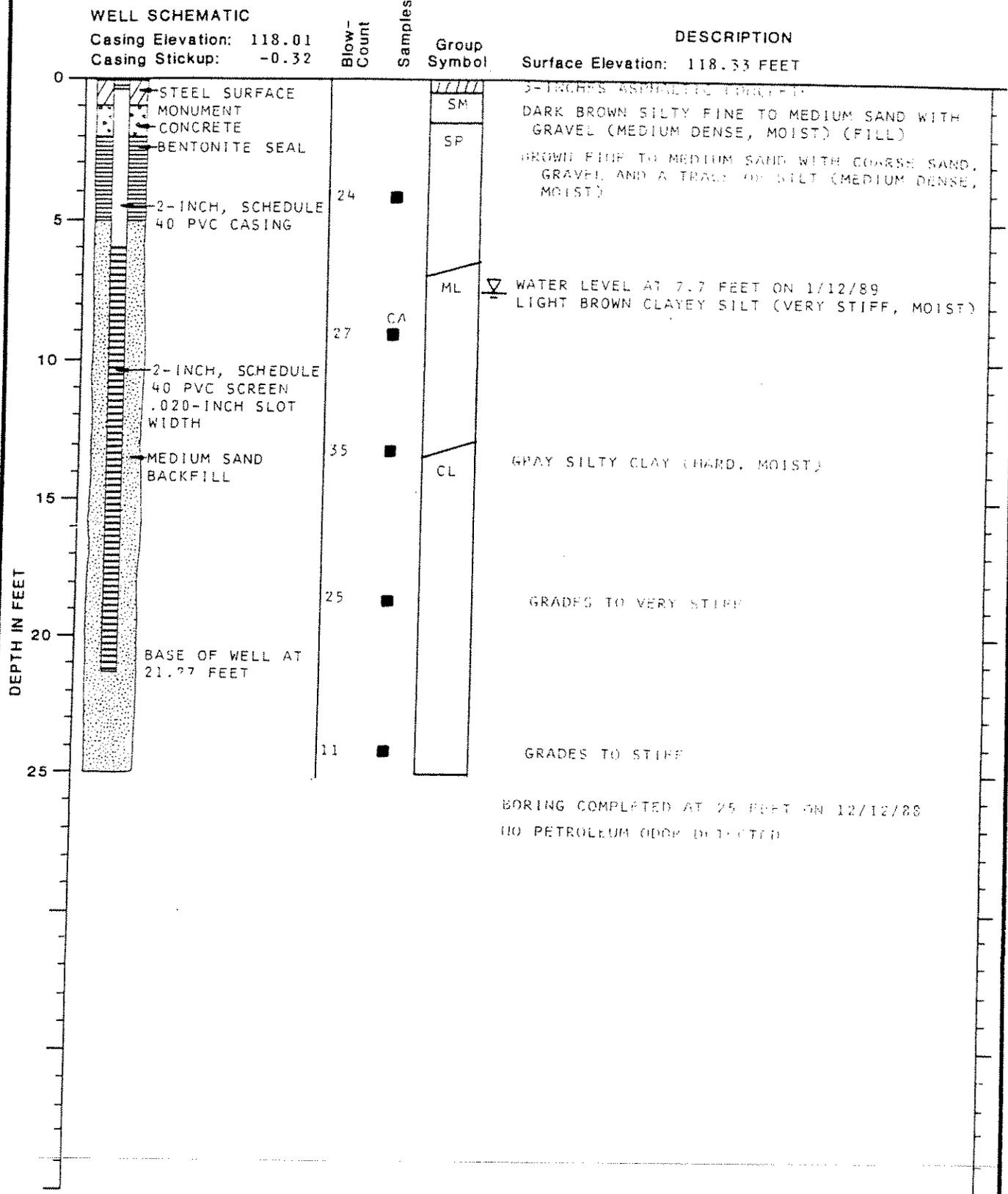
If you need this publication in an alternate format, please call the Toxics Cleanup Program at 360-407-7170. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call 877-833-6341.

# APPENDIX H

Unocal 306568 Boring Logs



# MONITOR WELL NO. MW-1U



Note: See Figure A-2 for Explanation of Symbols



LOG OF MONITOR WELL

FIGURE A-3

DATE: 12/27/83

# MONITOR WELL NO. MW-2U

## WELL SCHEMATIC

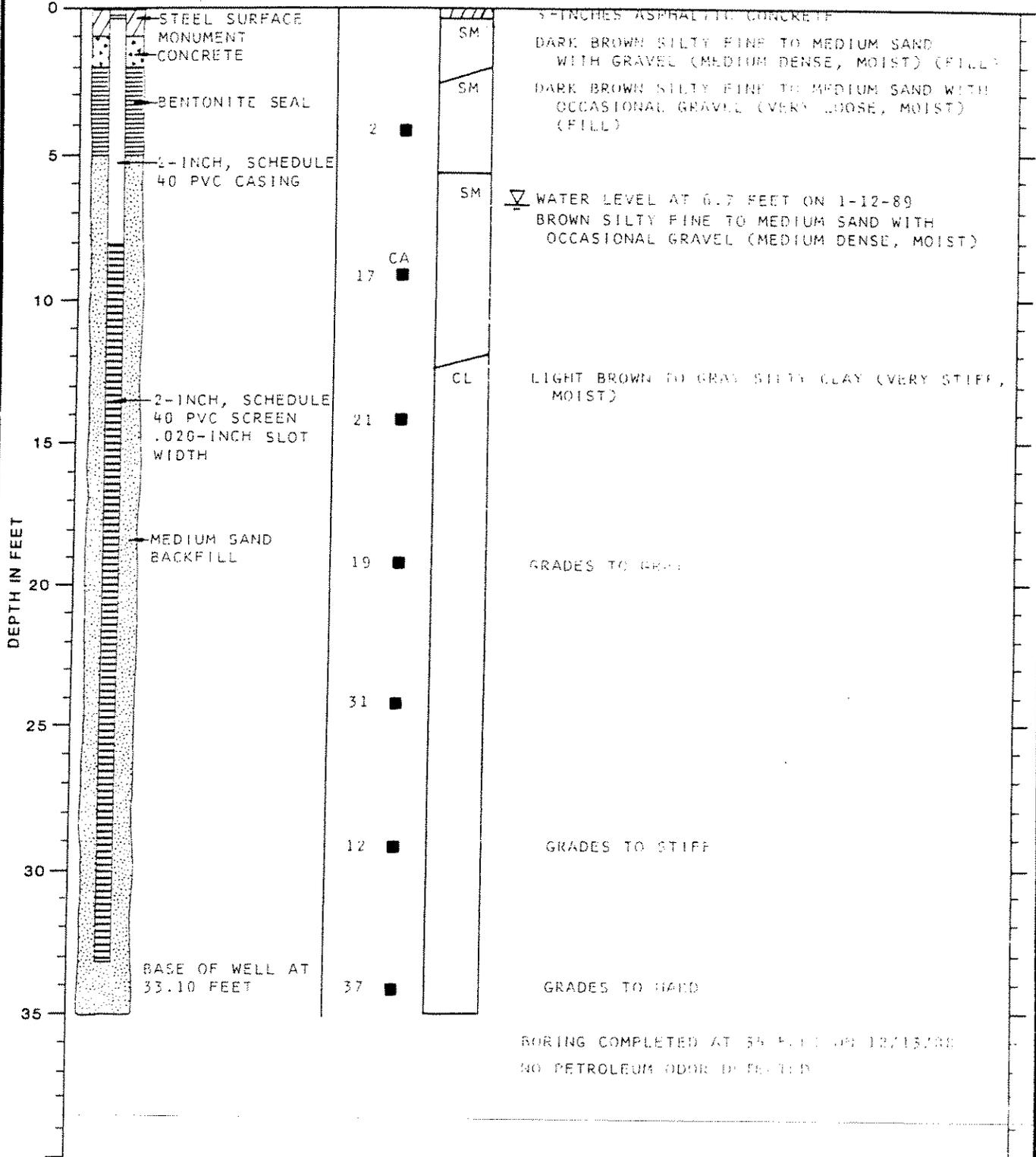
Casing Elevation: 117.29  
 Casing Stickup: -0.40

Blow-  
Count

Samples  
Group  
Symbol

## DESCRIPTION

Surface Elevation: 117.69 FEET



Note: See Figure A-2 for Explanation of Symbols

BORING COMPLETED AT 35 FEET ON 12/15/88  
 NO PETROLEUM ODOUR DETECTED

DATE: 12/27/88



# MONITOR WELL NO. MW-4U

## WELL SCHEMATIC

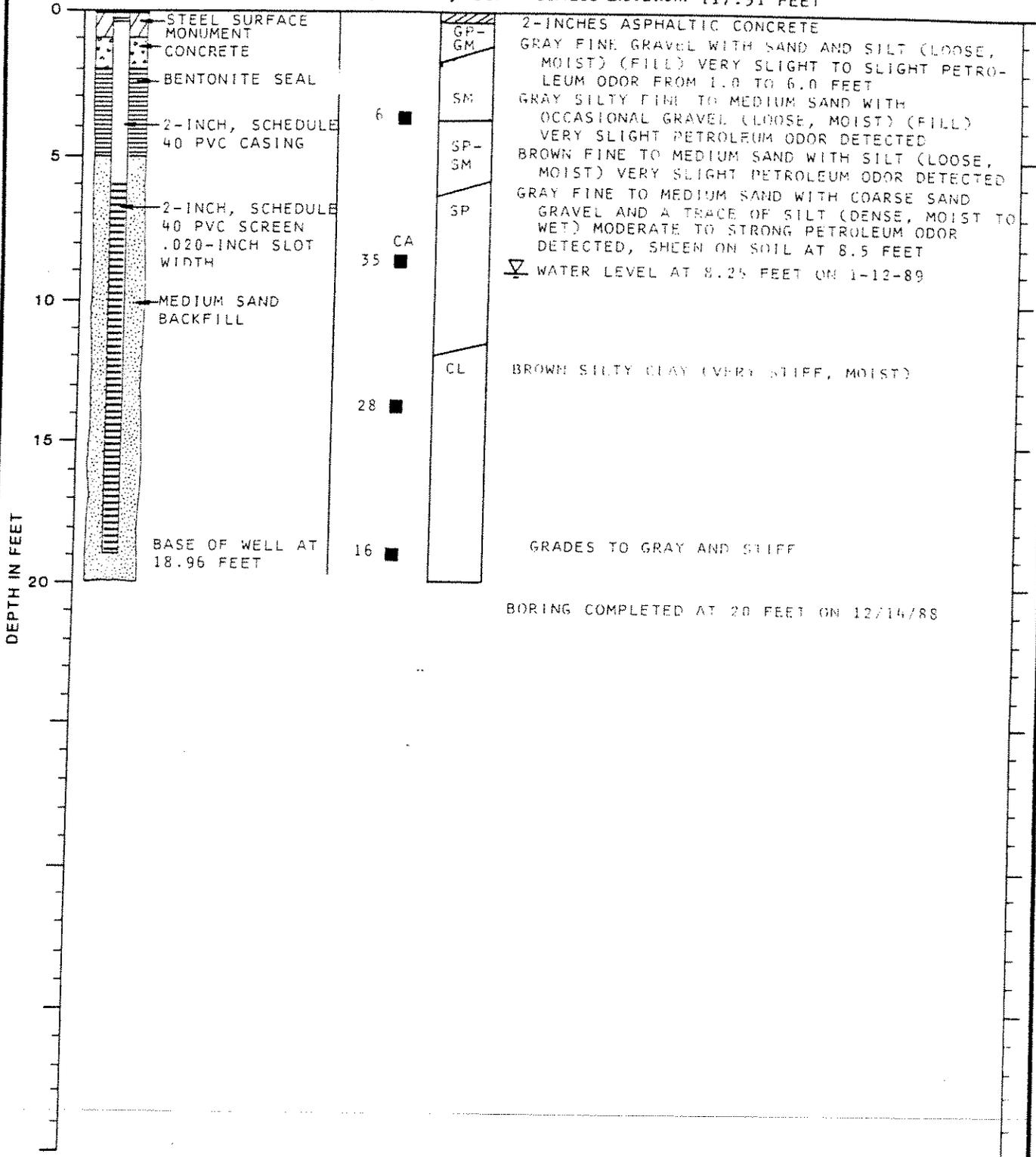
Casing Elevation: 117.05  
Casing Stickup: -0.46

Blow-  
Count  
Samples

Group  
Symbol

## DESCRIPTION

Surface Elevation: 117.51 FEET



Note: See Figure A-2 for Explanation of Symbols



LOG OF MONITOR WELL

FIGURE A-6

## MONITORING WELL NO. MW-5U

### WELL SCHEMATIC

Casing Elevation (ft.): 118.73  
 Casing Stickup (ft.): -0.35

Vapor  
 Conc. (ppm)  
 Sheen

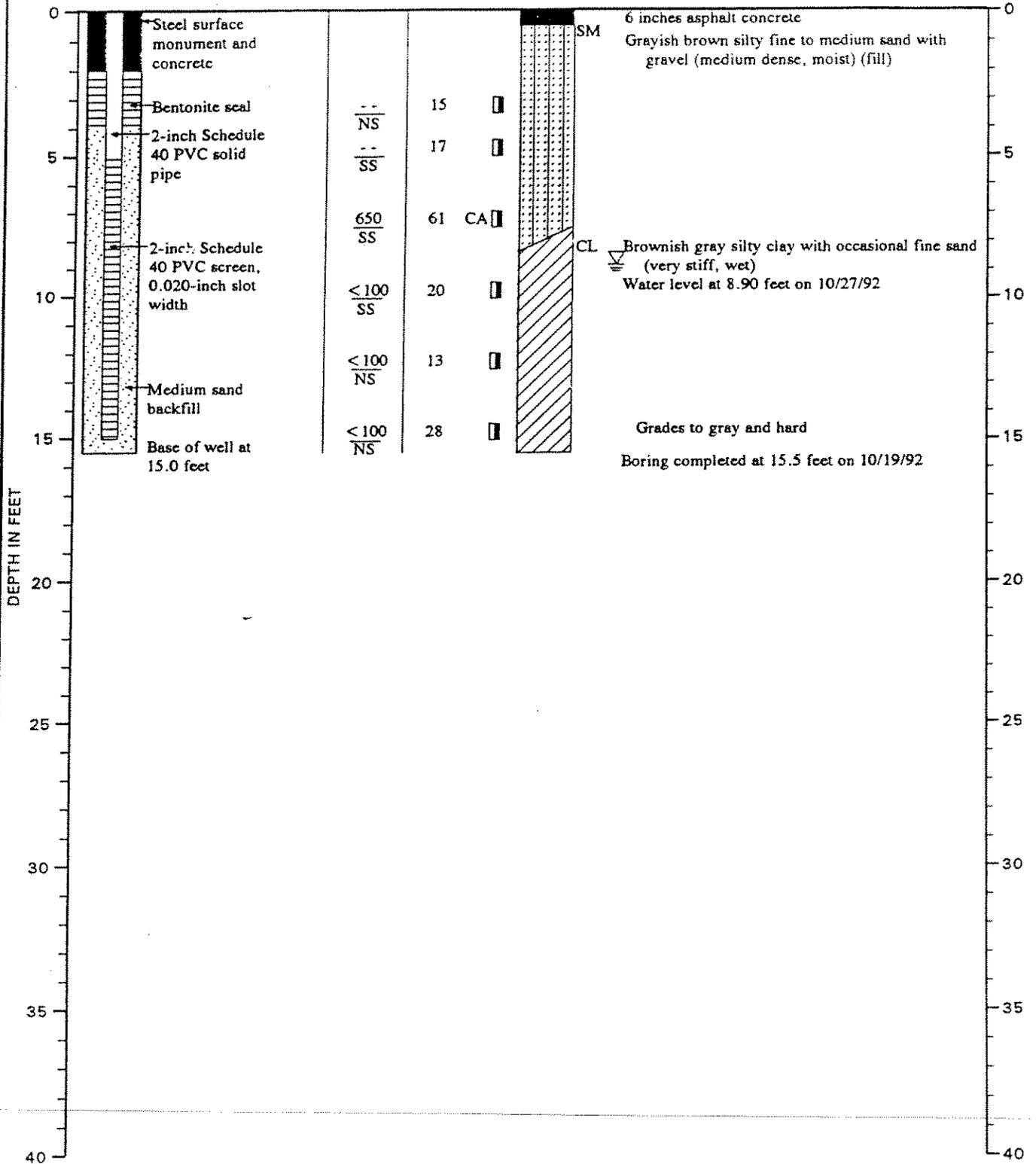
Blow  
 Count

Samples

Group  
 Symbol

### DESCRIPTION

Surface Elevation (ft.): 119.08



Note: See Figure A-2 for explanation of symbols

**MONITORING WELL NO. MW-6U**

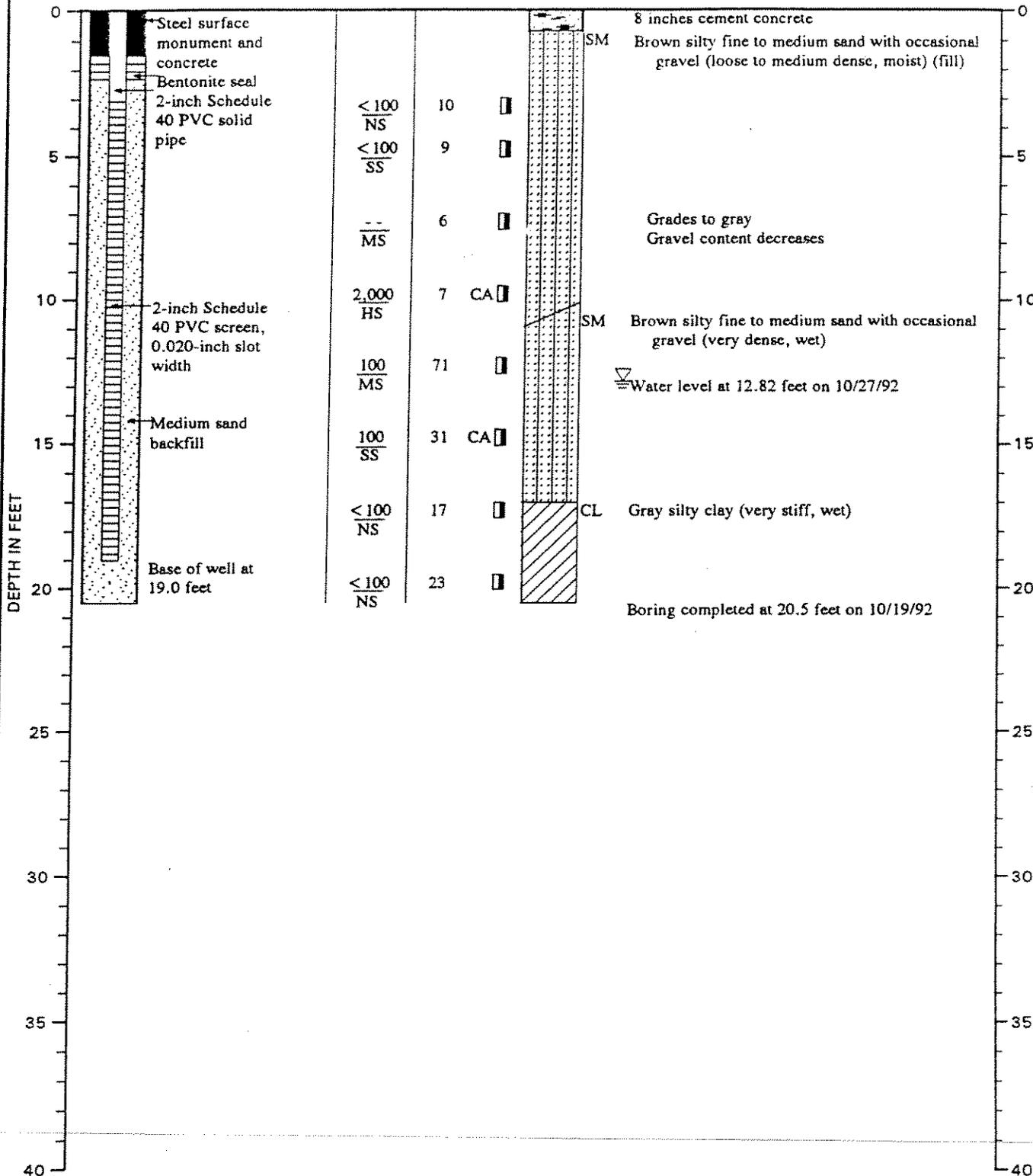
**WELL SCHEMATIC**

Casing Elevation (ft.): 116.55  
 Casing Stickup (ft.): -0.27

Vapor  
 Conc. (ppm)  
 Sheen

**DESCRIPTION**

Surface Elevation (ft.): 116.82



Note: See Figure A-2 for explanation of symbols



**LOG OF MONITORING WELL**

**FIGURE A-4**

:JKH:CMS 1/12/93

0161-153-R04 Tek 6.3

# MONITORING WELL NO. MW-7U

## WELL SCHEMATIC

Casing Elevation (ft.): 115.23  
 Casing Stickup (ft.): -0.21

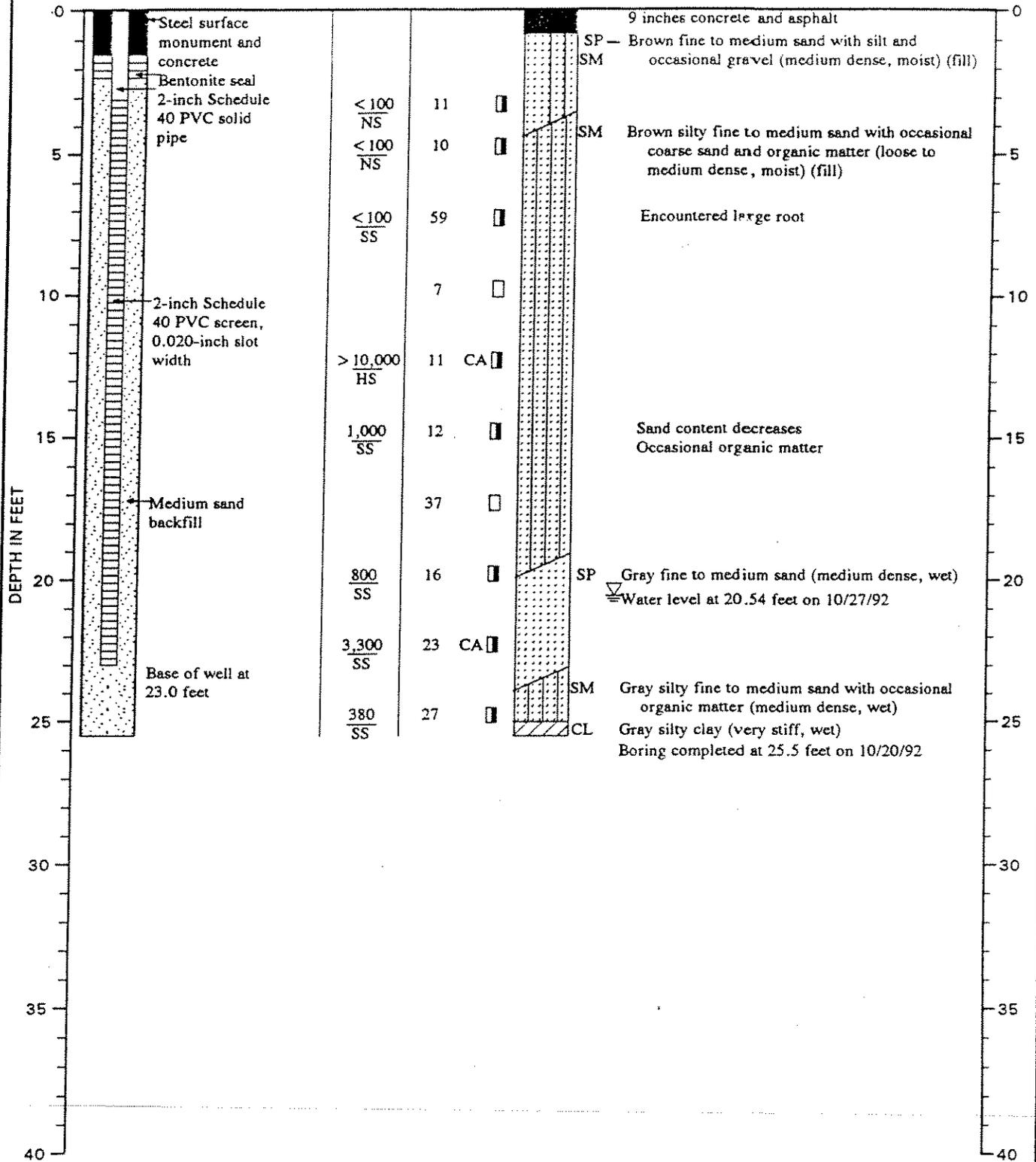
Vapor  
 Conc. (ppm)  
 Sheen

Blow  
 Count  
 Samples

Group  
 Symbol

DESCRIPTION

Surface Elevation (ft.): 115.49



Note: See Figure A-2 for explanation of symbols



LOG OF MONITORING WELL

FIGURE A-5



DRAFT

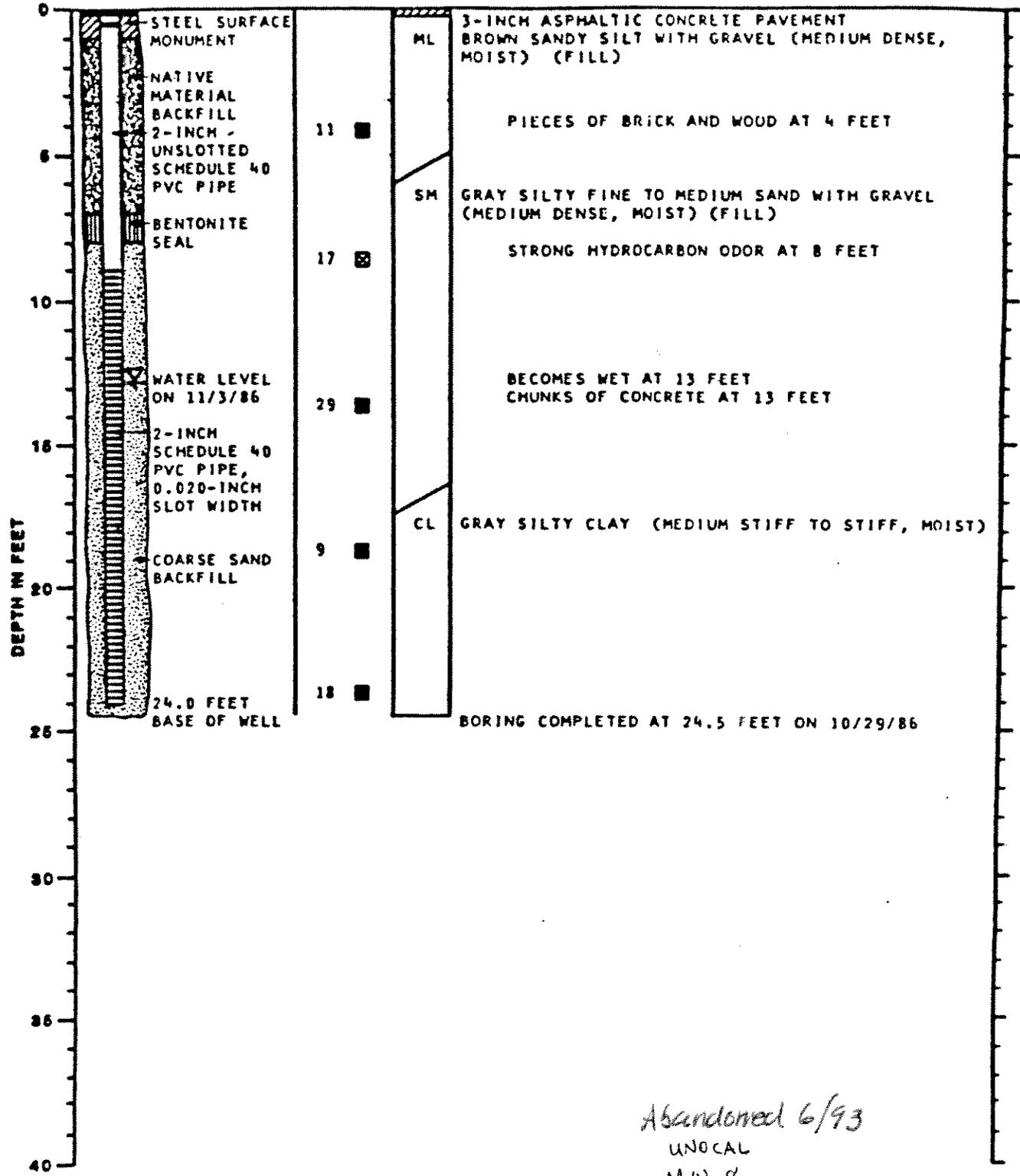
WELL SCHEMA

Casing Elevation: 118.88  
Casing Stickup: -0.78

Soil  
Count  
Samples  
Group  
Symbol

DESCRIPTION

Surface Elevation: 117.81



504-04 JAM:DMP 11-13-86

Abandoned 6/93  
UNOCAL  
MW-8



LOG OF MONITOR WELL

FIGURE 9

## MONITORING WELL NO. MW-8U

### WELL SCHEMATIC

Casing Elevation (ft.): 116.81  
 Casing Stickup (ft.): -0.36

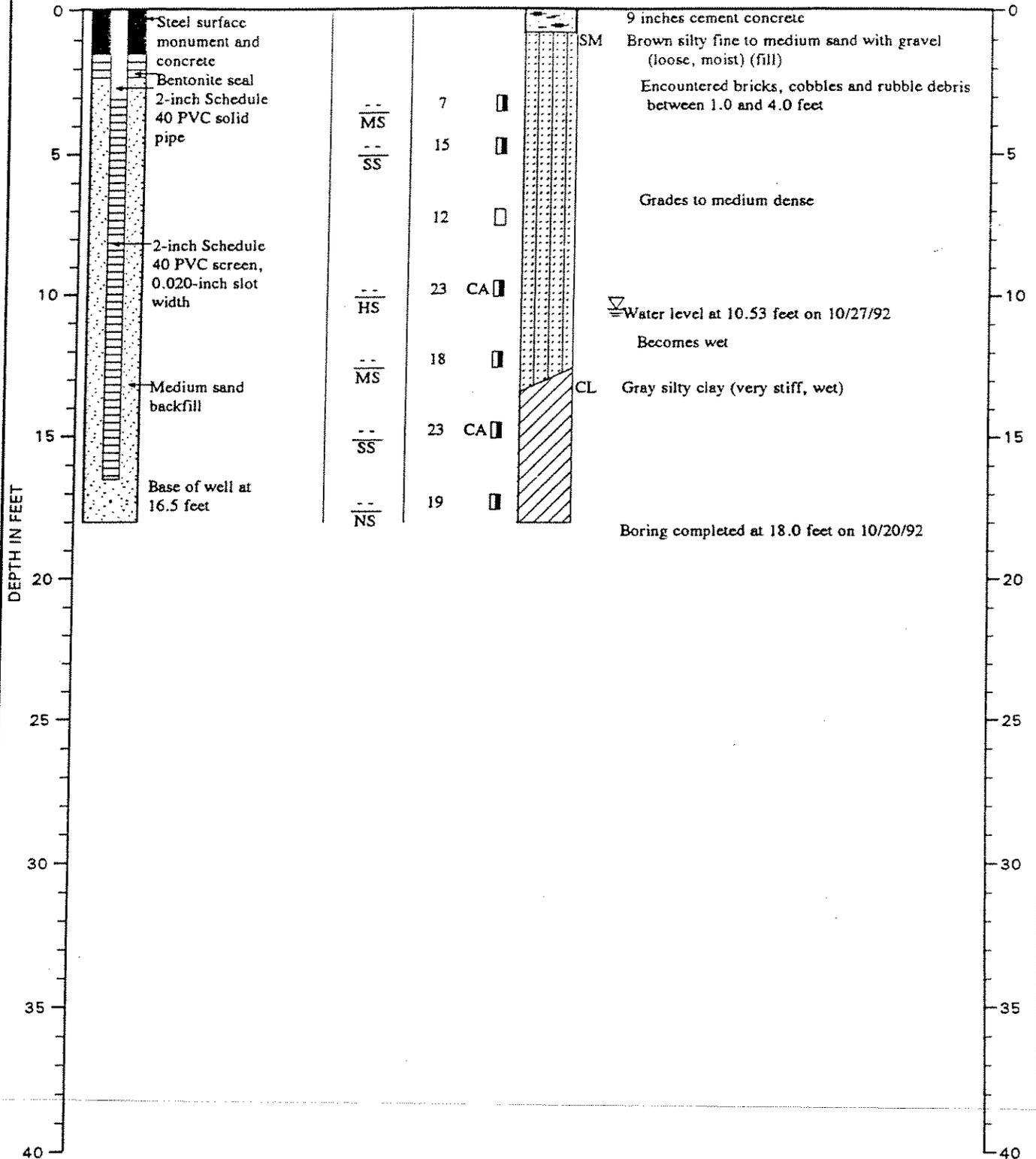
Vapor  
 Conc. (ppm)  
 Sheen

Blow  
 Count  
 Samples

Group  
 Symbol

### DESCRIPTION

Surface Elevation (ft.): 117.17



Note: See Figure A-2 for explanation of symbols

## MONITORING WELL NO. MW-9U

### WELL SCHEMATIC

Casing Elevation (ft.): 115.76  
 Casing Stickup (ft.): -0.34

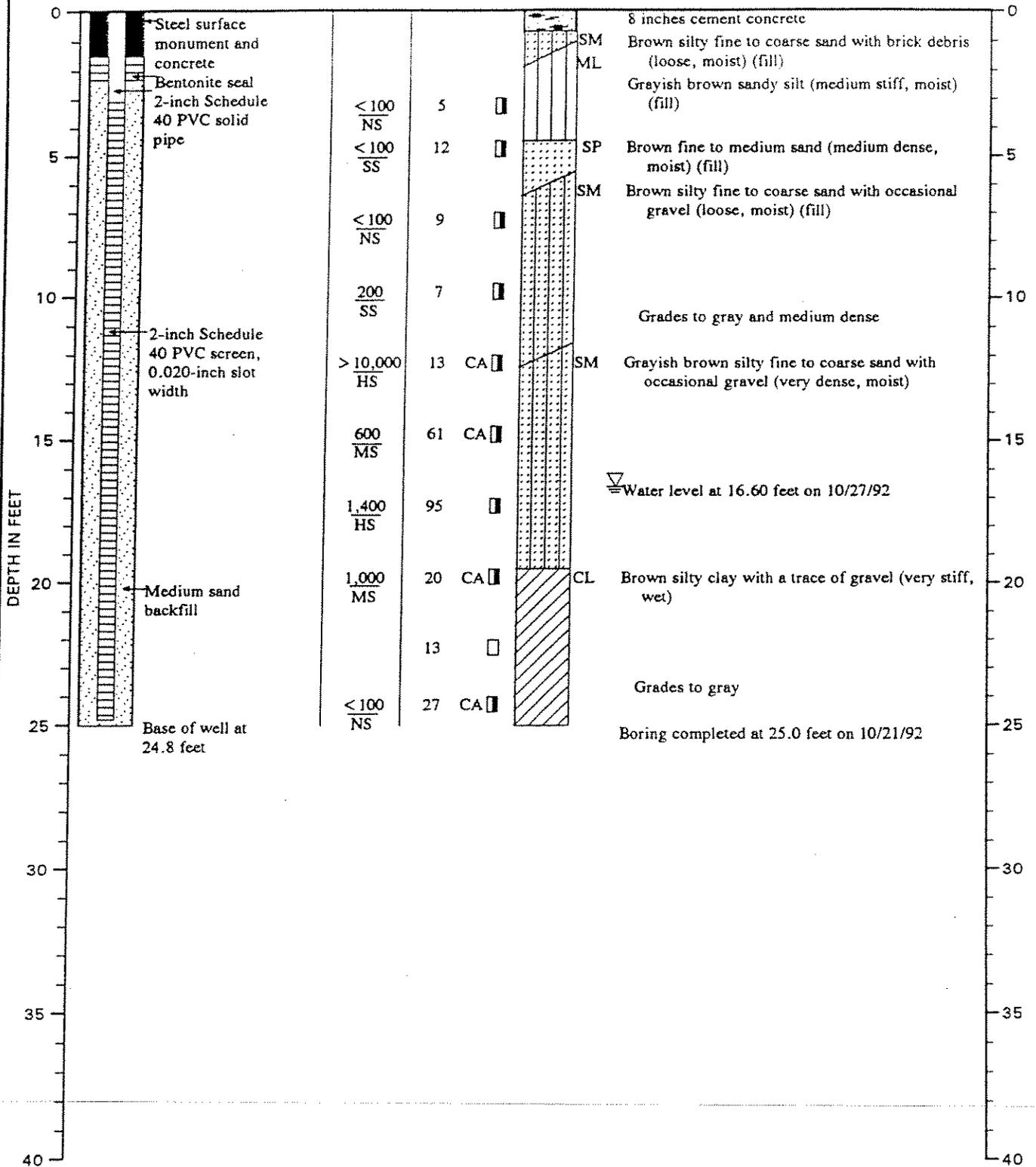
Vapor  
 Conc.(ppm)  
 Sheen

Blow  
 Count  
 Samples

Group  
 Symbol

### DESCRIPTION

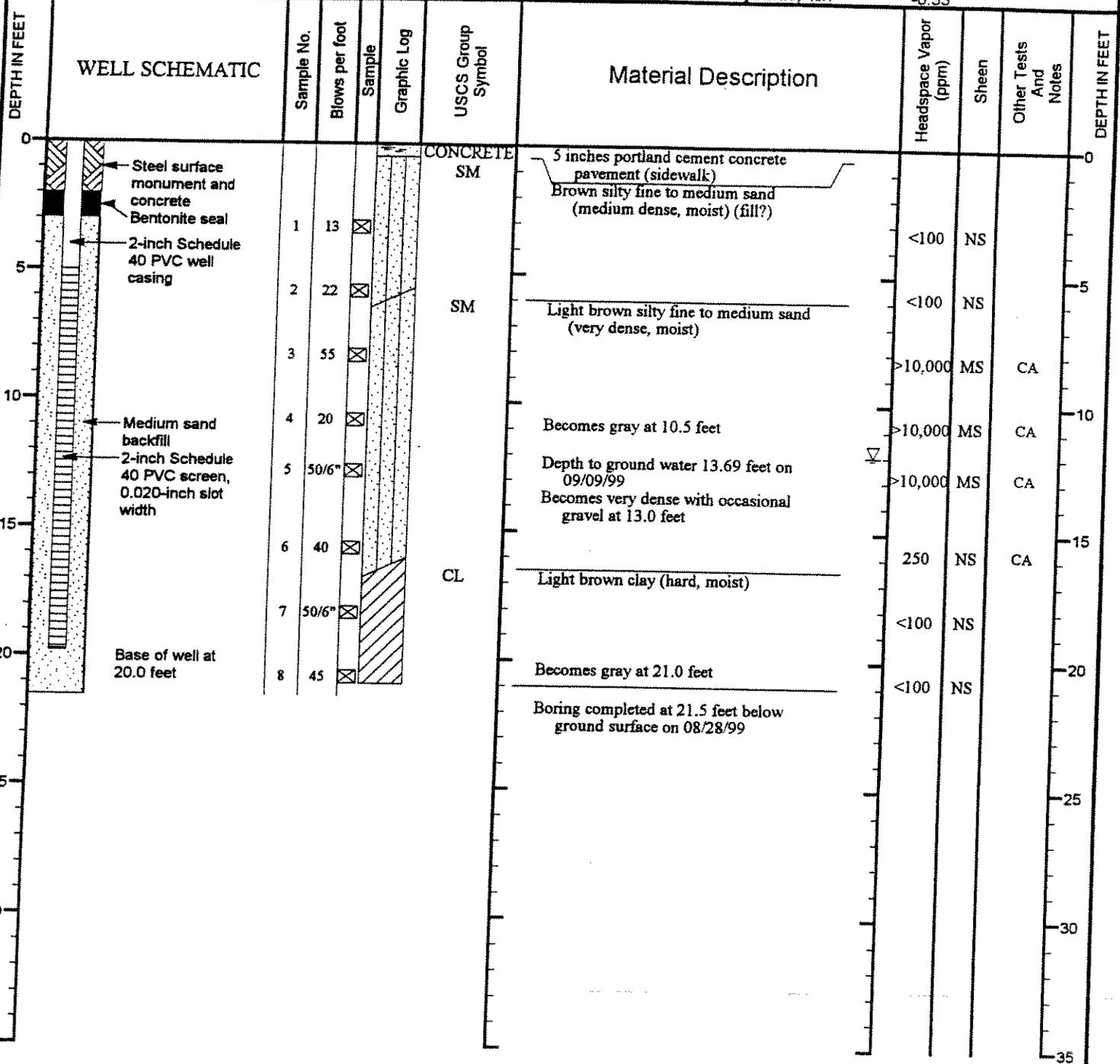
Surface Elevation (ft.): 116.10



Note: See Figure A-2 for explanation of symbols

0161-153-RO4 Tak 6.3 JKH:CMS 1/12/93

Project Unocal 0255		Job Number 0161-153-08		Location 700 Queen Anne Ave. N., Seattle, WA	
Date Drilled 08/28/99	Logged By BES	Contractor Cascade Drilling			
Drill Method 4" Hollow Stem Auger	Equipment Limited access rig	Drill Bit			
Sample Method D&M	Hammer Data 140 lb hammer, 30" drop	X-coordinate:	Not Determined		
Total Depth (ft) 21.5	Elevation (ft) 116.34	Y-coordinate:	Not Determined		
Total Well Depth (ft) 20	Monument Elevation Stickup (ft)	Datum:	Not Determined		
		Svstem:	Not Determined		
		Casing Elevation Stickup (ft)	116.01 -0.33		



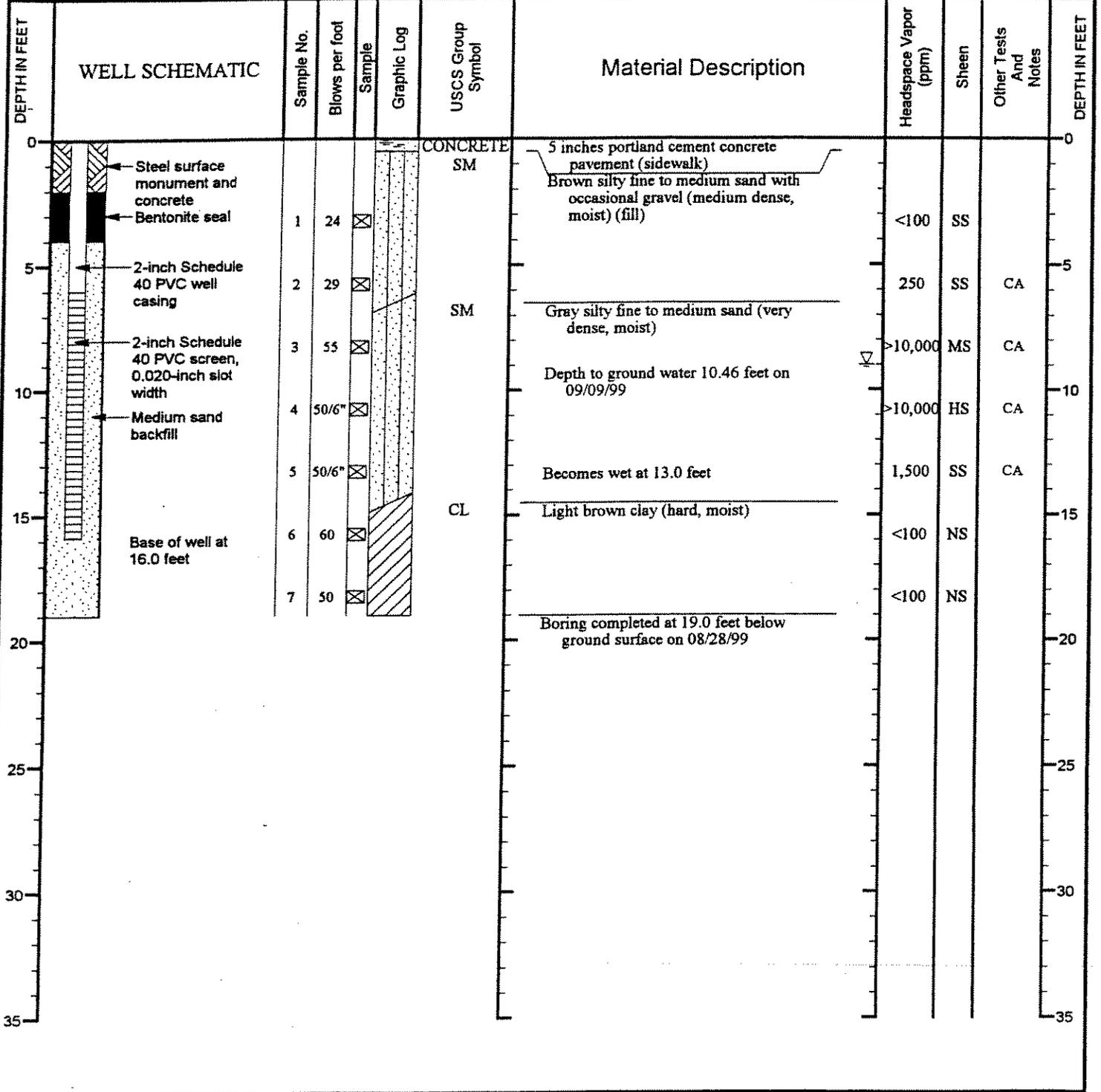
GEL WELL LOG 0161153.GPJ GEL CORP.GDT 10/11/99 0161-153-08



LOG OF MONITORING WELL MW-10U

FIGURE A-3

Project <b>Unocal 0255</b>		Job Number <b>0161-153-08</b>		Location <b>700 Queen Anne Ave. N., Seattle, WA</b>	
Date Drilled <b>08/28/99</b>	Logged By <b>BES</b>	Contractor <b>Cascade Drilling</b>			
Drill Method <b>4" Hollow Stem Auger</b>	Equipment <b>Limited access rig</b>	Drill Bit			
Sample Method <b>D&amp;M</b>	Hammer Data <b>140 lb hammer, 30" drop</b>	X-coordinate:	Not Determined		
		Y-coordinate:	Not Determined		
Total Depth (ft) <b>19</b>	Elevation (ft) <b>116.71</b>	Datum:	Not Determined		
		Svstem:	Not Determined		
Total Well Depth (ft) <b>16</b>	Monument Elevation Stickup (ft)	Casing Elevation Stickup (ft)	<b>116.21 -0.50</b>		



GELWELL LOG 0161153.GPJ.GEI CORP.GDT 10/11/99 0161-153-08



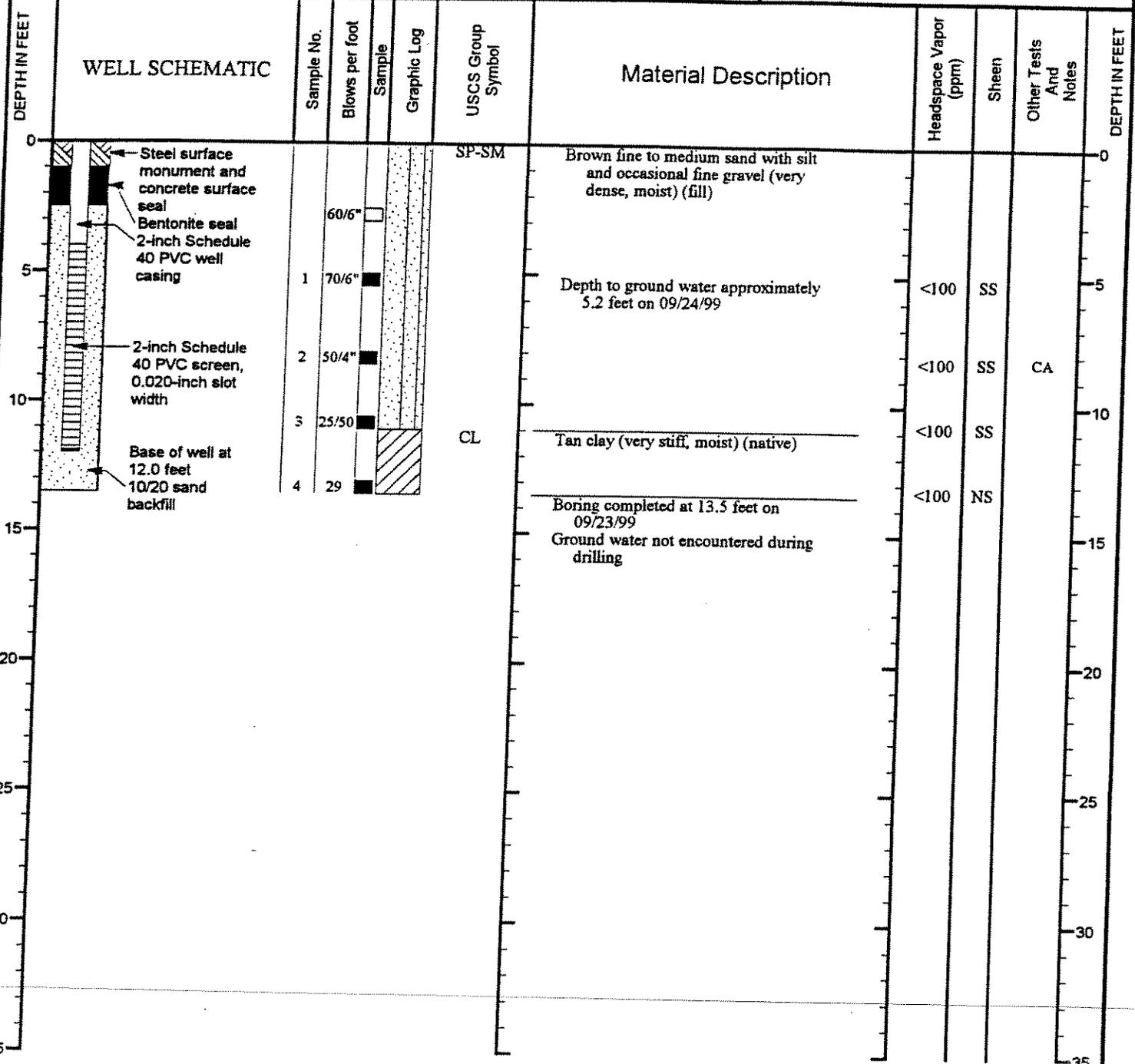
LOG OF MONITORING WELL MW-11U

FIGURE A-4

Project Unocal 0255		Job Number 0161-153-08		Location 700 Queen Anne Ave. N., Seattle, WA	
Date Drilled 08/28/99	Logged By BES		Contractor Cascade Drilling		
Drill Method 4" Hollow Stem Auger	Equipment Limited access rig		Drill Bit		
Sample Method D&M	Hammer Data 140 lb hammer, 30" drop		X-coordinate: Y-coordinate:		Not Determined Not Determined
Total Depth (ft) 26	Elevation (ft) 116.31		Datum: System:		Not Determined Not Determined
Total Well Depth (ft) 23	Monument Elevation Stickup (ft)		Casing Elevation Stickup (ft)		115.93 -0.38

DEPTH IN FEET	WELL SCHEMATIC	Sample No.	Blows per foot	Sample	Graphic Log	USCS Group Symbol	Material Description	Headspace Vapor (ppm)	Sheen	Other Tests And Notes	DEPTH IN FEET
0	<p>Steel surface monument and concrete</p> <p>Bentonite seal</p> <p>2-inch Schedule 40 PVC well casing</p> <p>Medium sand backfill</p> <p>2-inch Schedule 40 PVC screen, 0.020-inch slot width</p> <p>Base of well at 23.0 feet</p>					ASPHALT CONCRETE SP-SM	3 inches asphalt pavement over 4 inches portland cement concrete pavement				0
5		1	17	⊗			Brown fine to medium sand with silt (medium dense, moist) (fill)	<100	SS		5
		2	14	⊗		SM	Light brown silty fine to medium sand with occasional coarse sand and gravel (medium dense, moist)	<100	SS		
		3	16	⊗		SM	Gray silty fine to medium sand with occasional coarse sand and gravel (medium dense, moist)	>10,000	MS	CA	
		4	32	⊗		SM	Gray silty fine to medium sand with occasional coarse sand and gravel (medium dense, moist)	>10,000	MS	CA	
		5	25	⊗		SW	Gray fine to coarse sand (dense, wet)	>10,000	MS	CA	
		6	50/6"	⊗		SM	Gray silty fine to medium sand (dense, wet)	>10,000	MS	CA	
		7	50/6"	⊗			Depth to ground water 17.88 feet on 09/09/99	500	NS		
		8	40	⊗				2,000	SS		
		9	50/6"	⊗		CL	Brown clay (hard, moist)	<100	NS		
	10	50/6"	⊗				<100	NS			
	Boring completed at 26.0 feet below ground surface on 08/28/99 No ground water encountered during drilling										

Project Unocal 0255		Job Number 0161-153-08		Location 700 Queen Anne Ave. N., Seattle, WA	
Date Drilled 09/23/99	Logged By BES		Contractor Cascade Drilling		
Drill Method 4" Hollow Stem Auger	Equipment Standard drilling rig		Drill Bit		
Sample Method D&M	Hammer Data 140 lb hammer, 30" drop		X-coordinate: Not Determined Y-coordinate: Not Determined		
Total Depth (ft) 13.5	Elevation (ft) Not Measured		Datum: Not Determined System: Not Determined		
Total Well Depth (ft) 12	Monument Elevation Stickup (ft)		Casing Elevation Stickup (ft) 117.83		



LOG OF MONITORING WELL MW-13U

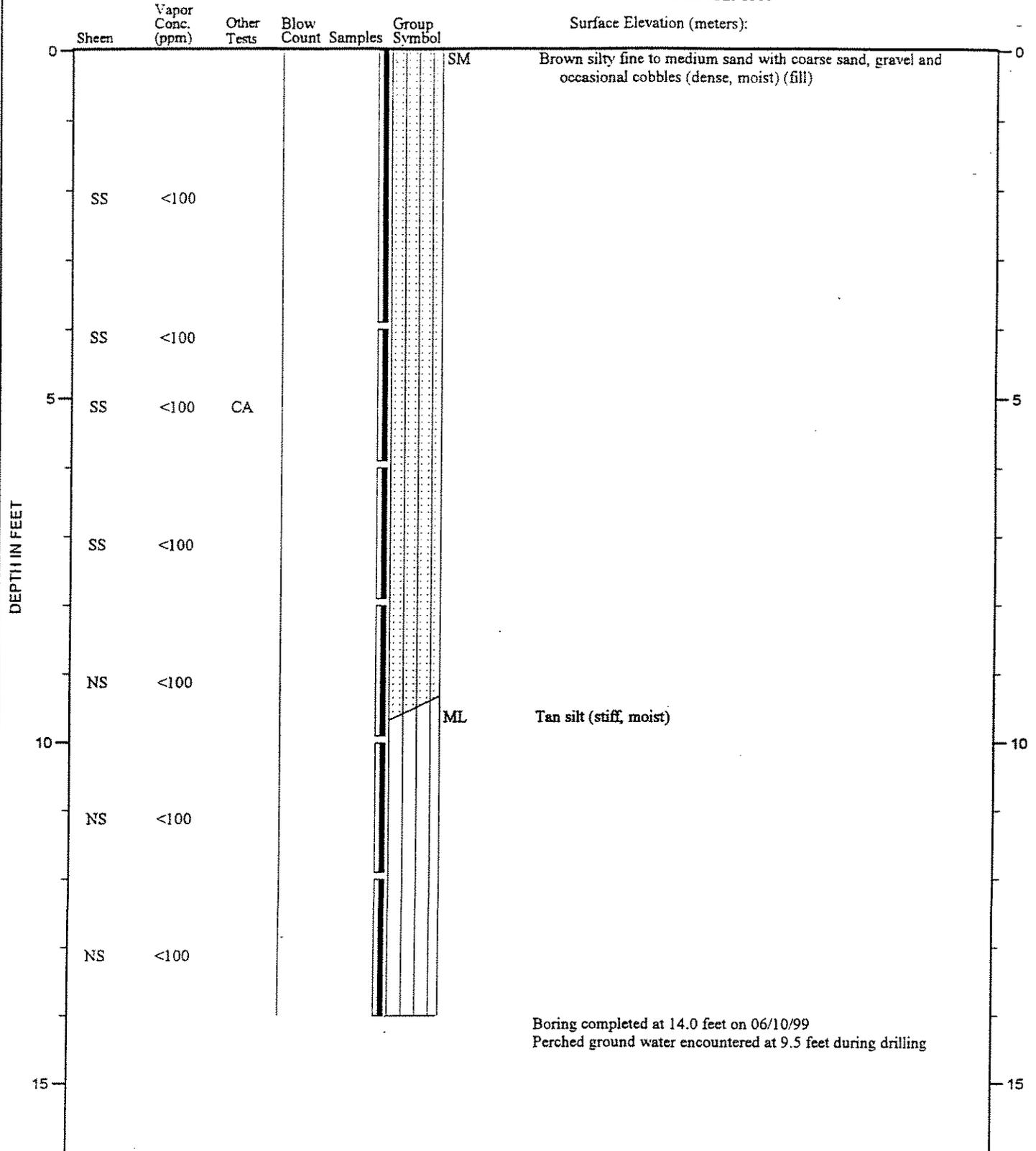
FIGURE A-14

GEI WELL LOG\_0161153.GPJ GEI CORP\_GDT\_11/3/99 0161-153-08

TEST DATA

BORING DP-1

DESCRIPTION



Note: See Figure A-2 for explanation of symbols

TMK:CMS 7/20/99

U101-153-06a



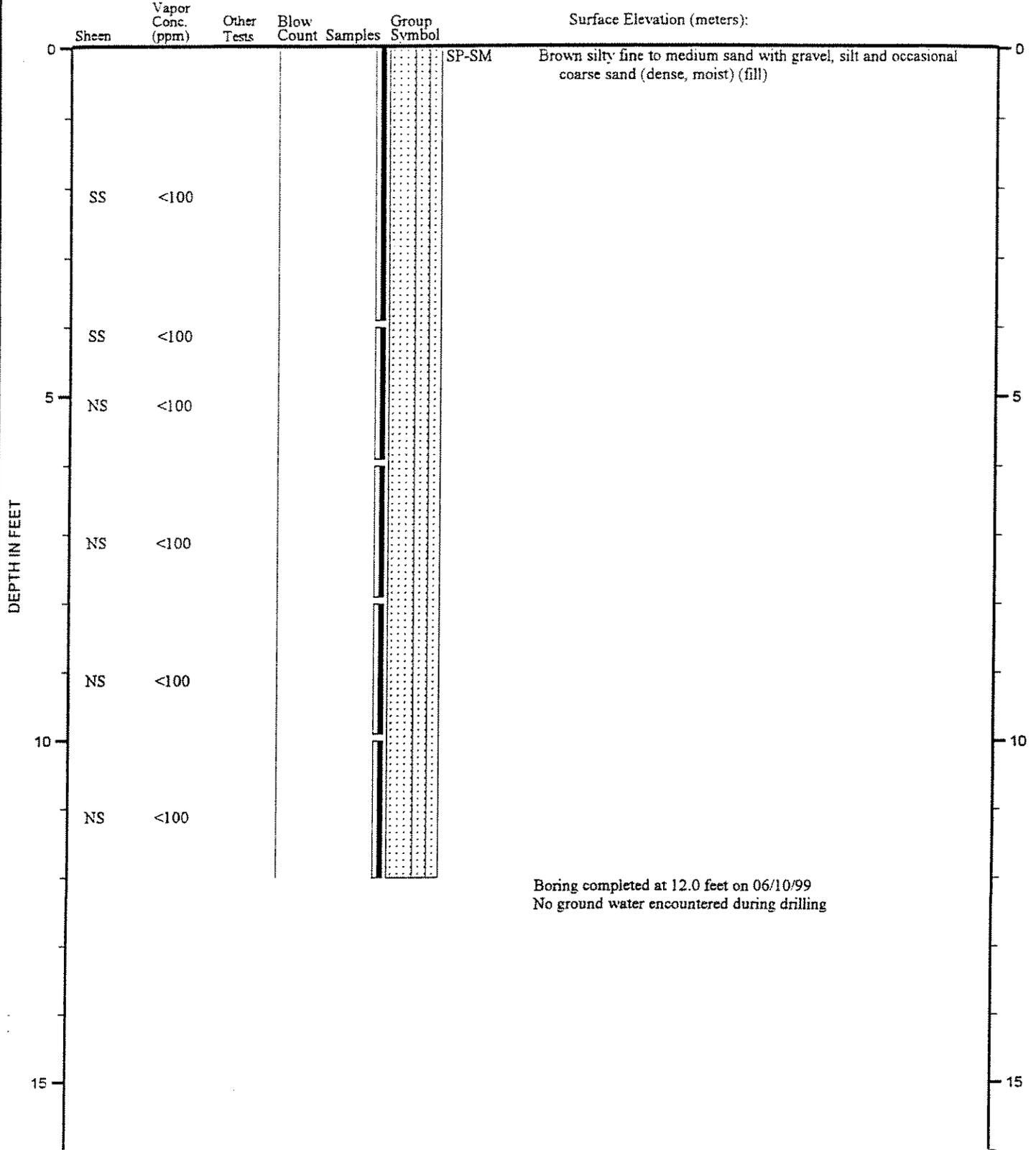
LOG OF BORING

FIGURE A-3

TEST DATA

BORING DP-2

DESCRIPTION



Note: See Figure A-2 for explanation of symbols

TMK:CMS 7/7/99

0161-153-06a



LOG OF BORING

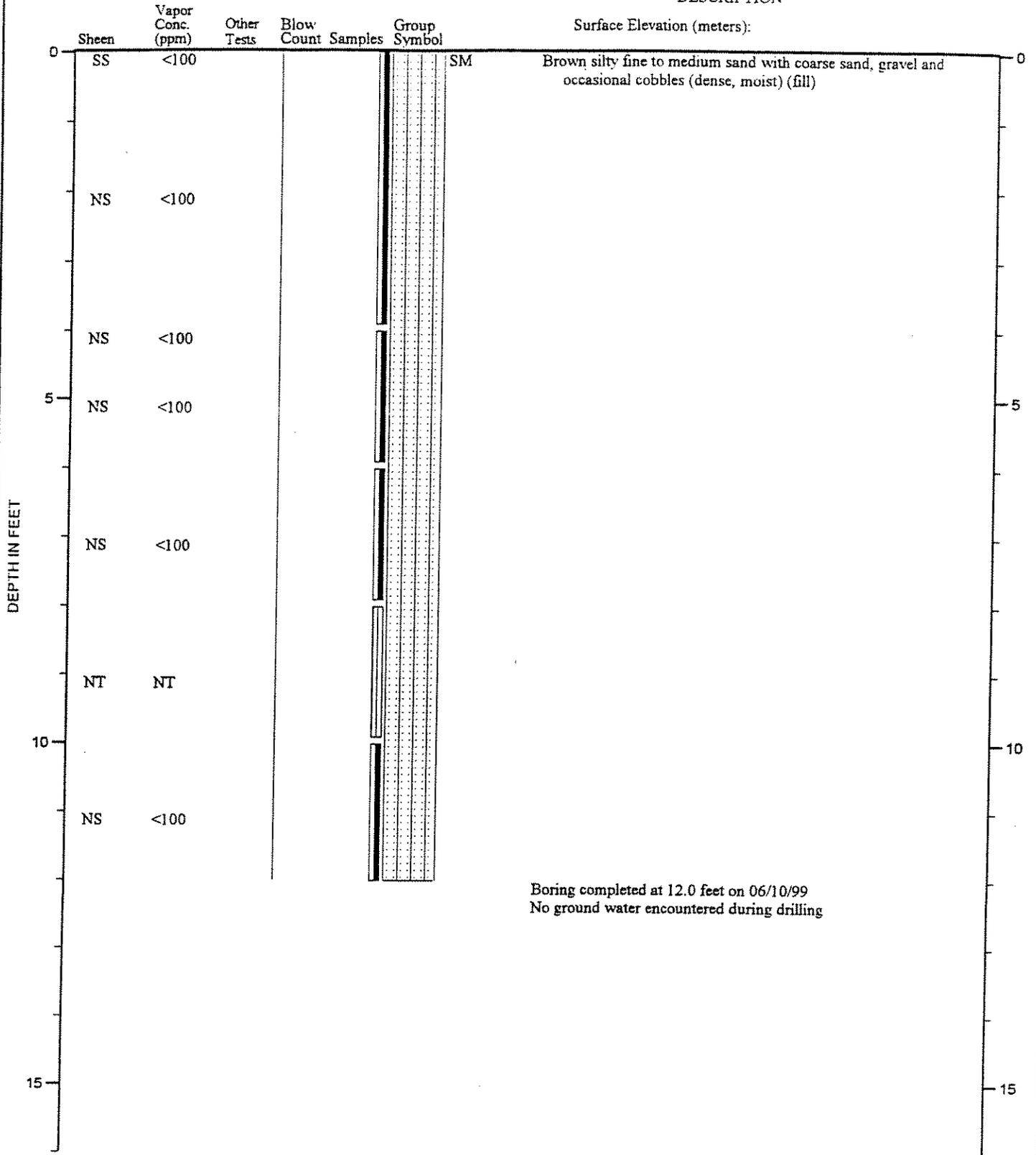
FIGURE A-4

TEST DATA

BORING DP-3

DESCRIPTION

Surface Elevation (meters):



Note: See Figure A-2 for explanation of symbols



LOG OF BORING

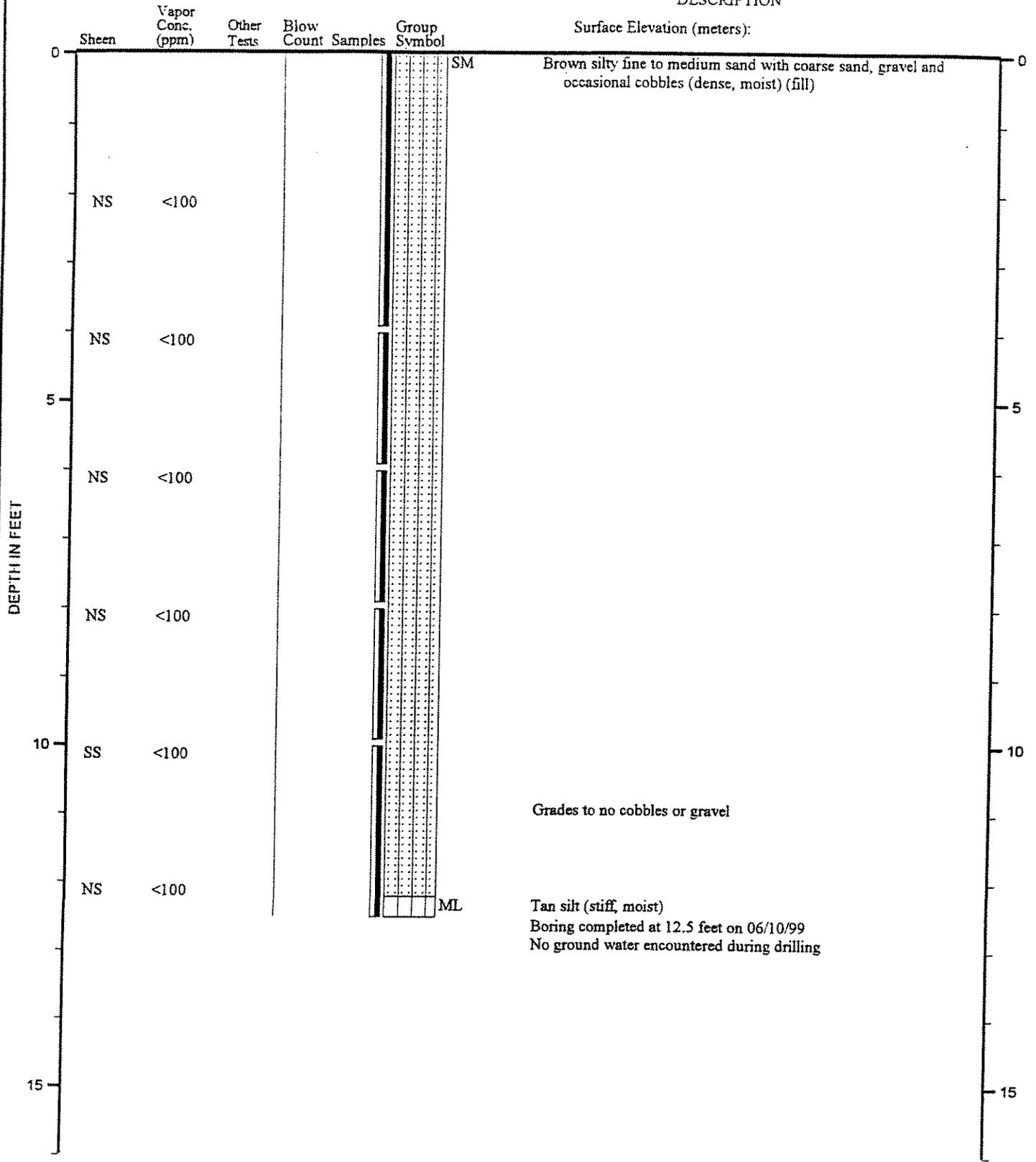
FIGURE A-5

0.001...3-06a 1 WIN\CMS 11/21/99

TEST DATA

BORING DP-4

DESCRIPTION



Note: See Figure A-2 for explanation of symbols

TMK:CMS 7/7/99

0161-153-06a



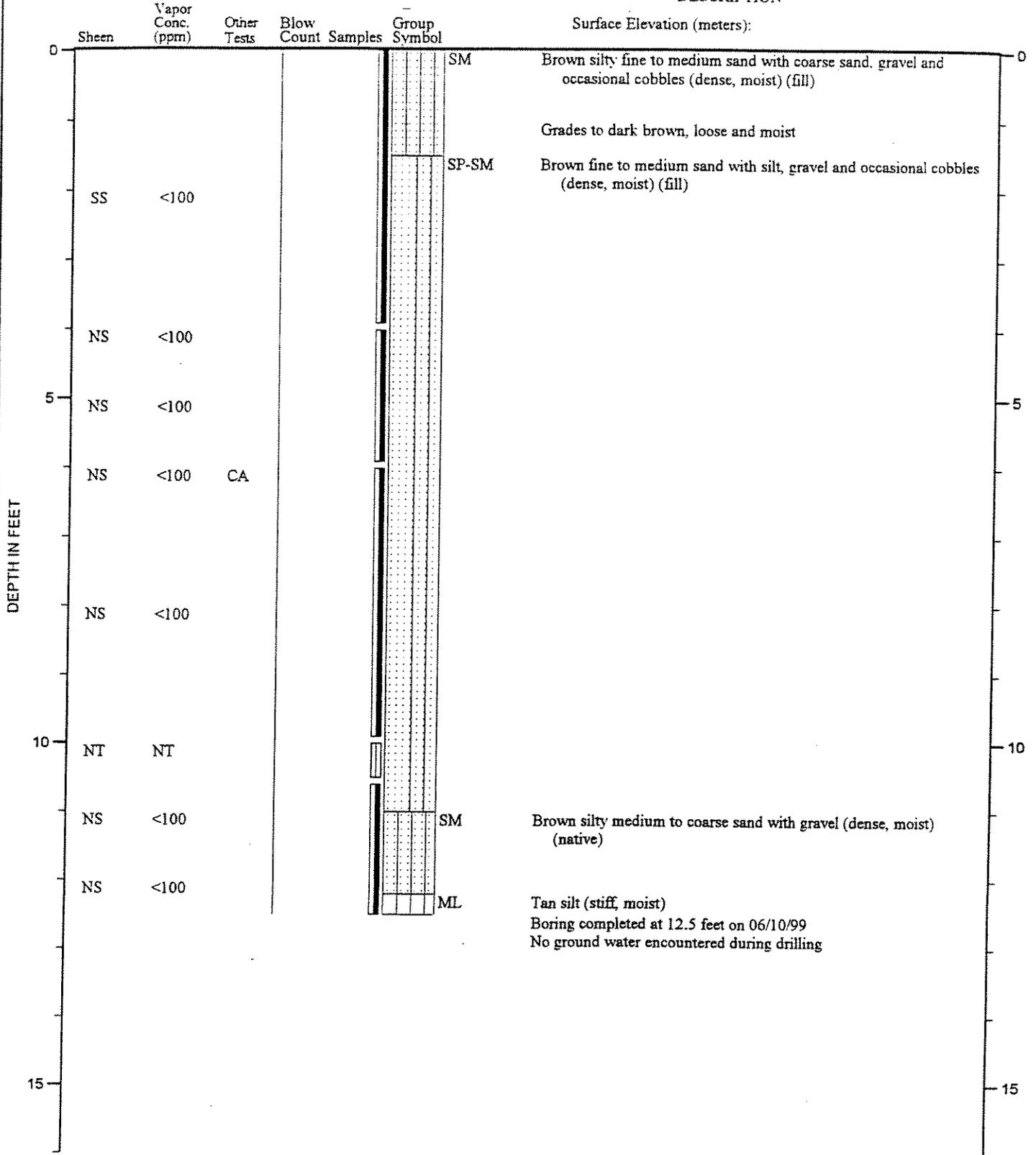
LOG OF BORING

FIGURE A-6

TEST DATA

BORING DP-5

DESCRIPTION



Note: See Figure A-2 for explanation of symbols

TMK:CMS 7/20/99

0161-153-06a



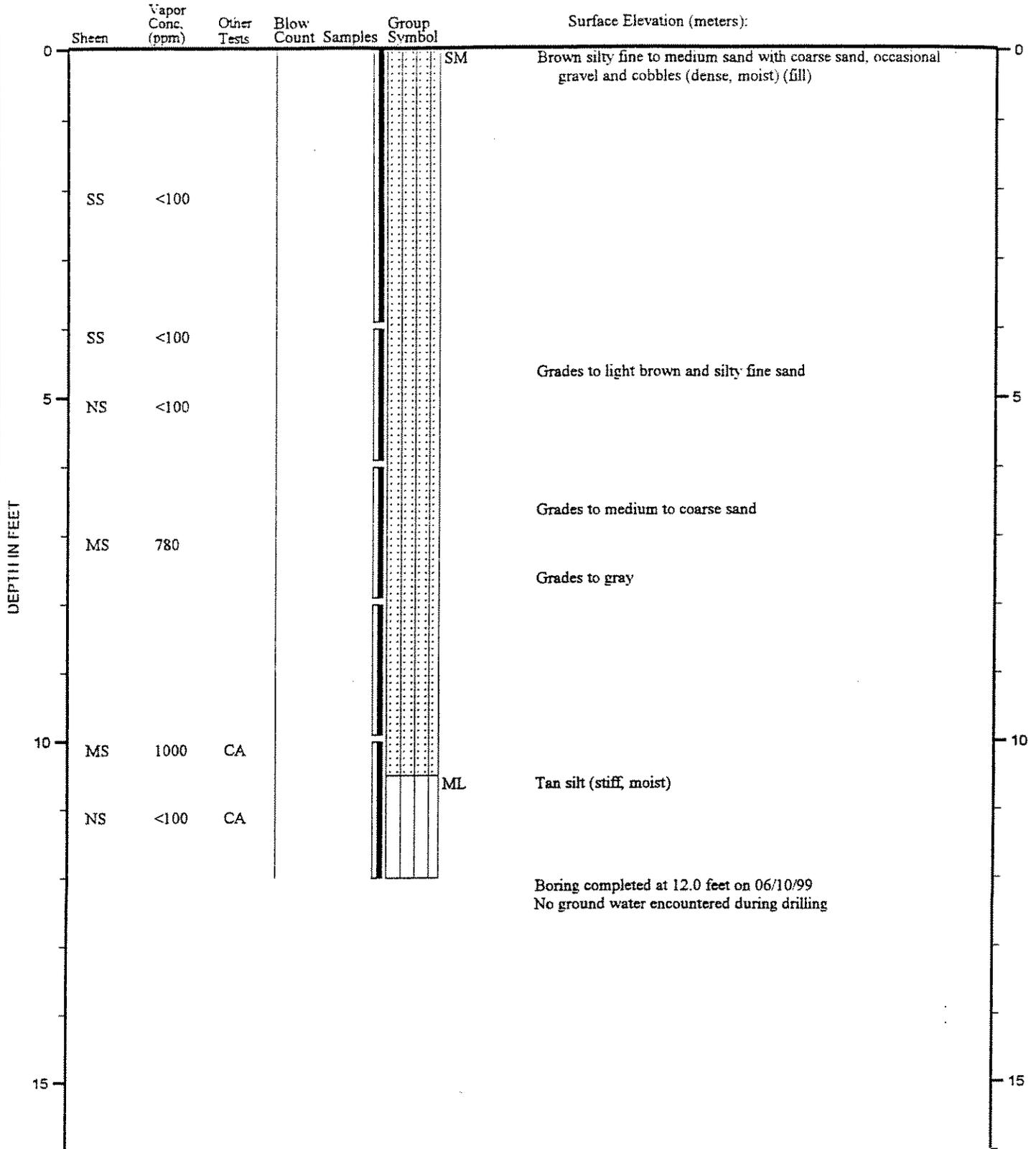
LOG OF BORING

FIGURE A-7

TEST DATA

BORING DP-6

DESCRIPTION



Note: See Figure A-2 for explanation of symbols

C:\proj\33-06a\1\WK\CMS 7/7/99



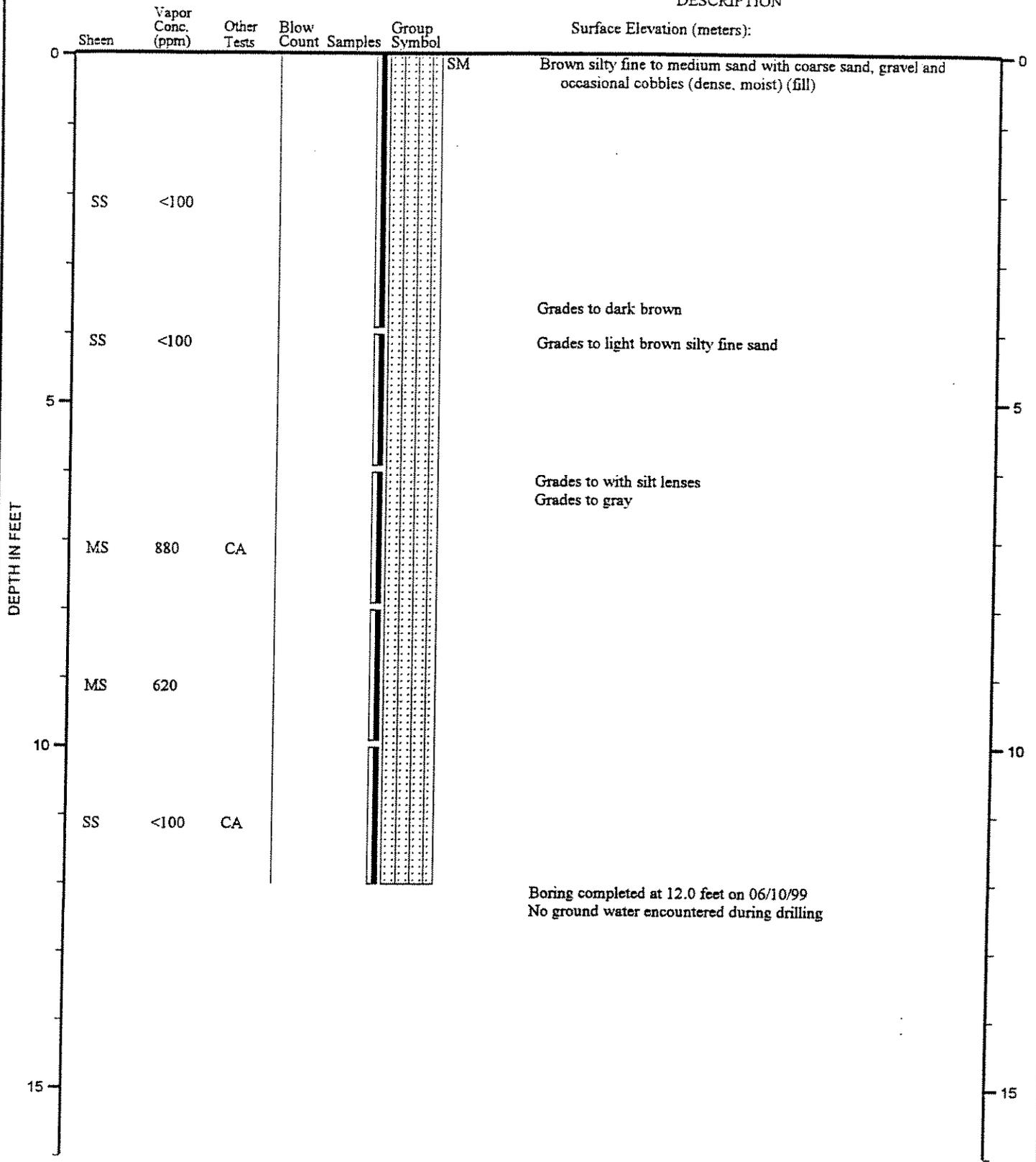
LOG OF BORING

FIGURE A-8

TEST DATA

BORING DP-7

DESCRIPTION



Note: See Figure A-2 for explanation of symbols



LOG OF BORING

FIGURE A-9

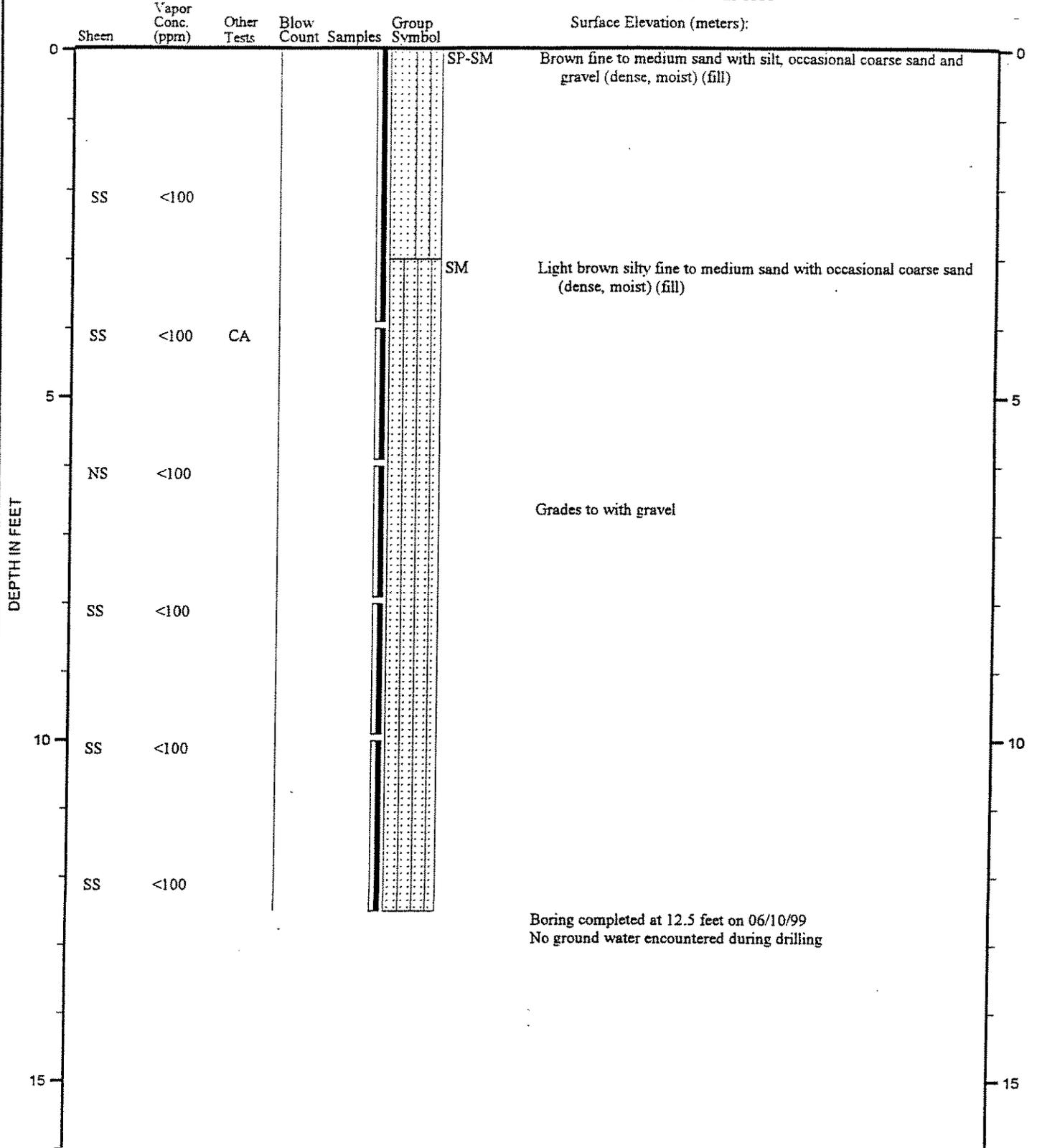
TMK.CMS 7/7/99

U101-133-06a

TEST DATA

BORING DP-8

DESCRIPTION



Note: See Figure A-2 for explanation of symbols

TMK:CMS 7/7/99

0161-153-06a



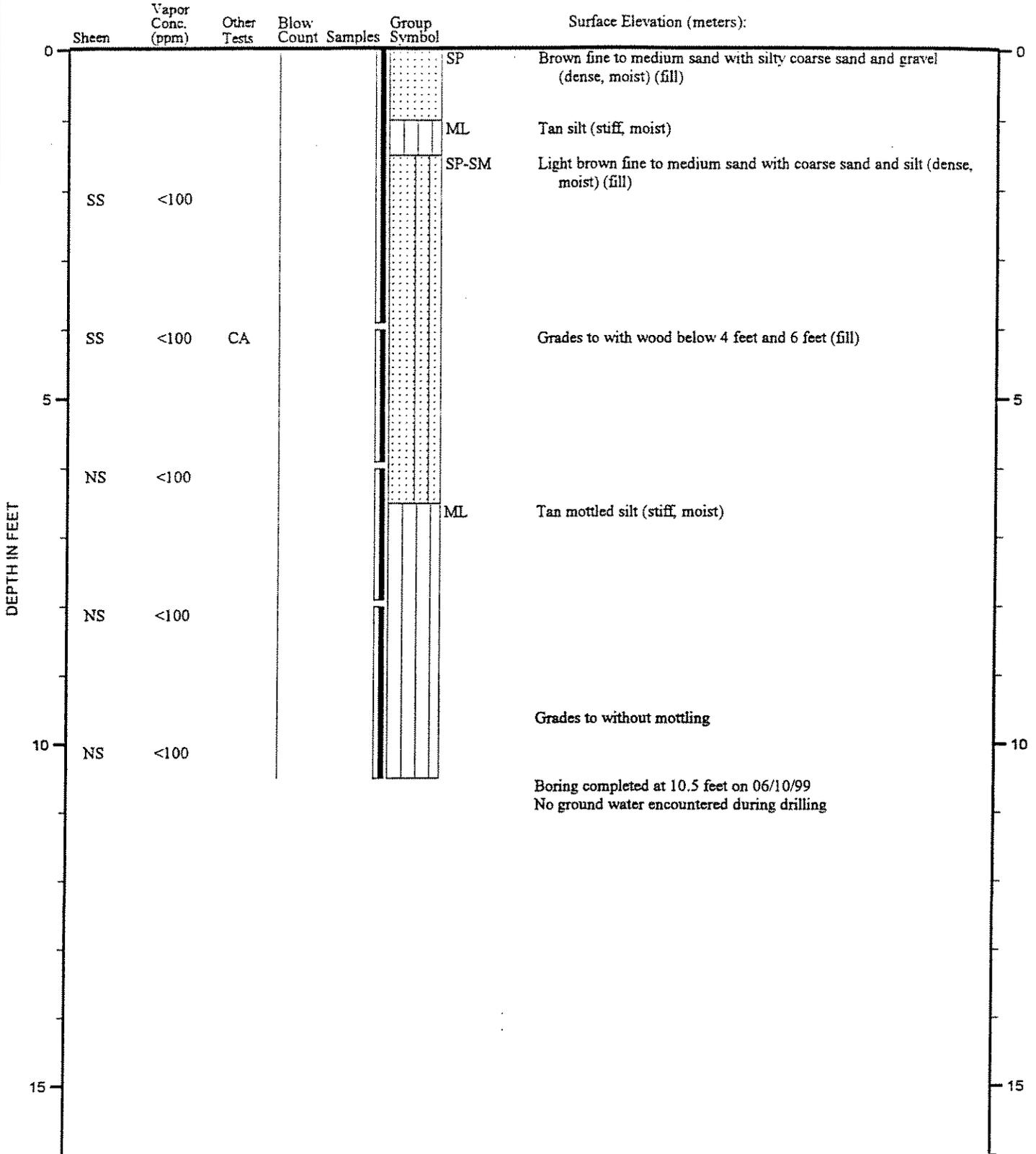
LOG OF BORING

FIGURE A-10

TEST DATA

BORING DP-9

DESCRIPTION



Note: See Figure A-2 for explanation of symbols

0161-153-06a TMK:CMS 7/7/99



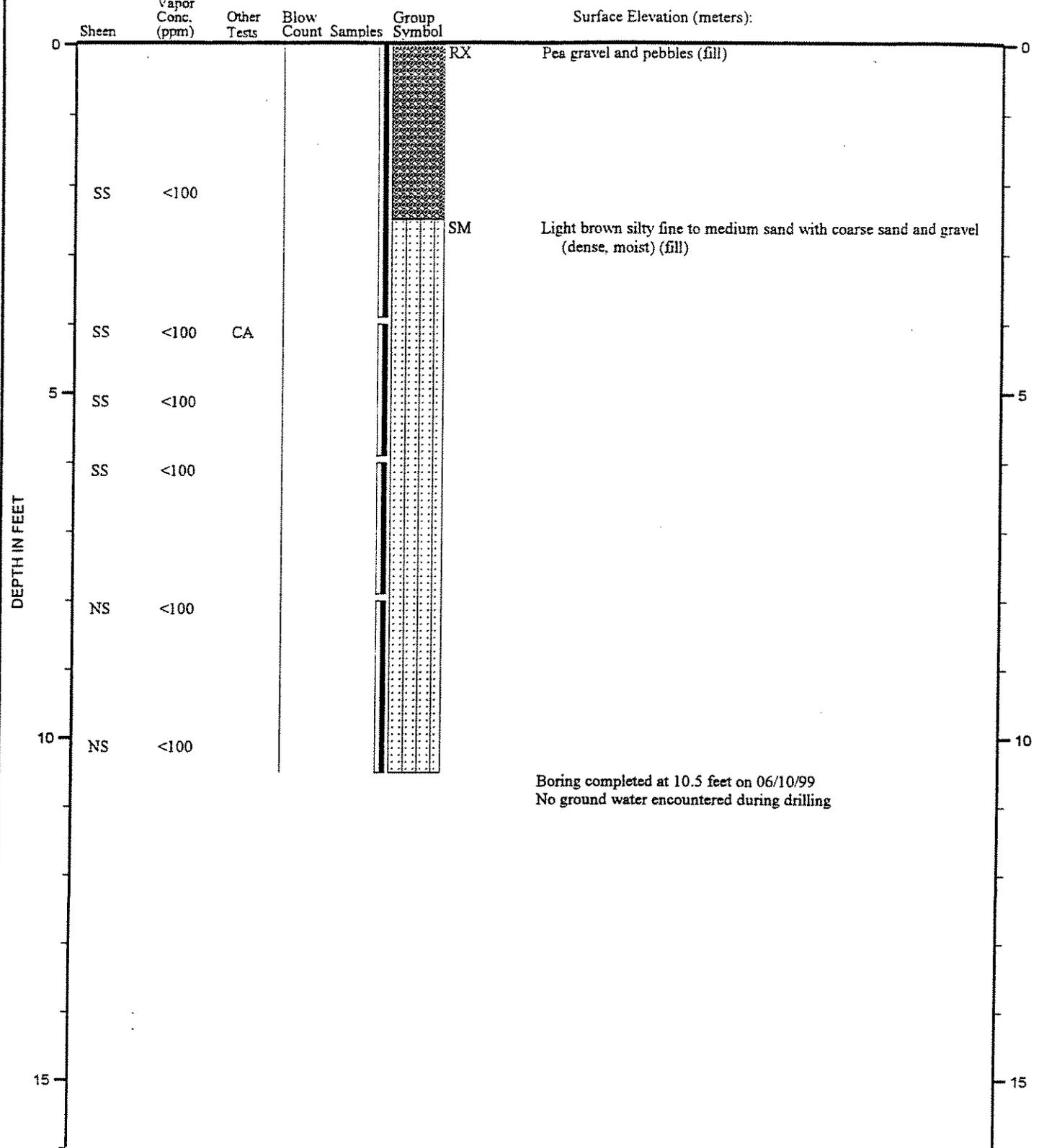
LOG OF BORING

FIGURE A-11

TEST DATA

BORING DP-10

DESCRIPTION



Note: See Figure A-2 for explanation of symbols

TMK.CMS 7/7/99

0161-153-06a



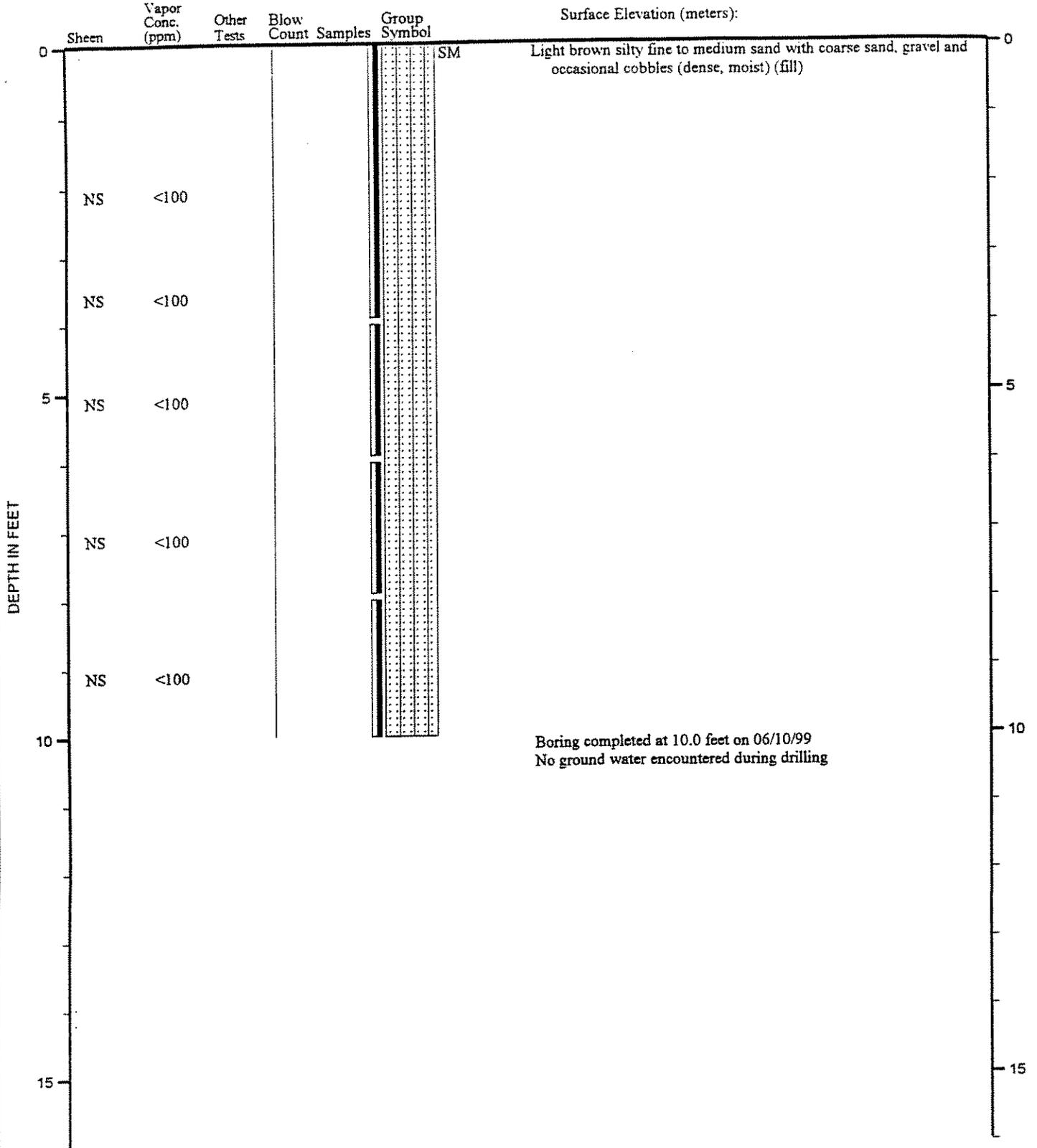
LOG OF BORING

FIGURE A-12

TEST DATA

BORING DP-11

DESCRIPTION



Note: See Figure A-2 for explanation of symbols

TMK:CMS 7/7/99

0161-153-06a



LOG OF BORING

FIGURE A-13

# APPENDIX I

## Site-Specific Health and Safety Plan





## Site Specific Health and Safety Plan

Revision 18 b

Project Name:	Former Chevron Facility 211577 631 Queen Anne Avenue North Seattle, WA 98109
Project Number:	3001258
Client Name:	Chevron
Date:	9/2/2021
HASP Expires	9/2/2022
Revision:	1

Approvals:

HASP Developer: Sara Fulton

Project Manager: Ada Hamilton

HASP Reviewer: Nicholas Monico  
HASP Reviewer Name Typed

HASP Reviewer Signature (handwritten or digital signature)

## Arcadis Culture of Caring

Arcadis is committed to a Culture of Caring that ensures each Arcadis employee, part time as needed employee (PTAN), temporary agency employee under Arcadis day to day control, Inexperienced Workers and contractor (cumulatively referred to here as "field staff") goes home at the end of the day free from injury or illness. I certify that the following has been performed with all Arcadis field staff on this project either in person or virtually through Teams:

- Reviewed the HASP including a discussion of hazard identification and controls.
  - If conducting activities deemed by Arcadis to be "High Risk", frontline management has reviewed applicable H&S standards (Job Safety Analysis [JSA] when authorized by H&S) for these activities with field staff.
  - If permit to work is required, frontline management has reviewed the permit(s) with field staff.
- Reviewed proactive H&S engagement expectations/injury prevention actions.
- Reviewed Stop Work Authority.
- Reviewed the incident reporting process and expectations including when WorkCare should be contacted by staff (WorkCare incident intervention for all minor, non-emergency injuries) and that the WorkCare phone number is programmed into field team cell phone.
- For Inexperienced Workers, a mentor has been assigned for the new task being performed.

For short service employees (SSEs), PTANS\* and temporary agency employees\* :

- Provided coaching and mentoring on Arcadis H&S expectations during project work. Reviewed in detail specific hazards and controls and provided a resource who can be contacted if individual has questions regarding planned or unplanned work tasks.

Mentor/Resource # \_\_\_\_\_  
Name Phone Number

Signed:

\_\_\_\_\_

\* Upon hiring/contracting for the first time.

# Emergency Information

**Site Address:**

Former Chevro Facility 211577  
631 Queen Anne Avenue North  
Seattle, WA 98109

**Emergency Phone Numbers:**

Emergency (fire, police, ambulance)		911
Emergency (facility specific, if applicable):		
Seattle Police Department - West Precinct		206-625-5011
Seattle Fire Station 8		206-386-1400
Emergency Other (specify):		
Primary Client Contact:	Tim Bishop	925-588-4662
WorkCare (non-life-threatening injury/illness):		1-888-449-7787
Project H&S:	Josh Gravenmeir	707-338-4441
Task Manager:	Julia Vidonish	724-317-4630
Project Manager:	Ada Hamilton	206-413-6430
H&S Specialist:	Greg Mason	859-806-0746
Area H&S Director:	Andrew McDonald	410-200-3752

**Hospital Name and Address:** Virginia Mason Emergency Department  
1010 Spring St, Seattle, WA 98101

Hospital Phone Number: 206-583-6433

**Supplemental Client Contact Information:**

Chevron PM - Tim Bishop	925-588-4662
Chevron HES Lead - Jim Duke	713-432-2916

**Other Important Phone Numbers:**

Poison Control Center	1-800-222-1222
Nat. Response Ctr. (spills in reportable quantities)	1-800-424-8802
U.S. Coast Guard (spills to water)	1-800-424-8802

## Incident Reporting Protocol Within Arcadis

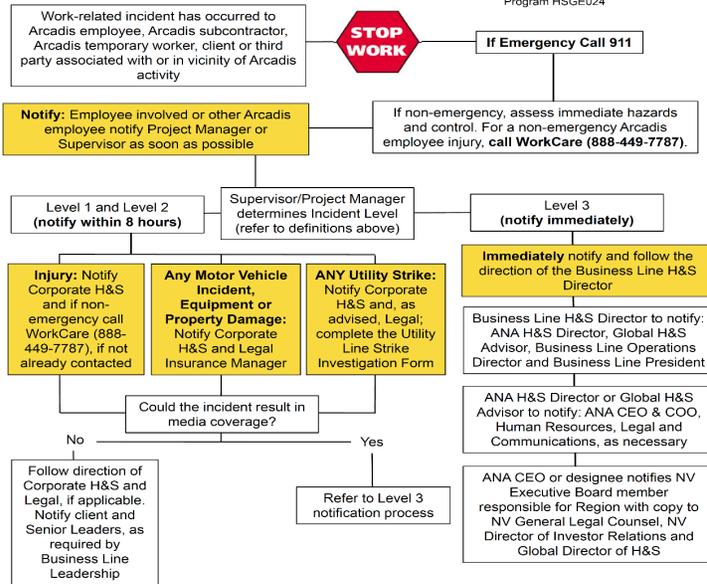
### Incident Levels

**Level 1:** First aid/self-treated, work-related injury (contact WorkCare as soon as possible); minor property or equipment damage (less than or equal to \$100); vehicle loss event\* (no injuries, no third-party involvement or other vehicle involvement).

**Level 2:** Professional Medical Treatment (if non-emergency injury or illness, employee must contact WorkCare as soon as possible); moderate property or equipment damage (greater than \$100 but less than or equal to \$5,000); ANY utility strike incident, any motor vehicle accident\* (including injury or third-party involvement).

**Level 3:** Immediately report fatality, severe or catastrophic injury and/or overnight hospitalization required; significant property or equipment damage (greater than \$5,000); missing person or incident that generates media coverage.

\* Refer to Motor Vehicle Safety Program HSGE024



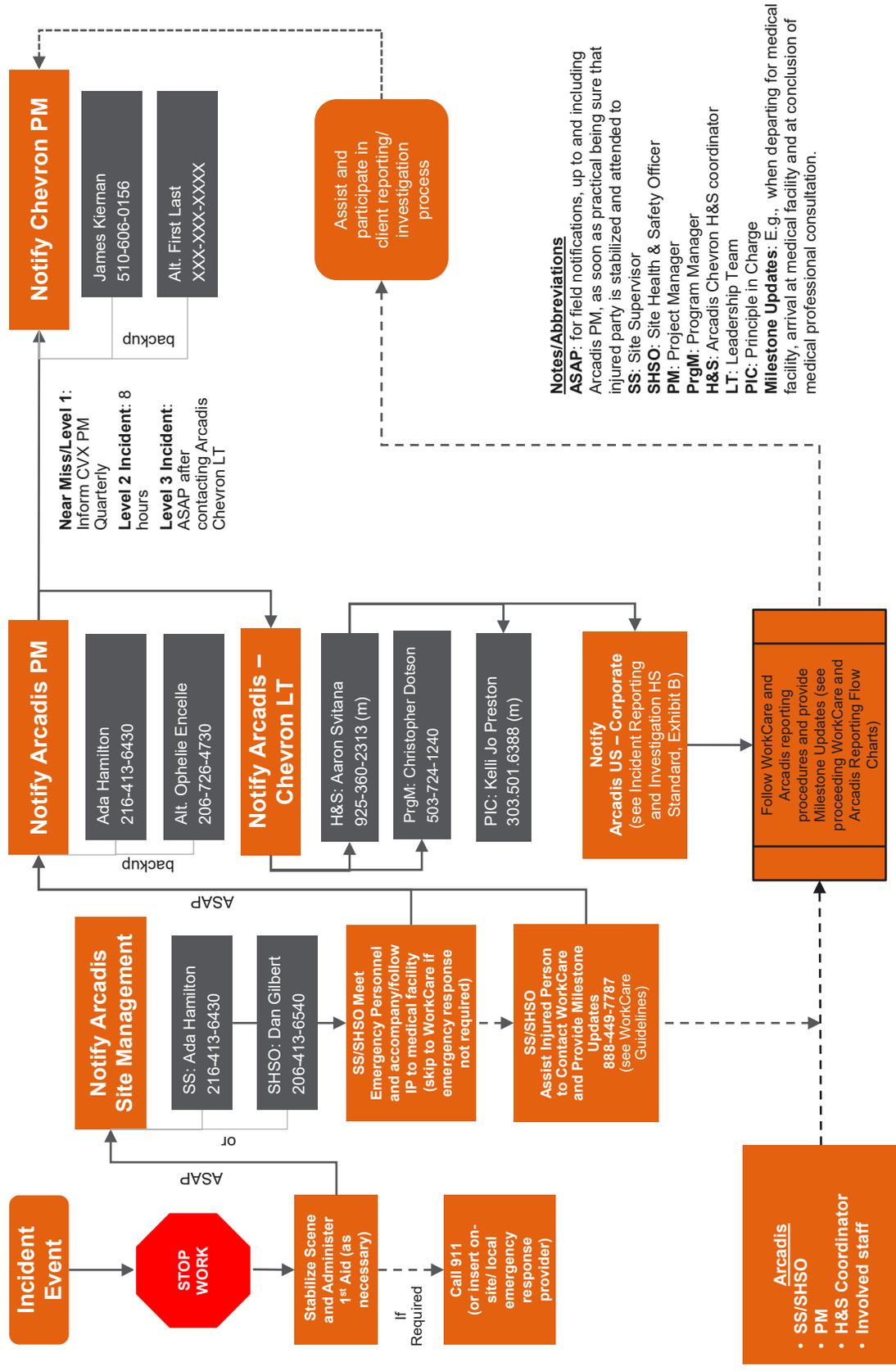
Client reporting protocol must be provided by the project team at the bottom of this worksheet.

### Client Incident Reporting Protocol

Project team must manually enter client incident protocol to client below

# Incident and Near Miss Reporting Plan – Chevron Team (Outsourced)

Project Name  
Project Location



# Reporting Plan Roles and Responsibilities

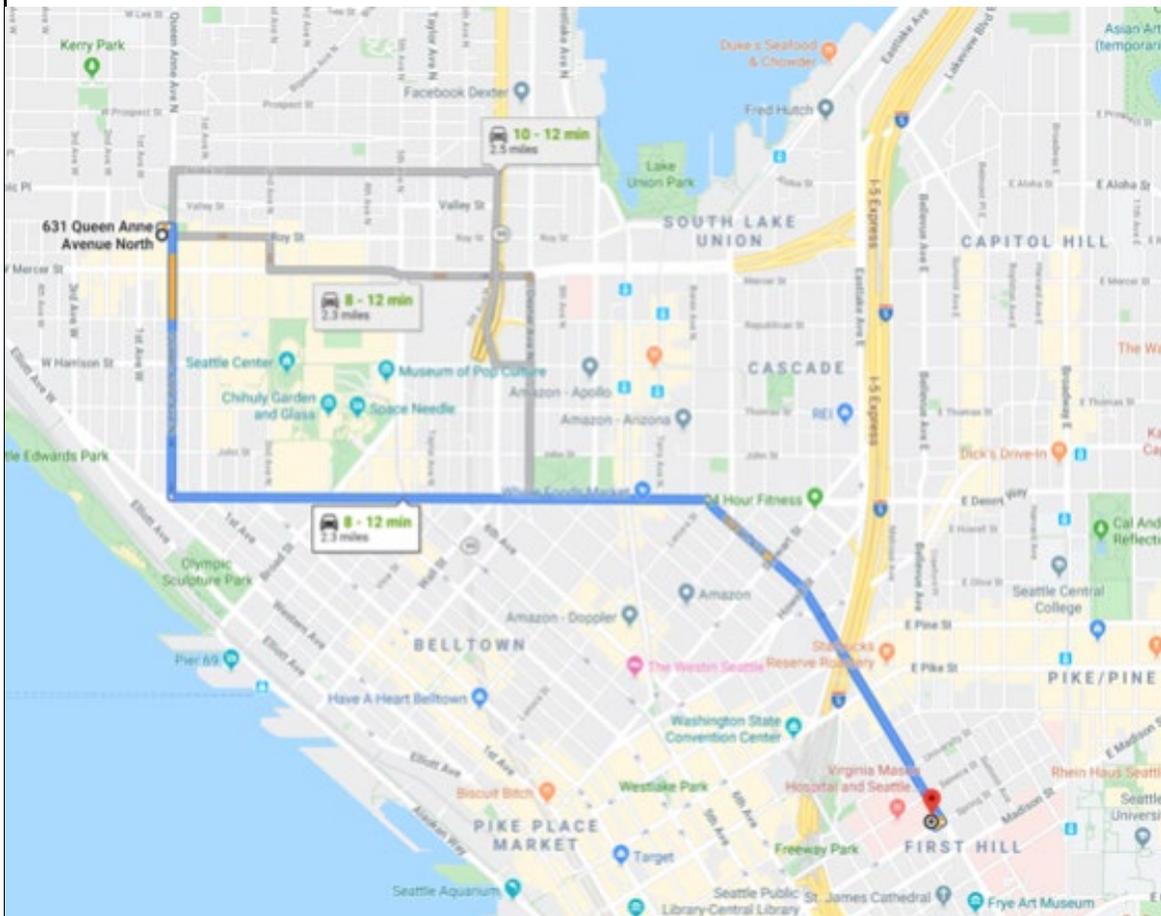
Role	Responsibility
<b>Site Worker (all including SS, SHSO, PM, etc.)</b>	<ul style="list-style-type: none"> <li>Recognize hazards/unsafe conditions</li> <li>Use Stop Work Authority</li> <li>Report near losses (NL)/incidents/injuries immediately to SS or SHSO</li> </ul>
<b>Site Supervisor (SS) and Site Health &amp; Safety Officer (SSHO)</b>	<ul style="list-style-type: none"> <li>Review and understand this procedure</li> <li>Verify and validate site worker(s) review and understand this procedure</li> <li>Assure appropriate Stop Work Authority has been utilized and secure incident site/equipment/site workers</li> <li>Respond to reports of NL/incidents/injuries and initiate reporting and care management actions</li> <li>Verify that emergency medical services (e.g. 911) has been notified, as necessary</li> <li>Assist injured person (IP) to contact WorkCare</li> <li>Gather appropriate initial facts regarding event and contact Arcadis PM or backups as soon as possible (must have live conversation)</li> <li>Accompany IP to medical facilities and report milestone updates to Arcadis PM and Arcadis Chevron Leadership Team (LT). E.g. mile stone updates include when departing for medical facility, arrival at medical facility and at conclusion of medical professional consultation.</li> <li>Coordinate gathering of facts, timelines and information to support Arcadis and Chevron incident investigation and reporting process (IIR)</li> <li>Test this procedure by conducting credible mock person-down drill at least annually</li> </ul>
<b>Arcadis PM or backup</b>	<ul style="list-style-type: none"> <li>Report facts regarding the event ASAP (i.e. within 1-2 hours and absolutely no later than end of shift Arcadis Chevron LT and Arcadis Corporate H&amp;S; and according to timelines to CVX PM per Level 1/2/3 requirements noted. <ul style="list-style-type: none"> <li>To the extent practical, given event circumstances, Arcadis Chevron LT notification should be done by Arcadis PM (for consistent transfer of facts) but may be delegated (preferably SS or SHSO)</li> </ul> </li> <li>Assist SS/SHSO in gathering of facts, timelines and information to support Arcadis and Chevron incident investigation and reporting process</li> <li>Act as primary point of contact with Chevron PM throughout this process</li> <li>Verify that project team has conducted mock person-down drills at least annually</li> </ul>
<b>Arcadis Chevron H&amp;S Coordinator</b>	<ul style="list-style-type: none"> <li>Coordinate with Arcadis PM, SS and SHSO to verify that appropriate facts, timelines and information are gathered to support Arcadis and Chevron incident investigation and reporting process</li> <li>Participate in Arcadis and Chevron incident reporting process and review documentation</li> <li>Assist Arcadis PM as point of contact with Chevron PM and Chevron H&amp;S management</li> <li>Coordinate with WorkCare and Corporate H&amp;S to ensure appropriate care management</li> </ul>

## Route to the Hospital

**Hospital Name:** Virginia Mason Emergency Department

**Hospital Phone Number:** 206-583-6433

**Hospital Address:** 1010 Spring St, Seattle, WA 98101



Head south on Queen Anne Ave North  
Use the left 2 lanes to turn left onto Denny Way  
Turn right onto Spring Street  
Destination will be on the right

## Site Type

The project site is an active facility with the following attributes:

Commercial	
Parking Lot/Private Drive (NON ROW)	

Work in parking lots will require preparation of a Non-ROW Traffic Safety Plan.

## Surrounding Land Use and Topography

The site is located in an urban commercial area of the Queen Anne neighbourhood in Seattle. The site is on a corner, bounded by Queen Anne Ave N to the East and W Roy St to the North. W Mercer St is located on the southern end of the block. The area experiences high road traffic. The property is generally flat, with surrounding areas sloping downhill to the west toward Puget Sound. Area elevations range from approximately 100 to 150 feet above sea level.

## Simultaneous Operations (SimOps)

Planned Arcadis site work will not be in proximity to SimOps work activities performed by non Arcadis employees or subcontractors. Arcadis will initiate stop work and evaluate the work activities through the JSA process if during the course of work a SimOps activity is identified that could reasonably affect health and safety of Arcadis employees and subcontractors. There are no known releases at the site. The impacts at the site are believed to be from numerous, unidentified historical releases between 1927 and 1993 when the property served as a gas station.

## Site Background

The site and existing building are currently vacant, and the parking lot is utilized as a paid parking lot operated by Republic Parking. The exterior portions of the site outside the vacant building are asphalt paved. The shallow water bearing zone, present across the site, is typically found perched above the Lawton Clay. Depth to this water bearing zone ranges from approximately 10 to 13.5 feet bgs, beneath the eastern portion of the site, to 18 to 24 feet bgs beneath the western portion. There is no known specific release at the site. The impacts at the site are believed to be from numerous, unidentified historical releases between 1927 and 1993 when the property served as a gas station. Current COCs at the site are GRO, DRO, and HO, BTEX compounds, CVOCs, lead, arsenic, and naphthalenes.

**Project Tasks**

The following tasks are identified for this project:

1	Decontamination - Small or hand-held objects using mechanical methods
2	Mobilization - Loading and unloading vehicles
3	Monitor well - Well installation, development, or purging contractor oversight
4	Monitor well - Well development and purging using manual methods
5	Monitor well - Well sounding, water level or product measurements using probes, tapes or downhole water
6	Monitoring - Arcadis oversight of air monitoring using handheld or stationary equipment - non-radiation
7	Sampling - Pressurized air sampling using sample cylinders or similar devices
8	Oversight - Oversight of contractors
9	Sampling - Well sampling using mechanical methods
10	Survey - Land surveying
11	Utilities - Clearance
12	Waste - Liquid waste sampling using manual methods
13	Waste - Solid waste sampling using manual methods
14	Waste- Arcadis oversight of contractors performing IDW containment, segregation and/or sampling
15	Waste - Containment of IDW in small containment devices greater than 10 gallons but less than or equal to
16	Drilling - Using mechanical methods
17	Sampling - Free product - all media and all manual methods
18	Select
19	Select
20	Select

Supplemental requirements associated with the above task(s):  
 A Washington Heat Illness Prevention Plan (HIPP) is attached.

The Arcadis Utility Clearance Checklist must be used for utility clearance activities.

Subcontractor H&S information is attached.

Site access agreements and/or a discussion of proper procedures for accessing off-site non-client owned

<input checked="" type="checkbox"/>	Required Checklists/Work Forms
	<i>Tailgate Safety Briefing Form</i>
	<i>Vehicle Inspection Checklist</i>
	<i>Utility and Structures Checklist</i>

<input type="checkbox"/>	Required Permits
	<i>Not Applicable</i>
<input checked="" type="checkbox"/>	Required H&S Standards
	<i>First Aid/CPR_ARC HSGE004</i>
	<i>Heat Stress Prevention_ARC HSIH013</i>
	<i>Utility Location Procedures_ARC HSFS019</i>

**Short Service Employees (SSEs)**

SSEs (employees who are employed with Arcadis for less than 1 year or are Inexperienced Workers) have the potential to work on this project. If SSEs are utilized, the project team working in conjunction with the SSE's administrative supervisor will ensure requirements of ARC HSGE019 "Short Service Employees" are completed. SSE's will be identified on the project Tailgate Safety Meeting Form.

## Roles and Responsibilities

Name	Role	Short Service Employee
1 Ada Hamilton	Project Manager (PM)	No
2 Ophelie Encelle	Associate Project Manager (APM)	No
3 Julia Vidonish Aspinall	Task Manager	No
4 Daniel Gilbert	Field Technical Lead	No
5 Daniel Gilbert	Site Safety Officer (SSO)	No
6 Trevor Bryant	Field Technician	No
7 Kiley Zaubi	Field Technician	No
8 Brian Pauley	Field Technician	No
9		
10		

## Training

All Arcadis employees are required to have the following training to be on site:

Selected Arcadis employees are required to have the following additional training:

	Names or Numbers from above
Defensive Driving - Smith On-Line	Benzene - General Awareness 4, 5
H&S Program Orientation (non-certificate)	DOT HazMat #1 4, 5
HAZCOM GHS/EAP (non-certificate)	Fire Extinguisher (non-certificate) 4, 5
Hazwoper 40-Hour	First Aid/CPR 4, 5
Hazwoper 8-Hour Annual Refresher	Hazwoper 8-Hour Supervisor 4, 5
PPE (non-certificate)	Hearing Conservation/Protection 4, 5
Heat Stress	None
Silica General Awareness	None
None	None
Client specific:	None
Chevron 101	None
Other:	Other:

## The Arcadis Fundamental H&S Principles

Staff working on any of the task(s) listed above must utilize the six Arcadis Fundamental H&S Principles to ensure work is conducted safely. These principles include: 1) Use of TRACK, 2) H&S Planning, 3) Stop Work Authority, 4) "If Not Me Then Who", 5) Stewardship, and 6) Incident Reporting. Every project team member plays an important role in project health and safety. This is more than just having a HASP, training, or PPE. Proactive staff engagement with these principles is critical to a safe work environment.



## General Task Hazard Assessment and Risk Control (HARC)

### General: Hazards Applicable to All Project Tasks

The 12 hazard category HARC ratings are not available in this General THA. The mitigated and unmitigated ratings for the hazards presented are based on the Risk Assessment Matrix below. Modify hazards and ratings as necessary to meet project needs.

Risk Assessment Matrix		Likelihood Ratings			
Consequences Ratings		A	B	C	D
People	Property	0 Almost Impossible	1 Possible but Unlikely	2 Likely to Happen	3 Almost Certain to Happen
1-Slight or No Health Effect	Slight or No Damage	0-Low	1-Low	2-Low	3-Low
2-Minor Health Effect	Minor Damage	0-Low	2-Low	4-Medium	6-Medium
3-Major Health Effect	Local Damage	0-Low	3-Low	6-Medium	9-High
4-Fatalities	Major Damage	0-Low	4-Medium	8-High	12-High

#### Hazard #1

Driving - On road - Injury or vehicle damage from motor vehicle accident or incident

Suggested FHSB Ref: 3.4 To mitigate this hazard, use TRACK and the following:  
 Overall Unmitigated Risk: **HIGH** Smith System (on line)  
 Mitigated Risk: **MEDIUM** JSAs  
 Comments: Use Smith System "5-Keys" when driving. See Driving JSA for details.

#### Hazard #2

Driving - Driver - Injury, death or property damage due to driver distraction, fatigue, etc.

Suggested FHSB Ref: 3.4, 3.21 To mitigate this hazard, use TRACK and the following:  
 Overall Unmitigated Risk: **HIGH** Smith System (on line)  
 Mitigated Risk: **LOW** Driver awareness and use of stop work authority  
 Comments: Use route planning. Keep eyes moving while driving. See Driving JSA.

#### Hazard #3

Biological - skin/eye irritation or damage from poisonous plants

Suggested FHSB Ref: 3.17.11 To mitigate this hazard, use TRACK and the following:  
 Overall Unmitigated Risk: **LOW** See HASP Tick/Poisonous Plant Section  
 Mitigated Risk: **LOW** Job Briefing/Site Awareness  
 Comments: Use skin pre-treatment lotions when available.

#### Hazard #4

Biological - bites or stings from exposure to insects or arachnids

Suggested FHSB Ref: 3.17: 2,3,7,8,9,10 To mitigate this hazard, use TRACK and the following:  
 Overall Unmitigated Risk: **LOW** PPE (see HASP "PPE" section)  
 Mitigated Risk: **LOW** Job Briefing/Site Awareness  
 Comments: Do body check daily. For ticks see also HASP Tick/Poisonous Plant section

#### Hazard #5

Biological - cuts, scrapes, skin/eye puncture from exposure to physically damaging plants

Suggested FHSB Ref: 3.17.11 To mitigate this hazard, use TRACK and the following:  
 Overall Unmitigated Risk: **MEDIUM** Job Briefing/Site Awareness  
 Mitigated Risk: **LOW** PPE (see HASP "PPE" section)  
 Comments:

**General Task HARC (continued)**

<b>Hazard #6</b>		
Environmental - Thermal stress - Injury or illness from heat or cold		
Suggested FSHB Ref:	3.16	To mitigate this hazard, use TRACK and the following:
Overall Unmitigated Risk:	MEDIUM	Field H&S Handbook (see ref. above)
Mitigated Risk:	LOW	JSAs
Comments:	Use job rotation or rest breaks. Stay hydrated and eat regularly.	
<b>Hazard #7</b>		
Environmental - Inclement weather -Injury or equipment damage from inclement weather		
Suggested FSHB Ref:	3.12	To mitigate this hazard, use TRACK and the following:
Overall Unmitigated Risk:	MEDIUM	Weather Monitoring
Mitigated Risk:	LOW	Cont./Emerg. Planning
Comments:	Use 30/30 rule for lightning. See FSHB for details.	
<b>Hazard #8</b>		
Motion - Musculoskeletal - Injury from lifting, twisting , stooping, or awkward body positions		
Suggested FSHB Ref:	3.29.1	To mitigate this hazard, use TRACK and the following:
Overall Unmitigated Risk:	MEDIUM	Engineering Controls (specify in comments)
Mitigated Risk:	LOW	Admin. Controls (specify in comments)
Comments:	Use proper lifting techniques. Use job rotation when applicable. See FSHB for details.	
<b>Hazard #9</b>		
Motion - Musculoskeletal - Injury from repeated work activity or body motion		
Suggested FSHB Ref:	3.29.2	To mitigate this hazard, use TRACK and the following:
Overall Unmitigated Risk:	MEDIUM	Engineering Controls (specify in comments)
Mitigated Risk:	LOW	Admin. Controls (specify in comments)
Comments:	Use proper lifting techniques. Use job rotation when applicable. See FSHB for details.	
<b>Hazard #10</b>		
Sound - Noise - Injury or illness due to noise exposure		
Suggested FSHB Ref:	3.15	To mitigate this hazard, use TRACK and the following:
Overall Unmitigated Risk:	MEDIUM	Engineering Controls (specify in comments)
Mitigated Risk:	LOW	PPE (see HASP "PPE" section)
Comments:	Increase distance from source if possible. Maintain equipment.	
<b>Hazard #11</b>		
Gravity - Falls - Injury due to slips and trips		
Suggested FSHB Ref:	3.26.4, 4.11	To mitigate this hazard, use TRACK and the following:
Overall Unmitigated Risk:	MEDIUM	Site Awareness
Mitigated Risk:	LOW	Housekeeping
Comments:	Use footwear appropriate for site conditions, plan routes and do not hurry while walking.	

**Task Specific HARC**

Task 1:		Decontamination - Small or hand-held objects using mechanical methods					
HARC Unmitigated Hazard Types (H-High, M-Medium, L-Low):						FHSHB Ref:	3.10.4
Biological	L	Chemical	M	Driving	-	Electrical	-
Environmental	L	Gravity	L	Mechanical	L	Motion	L
Personal Safety	M	Pressure	L	Radiation	-	Sound	M

**Hazard #1**

Chemical - liquids, skin or eye irritation/damage/allergy

Suggested FHSHB Ref: 3.9, 3.22, 3.30, 3.33 To mitigate this hazard, use TRACK and the following:  
 Overall Unmitigated Risk: MEDIUM PPE (see HASP "PPE" section)  
 Mitigated Risk: LOW JSAs  
 Comments: Be aware of chemicals on site, wear appropriate PPE (eg nitrile gloves)

**Hazard #2**

Chemical - solids/particulates, skin or eye irritation/damage/allergy

Suggested FHSHB Ref: 3.9, 3.22, 3.30, 3.33 To mitigate this hazard, use TRACK and the following:  
 Overall Unmitigated Risk: MEDIUM PPE (see HASP "PPE" section)  
 Mitigated Risk: LOW JSAs  
 Comments: Be aware of chemicals on site, wear appropriate PPE (eg nitrile gloves)

**Task Specific HARC (continued)**

Task 2:		Mobilization - Loading and unloading vehicles					
HARC Unmitigated Hazard Types (H-High, M-Medium, L-Low):						FHSHB Ref:	3.9
Biological	-	Chemical	L	Driving	-	Electrical	L
Environmental	L	Gravity	M	Mechanical	L	Motion	M
Personal Safety	L	Pressure	L	Radiation	L	Sound	L

**Hazard #1**

Motion - Struck by - Bodily injury from impact with moving object

Suggested FHSHB Ref: 2.5, 3.22 To mitigate this hazard, use TRACK and the following:  
 Overall Unmitigated Risk: MEDIUM HASP  
 Mitigated Risk: LOW JSAs  
 Comments: Be aware of vehicular traffic in the parking lot

**Hazard #2**

Gravity - Struck by - Injury from falling object

Suggested FHSHB Ref: 3.26.2 To mitigate this hazard, use TRACK and the following:  
 Overall Unmitigated Risk: MEDIUM HASP  
 Mitigated Risk: LOW JSAs  
 Comments: Ensure packed items are stable and secure in vehicle, use straps when necessary

**Hazard #3**

**Task Specific HARC (continued)**

Task 3:		Monitor well - Well installation, development, or purging contractor oversight					
HARC Unmitigated Hazard Types (H-High, M-Medium, L-Low):		FHSB Ref:				3.9	
Biological	L	Chemical	L	Driving	-	Electrical	-
Environmental	L	Gravity	M	Mechanical	L	Motion	L
Personal Safety	-	Pressure	L	Radiation	-	Sound	M
<b>Hazard #1</b>							
Mechanical - Pinch point - Injury by pinching of body part in mechanical process							
Suggested FHSB Ref:		3.27.4		To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:		MEDIUM		PPE (see HASP "PPE" section)			
Mitigated Risk:		LOW		Machine Guarding			
Comments:		Be aware of moving parts, communicate with operator before approaching					
<b>Hazard #2</b>							
Motion - Struck by - Bodily injury from impact with moving object							
Suggested FHSB Ref:		2.5, 3.22		To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:		MEDIUM		Site Awareness			
Mitigated Risk:		LOW		Engineering Controls (specify in comments)			
Comments:		Be aware of moving parts, communicate with operator before approaching					

**Task Specific HARC (continued)**

Task 4:		Monitor well - Well development and purging using manual methods					
HARC Unmitigated Hazard Types (H-High, M-Medium, L-Low):		FHSB Ref:				3.9	
Biological	L	Chemical	L	Driving	-	Electrical	-
Environmental	M	Gravity	L	Mechanical	-	Motion	M
Personal Safety	L	Pressure	-	Radiation	-	Sound	L
<b>Hazard #1</b>							
Motion - Struck by - Bodily injury from impact with moving object							
Suggested FHSB Ref:		2.5, 3.22		To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:		MEDIUM		JSAs			
Mitigated Risk:		LOW		Site Awareness			
Comments:		Be aware of moving parts, communicate with operator before approaching					
<b>Hazard #2</b>							
Chemical - liquids, skin or eye irritation/damage/allergy							
Suggested FHSB Ref:		3.9, 3.22, 3.30, 3.33		To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:		MEDIUM		PPE (see HASP "PPE" section)			
Mitigated Risk:		LOW		WorkCare			
Comments:		Be aware of chemicals on site, wear appropriate PPE (eg nitrile gloves)					

**Task Specific HARC (continued)**

Task 5:		Monitor well - Well sounding, water level or product measurements using probes, ta					
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HARC Unmitigated Hazard Types (H-High, M-Medium, L-Low):

FHSHB Ref: 3.9

Biological	L	Chemical	L	Driving	-	Electrical	-
Environmental	L	Gravity	M	Mechanical	-	Motion	L
Personal Safety	-	Pressure	L	Radiation	-	Sound	L

**Hazard #1**

Motion - Struck by - Bodily injury from impact with moving object

Suggested FHSHB Ref: 2.5, 3.22 To mitigate this hazard, use TRACK and the following:

Overall Unmitigated Risk: MEDIUM JSAs  
 Mitigated Risk: LOW Site Awareness

Comments: Ensure packed items are stable and secure in vehicle, use straps when necessary

**Hazard #2**

Gravity - Struck by - Injury from falling object

Suggested FHSHB Ref: 3.26.2 To mitigate this hazard, use TRACK and the following:

Overall Unmitigated Risk: MEDIUM PPE (see HASP "PPE" section)  
 Mitigated Risk: LOW Job Briefing/Site Awareness

Comments: Keep equipment secured during use

**2 Hazard #3**

Chemical- liquids - injury or illness from skin absorption

Suggested FHSHB Ref: 3.9, 3.22, 3.30, 3.33 To mitigate this hazard, use TRACK and the following:

Overall Unmitigated Risk: MEDIUM PPE (see HASP "PPE" section)  
 Mitigated Risk: LOW JSAs

Comments: Be aware of chemicals on site, wear appropriate PPE (eg nitrile gloves)

**Hazard #4**

Chemical - liquids, skin or eye irritation/damage/allergy

Suggested FHSHB Ref: 3.9, 3.22, 3.30, 3.33 To mitigate this hazard, use TRACK and the following:

Overall Unmitigated Risk: MEDIUM PPE (see HASP "PPE" section)  
 Mitigated Risk: LOW SDS (see also HASP Hazcom/GHS section)

Comments: Be aware of chemicals on site, wear appropriate PPE (eg nitrile gloves)

**Hazard #5**

Chemical - liquids - injury or illness from vapor inhalation

Suggested FHSHB Ref: 3.2, 3.22, 3.30, 3.33 To mitigate this hazard, use TRACK and the following:

Overall Unmitigated Risk: MEDIUM Respiratory Protection Training  
 Mitigated Risk: LOW Job Briefing/Site Awareness

Comments: Be aware of action levels

**Task Specific HARC (continued)**

Task 6:		Monitoring - Arcadis oversight of air monitoring using handheld or stationary equip					
HARC Unmitigated Hazard Types (H-High, M-Medium, L-Low):		FHSB Ref:				5.7	
Biological	L	Chemical	L	Driving	-	Electrical	L
Environmental	L	Gravity	L	Mechanical	L	Motion	L
Personal Safety	L	Pressure	-	Radiation	-	Sound	L
<b>Hazard #1</b>							
Mechanical - Pinch point - Injury by pinching of body part in mechanical process							
Suggested FHSB Ref:		3.27.4		To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:		MEDIUM		Inspections			
Mitigated Risk:		LOW		PPE (see HASP "PPE" section)			
Comments:		Be aware of moving parts, communicate with operator					
<b>Hazard #2</b>							
Motion - Struck by - Bodily injury from impact with moving object							
Suggested FHSB Ref:		2.5, 3.22		To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:		MEDIUM		JSAs			
Mitigated Risk:		LOW		Job Briefing/Site Awareness			
Comments:		Understand process, be aware of moving parts on and around the machine					
<b>Hazard #3</b>							

**Task Specific HARC (continued)**

Task 7:		Sampling - Pressurized air sampling using sample cylinders or similar devices					
HARC Unmitigated Hazard Types (H-High, M-Medium, L-Low):		FHSB Ref:				3.9	
Biological	L	Chemical	L	Driving	-	Electrical	-
Environmental	-	Gravity	L	Mechanical	L	Motion	L
Personal Safety	-	Pressure	M	Radiation	-	Sound	L
<b>Hazard #1</b>							
Pressure - Compressed gas - Injury or illness from damaged cylinder/ valve due improper use or handling							
Suggested FHSB Ref:		3.32		To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:		HIGH		JSAs			
Mitigated Risk:		LOW		Engineering Controls (specify in comments)			
Comments:		Inspect equipment for damage before use and know process					
<b>Hazard #2</b>							
Mechanical - Pinch point - Injury by pinching of body part in mechanical process							
Suggested FHSB Ref:		3.27.4		To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:		MEDIUM		Operator Competency per Standard			
Mitigated Risk:		LOW		PPE (see HASP "PPE" section)			
Comments:		Be aware of moving parts, making connections on hand tools					
<b>Hazard #3</b>							

**Task Specific HARC (continued)**

Task 8:		Oversight - Oversight of contractors					
HARC Unmitigated	Hazard Types (H-High, M-Medium, L-Low):					FHSHB Ref:	3.9
Biological	L	Chemical	L	Driving	L	Electrical	L
Environmental	L	Gravity	L	Mechanical	L	Motion	L
Personal Safety	L	Pressure	L	Radiation	L	Sound	L
<b>Hazard #1</b>							
Motion - Cuts and scrapes - Injury from moving object impacting skin or eye							
Suggested FHSHB Ref:	2.5, 3.22			To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:	MEDIUM			Site Awareness			
Mitigated Risk:	LOW			PPE (see HASP "PPE" section)			
Comments:	Wear cut resistant work gloves when opening wells						
<b>Hazard #2</b>							
Pressure - Hydraulic - Injury from hydraulic process or device failure							
Suggested FHSHB Ref:	2.5, 4.5, 4.6			To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:	MEDIUM			Specialized Training per Standard			
Mitigated Risk:	LOW			Engineering Controls (specify in comments)			
Comments:	SHSO inspect equipment before use						

**Task Specific HARC (continued)**

Task 9:		Sampling - Well sampling using mechanical methods					
HARC Unmitigated	Hazard Types (H-High, M-Medium, L-Low):					FHSHB Ref:	3.9
Biological	L	Chemical	M	Driving	-	Electrical	L
Environmental	M	Gravity	M	Mechanical	L	Motion	M
Personal Safety	L	Pressure	L	Radiation	-	Sound	M
<b>Hazard #1</b>							
Chemical- liquids - injury or illness from skin absorption							
Suggested FHSHB Ref:	3.9, 3.22, 3.30, 3.33			To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:	MEDIUM			PPE (see HASP "PPE" section)			
Mitigated Risk:	LOW			JSAs			
Comments:	Be aware of chemicals on site, wear appropriate PPE (eg nitrile gloves)						
<b>Hazard #2</b>							
Chemical - liquids, skin or eye irritation/damage/allergy							
Suggested FHSHB Ref:	3.9, 3.22, 3.30, 3.33			To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:	MEDIUM			PPE (see HASP "PPE" section)			
Mitigated Risk:	LOW			SDS (see also HASP Hazcom/GHS section)			
Comments:	Be aware of chemicals on site, wear appropriate PPE (eg nitrile gloves)						
<b>Hazard #3</b>							
Motion - Cuts and scrapes - Injury from moving object impacting skin or eye							

Suggested FSHB Ref:	2.5, 3.22	To mitigate this hazard, use TRACK and the following:
Overall Unmitigated Risk:	<b>MEDIUM</b>	Machine Guarding
Mitigated Risk:	<b>LOW</b>	Inspections
Comments:	Use caution when handling bottleware; do not overtighten lids	

**Task Specific HARC (continued)**

Task 10:	Survey - Land surveying						
HARC Unmitigated Hazard Types (H-High, M-Medium, L-Low):	FSHB Ref:			3.9			
Biological	<b>M</b>	Chemical	-	Driving	-	Electrical	-
Environmental	<b>M</b>	Gravity	<b>M</b>	Mechanical	-	Motion	<b>M</b>
Personal Safety	<b>L</b>	Pressure	-	Radiation	-	Sound	<b>L</b>
<b>Hazard #1</b>							
Motion - Struck by - Bodily injury from impact with moving object							
Suggested FSHB Ref:	2.5, 3.22		To mitigate this hazard, use TRACK and the following:				
Overall Unmitigated Risk:	<b>MEDIUM</b>		JSAs				
Mitigated Risk:	<b>LOW</b>		Site Awareness				
Comments:	Be aware of action levels						
<b>Hazard #2</b>							
Motion - Struck by - Bodily injury from impact with moving object							
Suggested FSHB Ref:	2.5, 3.22		To mitigate this hazard, use TRACK and the following:				
Overall Unmitigated Risk:	<b>MEDIUM</b>		Site Awareness				
Mitigated Risk:	<b>LOW</b>		H&S Standards				
Comments:	Be aware of vehicular traffic in parking lot						
<b>Hazard #3</b>							
Environmental - Sun or wind -Skin injury from sun or wind exposure							
Suggested FSHB Ref:	3.12		To mitigate this hazard, use TRACK and the following:				
Overall Unmitigated Risk:	<b>MEDIUM</b>		PPE (see HASP "PPE" section)				
Mitigated Risk:	<b>LOW</b>		JSAs				
Comments:	Wear long-sleeve shirt, apply sunscreen☐						

**Task Specific HARC (continued)**

Task 11:	Utilities - Clearance						
HARC Unmitigated	Hazard Types (H-High, M-Medium, L-Low):			FHSHB Ref: 3.36			
Biological	L	Chemical	L	Driving	-	Electrical	M
Environmental	L	Gravity	L	Mechanical	M	Motion	M
Personal Safety	L	Pressure	L	Radiation	-	Sound	L
<b>Hazard #1</b>							
Mechanical - Pinch point - Injury by pinching of body part in mechanical process							
Suggested FHSHB Ref:		3.27.4		To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:		MEDIUM		PPE (see HASP "PPE" section)			
Mitigated Risk:		LOW		Inspections			
Comments:		Be aware of moving parts when setting equipment up					
<b>Hazard #2</b>							
Motion - Struck by - Bodily injury from impact with moving object							
Suggested FHSHB Ref:		2.5, 3.22		To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:		MEDIUM		Site Awareness			
Mitigated Risk:		LOW		H&S Standards			
Comments:		Be aware of vehicular traffic in parking lot					

**Task Specific HARC (continued)**

Task 12:	Waste - Liquid waste sampling using manual methods						
HARC Unmitigated	Hazard Types (H-High, M-Medium, L-Low):			FHSHB Ref: 3.31			
Biological	L	Chemical	M	Driving	-	Electrical	-
Environmental	M	Gravity	M	Mechanical	-	Motion	M
Personal Safety	L	Pressure	L	Radiation	-	Sound	L
<b>Hazard #1</b>							
Chemical- liquids - injury or illness from skin absorption							
Suggested FHSHB Ref:		3.9, 3.22, 3.30, 3.33		To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:		MEDIUM		PPE (see HASP "PPE" section)			
Mitigated Risk:		LOW		JSAs			
Comments:		Be aware of contaminants, wear nitrile gloves					
<b>Hazard #2</b>							
Chemical - liquids - injury or illness from vapor inhalation							
Suggested FHSHB Ref:		3.2, 3.22, 3.30, 3.33		To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:		MEDIUM		Respiratory Protection Training			
Mitigated Risk:		LOW		SDS (see also HASP Hazcom/GHS section)			
Comments:		Be aware of contaminants that present an inhalation danger					
<b>Hazard #3</b>							
Chemical - liquids, skin or eye irritation/damage/allergy							
Suggested FHSHB Ref:		3.9, 3.22, 3.30, 3.33		To mitigate this hazard, use TRACK and the following:			
Overall Unmitigated Risk:		MEDIUM		PPE (see HASP "PPE" section)			
Mitigated Risk:		LOW		SDS (see also HASP Hazcom/GHS section)			
Comments:		Be aware of contaminants, wear nitrile gloves					
<b>Hazard #4</b>							
Mechanical - Pinch point - Injury by pinching of body part in mechanical process							
Suggested FHSHB Ref:		3.27.4		To mitigate this hazard, use TRACK and the following:			

Overall Unmitigated Risk:	<b>MEDIUM</b>	Operator Competency per Standard
Mitigated Risk:	<b>LOW</b>	Field H&S Handbook (see ref. above)
Comments:	Be aware of pinch point hazards at drum lid and ring	
<b>Hazard #5</b>		
Motion - Cuts and scrapes - Injury from moving object impacting skin or eye		
Suggested FHSB Ref:	2.5, 3.22	To mitigate this hazard, use TRACK and the following:
Overall Unmitigated Risk:	<b>MEDIUM</b>	PPE (see HASP "PPE" section)
Mitigated Risk:	<b>LOW</b>	Site Awareness
Comments:	Use caution when handling bottleware, do not overtighten lids	

**Task Specific HARC (continued)**

Task 13:	Waste - Solid waste sampling using manual methods							
HARC Unmitigated	Hazard Types (H-High, M-Medium, L-Low):				FHSB Ref: 3.31			
Biological	<b>L</b>	Chemical	<b>L</b>	Driving	-	Electrical	-	
Environmental	<b>M</b>	Gravity	<b>M</b>	Mechanical	-	Motion	<b>M</b>	
Personal Safety	<b>L</b>	Pressure	<b>L</b>	Radiation	-	Sound	<b>L</b>	
<b>Hazard #1</b>								
Chemical- solids/particulates - injury or illness from skin absorption								
Suggested FHSB Ref:	3.9, 3.22, 3.30, 3.33			To mitigate this hazard, use TRACK and the following:				
Overall Unmitigated Risk:	<b>MEDIUM</b>			PPE (see HASP "PPE" section)				
Mitigated Risk:	<b>LOW</b>			JSAs				
Comments:	Be aware of contaminants, wear nitrile gloves							
<b>Hazard #2</b>								
Chemical - solids/particulates, skin or eye irritation/damage/allergy								
Suggested FHSB Ref:	3.9, 3.22, 3.30, 3.33			To mitigate this hazard, use TRACK and the following:				
Overall Unmitigated Risk:	<b>MEDIUM</b>			PPE (see HASP "PPE" section)				
Mitigated Risk:	<b>LOW</b>			SDS (see also HASP Hazcom/GHS section)				
Comments:	Be aware of contaminants, wear nitrile gloves							
<b>Hazard #3</b>								
Chemical - solids/particulates, injury or illness from inhalation								
Suggested FHSB Ref:	3.2, 3.22, 3.30, 3.33			To mitigate this hazard, use TRACK and the following:				
Overall Unmitigated Risk:	<b>MEDIUM</b>			See HASP "Monitoring" section				
Mitigated Risk:	<b>LOW</b>			SDS (see also HASP Hazcom/GHS section)				
Comments:	Be aware of contaminants that present an inhalation danger							
<b>Hazard #4</b>								
Mechanical - Pinch point - Injury by pinching of body part in mechanical process								
Suggested FHSB Ref:	3.27.4			To mitigate this hazard, use TRACK and the following:				
Overall Unmitigated Risk:	<b>MEDIUM</b>			Operator Competency per Standard				
Mitigated Risk:	<b>LOW</b>			Field H&S Handbook (see ref. above)				
Comments:	Be aware of pinch point hazards at drum lid and ring							
<b>Hazard #5</b>								
Motion - Cuts and scrapes - Injury from moving object impacting skin or eye								
Suggested FHSB Ref:	2.5, 3.22			To mitigate this hazard, use TRACK and the following:				
Overall Unmitigated Risk:	<b>MEDIUM</b>			PPE (see HASP "PPE" section)				
Mitigated Risk:	<b>LOW</b>			Site Awareness				
Comments:	Use caution when handling bottleware, do not overtighten lids							

**Task Specific HARC (continued)**

Task 14:	Waste- Arcadis oversight of contractors performing IDW containment, segregation and/or sampling						
HARC Unmitigated	Hazard Types (H-High, M-Medium, L-Low):			FHSB Ref: 3.31			
Biological	L	Chemical	L	Driving	-	Electrical	-
Environmental	M	Gravity	L	Mechanical	-	Motion	L
Personal Safety	L	Pressure	L	Radiation	-	Sound	L
<b>Hazard #1</b>							
Environmental - Sun or wind -Skin injury from sun or wind exposure							
Suggested FHSB Ref: 3.12		To mitigate this hazard, use TRACK and the following:					
Overall Unmitigated Risk: MEDIUM		JSAs					
Mitigated Risk: LOW		PPE (see HASP "PPE" section)					
Comments:							

### Task Specific HARC (continued)

Task 15:	Waste - Containment of IDW in small containment devices greater than 10 gallons but less than or equal to 55 gallons						
HARC Unmitigated	Hazard Types (H-High, M-Medium, L-Low):			FHSB Ref: 3.3			
Biological	L	Chemical	M	Driving	-	Electrical	-
Environmental	M	Gravity	M	Mechanical	L	Motion	M
Personal Safety	L	Pressure	L	Radiation	-	Sound	L
<b>Hazard #1</b>							
Chemical- solids/particulates - injury or illness from skin absorption							
Suggested FHSB Ref: 3.9, 3.22, 3.30, 3.33		To mitigate this hazard, use TRACK and the following:					
Overall Unmitigated Risk: MEDIUM		HASP					
Mitigated Risk: LOW		PPE (see HASP "PPE" section)					
Comments: Be aware of contaminants, wear appropriate gloves							
<b>Hazard #2</b>							
Chemical - solids/particulates, skin or eye irritation/damage/allergy							
Suggested FHSB Ref: 3.9, 3.22, 3.30, 3.33		To mitigate this hazard, use TRACK and the following:					
Overall Unmitigated Risk: MEDIUM		HASP					
Mitigated Risk: LOW		PPE (see HASP "PPE" section)					
Comments: Be aware of contaminants, wear appropriate gloves							
<b>Hazard #3</b>							
Mechanical - Pinch point - Injury by pinching of body part in mechanical process							
Suggested FHSB Ref: 3.27.4		To mitigate this hazard, use TRACK and the following:					
Overall Unmitigated Risk: MEDIUM		Operator Competency per Standard					
Mitigated Risk: LOW		Field H&S Handbook (see ref. above)					
Comments: Be aware of pinch point hazards at drum lid and ring							
<b>Hazard #4</b>							
Chemical - liquids - injury or illness from vapor inhalation							
Suggested FHSB Ref: 3.2, 3.22, 3.30, 3.33		To mitigate this hazard, use TRACK and the following:					
Overall Unmitigated Risk: MEDIUM		HASP					
Mitigated Risk: LOW		SDS (see also HASP Hazcom/GHS section)					
Comments: Be aware of action levels							
<b>Hazard #5</b>							
Chemical- liquids - injury or illness from skin absorption							
Suggested FHSB Ref: 3.9, 3.22, 3.30, 3.33		To mitigate this hazard, use TRACK and the following:					
Overall Unmitigated Risk: MEDIUM		PPE (see HASP "PPE" section)					
Mitigated Risk: LOW		JSAs					

Comments: Be aware of contaminants, wear nitrile gloves

**Hazard #6**

Chemical - liquids, skin or eye irritation/damage/allergy

Suggested FSHB Ref: 3.9, 3.22, 3.30, 3.33 To mitigate this hazard, use TRACK and the following:

Overall Unmitigated Risk: **MEDIUM** PPE (see HASP "PPE" section)

Mitigated Risk: **LOW** SDS (see also HASP Hazcom/GHS section)

Comments: Be aware of contaminants, wear nitrile gloves

**Task Specific HARC (continued)**

Task 16:		Drilling - Using mechanical methods			
HARC Unmitigated Hazard Types (H-High, M-Medium, L-Low):		FHSB Ref:		4.5	
Biological	L	Chemical	L	Driving	-
Environmental	L	Gravity	M	Mechanical	M
Personal Safety	L	Pressure	L	Radiation	-
				Electrical	M
				Motion	H
				Sound	M
<b>Hazard #1</b>					
Electrical - Electrocutation or arc flash - Injury or death from electrocution or arc flash from electrical					
Suggested FHSB Ref:	3.25,		To mitigate this hazard, use TRACK and the following:		
Overall Unmitigated Risk:	HIGH		Lockout/Tagout		
Mitigated Risk:	MEDIUM		Permits		
Comments:	Use three lines of evidence to clear utilities before digging				
<b>Hazard #2</b>					
Gravity - Struck by - Injury from falling object					
Suggested FHSB Ref:	3.26.2		To mitigate this hazard, use TRACK and the following:		
Overall Unmitigated Risk:	MEDIUM		PPE (see HASP "PPE" section)		
Mitigated Risk:	LOW		Job Briefing/Site Awareness		
Comments:	Be aware of overhead objects				
<b>Hazard #3</b>					
Mechanical - Crushing - Injury by crushing body part in mechanical process					
Suggested FHSB Ref:	3.27.4		To mitigate this hazard, use TRACK and the following:		
Overall Unmitigated Risk:	MEDIUM		Machine Guarding		
Mitigated Risk:	LOW		Site Awareness		
Comments:	Be aware of moving parts, communicate with operator				
<b>Hazard #4</b>					
Motion - Struck by - Bodily injury from impact with moving object					
Suggested FHSB Ref:	2.5, 3.22		To mitigate this hazard, use TRACK and the following:		
Overall Unmitigated Risk:	MEDIUM		Site Awareness		
Mitigated Risk:	LOW		Engineering Controls (specify in comments)		
Comments:	Be aware of moving parts, communicate with operator; wear hard hat				
<b>Hazard #5</b>					
Mechanical - Pinch point - Injury by pinching of body part in mechanical process					
Suggested FHSB Ref:	3.27.4		To mitigate this hazard, use TRACK and the following:		
Overall Unmitigated Risk:	MEDIUM		Operator Competency per Standard		
Mitigated Risk:	LOW		Machine Guarding		
Comments:	Be aware of moving parts, communicate with operator				

**Task Specific HARC (continued)**

Task 17:		Sampling - Free product - all media and all manual methods			
HARC Unmitigated Hazard Types (H-High, M-Medium, L-Low):		FHSB Ref:		3.9	

Biological	L	Chemical	M	Driving	-	Electrical	L
Environmental	L	Gravity	L	Mechanical	L	Motion	L
Personal Safety	L	Pressure	L	Radiation	-	Sound	L

**Hazard #1**

Chemical - liquids - injury or illness from vapor inhalation

Suggested FSHB Ref: 3.2, 3.22, 3.30, 3.33 To mitigate this hazard, use TRACK and the following:  
 Overall Unmitigated Risk: MEDIUM See HASP "Monitoring" section  
 Mitigated Risk: LOW Respiratory Protection Training  
 Comments: Be aware of action levels

**Hazard #2**

Chemical - liquids, skin or eye irritation/damage/allergy

Suggested FSHB Ref: 3.9, 3.22, 3.30, 3.33 To mitigate this hazard, use TRACK and the following:  
 Overall Unmitigated Risk: MEDIUM PPE (see HASP "PPE" section)  
 Mitigated Risk: LOW SDS (see also HASP Hazcom/GHS section)  
 Comments:

**Hazard #3**

Chemical- liquids - injury or illness from skin absorption

Suggested FSHB Ref: 3.9, 3.22, 3.30, 3.33 To mitigate this hazard, use TRACK and the following:  
 Overall Unmitigated Risk: MEDIUM PPE (see HASP "PPE" section)  
 Mitigated Risk: LOW JSAs  
 Comments:

**Hazard #4**

Motion - Cuts and scrapes - Injury from moving object impacting skin or eye

Suggested FSHB Ref: 2.5, 3.22 To mitigate this hazard, use TRACK and the following:  
 Overall Unmitigated Risk: MEDIUM PPE (see HASP "PPE" section)  
 Mitigated Risk: LOW JSAs  
 Comments: Use caution when handling bottleware; do not overtighten lids

**Hazard Communication (HAZCOM)/Global Harmonization System (GHS)**

HAZCOM/GHS for this project is managed by the client or general contractor

List the chemicals anticipated to be used by Arcadis on this project per HAZCOM/GHS requirements.  
(Modify quantities as needed)

Preservatives		Qty	Decontamination		Qty	Calibration		Qty.
<input type="checkbox"/>	Not applicable		<input type="checkbox"/>	Not applicable		<input type="checkbox"/>	Not applicable	
<input checked="" type="checkbox"/>	Hydrochloric acid	<500 ml	<input checked="" type="checkbox"/>	Alconox	≤ 5 lbs	<input checked="" type="checkbox"/>	Isobutylene/air	1 cyl
<input checked="" type="checkbox"/>	Nitric acid	<500 ml	<input type="checkbox"/>	Liquinox	≤ 1 gal	<input checked="" type="checkbox"/>	Methane/air	1 cyl
<input checked="" type="checkbox"/>	Sulfuric acid	<500 ml	<input checked="" type="checkbox"/>	Acetone	≤ 1 gal	<input type="checkbox"/>	Pentane/air	1 cyl
<input checked="" type="checkbox"/>	Sodium hydroxide	<500 ml	<input checked="" type="checkbox"/>	Methanol	≤ 1 gal	<input type="checkbox"/>	Hydrogen/air	1 cyl
<input type="checkbox"/>	Zinc acetate	<500 ml	<input type="checkbox"/>	Hexane	≤ 1 gal	<input type="checkbox"/>	Propane/air	1 cyl
<input type="checkbox"/>	Ascorbic acid	<500 ml	<input type="checkbox"/>	Isopropyl alcohol	≤ 4 gal	<input checked="" type="checkbox"/>	Hydrogen sulfide/air	1 cyl
<input type="checkbox"/>	Acetic acid	<500 ml	<input type="checkbox"/>	Nitric acid	≤ 1 L	<input type="checkbox"/>	Carbon monoxide/air	1 cyl
<input type="checkbox"/>	Isopropyl alcohol	< 4 gal.	<input type="checkbox"/>	Other:		<input checked="" type="checkbox"/>	pH standards (4,7,10)	≤ 1 gal
<input type="checkbox"/>	Formalin (<10%)	< 4 gal.				<input checked="" type="checkbox"/>	Conductivity standards	≤ 1 gal
<input type="checkbox"/>	Methanol	<500 ml				<input checked="" type="checkbox"/>	Other:	
<input type="checkbox"/>	Sodium bisulfate	<500 ml					Multi-Gas Calibration Gas	

Fuels		Qty.	Kits		Qty.
<input type="checkbox"/>	Not applicable		<input checked="" type="checkbox"/>	Not applicable	
<input checked="" type="checkbox"/>	Gasoline	≤ 5 gal	<input type="checkbox"/>	Hach (specify):	1 kit
<input checked="" type="checkbox"/>	Diesel	≤ 5 gal	<input type="checkbox"/>	DTECH (specify):	1 kit
<input type="checkbox"/>	Kerosene	≤ 5 gal	<input type="checkbox"/>	Other:	1 kit
<input type="checkbox"/>	Propane	1 cyl			
<input type="checkbox"/>	Other:				

Remediation		Qty.	Other:		Qty.	DOT(1):		Qty.
<input type="checkbox"/>	Not applicable		<input type="checkbox"/>	Not applicable		<input type="checkbox"/>	MOT eligible soils	
<input type="checkbox"/>			<input checked="" type="checkbox"/>	Spray paint	≤ 6 cans	<input type="checkbox"/>	MOT eligible water	
<input type="checkbox"/>			<input type="checkbox"/>	WD-40	≤ 1 can	<input type="checkbox"/>	MOT eligible solids	
<input type="checkbox"/>			<input type="checkbox"/>	Pipe cement	≤ 1 can	<input type="checkbox"/>	MOT eligible liquids	
<input type="checkbox"/>			<input type="checkbox"/>	Pipe primer	≤ 1 can	<input type="checkbox"/>		
<input type="checkbox"/>			<input type="checkbox"/>	Mineral spirits	≤ 1 gal	<input type="checkbox"/>		

(1) Attach applicable Materials of Trade (MOT) generic shipping determination. SDS not generally applicable to this category.

SDSs for this project will be available electronically on a designated project field computer. All project workers will be notified of the SDS location in their initial safety briefing.

Contractor SDSs will be submitted to Arcadis in advance of work and will be filed with Arcadis SDSs as indicated above.

This project will not be utilizing materials subject to the HAZCOM Standard in bulk storage. In this HASP, bulk storage means any material stored on the project site in a bulk packaging >119 gallons (> 450 L) liquid capacity or a palletized quantity of a material in packaging ≤119 gallons (≤450 L) liquid capacity.

**Air Monitoring**

- There are no atmospheric chemical, radiological, or particulate hazards on this project requiring air monitoring.
- Air monitoring is the responsibility of the client or subcontractor.

**Constituents of Interest:**

Time Weighted Averages (TWAs) are ACGIH 8-Hr Threshold Limit Values (TLVs) unless noted.

**Gasoline**

TWA	30 ppm, Arcadis administrative limit	LEL/UEL (%)	1.4/7.6
STEL	500 ppm	VD (Air = 1):	NA
IDLH	NA	VP (mmHg):	38-300

**Diesel**

Anticipated Breathing Zone Concentration <= 3 mg/m3

TWA	100 mg/m3, skin, (15 ppm Arcadis limit-see PID warning)	LEL/UEL (%)	NA
STEL	NA	VD (Air = 1):	NA
IDLH	NA	VP (mmHg):	NA

TWA - Time Weighted Average (ACGIH TLV unless noted)      LEL/UEL - Lower /Upper Explosive Limit

STEL - Short Term Exposure Limit      RGD - Relative Gas Density

IDLH - Immediately Dangerous to Life and Health      VP - Vapor Pressure

Notes:

One or more constituents above is listed with a skin notation. Avoid conditions where dusts, mists, or aerosols are created. Avoid skin contact with impacted media.

**Required Monitoring Instruments, Action Levels and Monitoring Frequency**

*Gray fields below are not automated. Make necessary selections from drop down menus.*

Photoionization Detector

Select Lamp: 10.6 eV

**Diesel/Fuel Oil: The 15 ppm Arcadis recommended exposure limit for diesel/fuel oil is not included in the computation below. Manual action level adjustment may be required. The PID may provide a slow response to diesel fuel/fuel oil.**

Computed action levels (PID units) (1):		Computed action levels have been manually adjusted.
<	16.7	Continue working
	16.7 - #####	Levels sustained > 5 minutes, monitor continuously and review engineering controls and PPE. Proceed with caution.
>	33.3000	Stop work and contact SSO

(1) Computed action levels are for PIDs which have not been programmed to correct TLVs for specific constituents or mixtures.

Particulate/aerosol monitoring is not required. Re-evaluate if visible dusts or aerosols cannot be controlled.

Action levels are in mg/m3		Computed action levels have been manually adjusted.
<	NA	Continue working

>	NA	Levels sustained > 5 minutes, monitor continuously and review engineering controls and PPE. Proceed with caution.
	NA	Stop work and contact SSO

Breathing zone air monitoring using the above instruments will be performed at the following frequency:

Hourly

If manually logging air monitoring results, all results must be documented, including non-detects.

Standard 4 Gas Monitoring (LEL,O2,H2S,CO) with a multigas meter is required

LEL/O2 Meter  Monitoring Required	0-5% LEL	Continue work
	>5-10% LEL	Continually monitor, review engineering controls, proceed with caution
	>10% LEL	Stop work, evacuate, contact SSO
	19.5%-23.5% O2	Normal, continue work
	<19.5% O2	O2 deficient, stop work, evacuate, contact SSO
	>23.5% O2	O2 enriched, stop work, evacuate, contact SSO

Checked gases require monitoring:

	1/2 TLV	Stop Work Action Level	Comments
<input type="checkbox"/> Ammonia	12.5 ppm	25 ppm	Use a multigas meter equipped with a sensor(s) capable of detecting checked gases identified to the right. Review engineering controls and perform continuous monitoring with data logging at concentrations >1/2 TLV. Stop work action levels are based on Level D protection.
<input checked="" type="checkbox"/> Carbon dioxide	2500 ppm	5000 ppm	
<input checked="" type="checkbox"/> Carbon monoxide	12.5 ppm	25 ppm	
<input type="checkbox"/> Chlorine	0.05 ppm	0.1 ppm	
<input type="checkbox"/> Hydrogen cyanide	2.35 ppm (skin)	4.7 ppm* (skin)	
<input checked="" type="checkbox"/> Hydrogen sulfide	0.5 ppm	1 ppm	
<input type="checkbox"/> Nitrogen dioxide	0.1 ppm	0.2 ppm	
<input type="checkbox"/> Phosphine	0.025 ppm	0.05 ppm	
<input type="checkbox"/> Sulfur dioxide	0.125 ppm	0.25* ppm	
<input type="checkbox"/> Mercury vapor	0.0125 mg/m3	0.025 mg/m3	

\* Ceiling or STEL value

All air-monitoring instruments must be calibration checked daily, if used, per manufacturer's instructions. Calibration checks, including calibration gases used, must be documented.

Compound specific monitoring using indicator tubes or chips is not required.

Indicator:	<input type="checkbox"/> Tube	<input type="checkbox"/> Chip	≤TWA	Continue work
			>TWA	Stop work, review engineering controls and PPE, contact SSO
Compound(s):				

Indicator tube/chip monitoring frequency: Not applicable

## Tick and Poisonous Plant Hazards

For all projects with outdoor work, biological hazards must be addressed in the tailgate safety meeting each day. The following controls must be used to mitigate biological hazards while working and must also be discussed in the tailgate safety meeting. For low risk situations, the discussion must include exposure to weeds/vegetation near fences, buildings, etc.

### Controlling Tick Hazards

*Risk Guide for Ticks:*

<b>Low</b>	Paved areas; parking lots; well manicured lawns and fields; no work taking place within 15 feet of vegetated areas; work in REGIONS with no tick populations; sub-freezing temperatures, snow or ice cover on ground.*
<b>Medium</b>	Brush hogged fields, wetlands, and grasslands; forested areas with little undergrowth; weeds less than knee height; moderately dense foliage; sporadic or moderately vegetated shaded areas; average leaf accumulation and decaying material on the ground; work taking place in fields after application of insecticide; work in REGIONS with a recognized moderate tick populations; outdoor work during spring, summer and fall months.*
<b>High</b>	Uncut fields, wetlands, forested areas, and grasslands; weeds taller than knee height; heavy dense foliage; heavily vegetated shaded areas; excessive accumulations of leaves and decaying material on the ground; work in REGIONS with recognized heavy tick populations; areas with posted tick hazard warnings; outdoor work during spring, summer and fall months.*

\*Cold weather does not eliminate risk of exposure to deer ticks as they may be active all year in areas that experience subfreezing temperatures.

Ticks are ranked as a Low risk for this project

Care should be taken to avoid walking through or working in tall grasses, overgrown or bushy vegetation to the extent reasonable and practical. No single control is effective against ticks.

Select required controls below:

#### Engineering Controls

- Mowing of work area
- Clearing overgrown vegetation
- Pesticide application
- Other: \_\_\_\_\_

#### Administrative Controls

- Complete tick check morning/evening
- Scheduled tick check: \_\_\_\_\_
- Inspect backpacks, equipment cases, etc. daily
- Vehicle cab - maintain good housekeeping
- Other: \_\_\_\_\_

#### Personal Protective Equipment

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Light colored clothing</li> <li><input checked="" type="checkbox"/> Light colored hat/hardhat</li> <li><input type="checkbox"/> Pants tucked in boots</li> <li><input type="checkbox"/> Shirt tucked into pants</li> <li><input checked="" type="checkbox"/> Long sleeved shirt and long pants</li> <li><input type="checkbox"/> White Tyvek pants</li> </ul> | <ul style="list-style-type: none"> <li><input type="checkbox"/> White coveralls/Tyvek</li> <li><input type="checkbox"/> Taped cuffs/pant legs</li> <li><input type="checkbox"/> Tick gators</li> <li><input type="checkbox"/> Double sided tape/duct tape sticky side out</li> <li><input type="checkbox"/> Insect mesh/netting for face/head or whole body suit</li> <li><input type="checkbox"/> Other: _____</li> </ul> |
|--|--|

Heat stress signs/symptoms and controls to also be addressed in tailgate safety meeting if temperatures >80°F

#### Repellents

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Repellents will not be used             | <input type="checkbox"/> Deet 20-40% applied to skin |
| <input type="checkbox"/> Permethrin impregnated clothing (purchased)        | <input type="checkbox"/> Other: _____                |
| <input type="checkbox"/> Permethrin (0.5% self applied/treated to clothing) |  |

If repellents are not used, additional PPE controls must be considered.

#### Tick Removal and First Aid

Ticks removed within 24 hours of embedment represent a very low risk for adverse outcomes.

Perform tick checks as directed above. To properly remove a tick:

*Using a Tick Removal Tool*

*Using Tweezers*

**3 Easy Steps To Complete Tick Removal**

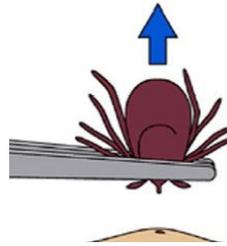
**1** Stamped Side Up  
Place the Key over the tick in the tear-drop hole.

**2**  
Slide Tick Key flush against the skin to entrap tick in tapered slot.

**3**  
Do NOT Lift Tick Key. Continue pulling quickly in the same direction for proper removal.

- Early and proper tick removal is known to help prevent tick-borne diseases.
- Tick Key is made of durable, high-strength anodized aluminum. Disinfect with alcohol after each use. Thoroughly wash bite area and hands.

**Use as directed. For tick removal only.**



- 1) Use point tip tweezers, if available, to reduce potential of crushing the ticks body
- 2) Grasp the tick as close to skin as possible
- 3) Pull upward with even pressure.

Do not crush tick with fingers

After removal, wash affected area with alcohol or iodine. Wash hands thoroughly after removal. Document date/time of the removal in field notes, field form or H&S app. If rash or fever develops, call WorkCare

**Poisonous Plants (Poison Ivy, Poison Oak, Poison Sumac)**

All work outdoors, regardless of time of year, must address poisonous plant hazards and controls in the tailgate safety meeting. For low risk projects, the discussion should consider potential vegetation exposure near fences, buildings, work near trees, etc.

**Controlling Exposure to Poisonous Plants**

Poisonous Plants are ranked as a **Low** risk on this project

Select required controls below:

*Engineering Controls*

- Not applicable
- Mowing of work area
- Clearing overgrown vegetation
- Herbicide application
- Other: \_\_\_\_\_

*Administrative Controls*

- Identify and avoid (see ID Quick Guide below)
- Watch for signs or symptoms of exposure
- Vehicle cab - maintain good housekeeping
- Other: \_\_\_\_\_

*Personal Protective Equipment*

- Gloves
- Hat/hardhat/head covering
- Pants tucked in boots
- Shirt tucked into pants
- Long sleeved shirt and long pants

- White coveralls/Tyvek
- Taped cuffs/pant legs
- Dust mask (during burning activities, etc.)
- Other: \_\_\_\_\_

Heat stress signs/symptoms and controls to also be addressed in tailgate safety meeting if temperatures >80°F

*Repellents*

- Repellents will not be used
- Barrier creams
- Other: \_\_\_\_\_

*Skin Decontamination*

- Wash with post-exposure soap and water
- Wash with soap and water (use hot water if available)
- Hot shower at end of day
- Other: \_\_\_\_\_

**Equipment Decontamination**

Due to the low risk associated with poisonous plants on this project, portable equipment and tools may still have a potential to be contaminated with urushiol (the oil that causes allergic reactions and dermatitis in poisonous plants covered by this plan). It is recommend to decontaminate handles, grips, and hand holds of tools and equipment with post-exposure soap and water or alcohol spray (if safe to do so for the equipment/tool being decontaminated) as a best practice.

**Clothing Decontamination**

Wash work clothing in hot water separate from other clothing. Even though there is a low risk for poisonous plants on this project, work boots should be considered potentially contaminated with urushiol. Decontaminate with post-exposure soap and water or hot soap and water. If safe for the boot, consider spraying with alcohol spray of post exposure soap is not available.

**First Aid**

If skin irritation or other signs of allergic reaction develops contact WorkCare for assistance. Document date and time of exposure, if known, in field notes, field form or H&S app.

**Identification Quick Guide**

Ticks:

- American Dog Tick 
- Blacklegged (Deer) Tick 
- Brown Dog Tick 
- Groundhog Tick 
- Gulf Coast Tick 
- Lone Star Tick 
- Rocky Mountain Wood Tick 
- Soft Tick 

Poison Ivy:



Poison Oak:



Poison Sumac:



For other biological hazards, address the hazards and controls in the JSA for the work task.

**Personal Protective Equipment (PPE)**

See JSA or Permit for the task being performed for required PPE. If work is not conducted under a JSA or Permit, refer to the governing document for PPE requirements. At a minimum, the following checked PPE is required for all tasks during field work (outside of field office trailers and vehicles) not covered by a JSA or Permit on this project:

Minimum PPE required to be worn by all staff on project:

Specify Type:

<input checked="" type="checkbox"/>	Hard hat	<input type="checkbox"/>	Snake chaps/guards	<input type="checkbox"/>	Coveralls:	
<input checked="" type="checkbox"/>	Safety glasses	<input type="checkbox"/>	Briar chaps	<input type="checkbox"/>	Apron:	
<input type="checkbox"/>	Safety goggles	<input type="checkbox"/>	Chainsaw chaps	<input type="checkbox"/>	Chem. resistant gloves:	
<input type="checkbox"/>	Face shield	<input type="checkbox"/>	Sturdy boot	<input type="checkbox"/>	Gloves other:	
<input type="checkbox"/>	Hearing protection	<input checked="" type="checkbox"/>	Steel or comp. toe boot	<input type="checkbox"/>	Chemical boot:	
<input type="checkbox"/>	Rain suit	<input type="checkbox"/>	Metatarsal boot	<input type="checkbox"/>	Boot other:	
<input type="checkbox"/>	Other:			<input checked="" type="checkbox"/>	Traffic vest, shirt or coat:	Class II
<input type="checkbox"/>	Covid Mask				Life vest:	

Task specific PPE: Hearing Protection, Chemical Resistant Gloves and Work Gloves

Comments:

Task specific PPE to be used if applicable hazards (Sound, Chemical and Motion)

**Medical Surveillance**

All Arcadis employees and subcontractors performing field work will be required to be current in HAZWOPER medical surveillance.

Client drug and/or alcohol testing will be required for all workers on this project. The project or task manager will instruct project participants on testing protocols.

**Hazardous Materials Shipping and Transportation**

A shipping determination package has been prepared, reviewed and provided to Arcadis field staff for this project.

**Traffic Safety and Traffic Safety Plans (TSPs)**

All or portions of the project work will be conducted in both a public right of way (ROW) and parking lot/private roadway and a TSP addressing ROW and Non-ROW traffic safety controls is attached to this HASP.

**Arcadis Commercial Motor Vehicles (CMVs)**

CMVs operated by Arcadis employees on public roadways will not be utilized on this project. Arcadis defines a CMV as any single vehicle with a gross vehicle weight rating (GVWR) ≥10,001 pounds or a truck and trailer combination with a combined GVWR ≥10,001 pounds (GVWR of truck + GVWR of trailer = ≥10,001 pounds).

**Site Control**

Site control requirements are integrated into the TSP for this project.

**Decontamination**

Decontamination protocols are addressed in the applicable task JSA(s) for this project. The applicable JSAs are attached to this HASP.

**Sanitation**

Portable restroom facilities and potable water will be provided by the Arcadis project team. Unless alternate requirements are stipulated in a plan supplement (i.e. Heat Injury and Illness Prevention Plan), permit or JSA, temporary restroom facilities will be provided with one toilet for every 20 project workers and bottled or non-plumbed potable water will be provided to project workers at 1 gallon/worker/day.

**Safety Briefings**

Arcadis will lead all safety briefings on this project and will document the safety briefing on a Tailgate Safety Briefing form or logbook. Safety briefings will be conducted once at the beginning of each work day unless the Site Safety Officer deems more frequent safety briefings will be required based on work being conducted. All project workers, including Arcadis subcontractors, will be required to attend the safety briefing. Site visitors and project workers not on duty during the morning safety briefing will receive the safety briefing upon their arrival onto the project site for the day.

**Employee Health and Safety Engagement**

The CPM or APM is responsible for reviewing and establishing H&S engagement goals for the project. These goals are summarized below.

Hazard Observations (via H&S App or TIP) required at the following frequency on this project:

1 per event

Close Call reporting (via H&S app) goals for this project:

For each occurrence

Other (specify):

### Safety Equipment and Supplies

Safety equipment/supply requirements are addressed in the JSA or Permit for the task being performed. If work is not performed under a JSA or Permit, the following safety equipment is required to be present on site in good condition unless otherwise noted (Check all that apply):

- First aid kit
- Bloodborne pathogens kit
- Fire extinguisher
- Eyewash (ANSI compliant)
- Eyewash (bottle)
- Drinking water
- Other: \_\_\_\_\_

- Insect repellent: \_\_\_\_\_
- Sunscreen
- Air horn
- Traffic cones
- 2-way radios
- Heat stress monitor
- See Tick and Poisonous Plant Hazards section for additional equipment/supply information.

### International Travel

International travel is not required for this project.

### Spill Control and Containment

Spill control and containment protocols, including required equipment and supplies, are located in a JSA prepared by Arcadis. Implementation of the JSA requirements are the responsibility of Arcadis.

### Use of Electronic Devices in Areas of Increased Safety Risk

The intent of this section is to ensure use of standard computer tablets, laptops, or cell phones (collectively referred to in this HASP as a digital device) is performed in a manner that is effective in preventing or mitigating injury to the user of the digital device. Use of electronic devices on an active roadway must be addressed in the ROW TSP. Device user should face traffic when recording data or rely on a spotter. Use the company vehicle as a shield on roadway when practical. Electronic device use and distractions to be discussed and documented in the job briefing/safety briefing.



**Attachment A**

## Job Safety Analysis



### General

JSA ID	HASP 1	Status	Complete
Job Name	General Industry-Driving - passenger vehicles	Created Date	9/2/2021
Task Description	Driving a car, van, or truck on public roadways.	Completed Date	09/02/2021

### Client / Project

Client	Chevron
Project Number	3001258
Project Name	Former Chevron Facility 211577
Project Manager	Ada Hamilton

### User Roles

Role	Employee	Due Date	Completed Date
Developer	Sara Fulton	9/2/2021	9/2/2021
HASP Reviewer	Monicao, Nicholas	9/2/2021	9/2/2021
Quality Reviewer			

### Job Steps

Job Step No.	Job Step Description		Potential Hazard	Critical Action	H&S Reference
1	Pre-Trip Inspection	1	Failing to perform pre-trip inspections may cause mechanical failure, accident or injury.	Perform walk around of vehicle with particular attention to tire inflation and condition. Check lights, wipers, seatbelts for proper operating condition. Properly adjust seat and mirrors prior to vehicle operation. Use or review vehicle inspection checklist as required under the MVSP.	ARC HSGE024 Motor Vehicle Safety Standard (MVSP)
		2	Scrapes, cuts, burns to hand if inspecting engine fluids and/or tires. Eye splash hazard if inspecting engine fluids. Pinch or crush hazards when opening or closing hood, trunk, or tailgate.	Wear protective gloves and safety glasses as described below when checking under hood or tires. Use TRACK and keep hands clear when opening/closing hood, trunk, or tailgate to avoid crush or pinch hazard.	
		3	Struck by other vehicles while walking around vehicle performing inspections.	Wear high visibility vest, shirt, or coat while performing inspections in parking lots or other areas with a traffic hazard. Remain vigilant of moving vehicles or equipment in area, face oncoming vehicles to extent practical.	
		4	Improperly secured cargo may dislodge creating injury, property damage, or road hazard.	Ensure all cargo is properly secured to prevent movement while the vehicle is in operation. This includes cargo in the cab of the vehicle.	
2	Driving a motor vehicle on public streets	1	Failing to observe traffic flow ahead increases risk of hard braking resulting in potential impact of vehicle ahead, being struck by another vehicle from behind, and decreases decision making time.	Use Smith System Key #1, "Aim High in Steering". <b>Look ahead (15 seconds if possible) to observe traffic flow and traffic signals.</b> Adjust speed accordingly to keep vehicle moving and avoid frequent braking. Select lane of least traffic and adjust speed based on observed signal timing when possible. Avoid following directly behind large vehicles that obscure view ahead.	Smith System "5-Keys" is a registered trademark of Smith System Driver Improvement Institute, Inc.

		2	Failing to observe vehicles, pedestrians, bicyclists, and other relevant objects in vicinity of your vehicle increases risk of side swipes, rear ending, and third party injury.	Use Smith System Key #2, "Get the Big Picture". <b>Maintain 360 degrees of awareness around vehicle.</b> Check a mirror every 6-8 seconds, maintain space around the vehicle, choose a lane that avoids being boxed in. Look for pedestrian activity ahead in crosswalks or sidewalks. Watch for construction zone approach signs and act early by executing lane changes and reducing speed.	
		3	Failing to keep your eyes moving increases risk of not seeing relevant vehicles, pedestrians, and objects in your vicinity that may impair your ability to make timely and appropriate driving decisions and also increases risk of accident.	Use Smith System Key #3, "Keep Your Eyes Moving". <b>Move your eyes every 2 seconds and avoid staring while evaluating relevant objects.</b> Scan major and minor intersections prior to entering them. Check mirrors.	
		4	Failing to maintain space around and in front of your vehicle increases risk of striking another vehicle or being struck by another vehicle. Insufficient space shortens time for effective driving decision making resulting in increased accident risk.	Use Smith System #4, "Leave Yourself an Out". <b>Use 4 second rule when following a vehicle.</b> Avoid driving in vehicle clusters by adjusting speed and using lanes that permit maximum space and visibility. When stopped, keep one car length space in front of vehicle ahead or white line.	
		5	Failing to communicate with other drivers and pedestrians increases risk of striking vehicles, pedestrians, or being struck by other vehicles, especially from the rear.	Use Smith System Key #5, "Make Sure They See You". <b>Brake early and gradually when stopping to reduce potential of being rear ended.</b> Keep foot on brake while stopped. Use turn signals and horn effectively. Establish eye contact with other drivers and pedestrians to extent practical. Use vehicle positioning that promotes being seen.	
		6	Distractions within the vehicle takes focus off driving, increases risk of accident decreases time for making effective driving decisions.	<b>Cell phone use (any type or configuration) is prohibited while the vehicle is in motion.</b> Familiarize yourself with vehicle layout and controls (radio, temperature controls, etc.) prior to operating unfamiliar vehicles. Set controls prior to operating vehicle. Use GPS in unfamiliar areas to avoid use of paper maps/directions while driving. Set GPS prior to vehicle operation. Pull over and stop to modify GPS functions. Avoid consuming food or drink while driving.	
3	Parking	1	Parking vehicle in areas of clustered parked vehicles or near facility entrance may impair visibility to oncoming traffic in lot and increase exposure to pedestrian traffic.	<b>Use pull through parking or back into parking space when permitted or practical.</b> When practical and safe to do so, park away from other vehicles and avoid parking near the facility entrance or loading docks. If available, use a spotter to aid in backing activity. Back no further than necessary and back slowly. Get out and look (GOAL) if uncertain of immediate surroundings. Tap horn prior to backing.	

**PPE Personal Protective Equipment**

Type	Personal Protective Equipment	Description	Required
Eye Protection	safety glasses	While checking engine or tires	Required
Hand Protection	work gloves (specify type)	Leather or equivalent checking engine or	Required

**Supplies**

Type	Supply	Description	Required
Communication Devices	mobile phone		Required
	other	Vehicle kit (applies to company trucks)	Required
Miscellaneous	fire extinguisher	Applies to company trucks	Required
	first aid kit	Applies to company trucks	Required

**Attachment B**

## Task Improvement Process

### General

Observed Company: \_\_\_\_\_

Observation Type: \_\_\_\_\_

TIP Form: H&S Field Multi-Task (General)

Task Observed: \_\_\_\_\_

Observee Name: \_\_\_\_\_

Observer Name: \_\_\_\_\_

Observation Date: \_\_\_\_\_

Project Number: 3001258

Project Name: Former Chevron Facility 211577

Supervisor: \_\_\_\_\_

Equipment On Site: \_\_\_\_\_

Pertinent Information: \_\_\_\_\_

### Observation

Task	Correct	Questionable	Comments
<b>General</b>			
PPE worn according to HASP/JLA specifications and inspected before use?			
STOP work authority used where appropriate?			
<b>Body Use/Positioning</b>			
Proper lifting/pushing/pulling techniques used (no awkward positions/posture; no twisting or excessive reaching; no straining; no excessive weight; load under control/stable; etc.)?			
Body parts away from pinch points (clear or protected from being caught between objects/equipment or from contacting sharp objects/edges, etc.)?			
Body parts not in the Line of Fire (protected from being struck by traffic, equipment, falling/flying objects, etc.)?			
<b>Work Procedures/Environment</b>			
Correct type and number of barricades/warning devices/cones?			
Communication with others			

when necessary (hand signals, flags, etc.)?			
Right tools and equipment selected for the job and inspected before use?			
Tools and equipment used properly?			
Housekeeping performed (work areas and pathways clear of hazards, uneven surfaces addressed, etc.)?			
Slip/trip/fall hazards addressed (path selected and cleared, eyes on path, speed footing, etc.)?			
Proper energy control (electrical systems grounded, lock out/tag out performed, isolated, cords/fixtures in good condition, GFCI inspected and utilized when appropriate and used properly, etc.)?			
Protected from overhead/underground utilities (proper clearance, properly marked, spotters as necessary, etc.)?			
Safe work on/near water (appropriate flotation device, appropriate boat for body of water and operation of boat, etc.)?			
Chemical/Radiation protection (decontamination zones set up properly, air monitoring, completed, and logged, etc.)?			
Fall from elevated height prevention (maintains 3-points of contact, appropriate ladder, mounting/dismounting vehicle/equipment, fall arrest system, etc.)?			
Any additional safety issues identified:			

**Tip Summary** Enter details of the TIP and follow up discussion provide details on how any questionable items were resolved.

Discussion following the TIP led by: \_\_\_\_\_

Date of follow-up discussion: \_\_\_\_\_

Positive Comments:

Discussion Summary Completed:

- Supervisor Led
- Peer to Peer
- Arcadis Employee to Subcontractor

Summary of Questionable Items

**Action Items (Optional)** Assign appropriate action items based on the observations made. You can add more than one action item if needed.

Item #	Action Item	Responsible Person	Due Date	Comp. Date
1				
2				
3				

**Standard Review**

Reviews to be performed after entry of this TIP into 4-Sight.

**Quality Review**

Quality Reviews to be performed after entry of this TIP into 4-Sight.

**Field Validation and Verification**

Use the 4-Sight generated copy of this TIP to perform field V&V activities.

**Attachment C**





**Attachment D**



**Attachment E**



**Attachment F**



# Traffic Safety Plan (TSP)

## 1.0 General

Plan type	Non-Right of Way (Non-ROW)
Project Name:	211577 Seattle Queen Anne Ave N
Project Number:	3001258
Developer Name:	Julia Vidonish Aspinall
Duration of Project (in hours or days):	8-10 hrs
Time Restrictions (Y/N, if Y describe below):	N
Not Applicable	
Not Applicable	
Not Applicable	NA
Not Applicable	
Not Applicable	NA

Working on multiple roads?

Comments:

[Redacted comment box]

## 2.0 Work Description

Provide a brief description of scope of work:

- Groundwater sampling
- Soil vapor sampling
- Subcontractor oversight

## 3.0 Type and Duration

Work locations on this project will be:

Intermediate work (1-8 hours per location)

Non-ROW work will be performed in:

Active parking lot

Special traffic conditions may include (select most prevalent):

Not applicable

## 4.0 Traffic Control Layout, Number of Devices Required, and Phasing

The following Non-ROW requirements in the Traffic Safety Handbook applies:

Section 7.3 Intermediate Duration Work in Parking Areas (1 to 8 Hours) (DOT Facts-302b)

The menu below will be blank and is not applicable.

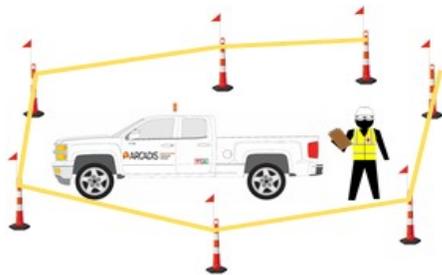
[Redacted menu box]

The menu below will be blank and is not applicable.

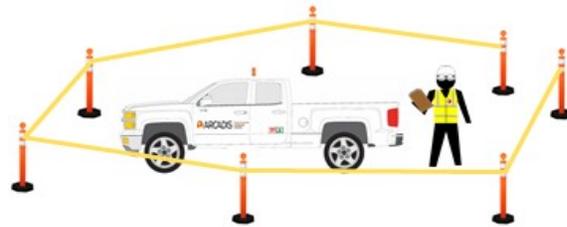
[Redacted menu box]

**Non-ROW configuration:**

An example non-ROW traffic control configuration for this project is illustrated below. The actual type and number of devices required are specified below. Don't leave vehicle doors open. Don't establish controls within 25 ft of the front or rear of parked large vehicles/rolling equipment without coordinating with the vehicle/equipment operator.

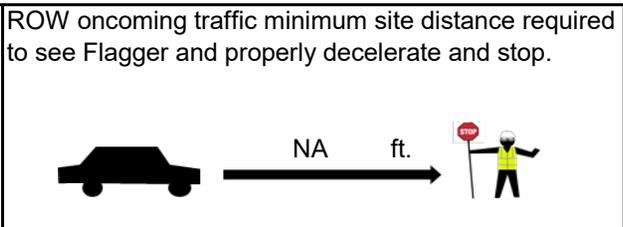


Intermediate Term (1-8 Hours)  
Channelizing Cones with Flags and  
Caution Tape



Intermediate Term (1-8 Hours)  
Channelizing Cones with Caution Tape

ROW minimum sign spacing distances for "A", "B" and "C" (as applicable) in referenced DOT Facts.		
A	NA	ft.
B	NA	ft.
C	NA	ft.



**ROW Cone Calculation (Values are default. Light grey fields may be modified based on actual road conditions)**

<input type="checkbox"/>	Active work area length (feet)	200
<input type="checkbox"/>	Apply Optional Longitudinal Buffer (ft)?	0
	Lane width of offset (feet)	12
	Shoulder width of offset (feet)	8
	Posted speed limit	NA

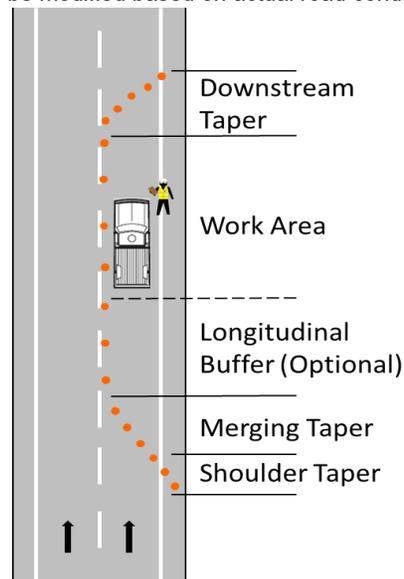
**Shoulder Taper**

Taper Length (feet)	NA
Cones Required	NA
Cones Spacing (max., ft)	NA

**Merging Taper**

Taper Length (feet)	NA
Cones Required	NA
Cones Spacing (max., ft)	NA

**Work Area**



Cone Spacing (max., ft) NA  
 Cones Required NA

Note: Review taper configuration and cone spacing after ROW implementation to ensure traffic is moving efficiently without motorist confusion in the RWZ.

**Downstream Taper**

Taper Length (feet) NA  
 Cones Required NA  
 Cone Spacing (max., ft) NA

**Cones Required (minimum) NA**

Select the traffic control devices to be used and enter number each required:			Non-ROW Phasing:
Check all that apply:	Wording or Pictogram	Number:	
<input type="checkbox"/>	Warning signs		1) Position truck as shield, if practical 2) Deploy traffic control devices 3) Affix flags, caution tape or fencing 4) Unload project equipment 5) Commence work 6) SSO to maintain controls 7) Remove controls in reverse order
<input type="checkbox"/>	Warning signs		
<input type="checkbox"/>	Warning signs		
<input type="checkbox"/>	Stop/Slow paddle		
<input type="checkbox"/>	Red flag		
<input type="checkbox"/>	Drums		
<input checked="" type="checkbox"/>	Channelizer cone (42 inch height, 10 lb base)	7	
<input type="checkbox"/>	Channelizer cone (42 inch height, 30 lb base)		
<input type="checkbox"/>	Traffic cones (≥ 18 inches tall)		
<input type="checkbox"/>	Barricade: 		
<input type="checkbox"/>	Flags for cones		
<input type="checkbox"/>	Lights (for night work)		
<input type="checkbox"/>	Plastic fencing (rolls)		
<input checked="" type="checkbox"/>	Caution tape (rolls)	1	
<input type="checkbox"/>	Other (specify):		

**Electronic Device Use Safety**

Electronic devices (tablets, laptops and cell phones) used to collect data or document activities in active parking lots must be used in a manner that does not interfere with the user's ability to see and react to vehicle movements in the work area. If this requirement cannot be maintained, a spotter must be used. When possible position vehicle to act as a shield. Short-term traffic control scenarios provided by this TSP are not authorized if a spotter is not used.

Reviewed By: Nicholas Monico

HASP Reviewer: \_\_\_\_\_  
 Nicholas Monico

**Attachment G**

**THIS FORM MUST BE ENTIRELY COMPLETED PRIOR TO BEGINNING ANY INTRUSIVE WORK**

Project Name: Former Chevron Facility 211577 Start Date: \_\_\_\_\_  
Project #: 3001258 End Date: \_\_\_\_\_

*Utility markings valid for 15 days. Initiate clearance renewal 5 days prior to expiration for ongoing work*

**PRE-FIELD WORK REQUIREMENTS**

DigSafe 811 notified 48-72 hrs. in advance of work?  DigSafe Ticket #: \_\_\_\_\_  
Ticket Expiration Date: \_\_\_\_\_ [State Utility Laws: www.commongroundalliance.com/map](http://www.commongroundalliance.com/map)  
Ticket(s) Attached(Y/N)?  List utility owners notified via DigSafe 811 & response status:

List add'l. utilities requiring notification not included in DigSafe811 Notice:

*Review task details w/ private utility location subcontractor. ID work areas, clearance equipment needed, depth of clearance needed, types of features, utilities, anticipated/known/unknown. Verify DigSafe 811 markings to confirm public utility clearance.*

Private Utility Locator Name, if used: \_\_\_\_\_ AUS onsite meeting (Y/N)?

**FIELD WORK REQUIREMENTS**

*This portion of the checklist must be completed on site. AUS staff must have a minimum of one year of field experience in identifying utilities to complete the checklist. Field staff will review the completed checklist with PM or designee prior to beginning intrusive work.*

*Heavy equipment/mechanized intrusive work w/in the Arcadis Tolerance Zone (utility or structure present within 30-in. of point of work) REQUIRES pre-approval by Corporate H&S prior to working at all such locations. STOP WORK if the Arcadis Tolerance Zone work has not been approved.*

List work type & locations for utility location and clearance as applicable to this checklist:

*3 Reliable Lines of Evidence are REQUIRED for EACH INTRUSIVE LOCATION prior to starting any subsurface intrusive work. Check corresponding boxes below to document utility clearance efforts.*

OneCall/DigSafe 811 Public Utility Locate (required by State law for subsurface work)  
*811 is only reliable as a Line of Evidence when working in/adjacent to a public ROW or easement.*

Marking type:  Paint  Pin Flags/Stakes  Other: \_\_\_\_\_  None

Client provided maps/drawings (Y/N)?  Maps/drawings not provided (Y/N)?

Client Clearance (Y/N)? Name(s)/Affiliation(s): \_\_\_\_\_

Interviews (Y/N)? Name(s)/Affiliation(s): \_\_\_\_\_

Specific subsurface feature types and depths provided by person interviewed (Y/N)?

Details provided:

Site Inspected (Y/N)? (document on Pg. 2.) Photo Document Marked Utilities & Structures

Public records/Client Dwgs/As-Builts (Y/N)? Type:

List private locator tools used:  Radio Freq. Detection  Electromagnetic  GPR

Metal Detector  Acoustic Pipe Locator  Downhole sonde Other:

Soft Dig Methods used (Y/N)?  Hand auger  Probing  Hand tools (shovel/rake)

Air knife  Hydro Knife  Potholing/Vacuum extraction

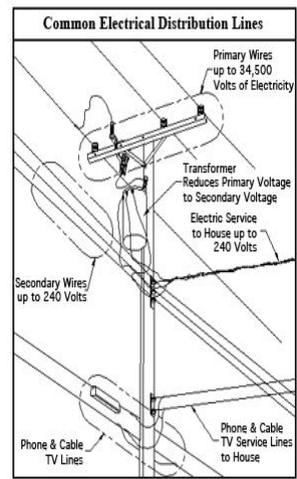
Other soft dig tools used (Y/N)? If Yes, list here:

**ALL BOXES BELOW MUST BE COMPLETED BEFORE PROCEEDING**

Site inspection also requires investigating vicinity outside of the work area for structures and utilities.  
 Noting "YES" requires add'l. investigation. Utilities must be field marked prior to intrusive work.

Is the utility present (Y/N)?	Utility Color Code	Is the utility present (Y/N)?	Utility Color Code
<input type="checkbox"/>	Utilities entering/exiting structures?	<input type="checkbox"/>	Evidence of stormwater network?
<input type="checkbox"/>	Intrusive work area marked out?	<input type="checkbox"/>	Curb drains/catch basins/manholes?
<input type="checkbox"/>	Structural features above or below?	<input type="checkbox"/>	Stormwater culverts, outfalls?
<input type="checkbox"/>	Public natural gas line or meter?	<b>ABOVEGROUND Features Present?</b>	
<input type="checkbox"/>	Private natural gas laterals/feeders?	<input type="checkbox"/>	Transportation tunnels/structures/markers present?
<input type="checkbox"/>	Public electrical service?	<input type="checkbox"/>	Overhead electrical lines?
<input type="checkbox"/>	Conduit from meter or on wall?	<input type="checkbox"/>	< 50 kV w/in 10 ft of work area?
<input type="checkbox"/>	Conduit from poles into ground?	<input type="checkbox"/>	>50-200 kV w/in 15 ft of work area?
<input type="checkbox"/>	Poles/devices w/ no visible lines?	<input type="checkbox"/>	>200-350 kV w/in 20 ft of work area?
<input type="checkbox"/>	Overhead electrical lines?	<input type="checkbox"/>	>350-500 kV w/in 25 ft of work area?
<input type="checkbox"/>	Solar arrays or wind turbines?	<input type="checkbox"/>	>500-750 kV w/in 35 ft of work area?
<input type="checkbox"/>	Public water line(s)?	<input type="checkbox"/>	>750-1000 kV w/in 45 ft of work area?
<input type="checkbox"/>	Private water line(s) or lateral(s)?	<input type="checkbox"/>	Aboveground fire suppression?
<input type="checkbox"/>	Water meter onsite?	<input type="checkbox"/>	Aboveground communications?
<input type="checkbox"/>	Fire hydrants/post indicator valves?	<input type="checkbox"/>	Aboveground chases/racks/trays?
<input type="checkbox"/>	Irrigation system control box/valve?	<input type="checkbox"/>	Private/Remediation system lines?
<input type="checkbox"/>	Sprinkler heads, drip lines, vaults?	<input type="checkbox"/>	Unclassed utilities/anomalies?
<input type="checkbox"/>	Water dispensers, fill stations?	<input type="checkbox"/>	Warning signs/stakes/markers present?
<input type="checkbox"/>	Telecomm. overhead or buried?	<input type="checkbox"/>	Heavy Equipment: Mark travel route for overhead, next to route, and/or under route (e.g. crush risk) utilities.
<input type="checkbox"/>	Telecomm. ground box or relays?	<b>Signs of other utilities/ground disturbance</b>	
<input type="checkbox"/>	Telecomm./security CCTV devices?	<input type="checkbox"/>	Signs of asphalt or concrete disturbance/repair?
<input type="checkbox"/>	Public sanitary sewer pipes?	<input type="checkbox"/>	Any ground subsidence or change in vegetation?
<input type="checkbox"/>	Combined sanitary/storm pipes?	<input type="checkbox"/>	Unknown manholes or valve covers in work area?
<input type="checkbox"/>	Private sanitary laterals/clean outs?		
<input type="checkbox"/>	Restrooms, kitchens, wash bays?		

- Tips for Thorough Utility Location (HSS Section 5.6):
1. Don't forget to look up for utilities
  2. Be on-site with Private Utility Locators.
  3. Ask Private Locators to "confirm" other's markings.
  4. Also clear alternate/backup locations
  5. Mark all known utilities.
  6. No hammering, no pickaxes, no digging bars, no shortcutting.
  7. No excessive turning or downward force of hand tools, especially hand augers.
  8. Utilities may run in or directly under asphalt/concrete
  9. Heavy equipment may damage shallow utilities. Especially during clearing and grubbing.
  10. Use spotter for heavy equipment near aboveground utilities?



Utilities & Structures Checklist reviewed by the PM or Designee (Y/N)? *If no, STOP WORK call PM*  
 PM or Designee Name: \_\_\_\_\_  
 Name and Signature of person completing the checklist \_\_\_\_\_  
 Date of checklist review / update: \_\_\_\_\_

**ALL SUSPECT UTILITY STRIKES REQUIRE CORPORATE H&S NOTIFICATION WITHIN 24 hrs. OF KNOWLEDGE OF STRIKE WITH A CONFIRMED RESPONSE FROM CORPORATE H&S.**

**Attachment H**

Control Number: TSM- 3001258



TSM + project number plus date as follows: xxxxxxxx.xxxx.xxxxx - dd/mm/year

### TAILGATE HEALTH & SAFETY MEETING FORM

**Project Name:** 211577 Seattle Queen Anne **Project Location:** 631 Queen Avenue North

**Date:** \_\_\_\_\_ **Time:** \_\_\_\_\_ **Conducted by:** \_\_\_\_\_ **Signature/Title:** \_\_\_\_\_

**Issues or concerns from previous day's activities:**

---

**Task anticipated to be performed today:**

Additional permits/checklists attached

**USE TRACK! Evaluate the hazards (h) for the tasks being performed today and rank as Low (L), Medium (M) or High (H). Use relevant JSAs, FHSB, permit or other work standard to communicate controls (c) to be used to eliminate or mitigate identified hazards.**

<input type="checkbox"/> Gravity (i.e., ladder, trips) (L M H) h: _____ c: _____	<input type="checkbox"/> Motion (i.e., traffic, machinery) (L M H) h: _____ c: _____	<input type="checkbox"/> Mechanical (i.e., augers, motors) (L M H) h: _____ c: _____
<input type="checkbox"/> Electrical (i.e., utilities) (L M H) h: _____ c: _____	<input type="checkbox"/> Pressure (i.e., gas cyl., wells) (L M H) h: _____ c: _____	<input type="checkbox"/> Environment (i.e., heat, cold) (L M H) h: _____ c: _____
<input type="checkbox"/> Chemical (i.e., fuel, acid, paint) (L M H) h: _____ c: _____	<input type="checkbox"/> Biological (i.e., ticks, poison ivy) (L M H) h: _____ c: _____	<input type="checkbox"/> Radiation (i.e., alpha, sun, laser) (L M H) h: _____ c: _____
<input type="checkbox"/> Sound (i.e., machinery) (L M H) h: _____ c: _____	<input type="checkbox"/> Personal (i.e. alone, night) (L M H) h: _____ c: _____	<input type="checkbox"/> Driving (i.e. car, ATV, boat) (L M H) h: _____ c: _____

Refer to the attached Hazard Analysis Sheet(s) or JSA

**Comments:**

**Signature and Certification: I have read and understand the project specific HASP for this project.**

<b>SSE Employee*</b>	<b>Non-Life Threatening Injury or Illness</b> <b>Call WorkCare 1-888-449-7787</b>		
	Printed Name/Signature/Company	Sign In Time	Sign Out Time

**I will STOP** the job any time anyone is concerned or uncertain about health & safety or if anyone identifies a hazard or additional mitigation not recorded in the site, project, job or task hazard assessment.

**I will be** alert to any changes in personnel, conditions at the work site or hazards not covered by the original hazard assessments.

If it is necessary to **STOP THE JOB**, I will perform **TRACK**; and then amend the hazard assessments or the HASP as needed.

**I will not assist** a subcontractor or other party with their work unless it is absolutely necessary and then only after I have done **TRACK** and I have thoroughly controlled the hazard.

All site staff should arrive fit for work. If not, they should report to the supervisor any restrictions or concerns.

In the event of an injury, employees will call **WorkCare at 1.888.449-7787** and then notify the field supervisor.

Utility strike, motor vehicle accident or 3rd party property damage - field supervisor will immediately notify the Project or Task Manager

\*Short Service Employee (SSE) working for Arcadis <1 year.



**Attachment I**

# Arcadis Weekly Vehicle Inspection Form



Vehicle # / License Plate #

Lease Plan # / Last 6 of Vin #

		Inspection Date											
		Odometer reading											
		Driver / Inspector Name											
		Check the appropriate box and enter repair date for identified repairs:											
		OK	Needs Repair	Repair Date	OK	Needs Repair	Repair Date	OK	Needs Repair	Repair Date	OK	Needs Repair	Repair Date
Interior	Horn operational												
	Door Locks operational												
	Seat Belts in good repair												
	Seats and Seating Controls												
	Steering Wheel - No Excessive Play												
	Interior Lights and Light Controls												
	Instrument Panel/Gauges												
	Wiper Controls operational												
	Heat/Defrost/Air Conditioning working												
	Rear View Mirror present												
	Backup Camera/Sensors working												
Jack and Lug Wrench present													
Exterior <sup>1</sup>	Lights and Signals operational												
	Tires properly inflated/good tread depth												
	Spare Tire properly inflated												
	Doors operational												
	Windows Not Cracked/Damaged												
	Side View Mirrors												
Body Panels and Bumpers													
Engine & Brakes	Engine Start & Running Smoothly												
	Fluid Levels, No Noticeable Leaks												
	Belts tight, no cracks												
	Brakes operational, no squeaking												
Emergency Equipment <sup>2</sup>	First Aid Kit, inspected weekly												
	Fire Extinguisher properly secured												
	Fire Extinguisher inspected weekly												
	Orange/Yellow emergency warning light												
	Roadside Assistance Information												
Recommend spotter cones available													
Cargo	Cargo Secure and Properly Distributed												
	Securing Devices in Good Condition												
Registration	License Plate /Tags												
	Registration and Insurance												
	City/State Inspection Decal												
	Lease Plan information/Fuel Card												

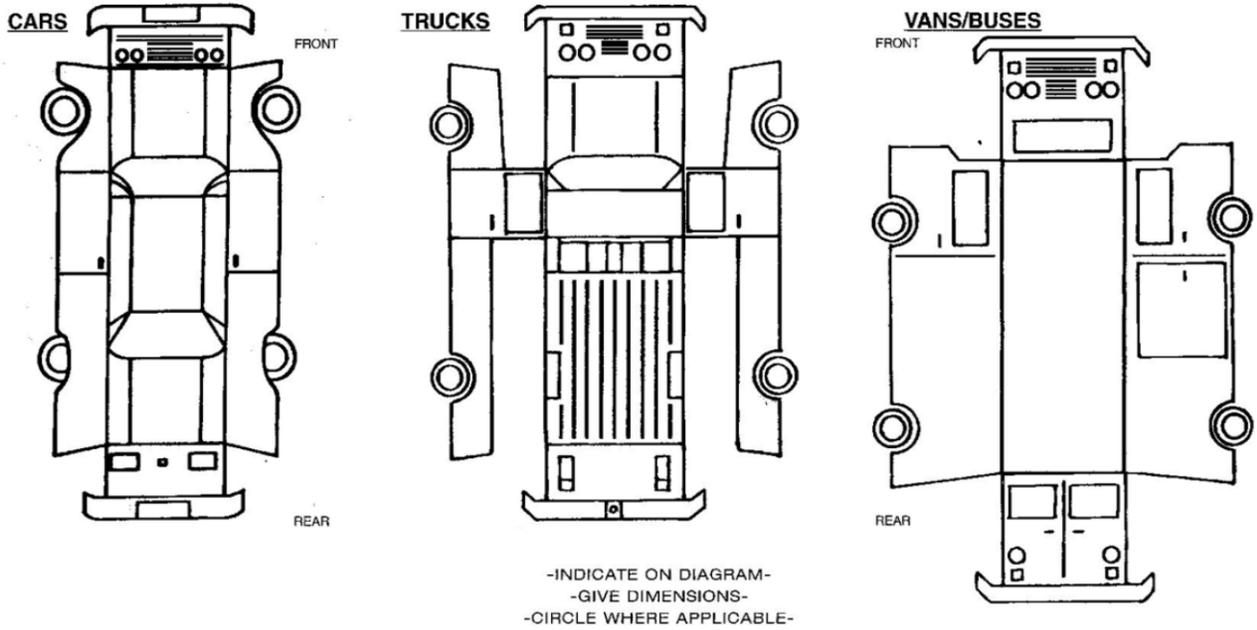
<sup>1</sup> Note all damages to the vehicle on the back of this page

<sup>2</sup> Emergency Equipment required per Motor Vehicle Standard ARC HSGE024

**Note All Vehicle Damage Below**

All Vehicle Damage must be reported to Sue Berndt (Corporate Legal), Andrew McDonald (Corporate H&S), and Roger Elliot (Corporate Fleet Manger)

- CODES:**
- B-BENT
  - BR-BROKEN
  - BU-BULGE
  - C-CHAFED
  - CH-CHIPPED
  - CPM-COVERED WITH PROTECTIVE MATERIAL-UNABLE TO DETERMINE DEFECTS IF ANY
  - CSA-CHAFED AND SCRATCHED ALL OVER
  - CR-CRACKED
  - D-DENTED
  - DMC-DUST AND MUD COVERED UNABLE TO DETERMINE OTHER DEFECTS IF ANY
  - G-GOUGED OR CUT
  - GC-GLASS CRACKED
  - HS-HAIRLINE SCRATCH
  - M-MISSING
  - P-PUNCTURED
  - R-RUSTY
  - S-SCRATCHED
  - SC-SCRAPED
  - SM-SMASHED
  - ST-STAINED AND/OR SOILED
  - T-TORN



Notes:

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Tread guide: If a tread gauge is not available coins may be used to determine remaining tread. 2/32" is the minimum by law in most states (top of Lincoln's head on penny), 4/32" is minimum recommended for wet surfaces (top of Washington's head on quarter), 6/32" is minimum recommended for snowy surfaces (top of Lincoln Memorial on penny). Vehicle tires should be replaced if the tread depth is less than 6/32".



Reference JSA 10907 For Weekly Vehicle Inspection

**Attachment J**



**Attachment K**

**Purpose and Scope**

**Date Completed** 9/2/2021

The purpose of this document is to serve as a planning tool and implementation guide to assist the project team, onsite personnel, and the Site Safety Officer (SSO) or other designated responsible party to comply with the requirements set forth by **Cal/OSHA Title 8 CCR 3395 Heat Illness Prevention Standard** and the **Washington State Outdoor Heat Exposure Regulations 296-62-09510 thru 09560**.

**NOTE:** This HASP Supplement is required to be used in California and Washington states. The Arcadis Health and Safety Standards ARC HSIH013 Heat Stress Prevention, and ARC HSGE008 Injury and Illness Prevention Program (IIPP) must accompany this HASP Supplement. To completely address the regulatory requirements for work in CA and WA states these standards are required to be used in association with the project-specific HASP and this supplement.

The scope of this HIPP applies to Arcadis projects which include, but are not limited to: outdoor operations such as contractor oversight, construction, refining, oil and gas extraction, asbestos removal, and hazardous waste site activities and interior work particularly tasks which require employees to wear PPE which can increase the risk for heat stress for the wearer. This HIPP provides guidance to prevent or reduce the risk of work-related heat illness. This HASP Supplement provides site specific instructions for actions to be completed at the project site.

Project sites in other states and provinces are expected to use this HASP Supplement as a Best Management Practice to prevent heat related illness injuries.

**Project Site Name** 631 Queen Anne Avenue North, Seattle, WA 98109

**Authority and Implementation**

The following designated individuals have authority and responsibility for implementing the provisions of this program at the project work site indicated above.

<b>Project Manager</b>	Ada Hamilton
<b>Site Safety Officer (SSO)</b>	Daniel Gilbert
<b>SSO Designated</b>	Julia Vidonish Aspinall

**Acclimatization of Personnel for Heat Stress Prevention**

The degree to which personnel have been able to physiologically adjust or acclimatize to working under hot conditions affects ability to safely do work. Acclimatized individuals generally have lower heart rates and body temperatures than unacclimated individuals, and sweat sooner and more profusely. This enables them to maintain lower skin and body temperatures at a given level of environmental heat and work loads than unacclimated workers. Acclimatization can occur after a few days of exposure to the hot work environment. OSHA/NIOSH suggests an acclimatization period of 2-3 days for fit personnel. On the 1st day personnel should spend 50% of the day exposed to / working in the hot environment and increasing the amount of work 10-20% based on personnel response to the hot environment and work load.

**Procedures for Provisions for Potable Water**

The SSO or designee will be responsible for implementing the following when conditions at the site are anticipated to exceed 80 degrees (°) Fahrenheit (F) / 26.6°

1. Proper hydration is critical to preventing heat related illness and injury. Project sites will maintain an adequate supply of suitably cool, fresh and pure potable water on site/readily accessible to allow each employee to consume 1 quart (1 L) of water per hour, ideally at a rate of four 8-oz (250 mL) cups per hour.

**NOTE:** Fresh and pure water is defined as being "odor free and suitably cool". Where suitably cool means water being cooler than the ambient temperature but not so cold as to cause discomfort or prevent drinking.

**NOTE:** Electrolyte replacement drinks or "Sports Drinks" should be used to replace essential minerals lost during sweating. Sports drinks should supplement water intake e.g. one "sport drink" to every three bottles of water (3 waters : 1 sport drink)

2. During the Tailgate Safety Meeting and site briefings identify and communicate the type and location of the water source. The water source must provide suitably cool, fresh, and pure water in sufficient quantity for all employees at the site. Water shall be provided free of charge or expenses will be reimbursed for employees. If the source is potable plumbed water do not complete Item 6 of this Section.

3. Communicate to staff whether all water for the day will be provided at the start of the shift (e.g., 2 gallons / 8 L per employee for an 8-hour shift), or how and when water will be replenished.

**NOTE:** A sufficient quantity of water must always be present and readily accessible to allow every employee to consume at least 1 quart (1L) of water per hour. It is suggested to have a minimum of three hours supply of water per employee on hand.

4. Water supplies must be positioned as close as reasonable possible to site workers. Placing water only in shaded areas or by toilet facilities is not sufficient, particularly at large work sites or at multi-story construction sites. Drinking water sources need to be close enough to workers to allow for routine consumption per the rate noted above.

5. Inspect the coolers / water dispensers for cleanliness and replenishment of water and cooling ice routinely based on temperatures and staff size. Cooling ice will be stored in clean coolers if added directly to water dispensers.

**NOTE:** If the site temperature exceeds 90° F / 32° C the frequency of the cooler inspection will increase to verify water remains cool and the water supply is maintained.

6. Oversee the daily inspection and maintenance of coolers to ensure they are kept clean and in good condition.

**Potable Water Source & Location**

<input type="checkbox"/>	Potable plumbed source	Location:	
<input checked="" type="checkbox"/>	Bottled water in chilled cooler	Location:	In cooler and in field vehicle

Drinking water dispenser & cups Location: \_\_\_\_\_

### **Procedures for Provisions for Potable Water Continues**

**Check which applies. Must check at least one box, or provide additional detail.**

- Ice will be purchased at the start of each day.
- Ice will be provided by an onsite source or vendor service. Ice to be potable
- Alternative potable ice source: \_\_\_\_\_
- Food safe cleaning product for water cooler
- Sufficient amount of drinking water cups for each employee per dispenser.
- Other items needed: \_\_\_\_\_

### **Access to Shade**

The SSO or designee is responsible for implementing the following for how shade will be coordinated and provided **when temperatures exceed 80° F / 26° C**.

**1.** Access to shade must be allowed at all times. Before the start of work, the location of the shade areas, the importance of taking shade breaks, recognizing the signs and symptoms of heat illness, the schedule of shade breaks, and the location of shade break locations (if not portable) will be addressed during each Tailgate Safety Meeting and site briefing.

**NOTE:** Where required by regulation, shade breaks will be taken at a minimum rate of 10 minutes of shade for every two hour work period. As temperature increases shade breaks will increase in frequency. See the Heat Index table below for Heat Index specific Action Levels defining shade break frequency and duration.

**2.** The amount of shaded area must be able to accommodate all employees taking a recovery or rest break including employees on meal breaks. The shaded area(s) don't need to provide shade to accommodate **all employees** on a site or working a shift at the same time. An example includes rotating routine breaks among employees. Also, additional portable shade structures can be erected on an "as-needed" basis.

Employees must have enough shaded space so they can sit in a normal posture fully in the shade with enough space to allow for sitting without being in physical contact with each other. Employees who desire access to shade must not be deprived of it due to lack of space.

**3.** Employees who take a preventative cool-down rest;  
(1) shall be monitored and asked if they are experiencing symptoms of heat related illness. (2) shall be encouraged to remain in the shade. (3) shall not be ordered back to work until signs or symptoms of heat illness have abated, but in no event less than 5 minutes in addition to the time needed to access the shade.

If an employee exhibits signs or symptoms of heat illness while taking a preventative cool-down rest the SSO will provide appropriate support (e.g. additional hydration and/or call to WorkCare) or emergency response support as needed based on symptoms.

**4.** Shade structures will be relocated to follow the crew for moving tasks. Shade structures will be placed within 50 feet of the work area, if practical. Shade structures must be no further than a short

Arcadis Heat Illness Prevention Plan (HIPP)  
HASP Supplement

walk away (e.g. 2-3 minutes) from the work area. This consideration becomes more critical as the temperature rises above 80° F (26 C).

**Access to Shade Continued**

**5.** In situations where it is not safe or feasible to provide shade, the SSO will document in the HASP Supplement the unsafe or unfeasible conditions, and include the steps taken to provide alternative cooling measures equivalent to shade.

Unsafe/unfeasible conditions: \_\_\_\_\_  
\_\_\_\_\_

**Alternative Cooling Measures Implemented:**

<input checked="" type="checkbox"/>	Provide vehicles with working air conditioner to all employees for rest breaks / recovery breaks / meal breaks.
<input type="checkbox"/>	Provide temporary or mobile shade structure(s) that are either ventilated or open to air movement (Secure against wind.)
<input type="checkbox"/>	Provide a building / permanent structure(s) in close proximity to the work area with a cooling environment via mechanical ventilation or open to air movement which will be used for shade. (Job trailer, pavilion, manufacturing building, etc.)
<input type="checkbox"/>	Other: _____

**Monitoring of Weather and Heat Index Table**

**1.** The SSO or designee must check the extended weather forecast in advance of the upcoming work on a weekly basis. Work schedules will be adjusted in advance, taking into consideration whether high temperatures or a heat wave is expected.

Accepted weather forecasting resources include webpages "NOAA.gov" or "weather.com" or see the NIOSH Heat Tool (formerly the OSHA Heat Tool app)

<https://www.cdc.gov/niosh/topics/heatstress/heatapp.html>

**2.** Before work starts for the day or shift, the SSO will review the forecasted temperature and humidity for the (exterior) work site and compare conditions against the National Weather Service Heat Index (below) to evaluate the risk level for heat illness. Determination will be made of whether or not workers will be exposed to a combination of temperature and humidity characterized as "Caution", "Extreme Caution", "Danger" or "Extreme Danger" for heat illnesses.

**NOTE:** It is important to know the temperature at which these warnings occur. When working outdoors see the Heat Index Table in this supplement for Action Level specific instructions for hazard controls.

**3.** Where state regulations indicate a thermometer or similar on-site monitoring device will be used at the job site to monitor for sudden increases in temperature. The SSO will be responsible for obtaining a thermometer/weather station prior to the start of work and make it readily visible / accessible where it can easily be monitored throughout the course of the day.

**NOTE:** If the temperature is **> 80°F (26 C)** shade structures will be opened and made available to workers. If temperature is **≥ 95° F (35 C)** additional preventive measures will be implemented.

**Monitoring of Weather and Heat Index Table Continued**

		Relative Humidity (%)																			
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
80	77	78	78	79	79	79	80	80	80	81	81	82	82	83	84	84	85	86	86	87	87
81	78	79	79	79	79	80	80	81	81	82	82	83	84	85	86	86	87	88	90	91	91
82	79	79	80	80	80	80	81	81	82	83	84	84	85	86	88	89	90	91	93	95	95
83	79	80	80	81	81	81	82	82	83	84	85	86	87	88	90	91	93	95	97	97	99
84	80	81	81	81	82	82	83	83	84	85	86	88	89	90	92	94	96	98	100	100	103
85	81	81	82	82	82	83	84	84	85	86	88	89	91	93	95	97	99	102	104	104	107
86	81	82	83	83	83	84	85	85	87	88	89	91	93	95	97	100	102	105	108	112	112
87	82	83	83	84	84	85	86	87	88	89	91	93	95	98	100	103	106	109	113	113	116
88	83	84	84	85	85	86	87	88	89	91	93	95	98	100	103	106	110	113	117	117	121
89	84	84	85	85	86	87	88	89	91	93	95	97	100	103	106	109	113	117	122	122	127
90	84	85	86	86	87	88	89	91	92	95	97	100	103	106	109	113	117	122	126	127	132
91	85	86	87	87	88	89	90	92	94	97	99	102	105	109	113	117	122	126	131	132	136
92	86	87	88	88	89	90	92	94	96	99	101	105	108	112	116	121	126	131	136	136	141
93	87	88	89	89	90	92	93	95	98	101	104	107	111	116	120	125	130	136	141	141	148
94	87	89	90	90	91	93	95	97	100	103	106	110	114	119	124	129	135	141	141	148	153
95	88	89	91	91	93	94	96	99	102	105	109	113	118	123	128	134	140	145	150	150	158
96	89	90	92	93	94	96	98	101	104	108	112	116	121	126	132	138	145	150	155	155	163
97	90	91	93	94	95	97	100	103	106	110	114	119	125	130	136	143	150	155	160	160	168
98	91	92	94	95	97	99	102	105	109	113	117	123	128	134	141	148	155	160	165	165	173
99	92	93	95	96	98	101	104	107	111	115	120	126	132	138	145	153	160	165	165	173	181
100	93	94	96	97	100	102	106	109	114	118	124	129	136	143	150	158	165	170	170	178	186
101	93	95	97	99	101	104	108	112	116	121	127	133	140	147	155	162	170	175	175	183	191
102	94	96	98	100	103	106	110	114	119	124	130	137	144	152	160	167	175	180	180	188	196
103	95	97	99	101	104	108	112	116	122	127	134	141	148	157	165	172	180	185	185	193	201
104	96	98	100	103	106	110	114	119	124	131	137	145	153	161	169	176	184	190	190	198	206
105	97	99	102	104	108	112	116	121	127	134	141	149	157	166	174	182	190	195	195	203	211
106	98	100	103	106	109	114	119	124	130	137	145	153	162	172	180	188	196	201	201	209	217
107	99	101	104	107	111	116	121	127	134	141	149	157	167	176	184	192	200	205	205	213	221
108	100	102	105	109	113	118	123	130	137	144	153	162	172	181	190	198	206	211	211	219	227
109	100	103	107	110	115	120	126	133	140	148	157	167	177	186	195	204	212	217	217	225	233
110	101	104	108	112	117	122	129	136	143	152	161	171	181	190	199	208	216	221	221	229	237
111	102	106	109	114	119	125	131	139	147	156	166	176	186	195	204	213	221	226	226	234	242
112	104	107	111	115	121	127	134	142	150	160	170	181	191	200	209	218	226	231	231	239	247
113	104	108	112	117	123	129	137	145	154	164	175	185	195	204	213	222	230	235	235	243	251
114	105	109	113	119	125	132	140	148	158	168	179	189	199	208	217	226	234	239	239	247	255
115	106	110	115	121	127	134	143	152	162	173	184	194	204	213	222	230	235	235	243	251	259
116	107	111	116	122	129	137	146	155	166	177	187	197	207	216	225	233	238	238	246	254	262
117	108	112	118	124	132	140	149	159	170	181	191	201	211	220	229	237	242	242	250	258	266
118	108	113	119	126	134	142	152	162	174	186	196	206	216	225	234	242	247	247	255	263	271
119	109	114	121	128	136	145	155	166	178	189	199	209	219	228	237	245	250	250	258	266	274
120	110	116	122	130	138	148	158	170	182	193	203	213	223	232	241	249	254	254	262	270	278
121	111	117	124	132	141	151	162	174	187	198	208	218	228	237	246	254	259	259	267	275	283
122	111	118	125	134	143	154	165	178	190	201	211	221	231	240	249	257	262	262	270	278	286
123	112	119	127	136	146	157	169	182	194	205	215	225	235	244	253	261	266	266	274	282	290
124	113	120	129	138	148	160	172	185	197	208	218	228	238	247	256	264	269	269	277	285	293
125	114	121	130	140	151	163	176	189	201	212	222	232	242	251	260	268	273	273	281	289	297

**Heat Index**



Extreme Danger	Heat stroke likely.
Danger	Sunstroke, muscle cramps, and/or heat exhaustion likely. Heatstroke possible with prolonged exposure and/or physical activity.
Extreme Caution	Sunstroke, muscle cramps, and/or heat exhaustion possible with prolonged exposure and/or physical activity.
Caution	Fatigue possible with prolonged exposure and/or physical activity.

**Note:** The Heat Index table was developed with an expectation of partial shade & light wind conditions present. Work conducted in direct / full sunlight (e.g. no partial shade) and no wind adds up

to 15° F (8° C) to the Heat Index evaluation.

### Monitoring of Weather and Heat Index Table Continued

Heat Index Action Levels. Below are recommended additional controls. Each level of additional controls is additive as the temperature increases.

	<p><b>CAUTION 80° - 90° F (26° - 32° C).</b> Implement one or more of the following measures: Provide and direct hydration, schedule breaks, ensure lightweight clothing is worn, provide break areas with shade / ventilation / air conditioning.</p>
	<p><b>EXTREME CAUTION 90° - 105° F (32° - 40.5° C).</b> Implement all the previous and add one or more of the following: Provide light duty PPE, cooled break areas, shaded work areas. <b>NOTE:</b> "Light Duty PPE" includes hard hat sun shades, sun hats, dry or wet evaporative cooling vests, microfiber cooling towels / scarves / headbands / hard hat suspension inserts or sweatbands, hard hat neck shades.</p>
	<p><b>DANGER 105° - 130° F (40.5° - 54.4° C).</b> Implement all the previous and add one or more of the following: cooled work areas, modified work schedule, heavy duty PPE, and personnel physiological monitoring. <b>NOTE:</b> "Heavy Duty PPE" phase-change cooling vests, gel pack or ice pack equipped cooling vests. Consider engineering controls such as forced ventilation.</p>
	<p><b>EXTREME DANGER <math>\geq 130^\circ</math> F (<math>\geq 54.4^\circ</math> C).</b> If working at this temperature or greater Stop Work until conditions change or hazards are effectively controlled via the items listed above. At this range of temperatures it is critical to implement personnel vital sign monitoring for determining the appropriate frequency and duration of Work / Rest cycles.</p>

### Work / Rest Cycle Duration and Frequency Process

All workers, regardless if they are wearing permeable or impermeable clothing, should be monitored when conditions warrant e.g., when temperatures exceed 80°F / 26.6°C. If impermeable clothing is worn (e.g., not standard cotton/synthetic work clothes), it is a best practice to begin monitoring workers when temps are > 70°F in the work area. Prioritize workers completing strenuous tasks. Prioritization should also apply to work conducted indoors, for strenuous tasks, and/or if additional PPE is worn (such as Level C respiratory protection or(CPC). If impermeable clothing, Level C, or CPC is not worn, follow the Heat Index table instructions and evaluate personnel monitoring as part of the high heat measures. Details provided below for appropriate work/rest cycle development with the default rest cycle being a 15-minute interval for every hour when temperatures exceed 90°F.

**NOTE:** Warning signs include: When a person's sustained (e.g., several minutes) heart rate exceeds 180 beats per minute (bpm) minus their age (e.g., 180 - age = X) for

*individuals with normal cardiac performance per their physician; or a body core temperature exceeds 101.3°F / 38.5°C for acclimatized workers or 100°F / 38°C for unacclimatized workers; a recovery heart rate at 1 minute after a peak work effort is greater than 120 bpm; or there are symptoms of sudden and severe fatigue, nausea, dizziness, or lightheadedness.*

**Suggested Frequency and Duration of Work / Rest Cycles Applying Physiological Monitoring of Acclimatized Personnel**

<b>Adjusted Temp. (1)</b>	<b>Permeable PPE (2)</b>	<b>Impermeable PPE (3)</b>
<b>≥ 90° F / 32° C</b>	<b>After ea. 45 mins. of work</b>	<b>After ea. 15 mins. working</b>
<b>87.5-90° F / 30.8-32.2° C</b>	<b>After ea. 60 mins. of work</b>	<b>After ea. 30 mins. Working</b>
<b>82.5-87.5° F / 28.1-30.8° C</b>	<b>After ea. 90 mins. of work</b>	<b>After ea. 60 mins. Working</b>
<b>77.5-82.5° F / 25.3-28.1° C</b>	<b>After ea.120 mins. of work</b>	<b>After ea. 90 mins. Working</b>
<b>72.5-77.5° F / 22.5-25.3° C</b>	<b>After ea.150 mins. of work</b>	<b>After ea. 120 mins. Working</b>

**NOTES:**

(1) Adjusted air temp (ta adj) calculation:  $ta\ adj\ F = ta\ F + (13 \times \% \text{ sunshine})$ . Measure the air temperature (ta) with a thermometer (shielded from radiant heat). Estimate the percent sunshine by judging what percent time the sun is not covered by clouds that are thick enough to produce a shadow. (100 percent sunshine = no cloud cover and a sharp, distinct shadow; 0 percent sunshine = no shadows.)

(2) Permeable PPE consists of cotton clothing with long sleeves and pants or breathable coveralls.

(3) Add 1.8 °F for Tyvek coveralls; add 5.4 °F for heavy clothing; add 19.8 °F for impermeable/semi-impermeable PPE - Level A/B suits)

**Heart Rate Monitoring**

When conducting heart rate monitoring, first record a resting heart rate to establish the individuals daily baseline heart rate. Count the radial pulse (located on the inside of the wrist below the thumb) during a 30 second interval before the start of work to establish a baseline heart rate. During rest cycles count the heart rate as early as possible at the beginning of the rest cycle and again 3-5 minutes later. The heart rate should fall and soon approach the individuals baseline heart rate.

- If the heart rate exceeds 110 beats per minute at the beginning of the rest period, shorten the next work cycle by one-third and keep the rest period the same.
- If the heart rate still exceeds 110 beats per minute at the next rest period, shorten the following work cycle by one-third.

**Body Temperature Monitoring**

Use an oral, inner ear, or an infrared type thermometer to measure the body temperature at the end of the work period (If using an oral thermometer record temperature before drinking liquids).

- If oral temperature exceeds 99.6°F (37.6°C), shorten the next work cycle by one-third

without changing the rest period.

- If oral temperature still exceeds 99.6°F (37.6°C) at the beginning of the next rest period, shorten the following work cycle by one-third.
- Do not permit a worker to wear a semi-permeable or impermeable garment when his/her oral temperature exceeds 100.6 °F (38.1 °C).

### **Procedures for High Heat Conditions and Heat Waves**

These procedures are additional preventative measures to be implemented when the temperature is > 95° F (35° C). The SSO or designee is responsible for ensuring effective observation and monitoring of employees during periods of high heat by implementing one or more of the following procedures:

1. SSO or designee will supervise 20 or fewer employees.
2. The “Buddy System” is mandatory. Conduct routine checks for early signs of Heat Illness. Set and verify routine consumption of water & sports drinks in a 3:1 ratio.
3. Maintain regular communication between Project Manager or SSO / designee and field staff (e.g. via mobile phone, radio or another effective means) for observation of early signs of heat illness.
4. Designate one or more employees as authorized to contact emergency medical services and communicating that if no designate is identified and the SSO is unavailable that any employee can call for emergency medical assistance.
5. Modify work schedule to avoid hottest parts of the day (e.g. start work earlier in the AM, stop work for the hottest hours of the day, conduct work during the evening).

Additionally, tailgate Safety Meetings will include a review the high heat procedures, encourage employees to drink plenty of water, and remind employees of the importance to take a preventative or recovery cool-down rest when necessary.

Employees will be observed for alertness and signs and symptoms of heat illness at regular intervals to be documented in the field book or field log.

The “Buddy System” must be implemented. Particular attention needs to be paid to new employees or employees who have yet to acclimate to high heat conditions. Additionally, frequent communication will be maintained with employees working by themselves (via cell phone or two-way radio), to evaluate early warning signs and symptoms of heat illness.

When the SSO is not available, an alternate responsible person must be assigned to look for signs and symptoms of heat illness. Such a designated observer will be trained and know what steps to take if heat illness occurs.

### **"Heat Wave" Procedures**

A "heat wave" as defined by NOAA, is a period of abnormally and uncomfortably hot and unusually humid weather." Typically, a heat wave lasts 2 or more days. A "Heat Wave" as defined for the purposes of this Standard is when temperatures are sustained above 80° F / 26° C.

During a heat wave or if site conditions indicate the potential for "Extreme Caution", "Danger" or "Extreme Danger" per the NOAA Heat Index Table the following steps will be taken:

Work schedules will be modified to protect workers from heat illnesses. The SSO or designee in coordination with the project team, will use their Stop Work Authority and evaluate the following actions and document the action in the daily field log

1. Modify work hours to exclude the hottest parts of the day.
2. Reschedule work or specific tasks that require strenuous exertion or Stop Work.

If schedule modifications are not possible, the Heat Illness Prevention Plan will be reviewed before work resumes. At a minimum, procedures for heat illness prevention, the provisions of the high heat procedures, the weather forecast and emergency response protocols will be reviewed.

Employees will be provided with additional water and rest breaks and will be observed more frequently. During work activities and rest breaks, employees will be observed for signs and symptoms of heat illness.

All employees will maintain frequent communication with the SSO or designee, who will be monitoring workers for possible symptoms of heat illness. In the event of large project sites where the SSO may be unable to be near the workers (to directly observe or communicate with them), then communication via a cell phone or radio may be used for this purpose provided reception in the area is reliable.

### **Procedure for Emergency Response**

Emergency procedures include recognizing the symptoms of heat related illness. A critical step also involves ensuring that effective communication is established either

through voice, direct observation or electronic means such as via mobile phones or 2-way radios. In an emergency situation it is critical that employees understand the process and contact information for requesting emergency medical support. The reception coverage for the site must be evaluated and understood to ensure adequate communication is in place across the project site. During a heat wave or hot temperatures, workers will be reminded and encouraged to immediately report to the SSO any signs or symptoms of the onset of heat stress they are experiencing.

### **Procedure for Emergency Response Continued**

The SSO or designee is responsible for implementing the following procedures for emergency response. These procedures include, but are not limited to, the following:

- 1.** Prior to assigning staff to a particular work site, during the Tailgate H&S Safety Meeting all site workers will review the HASP along with the identified Hospital precise directions (such as streets or road names, distinguishing features, and distances to major roads), to avoid a delay of emergency medical services.
- 2.** Prior to work, efforts will be made to ensure that a qualified, appropriately trained and equipped personnel are consistently available to render first aid.
- 3.** Prior to the morning Tailgate Safety Meeting, an evaluation of whether or not a language barrier is present at the site for understanding the necessary preventative measures and emergency notifications procedures can be completed. Necessary steps will be taken (such as assigning the responsibility to call emergency medical services to the SSO or an English speaking worker) to ensure that emergency medical services can be immediately called in the event of an emergency.
- 4.** All SSOs and supervisors will carry cell phones or other means of communication to ensure that emergency medical services can be called. Routine checks will be made to ensure the devices are allowed on site, have adequate reception across the site, and are functional prior to each shift.
- 5.** When an employee reports symptoms, or displaying symptoms of possible heat illness, steps will be taken immediately to keep the affected employee cool and comfortable. Evaluate whether 1st aid is to be administered or emergency services are to be contacted or the employee is to be taken to an emergency facility for care.

### **Procedure for Handling a Sick Employee**

**Signs of Heat Stress:** Excessive fatigue, heavy sweating, headaches, abdominal and/or upper thigh cramps, mild dizziness, elevated pulse.

**Signs of Heat Exhaustion:** Cool, moist, pale or flushed skin, nausea or vomiting, disorientation or confusion.

**Signs of Heat Stroke:** Hot, red skin which can feel dry to the touch, or moist from overexertion, changes in consciousness, rapid or weak pulse, shallow rapid breathing.

The SSO or designee is responsible for implementing the following procedures for evaluating and providing care for a sick employee:

1. When an employee displays signs or symptoms consistent with the heat related illness, the SSO or designee will check the sick employee and determine whether resting in the shade and drinking cool water will suffice or if emergency service providers will need to be called.

**Procedure for Handling a Sick Employee Continued**

If determined to be a **non-emergency** (e.g. heat cramps or heat stress) the SSO will contact **WorkCare Injury Assistance Hotline 1-888-449-7787** for 1st aid medical assistance. In the event of the injury being an emergency, or potentially (e.g. Heat Exhaustion or Heat Stroke) contact emergency support services.

2. When an employee displays possible signs or symptoms of heat illness and no trained first aid worker or supervisor is available at the site, emergency service providers will be called.

3. Emergency service providers will be called immediately if an employee displays signs or symptoms of advanced stage heat related illness like Heat Exhaustion or Heat Stroke (loss of consciousness, incoherent speech, convulsions, red and hot face) or does not get better after drinking cool water in intervals of 8 ounces every 15 minutes and resting in the shade. While the ambulance is in route, assign a person to care for the injured, first aid will be administered (cool the worker by placing them in the shade, remove excess layers of clothing, place ice pack in the armpits and groin area and fan the person). A worker determined to be suffering an advanced stage of heat related illness will not be allowed to leave the site except under medical care, or as directed by a medical professional.

4. If an employee displays signs or symptoms of advanced stage heat related illness (loss of consciousness, incoherent speech, convulsions, red and hot face), and the work site is located more than 20 minutes away from a hospital, call emergency service providers, communicate the signs and symptoms of the victim, and request an Air Ambulance if necessary.

**Revisions, notes, amendments, and clarifications specific to this plan will be detailed in the space below:**

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Arcadis Heat Illness Prevention Plan (HIPP)  
HASP Supplement

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**Attachment L**

## Smoke Respiratory Protection Plan



Project Name: Former Chevron Facility 211577

Project Number: 3001258

Date: 9/2/2021

### Introduction:

This Smoke Respiratory Protection Plan (Plan) has been prepared for use by employees working on projects or project sites in wildfire smoke impacted areas where there is known, forecasted or anticipated smoke concentrations in the breathing zone greater than or equal to a current Air Quality Index (AQI) of 151 for PM2.5 (See definitions below). This plan is designed to meet Cal OSHA regulatory requirements but may be used outside of California as a best practice on project sites with breathing zone smoke issues.

### Task Description:

Installation of soil borings, vapor probes, and monitoring wells at the Off-Property portion of the 211577 Queen Anne site. Vapor, soil, and monitoring wells will be sampled at new and existing locations.

### Definitions:

Current Air Quality Index (AQI). The method used by the U.S. Environmental Protection Agency (U.S. EPA) to report air quality on a real-time basis. Current AQI is also referred to as the "NowCast," and represents data collected over time periods of varying length in order to reflect present conditions as accurately as possible. The AQI data can be used to assess conditions at the work site if site specific data is unavailable.

PM2.5. Solid particles and liquid droplets suspended in air, known as particulate matter, with an aerodynamic diameter of 2.5 micrometers or smaller

Filtering facepiece respirator (FFR). An FFR is an N95 or similar type respirator AKA as "dust ask". Unlike FFRs, reusable respirators described as "tight-fitting facepieces" or "elastomeric respirators" even when used in a "voluntary use" capacity still have requirements which at a minimum includes a medical evaluation.

The current AQI is divided into six categories as shown in the table below, adapted from Table 2 of Title 40 Code of Federal Regulations, Part 58, Appendix G.

Air Quality Index (AQI) Categories for PM2.5	PM2.5 in Microgram per Cubic Meter ( $\mu\text{g}/\text{m}^3$ )	Levels of Health Concern
0 to 50	0 to 12	Good
51 to 100	12.1 to 35.4	Moderate
101 to 150	35.5 to 55.4	Unhealthy for Sensitive Groups
151 to 200	55.5 to 150.4	Unhealthy
201 to 300	150.5 to 250.4	Very Unhealthy
<b>301 to 500</b>	<b>250.4 to 500.4</b>	<b>Hazardous</b>

### If Site Specific Air Monitoring Equipment is Used:

[Project team will rely on AQI data from AirNow.gov instead of using air monitoring devices.](#)

When using a direct-reading particulate monitor to determine PM2.5 levels described above:

- (1) Must not underestimate employee exposures to wildfire smoke; or
- (2) May underestimate wildfire smoke exposures, but the project team has obtained information on the possible error of the monitor from the manufacturer or other published literature and has accounted for the error of the monitor when determining exposures to PM2.5 to ensure that employee exposure levels are not underestimated.

The monitor selected shall be designed and manufactured to measure the concentration of airborne particle sizes ranging from an aerodynamic diameter of 0.1 micrometers up to and including 2.5 micrometers. If the monitor measures a particle size range beyond these limits, the project team must treat the results as the PM2.5 levels.

The project team shall ensure that the monitor used is calibrated, maintained, and used, including the use of necessary accessories, in accordance with the manufacturer's instructions for accurately measuring PM2.5 concentrations.

### **Smoke Inhalation Hazard Controls:**

Consistent with Arcadis policy, engineering controls will first be considered and implemented to the extent practical to control PM2.5 levels of smoke in the atmosphere. These controls include, but are not limited to performing work such as preparing paperwork, calibrating instruments, preparing equipment, etc. inside buildings or vehicles with filtered air ventilation systems to the extent possible.

If engineering controls fail to mitigate smoke to less than current AQI 151 for PM2.5 levels in the breathing zone, administrative controls will be considered. These controls may include, but are not limited to, adjusting work schedules for affected employees, use of job rotation, implementing work/rest periods, etc. to mitigate the exposure.

If engineering and administrative controls fail to mitigate a current AQI151 for PM2.5 exposure, personal protective equipment in the form of respiratory protection will be provided as follows:

a) Where the current AQI for PM2.5 is equal to or greater than 151, but does not exceed 500, respirators will be provided to all employees for voluntary use and employees are encouraged to use the respirators provided. Respirators selected shall be NIOSH-approved and effectively protect the wearers from inhalation of PM2.5, such as N95 filtering facepiece respirators. Respirators shall be cleaned, stored, maintained, and replaced so that they do not present a health hazard to users.

Additionally:

1) The project team shall provide each respirator wearer a copy of Attachment A to this Plan as training in the proper voluntary use of respirators on the project.

2) Since the filtering facepiece respirator use is voluntary, regulatory and Arcadis requirements regarding fit testing and medical evaluations are not mandatory.

b) Where the current AQI for PM2.5 exceeds 500, respirator use is required in accordance with all requirements in the Arcadis Respiratory Protection Health and Safety Standard. The assigned protection factor for the respirator used will ensure the PM2.5 levels inside the respirator correspond to an AQI less than 151. If wildfire smoke is the only respiratory hazard of concern on the project, preparation of the Arcadis Level C Supplement is not required if meeting the requirements of this plan.

### **Site Specific Controls:**

Smoke forecast for the site will be monitored during fire season. AQI will be monitoring throughout the day in the field if smoke is present. N95 or KN95 masks will be provided onsite if forecast shows potential for smoke.

### Respirator Change Out:

In most situations, the NIOSH approved N-95 respirator to be issued for voluntary use will be in the form of a "dust mask". When used in voluntary situations, the dust mask will be replaced:

- a) At the end of each work shift; or
- b) When visibly soiled or discolored from smoke, dirt or debris; or
- c) When breathing becomes difficult or labored while wearing the dust mask.

Voluntary use of other types of respirators meeting NIOSH N-95 protection, such as tight-fitting half-facepiece or full facepiece air purifying respirators equipped with particulate cartridges, the cartridges will be changed out using the same criteria above for dust masks or will be changed out in accordance with manufacturer's end of service life (ESLI) recommendations.

### Respirator Decontamination and Disinfection:

Disposable dust masks will not be decontaminated or disinfected and will be disposed after use. For other types of respirators, the following cleaning and disinfecting procedure will be used:

- 1) Remove cartridges/canisters/filters. Disassemble facepiece by removing speaking diaphragm, demand and pressure-demand valve assemblies, hoses, or any components recommended by the manufacturer.
- 2) Wash components with warm (<110° F) water with a mild detergent or with a cleaner approved by the manufacturer. A soft, non-wire bristle brush may be used to facilitate dirt removal.
- 3) Rinse with warm (<110° F) clean water, preferably running water.
- 4) If the cleaner used does not contain a disinfecting agent, respirator components should be immersed in one of the following for two minutes:
  - a) Hypochlorite solution (50 ppm chlorine) made by adding approximately 1 milliliter of laundry bleach to 1 liter of water at 110° F; or
  - b) Aqueous solution of iodine (50 ppm iodine) made by adding approximately 0.8 milliliters of tincture of iodine [6-8 grams ammonium and/or potassium iodide/100 cubic centimeters (cc) of 45 percent alcohol] to one liter of water at 110° F; or
  - c) Other commercially available cleansers of equivalent disinfectant quality, when used as directed by the manufacturer, and are approved for use by the respirator manufacturer.
- 5) Thoroughly rinse the respirator components in clean, warm, (<110° F) running water.
- 6) Components should be hand dried with a soft lint free cloth or allowed to air dry.
- 7) Reassemble the facepiece and restore cartridges/canisters/filters as necessary.
- 8) Test the respirator for proper working condition.

### Communications:

The Site Safety Officer will update employees on current AQI for PM2.5 verbally during safety briefings and throughout the day by:

- Two-way radio communications
- Cell or satellite phone via voice or text
- Other method: \_\_\_\_\_

### Utilization of WorkCare for Smoke Inhalation Questions or Concerns:

Employees experiencing difficulty breathing due to wildfire smoke exposure (regardless of the AQI) or through voluntary use of a respirator are expected, as a matter of Arcadis policy, to contact WorkCare



available to employees. Employers shall encourage employees to inform their employers if they notice the air quality is getting worse, or if they are suffering from any symptoms due to the air quality, without fear of reprisal.

The employer communication system is:

The Site Safety Officer will update employees on current AQI for PM2.5 verbally during safety briefings and throughout the day by:

<input type="checkbox"/>	Two-way radio communications	
<input checked="" type="checkbox"/>	Cell or satellite phone via voice or text	
<input type="checkbox"/>	Other method	NA

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**f) The employer's methods to protect employees from wildfire smoke.**

Employers shall take action to protect employees from PM2.5 when the current AQI for PM2.5 is 151 or greater. Examples of protective methods include:

- (1) Locating work in enclosed structures or vehicles where the air is filtered.
- (2) Changing procedures such as moving workers to a place with a lower current AQI for PM2.5.
- (3) Reducing work time in areas with unfiltered air.
- (4) Increasing rest time and frequency, and providing a rest area with filtered air.
- (5) Reducing the physical intensity of the work to help lower the breathing and heart rates.

The employer's control system at this worksite is:

Smoke forecast for the site will be monitored during fire season. AQI will be monitoring throughout the day in the field if smoke is present. N95 or KN95 masks will be provided onsite if forecast shows potential for smoke.

**(g) The importance, limitations, and benefits of using a respirator when exposed to wildfire smoke.**

Respirators can be an effective way to protect employee health by reducing exposure to wildfire smoke, when they are properly selected and worn. Respirator use can be beneficial even when the AQI for PM2.5 is less than 151, to provide additional protection. □

When the current AQI for PM2.5 is 151 or greater, employers shall provide their workers with proper respirators for voluntary use. If the current AQI is greater than 500, respirator use is required in accordance with all applicable regulatory and Arcadis Respiratory Protection Program requirements.

A respirator should be used properly and kept clean. The following precautions shall be taken:

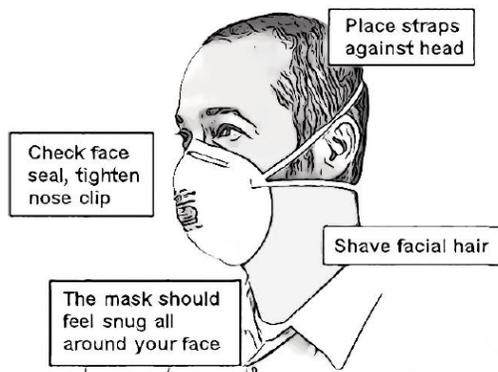
- (1) Employers shall select respirators certified for protection against the specific air contaminants at the workplace. NIOSH, the National Institute for Occupational Safety and Health of the U.S. Center for Disease Control and Prevention, certifies respirators. A label or statement of certification should appear on the respirator or respirator packaging. It will list what the respirator is designed for (particulates, for example). Surgical masks or items worn over the nose and mouth such as scarves, T-shirts, and bandannas will not provide protection against wildfire smoke. An N95 filtering facepiece respirator, shown in the image below, is the minimum level of protection for wildfire smoke.
- (2) Read and follow the manufacturer's instructions on the respirator's use, maintenance, cleaning and care, along with any warnings regarding the respirator's limitations. The manufacturer's instructions for medical evaluations, fit testing, and shaving should also be followed, although doing so is not required by Title 8, section 5141.1 for voluntary use of filtering facepiece respirators.
- (3) Do not wear respirators in areas where the air contains contaminants for which the respirator is not designed. A respirator designed to filter particles will not protect employees against gases or vapors, and it will not supply oxygen.
- (4) Employees should keep track of their respirator so that they do not mistakenly use someone else's respirator.
- (5) Employees who have a heart or lung problem should ask their doctor before using a respirator.

**(h) How to properly put on, use, and maintain the respirators provided by the employer.**

To get the most protection from a respirator, there must be a tight seal around the face. A respirator will provide much less protection if facial hair interferes with the seal. Loose-fitting powered air purifying respirators may be worn by people with facial hair since they do not have seals that are affected by facial hair.

The proper way to put on a respirator depends on the type and model of the respirator. For those who use an N95 or other filtering facepiece respirator mask that is made of filter material:

- (1) Place the mask over the nose and under the chin, with one strap placed below the ears and one strap above.
- (2) Pinch the metal part (if there is one) of the respirator over the top of the nose so it fits securely.



*Drawing Showing Proper Fitting of a Filtering Facepiece Respirator  
(shaving is not required for voluntary respirator use)*

For a respirator that relies on a tight seal to the face, check how well it seals to the face by following the manufacturer's instructions for user seal checks. Adjust the respirator if air leaks between the seal and the face. The more air leaks under the seal, the less protection the user receives.

Respirator filters should be replaced if they get damaged, deformed, dirty, or difficult to breathe through. Filtering facepiece respirators are disposable respirators that cannot be cleaned or disinfected. A best practice is to replace filtering facepiece respirators at the beginning of each shift. If you have symptoms such as difficulty breathing, dizziness, or nausea, go to an area with cleaner air, take off the respirator, and get medical help.

NOTE: Authority cited: Section 142.3, Labor Code. Reference: Sections 142.3 and 144.6, Labor Code.

**Attachment M**

## Silica Exposure Control Plan

Project Name: Former Chevron Facility 211577

Project Number: 3001258

Date: 9/2/2021

**Task Description:**

: Installation of soil borings, vapor probes, and monitoring wells will involve drilling through pavement, posing potential silica exposure. Arcadis personnel will maintain distance (approximately 10 ft) from active drilling operations and N95 or K95 masks will be worn.

1) *Arcadis Silica Competent Person:* Dan Gilbert

The above individual will ensure requirements stipulated in this plan are implemented and has the authority to take corrective measures and/or revise this plan to ensure employee, contractor and/or public exposure to silica dust remains below the respirable inhalation time weighted average action level of 25 µg/m3 over an 8-hour period.

2) *What material will the team be working with on this project?*

Concrete

3) *The following work activity will be performed on this project which have a potential for silica dust exposure:*

Drilling/coring (rig mounted)

The following controls will be utilized to mitigate exposure to silica dust hazards:

*Based on the activity entered above, the following OSHA/Arcadis activity category is:*

Rig-mounted core saws or drills

4) *The controls to be utilized include:*

Use tool equipped with integrated water delivery system that supplies water to cutting surface.

Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.

4a) *Respiratory Protection:*    ≤4 HRS    >4HRS

Indoors or Enclosed Area:    

None	None
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Outdoors:

≤4 HRS	>4HRS
None	None

**Additional Housekeeping Requirements:**

Arcadis prohibits dry sweeping or dry brushing where such activity could contribute to employee exposure to

respirable crystalline silica unless wet sweeping, HEPA-filtered vacuuming or other methods that minimize the likelihood of exposure are not feasible.

Arcadis prohibits use of compressed air to clean clothing or surfaces where such activity could contribute to employee exposure to respirable crystalline silica unless:

The compressed air is used in conjunction with a ventilation system that effectively captures the dust cloud created by the compressed air; or

No alternative method is feasible (requires concurrence with a CIH).

5) *Air Monitoring Requirements for Activities with an Assigned Respirator APF Listed in Section 4a.*

- Real-time air monitoring for silica is not required for this project.
- Real-time air monitoring will be conducted during work activities where employees or contractors are exposed to or have the reasonable probability to be exposed to silica dust hazards. Silica air monitoring will include use of an aerosol monitor equipped with a Dorr-Oliver cyclone kit for respirable dust evaluation. Although not permitted to be the sole method of determining employee exposure, real-time air monitoring for silica will be performed in the employee breathing zone (personal air monitoring) and also performed at the perimeter of the work area (exclusion zone boundary). The results will be documented and submitted to Corporate H&S upon completion of the project. Air samples for laboratory analysis will also be required unless excepted from collection by a CIH.

Aerosol monitor selected for use on this project: \_\_\_\_\_  
 Frequency of air sample collection for laboratory analysis: \_\_\_\_\_  
 Air samples will be submitted to the following laboratory: \_\_\_\_\_

6) *Medical Surveillance*

Employees performing work activities where exposure to silica dust is known to be or has a reasonable probability to be above the OSHA 8-Hr TWA action level of 25 µg/m3 will participate in silica medical surveillance in conjunction with their annual HAZWOPER physical. New entrants into the silica medical surveillance program at times when the HAZWOPER physical is not due will coordinate the required surveillance with WorkCare and then maintain the surveillance with their HAZWOPER physical going forward.

7) *Additional Instructions*

Signatures:

Sara Fulton  
Preparer Name Printed

9/2/2021  
Date

  
Preparer Signature

**Attachment N**

# **Arcadis Field and Embedded Staff COVID-19 Guidance**

13 August 2021

## Version Control

Revision No.	Date Issued	Description
1	3/17/20	Original document.
2	3/20/20	Added guidance for multiple occupants traveling in the same vehicle.
3	3/24/20	Updated introduction to include links to Orange Line information; added requirement of Arcadis COVID-19 Health Screening Self-Assessment Questionnaires; moved client questionnaire section forward in the document; and made minor updates to the social distancing, vehicle/transportation, lodging and equipment sections.
4	3/30/20	Updated social distancing section to include CDC “close contact” definition; added section for work in team settings; added AirBnB to lodging discussion.
5	4/2/20	Document template updated and sections rearranged; updated Hand Hygiene section; updated Cleaning of Frequently Touched Surfaces section; updated close contact definition; added section on PPE; added section for Traveling Between States, Provinces and Territories; added section for Construction/Construction Management; added section on Post-Shift Work
6	4/3/20	Added Appendix D – Interim Guidance for the Use of Face Coverings; Updated links, Section 2.3 added bullet to avoid sharing tools and equipment unless cleaned; Section 4.7.2 updated with a bullet for maintaining social distancing at choke points; Section 4.8 added section for Face Coverings and guidance in Appendix D.
7	4/10/20	Added Section 2.8 Other Considerations for journey and emergency action planning; Section 4.6 updated with current information regarding COVID-19 in sewage; Section 4.8 and Appendix D updated to include CDC’s recommends of wearing cloth face coverings in public settings where other social distancing measures are difficult to maintain.
8	4/13/20	Revised Section 2.6 by adding information about gloves being required in some jurisdictions; revised Section 4.8 and Appendix D with latest CDC and Health Canada guidance information.
9	4/20/20	Revised Section 2.1 to discuss both digital and hardcopy COVID-19 Health Screening Self-Assessment Questionnaires; revised Section 2.3.1 to include instructions on alcohol-based hand sanitizer use.
10	4/26/20	Revised Section 2.1 by adding the definition of fever and process for elevated temperature; revised section 2.4 by adding a reminder to understand the appropriate uses and limitations of the disinfectant; revised Section 2.6 by adding link to PPE request form and email address; Section 3.1 added link to “Locations with Travel Restrictions”

Revision No.	Date Issued	Description
		dashboard; revised Section 3.2 to consider face coverings when multiple occupants are riding in a single vehicle; revised Section 4.2 adding critical infrastructure/essential worker language; updated hyperlinks
11	5/1/20	Section 1 revised with latest symptoms of COVID-19; Section 2.5 reinforced Stop Work Authority and reporting where social distancing is not being practiced; inserted Interim Guidelines for Cardiopulmonary Resuscitation as Section 2.8 and moved “Other Considerations” to Section 2.9; added a bullet referencing Continuity Plan in Section 2.9
12	5/4/20	Revised Appendix C per jurisdictional updates.
13	6/16/20	Updated symptom list per CDC guidance; revised CDC close contact definition notes (Section 2.4); added plan for breaks bullets in Section 4.2; added Section 4.9 KN95; updated CDC’s face covering laundering recommendations in Appendix D.
14	8/14/20	Updated footnotes for “close contact” definition (Section 2.5); updated Sections 3.1 and 3.3 to reflect current travel recommendations; updated Section 4.8 and Appendix D to indicate exhalation valves or vents should NOT be worn; added links to the Face Covering Guide in Section 4.8.
15	10/23/20	Added Appendix E with additional signage that may be used; added reference to signage (Section 2.3.1); updated social distancing and close contact definitions (Section 2.5); added Yellow Guidance sub bullet (Section 2.7); updated order hyperlink (Section 3.1); added airline and other transportation (Section 3.2); added reporting requirement documentation (Section 4.3); updated Section 4.7.1 to clarify occupancy and documentation of visitors for contact tracing; added guidance to hold meetings outside (Section 4.7.2); minor edits to Section 4.8 and Appendix D.
16	11/13/20	Section 3.2 updated protocol to only one person in a vehicle; Section 3.3 updated protocol regarding room sharing and dining; Sections 4.2 through 4.7 added a face covering bullet; Section 4.8 and Appendix D added information from recent study that face coverings provide protection to the wearer.
17	12/4/20	Revised the reporting process in Section 2.7 to contact WorkCare instead of Brian Kundert. Added Section 2.7.1 describing WorkCare’s risk stratification and return to work process.
18	1/29/21	Updated all hyperlinks to new Intranet; added COVID-19 vaccine to Section 2.3; moved the Face Covering and KN95 section from 4.8 and 4.9, respectively, to Section 2.6; renumbered all sections; Section 2.9 clarified the continuity plan is required by the jurisdiction or client and is

Revision No.	Date Issued	Description
		recommended for all projects; revised poster in Appendix B; Appendix D updated with current CDC language and added CDC graphics.
19	2/25/21	Updated links in Section 2.1.2; updated Section 2.6 and Appendix D with revised face covering and KN95 guidance.
20	5/18/21	Added U.S. quarantine exemptions in Section 2.8; updated U.S. ridesharing requirements in Section 3.2; updated U.S. dining protocol in Section 3.3; updated face covering bullets in Section 4.0 work-specific situations; template update.
21	7/23/2021	Updated Section 2.1 and 2.8.1 to reflect the revised WorkCare Daily Screen and risk stratification process; removed outdated Section 2.6.1; updated U.S. vehicle sharing protocol in Section 3.2; Section 4.7 updated with guidance for vaccinated and unvaccinated employees.
22	8/13/21	Removed “Jurisdictional Social Distancing” template from Appendix C and renumber appendices; changed temperature at which individuals will not visit an office or project site to 100.0°F (37.8°C) in Section 2.1; updated face covering protocol for indoor spaces in Section 2.6 and Appendix C; updated U.S. vehicle sharing protocol in Section 3.2.

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## Appendices

- Appendix A: S Signage – Self-Assessment Required**
- Appendix B: Site Signage – Social Distancing**
- Appendix C: Guidance for the Use of Face Coverings**
- Appendix D: Additional Signage**
- Appendix E: Arcadis Contact Tracing Log**

## Acronyms and Abbreviations

AED	Automated external defibrillators
CDC	U.S. Centers for Disease Control and Prevention
CPR	Cardiopulmonary resuscitation
HC	Health Canada
PPE	Personal protective equipment
SDS	Safety Data Sheet

# 1 Introduction

Currently Arcadis is following CDC and Health Canada guidelines, as well as applicable government directives. The health and safety of our people is of utmost importance to us. Arcadians are empowered to use TRACK to evaluate individual situations and Stop Work Authority anytime safety is at risk. Employees will not come to work if exhibiting any respiratory illness symptoms, including but not limited to COVID-19.

It is recommended that all field and embedded staff review and have access to the current version of this document. The most current version can be viewed and downloaded from the [ANA H&S COVID-19 Resources](#) intranet page. COVID-19 symptoms may appear 2-14 days after exposure to the virus. People with these symptoms or combinations of symptoms may have COVID-19:

- Fever or chills
- Cough
- Shortness of breath or difficulty breathing
- Fatigue
- Muscle or body aches
- Headache
- New loss of taste or smell
- Sore throat
- Congestion or runny nose
- Nausea or vomiting
- Diarrhea

This list is not all inclusive. Please consult your medical professional for any other symptoms that are severe or concerning to you.

## 2 Guidance for Project Activities

Employees should complete the following for all project activities.

### 2.1 Arcadis COVID-19 Health Screening Self-Assessment Questionnaires

All employees going to an Arcadis office, a project site, or a client site will be required to complete a Daily Screening through WorkCare, regardless of vaccination status. Individuals should continuously monitor for signs and symptoms of COVID-19 and, if not feeling well, complete the WorkCare Daily Screen Process again.

When individuals take their own temperature to evaluate whether they have a fever, the temperature measurements will be completed without the use of fever-reducing medicines that contains ibuprofen or acetaminophen and not within 30 minutes of exercise. The CDC defines a fever as a temperature of 100.4°F (38°C) or greater. If the individual's temperature is between 99°F (37.2°C) and 99.9°F (37.7°C) it is recommended the individual pay close attention for signs and symptoms of COVID-19 and complete the WorkCare COVID-19 Daily Screen Process more frequently. Individuals with temperatures of 100.0°F (37.8°C) or greater should not

visit an office or project site. You may also contact WorkCare's COVID-19 services if you are experiencing symptoms consistent with COVID-19 and are concerned it may be COVID-19.

### 2.1.1 COVID-19 Daily Screen Process

Arcadis staff can use the WorkCare WorkMatters app once a day (or multiple times a day, if appropriate) to complete their COVID-19 health screening self-assessment using the Daily Screen Survey.

Upon completion of the COVID-19 Daily Screen Process in the WorkMatters app, the user will receive a green or red completion message:

- Green – Proceed to the office or project site.
- Red – Do not proceed to the office or project site. Complete Survey 2 and follow end guidance. You and your supervisor will receive an email that you have not been cleared to work. You will need to conduct contact tracing with Corporate Health & Safety, if necessary. You must log into the URL or App to complete the Daily Symptom Tracker, each day you are Not Cleared To Return To Work.

Once you have been cleared to Return to Work by a WorkCare physician, you and your supervisor will receive an email that states you have been Cleared to Return to Work.

### 2.1.2 COVID-19 Health Screening Self-Assessment Questionnaire (Hardcopy)

The COVID-19 Health Screening Self-Assessment Questionnaire must be:

- Distributed to scheduled visitors, clients, and contractors before visiting Arcadis offices or sites.
- Post the self-assessment questionnaire and post Appendix A at entrances and/or field trailers.

Minimize visitors on site. All visitors (staff, subcontractors, clients, anticipated guests, unanticipated guests) to the site must be asked to review the applicable questionnaire from the following list.

[Canada COVID-19 Health Screening Self-Assessment Questionnaire for Staff \(English\)](#)

[Canada COVID-19 Health Screening Self-Assessment Questionnaire for Staff \(French\)](#)

[Canada COVID-19 Health Screening Self-Assessment Questionnaire for Visitors \(English\)](#)

[Canada COVID-19 Health Screening Self-Assessment Questionnaire for Visitors \(French\)](#)

[U.S. COVID-19 Health Screening Self-Assessment Questionnaire for Staff, Contractors and Scheduled Visitors \(English\)](#)

[U.S. COVID-19 Health Screening Self-Assessment Questionnaire for Staff, Contractors and Scheduled Visitors \(Spanish\)](#)

[U.S. COVID-19 Health Screening Self-Assessment Questionnaire for Unscheduled Visitors/Guests \(English\)](#)

[U.S. COVID-19 Health Screening Self-Assessment Questionnaire for Unscheduled Visitors/Guests \(Spanish\)](#)

If a client has a similar questionnaire that Arcadis staff are required to complete, the client questionnaire may be substituted for Arcadis questionnaire.

## 2.2 Client COVID-19 Health Screening Forms

Some clients are requiring our employees to complete their COVID-19 health screening forms.

- You are not required to share personal medical information with clients; therefore, Arcadis is not requiring you to complete any form requesting medical information. Your disclosure of personal medical information to clients is completely voluntary.
- Please understand, if you do not complete the form, you will not be allowed on the client's sites and facilities, per the client's directive.
- Also, if you complete the form, you have an ongoing duty to provide prompt notice of any changes to any of your responses. (Some clients may require periodically signing updated forms).
- If you are restricted from a client site as a result of your answers to the COVID-19 health screening form, or because you have chosen not to complete the form, Arcadis will attempt to find you alternative work that does not involve access to the client's site or facility; although, Arcadis cannot guarantee that other work will be available.

If your Project Manager is not already aware of the client COVID-19 health screening form, please alert them when you receive one from a client.

## 2.3 Practice Good Hygiene

The best way to prevent illness is to avoid exposure to the virus. CDC and Health Canada recommend common flu and cold season preventative measures, including:

- Wash hands often with soap and water for at least 20 seconds. If soap and water are not readily available, use a hand sanitizer with at least 60% alcohol.
  - If hand sanitizer or soap & water are not available on site, bring your own source of water and hand soap to accommodate hand washing.
- Avoid touching your eyes, nose, and mouth.
- Cover your nose and mouth with a tissue when sneezing or coughing.
- Monitor your health daily by completing a self-assessment.
- Stay 6 feet (2 metres) away from others.
- Avoid crowds and poorly ventilated spaces.
- Do not share Personal Protective Equipment (PPE).
- Maintain and thoroughly clean PPE in accordance with manufacturer's instructions.
- Avoid sharing phones, offices, tools, and equipment. If sharing is necessary, clean and disinfect prior to use.
- Clean high touch surfaces daily.
- Get a vaccine (flu to reduce the risk of flu illness and COVID-19).

### 2.3.1 Hand Hygiene

Hand hygiene for infection prevention is an important part of the U.S. and Canada response to COVID-19. Washing hands with soap and water has been and will continue to be our primary method for good hand hygiene.

Both CDC and HC recommend that you wash hands often with soap and water for at least 20 seconds especially after you have been in a public place, or after blowing your nose, coughing, or sneezing. Hand washing mechanically removes pathogens.

Alcohol based hand sanitizer is a flammable liquid and vapor. However, there is no evidence to suggest hand sanitizer poses a fire hazard when used according to package directions and warnings. To use hand sanitizer:

- Follow manufacturer instructions for use.
- Rub your hands together, covering all surfaces of both hands, including between your fingers and up around your fingertips and nails.
- Rub hands together for 30 seconds to allow your hands to completely absorb the product.
- Allow the hand sanitizer to completely dry.
- Do not touch food or anything until your hands are dry.
- Refer to the Safety Data Sheet (SDS) for hazards information.

If hand sanitizer is not available, Arcadis requires that project teams assess and address the need for hand washing (e.g., access to water and soap) while working on site. This can be achieved by having access to a functioning restroom, a portable hand washing station or as simple as having hand soap, bottled water and paper towels to clean hands as necessary. A handwashing sign that may be posted near handwashing stations is provided in Appendix D.

## 2.4 Clean Frequently Touched Surfaces

Arcadis recommends that project teams identify who is responsible for cleaning frequently touched surfaces in our workplaces (field trailers, client facilities, etc.). CDC and HC recommend that these surfaces are disinfected daily. This includes tables, doorknobs, light switches, countertops, handles, desks, phones, keyboards, toilets, faucets, and sinks. Before using a disinfectant product, understand the appropriate uses and limitations of the disinfectant, and refer to equipment/tool manufacturer care instructions to determine whether the disinfectant is compatible (e.g., using isopropyl alcohol to disinfect an [iPhone](#)).

CDC cleaning and disinfecting facilities: <https://www.cdc.gov/coronavirus/2019-ncov/prepare/disinfecting-building-facility.html>

Health Canada cleaning and disinfecting public spaces: <https://www.canada.ca/en/public-health/services/publications/diseases-conditions/cleaning-disinfecting-public-spaces.html>

Health Canada hard surface disinfectants: <https://www.canada.ca/en/health-canada/services/drugs-health-products/disinfectants/covid-19.html>

If surfaces are dirty, clean them using detergent or soap and water prior to disinfection. To disinfect, most common [EPA-registered](#) or [HC-approved](#) household disinfectants will work. Use disinfectants appropriate for the surface.

If the sourcing of disinfectant products is limited, CDC and HC have outlined an option to use a diluted household bleach solution (at least 1,000 ppm sodium hypochlorite) as a disinfectant.

Standard household bleach is typically 5.25% sodium hypochlorite (52,500 ppm), whereas ultra-strength household bleach is typically 6% sodium hypochlorite (60,000 ppm). In accordance with Hazard Communication requirements, always refer to and have a copy of the Safety Data Sheet (SDS) available and on site with you. To **make a daily bleach solution** for use as a disinfectant:

- Mix 5 tablespoons (1/3rd cup) of standard bleach per gallon of water or for a smaller spray bottle size dilution, mix 4 teaspoons bleach per quart of water.

OR

- 1 teaspoon (5 mL) per cup (250 mL) OR 4 teaspoons (20 mL) per litre (1000mL).

Note: Solution must be mixed daily, because the solution will lose effectiveness as a disinfectant after 24-hours.

Follow manufacturer's instructions (e.g., [Clorox](#)) for application and proper ventilation, ensuring a contact time of at least 1 minute (for specific products and contact time information, refer to the CDC and HC links above). Check to ensure the product is not past its expiration date. Never mix household bleach with ammonia or any other cleanser. According to the HC, CDC and U.S. EPA, unexpired household bleach will be effective against coronaviruses when properly diluted.

A second alternative is to use an alcohol solution. The solution must have at least 70% isopropanol.

If supplies cannot be sourced locally, complete the [PPE Request Form](#) and submit to [PPerequests@arcadis.com](mailto:PPerequests@arcadis.com).

## 2.5 Practice Social (Physical) Distancing

The CDC definition of **social distancing, also called "physical distancing,"** means keeping a safe space (approximately 6 feet, 2 metres or about two arm lengths) between yourself and other people who are not from your household in both indoor and outdoor spaces. Situations where social/physical distancing should be practiced include but are not limited to tailgate and safety briefing meetings, breaks in field trailers, entering stores and workstations. Plan work activities to maximize social (physical) distancing and minimize close contact with others. Social (physical) distancing is mandatory for unvaccinated individuals and highly recommended for vaccinated individuals. If there are instances where social distancing is not being practiced where it should, Stop Work and remove yourself from the situation. Contact the Project Manager or your Supervisor and document in the H&S App as an "Close Call" or "Unsafe Behavior."

Additional information when working in teams is required is discussed in the "work specific situations" section below.

**Note:** The CDC defines **close contact** as: a person who was within 6 feet of an infected person for a cumulative total of 15 minutes or more over a 24-hour period starting from 2 days before illness onset (or, for asymptomatic patients, 2 days prior to test specimen collection) until the time the patient is isolated.<sup>1</sup>

## 2.6 Face Coverings

[Health Canada](#) and [CDC](#) recommends wearing face coverings in public settings, like on public and mass transportation, at events and anywhere you will be around other people. In the U.S., face coverings are required

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<sup>1</sup> Individual exposures added together over a 24-hour period (e.g., three 5-minute exposures for a total of 15 minutes). Data are limited, making it difficult to precisely define "close contact;" however, 15 cumulative minutes of exposure at a distance of 6 feet or less can be used as an operational definition for contact investigation. Factors to consider when defining close contact include proximity (closer distance likely increases exposure risk), the duration of exposure (longer exposure time likely increases exposure risk), whether the infected individual has symptoms (the period around onset of symptoms is associated with the highest levels of viral shedding), if the infected person was likely to generate respiratory aerosols (e.g., was coughing, singing, shouting), and other environmental factors (crowding, adequacy of ventilation, whether exposure was indoors or outdoors). Because the general public has not received training on proper selection and use of respiratory PPE, such as an N95, the determination of close contact should generally be made irrespective of whether the contact was wearing respiratory PPE. At this time, differential determination of close contact for those using fabric face coverings is not recommended.

on planes, buses, trains, and other forms of public transportation traveling into, within, or out of the United States and in U.S. transportation hubs such as airports and stations. When visiting Arcadis offices and project sites, face coverings will be worn when moving about the space, in common areas and during meetings. If social/physical distancing can be maintained, face coverings may be removed when sitting at individual workstations or actively eating in cafés. Some jurisdictions require face coverings to be worn at all times indoors regardless of vaccination status.

In Canada, non-surgical face coverings are mandatory when flying and travelling through airports. The wearing of face coverings is either required or recommended in all other public settings across Canada (indoors and outdoors).

Studies show that face coverings reduce the spray of droplets when worn over the nose and mouth. Studies also show face coverings can reduce wearers' exposure to infectious droplets through filtration. How well the face covering protects the wearer depends on the fabrics used and how it is made (e.g., the type of fabric, the number of layers of fabric, how well the mask fits). Health Canada and CDC still recommends that you stay at least 6 feet away from other people (social distancing), frequent hand cleaning, avoid contact with people who are sick and other everyday preventive actions. Face coverings are not a substitute for social/physical distancing. Face coverings with exhalation valves or vents should NOT be worn to help prevent the person wearing the mask from spreading COVID-19 to others. Face shields and goggles are not a substitute for face coverings.

Face coverings offering various features appropriate for different work environments, including moisture wicking and FR, are now in stock at [Airgas](#) (U.S.). The [Face Covering Guide](#) outlines several options to facilitate selection of the face covering that is appropriate for your work.

Some jurisdictional entities and clients require the use of face coverings based on Health Canada and CDC guidance. CDC guidance on selection, use and care of face coverings is included in Appendix C.

## 2.7 Personal Protective Equipment

Be prudent with PPE use (PPE with a purpose). Continue to work with our vendors on your PPE ordering needs and consider alternatives (e.g., N95 dust masks may not be available, but half face elastomeric respirators with P100 cartridges are available in limited supplies). If PPE and supplies cannot be sourced locally, complete the [PPE Request Form](#) and submit to [PPEREquests@arcadis.com](mailto:PPEREquests@arcadis.com).

Select the appropriate glove for the task and include in the HASP, JSA and/or COVID-19 Preparedness, Response and Continuity Plan. Before using nitrile gloves as personal protective equipment (PPE), make sure to:

- Wash and dry your hands before and immediately after using gloves.
- Understand how to put nitrile gloves on and take them off ([refer to The Orange Line article](#)).
- Nitrile gloves offer protection against common consumer cleaning supplies, chlorinated solvents, and offer good dexterity and sensitivity.
- Change gloves between tasks or wash gloved hands with soap and water between tasks.
- Do not touch your face.
- Inspect gloves frequently for rips, tears, etc. and replace as necessary.
- Understand limitations of nitrile gloves.

## 2.8 Reporting a COVID-19 Exposure

Contact WorkCare (888-449-7787, press 9) to initiate the [COVID-19 Screening and Return to Work Process](#) flow chart if you have tested positive for COVID-19, have been asked to be tested for COVID-19 by a medical professional or have received a red “Stop” screen during the COVID-19 self-assessment instructing you to call WorkCare.

If you learn you have been in **close contact** with a worker, client or member of the public who is COVID-19 positive:

- Stop work.
- Notify your Supervisor and Project Manager.
- Self-quarantine in accordance with country-specific requirements ([Canada](#) and [U.S.](#)) and contact your personal physician for additional direction.
  - If work is being completed under the critical infrastructure guidance and you are not experiencing symptoms consistent with COVID-19 following close contact with a COVID-19 positive individual, refer to the “Yellow Caution Status Guidance” flow chart ([Canada](#) and [U.S.](#)) to determine whether you may continue to work.
  - If working in the U.S., the following people are exempt from self-quarantine due to close contact and are asymptomatic
    - Fully vaccinated<sup>2</sup>
    - Had COVID-19 in the past 3 months

If you’ve been tested or asked to be tested for COVID-19 by a medical professional, please contact WorkCare (888-449-7787, press 9) to initiate the [COVID-19 Screening and Return to Work Process](#) flow chart.

### 2.8.1 WorkCare COVID-19 Screening & Return to Work Process

Contact WorkCare (888-449-7787, press 9) for access to doctors and nurses who will discuss your symptoms, complete a risk stratification process, and advise on return-to-work process. If you complete the Daily Screen Process through the WorkMatters App and receive a red screen, you will be prompted to complete the risk stratification process electronically and depending on the outcome, you may receive a call from a WorkCare nurse or physician. If prompted to complete the risk stratification process, you can expect to:

- Be placed into a low, moderate or high-risk category
  - Low Risk – you may be cleared to return to work at an office or project site
  - Moderate and High Risk – you will not be cleared to return to work at an office or project site and instructed to remain at home
  - An email will be sent to you, Corporate H&S, HR, and your Supervisor indicating whether you can proceed to an office or project site (cleared) or whether you must work remotely (not cleared). If you are not cleared, this will initiate Arcadis’ internal contact tracing process.
- Moderate and High-Risk individuals will be required to complete the “Daily Symptom Tracker” during their self-isolation period.
- At the end of your self-isolation period, you will complete a Return-to-Work Survey in the WorkMatters Portal. The survey and daily symptom tracker will be reviewed by a WorkCare physician.

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<sup>2</sup> People are considered fully vaccinated two weeks after second dose in a two-dose series, such as Pfizer/Moderna vaccines, or two weeks after a single-dose vaccine, such as Johnson & Johnson's Janssen vaccine.

- You will receive a written notice from WorkCare indicating whether you are cleared or not cleared to return to work at an office or project site.

If you are not cleared, you will receive additional instruction, which may include continuing daily assessments and completing another return-to-work survey at a later date.

## 2.9 Interim Guidelines for Cardiopulmonary Resuscitation

The American Heart Association and Hearth & Stroke Foundation of Canada have issued interim Hands-only cardiopulmonary resuscitation (CPR) guidelines to reduce the risk when helping victims of cardiac arrest with suspected or confirmed COVID-19.

CPR and the use of automated external defibrillators (AED) significantly improve the chance of survival of patients experiencing cardiac arrest. During the COVID-19 pandemic, first aid trained folks and bystanders may feel uncomfortable performing lifesaving CPR and increasing their own risk of contracting the virus.

Hands-only CPR involves performing chest compressions only at a rate of 100 to 120 compressions per minute until an ambulance arrives.

When administering CPR, consider:

- Wearing a face covering
- Laying a cloth, towel, or clothing over the person's mouth and nose
- Perform hands-only CPR
- Use an AED, if available

## 2.10 Other Considerations

When planning field work, consider the following:

- Plan your journey to and from the site to manage social distancing and hand hygiene when you need to stop for gas or at a store for supplies
- Reevaluate the current field work situation as it relates to lone worker protocols
- A [COVID-19 Preparation, Response and Continuity Plan template](#) is required for all projects.

# 3 Travel Guidance

## 3.1 Traveling Between States, Provinces or Territories

Some states, provinces and territories have issued executive orders requiring self-quarantine, travel health screening questionnaires and/or COVID-19 testing for people traveling into or from certain locations. While some jurisdictions exempt essential workers, self-quarantine requirements may apply during off-work hours, confining the employee to their lodging location. Check local requirements before you travel to determine whether you can travel or if there is a need to self-quarantine at the destination. Prior to travel, it is important to have a destination plan in place and understand the steps you will take to remain safe and healthy throughout your trip. Whenever possible, use local project teams within a 4-hour drive radius.

## 3.2 Field Vehicles and Transportation

When using shared vehicles (fleet, rental, ride sharing services) follow the cleaning guidance above for frequently touched surfaces. Check with your rental agency before vehicle pick-up to understand their cleaning procedures, and supplement with your own cleaning, as necessary. Note: if using wipes, make sure the wipe is compatible with the surface being cleaned.

**Canada:** Individuals will be assigned their own vehicle. Ride sharing and carpooling is not permitted.

**U.S.:** There is no limit to the number of vaccinated employees that may share a vehicle. Unvaccinated employees are limited to two people per vehicle and must wear face coverings.

When traveling by air for business-critical travel, check with the airline to obtain their latest COVID-19 requirements. A summary of current airline COVID-19 policies can be found [here](#).

## 3.3 Lodging Considerations

Most hotel chains have implemented additional cleaning, disinfection and face covering in common area procedures. Check with your hotel before check-in to understand their procedures. Consider bringing a surface cleaner or disinfecting wipes to clean frequently touched surfaces such as doorknobs, tv remote, etc.

In instances where AirBnB has been authorized and approved in writing by the Project Manager and Supervisor, consider the following:

- The entire team should not stay at the same residential facility.
- Understand the AirBnB may need additional cleaning and disinfection of commonly touched surfaces upon arrival.

Lodging together is not permitted for unvaccinated employees. An exception is if the lodging configuration allows each individual to have a dedicated living space (e.g., own bedroom). Use of the common space will alternate among shared individuals allowing only one person in the space at a time. Wear face coverings in common spaces.

Always maintain good personal hygiene and avoid crowded places such as restaurants or bars. Consider using take out or outdoor seating. If self-quarantine is required by the jurisdiction during off-work hours, plan ahead and evaluate local food and/or grocery delivery options.

**Canada:** Dining together during work hours is not allowed. This includes, but is not limited to, dining with team members, clients, contractors, vendors, etc. Dining together during non-work hours is discouraged.

**U.S.:** Dining together outdoors without face coverings is permitted if everyone is fully vaccinated. Dining is not permitted if anyone is not vaccinated.

## 3.4 Rental Equipment and Sample Cooler Handling

Clean the exterior of rental equipment and sample coolers upon arrival at the job site using a cleaning product that will not impact data quality. Wear gloves and safety glasses when handling sample coolers to prevent contact

with acid preservation of the bottles in coolers. Where possible, order separate sets of equipment and “assign” equipment to individuals for use through the duration of the event.

## 4 Work-Specific Situations

### 4.1 Working with Little or No Contact with Others

Follow procedures listed in Section 2.0 and Section 3.0.

### 4.2 Working in Project Teams

When working in project teams (paired Arcadians, embedded staff, contractors, clients, etc.):

- If feasible, prior to visiting the site, have a H&S check in to confirm all attendees are complying with CDC or Health Canada guidelines, including:
  - Confirm understanding that workers or clients should not go to the job site if they have personally tested positive for COVID-19, have been in close contact to anyone else who has tested positive for COVID-19 or are exhibiting symptoms. If a worker discloses close contact with someone COVID-19 positive and the worker is asymptomatic, instruct the employee to complete the WorkCare Daily Screen and follow the instructions provided following the survey.
- Out of respect for all, ask everyone to self-disclose if they are not feeling well (exhibiting flu-like symptoms), and request that they should go home.
- Observe person(s) for symptoms, and use Stop Work, as necessary, and contact Project Manager.
- Set visual or physical barriers to keep the public away (caution tape and cones).
- Consider if “split shifts” can be used to limit contact, or if work can be scheduled during hours of low to no facility operations.
- Arcadis staff plan work activities, continuously use TRACK and re-plan work activities to maximize social distancing and minimize “close contact”
  - Practice good hygiene and clean commonly touched surfaces
    - Clean clipboard and pen prior to use
    - Bring your own pen
    - Disinfect shared equipment (water level meters, pumps, etc.)
    - Coordinate with sanitation vendor for portable hand wash station (soap & water or hand sanitizer)
  - Use work practices and tools to minimize close contact when feasible, such as:
    - Single person operating a winch instead of a two-person manual lift
    - Tools to maximize distance
  - Use PPE in accordance with the Job Safety Analysis (face shield, safety glasses, gloves, etc.)
  - Plan for breaks to allow for hydration, nutrition and rest/prevention of heat related illness
    - Select locations where social distancing can be maintained
    - Allow time for safe doffing/donning of personal safety items
    - Communicate individual needs for breaks before beginning work.
- If social distancing or other controls are not feasible discuss this with your supervisor and PM, discuss “Is the work necessary?” or “Can the work be rescheduled for a later date?”
  - Refer to Section 2.5 for the definition of close contact. CDC has indicated short periods of time in close contact may not increase risk of exposure.
- Wear face coverings in accordance with Section 2.6 and jurisdictional requirements.

- Subcontractors need to develop and implement their own procedures to protect their workers.

## 4.3 Embedded Employee Working at a Client Facility

Embedded employee at a client facility should:

- Inquire whether working remotely is an option.
- If not, and Arcadis must work at the client facility:
  - Ask if arrangements can be made to practice social distancing (e.g., split shift, separate workstation, etc.)
  - Practice good hygiene, and if you do not feel the situation is safe, you can execute your stop work authority by having discussions with your Supervisor and Project Manager.
- Wear face coverings when social/physical distancing cannot be maintained or in accordance with client or jurisdictional requirements.
- If client facility cleanliness is a concern discuss concerns with Project Manager. The Project Manager will discuss with the client. If the client will not increase cleaning, Arcadis employees will be provided with the supplies to clean and disinfect frequently touched surfaces as well as supplies to clean hands.
- Discuss and document Arcadis, client and jurisdictional protocol for reporting a COVID-19 case using the template in the Arcadis COVID-19 Preparedness, Response and Continuity Plan or similar form.

## 4.4 Working in Contact with the Public

When working in contact with the public (mall areas, parks, outdoor residential settings):

- Set visual or physical barriers (caution tape and cones) to keep the public away and maintain social distancing.
- Wear face coverings when working indoors or in enclosed spaces.
- Consider posting signs reminding the public of social distancing guidance (example in Appendix B).

## 4.5 Working at Indoor Residential Settings

When working at indoor residential settings, consider the following guidelines:

- Call ahead to ask if the resident(s) is experiencing flu-like symptoms or if anyone in the house is in mandatory or precautionary self-quarantine. Reschedule the work if the resident is experiencing symptoms or under quarantine. Also share Arcadis work procedures and explain that Arcadis will be practicing social distancing during the work.
- Upon arrival, assess the residents for signs of flu-like symptoms. If observed, use Stop Work, exercise social distancing and contact the Project Manager.
- Where feasible, wear gloves, wipe down surfaces prior to touching them and thoroughly wash hands after completing the work (do not touch face).
- Ask if arrangements can be made to practice social distancing (meaning stay 6 feet [2 metres] away).
- Schedule your work when resident is not home, if your work area allows for access (e.g., a basement crawl space the doesn't require entry to the main living area of the home).
- Wear face coverings when working at indoor residential settings.

## 4.6 Projects Involving Drinking Water Systems, Recreational Water and/or Wastewater

According to the CDC, at this time, the risk of transmission of the virus that causes COVID-19 through sewerage systems is thought to be low. Although transmission of the virus that causes COVID-19 through sewage may be possible, there is no evidence to date that this has occurred.

Wastewater and sewage workers should use standard practices, practice basic hygiene precautions, and wear personal protective equipment ([PPE](#)) as prescribed for current work tasks.

When working on projects involving drinking water systems, recreational water and/or wastewater:

- The COVID-19 virus has not been detected in drinking water.
- Conventional [water treatment methods](#) that use filtration and disinfection, such as those in most municipal drinking water systems, should remove or inactivate the virus that causes COVID-19.
- [Standard practices](#) associated with wastewater treatment plant operations should be sufficient to protect wastewater workers from the virus that causes COVID-19.
- Review the project Health & Safety Plan and task-specific Job Safety Analysis for required personal protective equipment and other controls.
- Wear face coverings when working indoors.

## 4.7 Construction Management/Construction

### 4.7.1 Field Trailers

Field trailers may present unique challenges for social distancing. Consider the following:

- Restrict access by posting site signage (Appendix D) requesting all visitors, including site workers. All who enter the field trailer should knock and don a face covering, if not vaccinated, before entering.
  - The project team will determine the maximum occupancy based on the ability to maintain social distancing.
- Local jurisdictions may require face coverings in all indoor spaces regardless of vaccination status. In areas without jurisdictional mandates, wear face coverings in common spaces and when social/physical distancing cannot be maintained.
- Prior to entering a trailer, assess the current occupancy.
- Maintain a log of visitors entering the trailer use the “Arcadis Contact Tracing Log” in Appendix E. Assign a person responsible for signing visitors in and out.
- Clean surfaces regularly. In the absence of professional cleaning services, occupants will develop a schedule for site personnel to complete cleaning of commonly touched surfaces.
  - When using common surfaces, each individual is responsible for wiping down the shared surface before and after use.
- Assess and address the need for the availability of hand washing (e.g., access to water and soap) while working on site. This can be achieved by:
  - Having access to a functioning restroom
  - Portable hand washing station
  - Hand soap and bottled water to clean hands as necessary.

- Plan seating arrangement so that personnel inside the trailer maintain social distancing, at least 6-feet (2 m) of separation.
- Meetings in the trailer will not exceed the maximum occupancy as determined based on the ability to maintain social distancing. Unvaccinated individuals must wear face coverings and maintain 6 feet (2 m) of physical distance.
- Consider the use of physical barriers to separate the field trailer from the public and/or site activities.

## 4.7.2 Other Construction Guidance

Additional guidance related to construction and construction management activities include:

- Consider use of technology (e.g., digital sign in using QR codes, virtual tailgate, or construction meetings, video camera systems to minimize the number of people on site).
- For tailgate or other meetings that are not virtual:
  - Unvaccinated individuals must wear face coverings at all times, when meeting indoors.
  - Maintain 6 feet (2 m) of physical distance at all times between attendees (both seated and standing).
  - Have the person leading the meeting sign everyone in.
  - If signature is required, everyone should have their own pen.
  - Hold meetings in outdoor spaces whenever feasible.
- For work outdoors:
  - Masks are optional when working outside more than 6 feet (2 m) apart (socially distanced).
  - Determine comfort level and vaccination status of field team when deciding whether to wear face covering for work tasks that need to be completed within 6 feet (2 m) and physical distancing cannot be maintained. Unvaccinated staff must wear face coverings when physical distancing cannot be maintained.
- Simultaneous operations coordination to separate contractors:
  - Coordinate movements around the site
  - Set up work zones with visual barriers for specific activities with transition areas in common spaces
  - Post social distancing signage (refer to Section 4.4)
  - Maintain social distancing with at least 6-feet (2 m) of separation whenever feasible
  - Consider the following administrative controls:
    - Activity rotation - schedule work when the fewest number of people are present
    - “Split shifts” can be used to limit contact, or if work can be scheduled during hours of low to no facility operations.
- Work in teams/pairs:
  - Plan work activities, continuously use TRACK and re-plan work activities to maximize social distancing and minimize “close contact”
  - Use equipment or tools to increase distance between personnel to greater than 6-feet (2m) or eliminate the need for a second person.
- Coordinate with contractors to make sure they are following the same social distancing, hand hygiene and cleaning guidance to reduce the risk to other project personnel.

## **5 Post Shift Considerations**

At the end of the work shift, clean the vehicle, if used throughout the day. Wash hands prior to leaving the site and after the commute.

Upon arriving home or at lodging, shower and launder clothing.

# Appendix A

## Site Signage – Self-Assessment Required

Arcadis Employees

# Have you done your “Daily Screen” today?

Before each day, you must complete  
the online **“Daily Screen”**.



QR Code for daily  
self-assessment.

SAFE Return

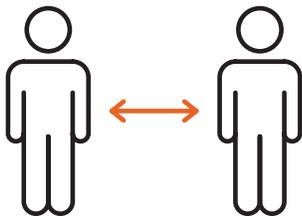
# Appendix B

## Site Signage – Social Distancing

## Project Sites

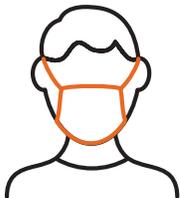
# Keep Yourself and Others Working Safely

100% compliance is required by you and our subcontractors.



**Maintain physical (social) distance** of six feet, about two arms' length.

*Need to talk? Shut equipment down if noise is interfering, use hand signals, radios, or move to another area of the site where distance can be maintained.*



**Face coverings** must be worn when six feet of physical distance cannot be maintained.

**Stop Work** if procedures are not followed. It's mandatory!

SAFE Return

# Appendix C

## Guidance for the Use of Face Coverings

## Guidance for the Use of Face Coverings

[Health Canada](#) and [CDC](#) recommends wearing face coverings in public settings, like on public and mass transportation, at events and anywhere you will be around other people. In the U.S., face coverings are required on planes, buses, trains, and other forms of public transportation traveling into, within, or out of the United States and in U.S. transportation hubs such as airports and stations. Travelers are not required to wear a mask in outdoor areas of a conveyance (like on a ferry or the top deck of a bus). Health Canada and CDC still recommend that you stay at least 6 feet, 2 meters or about two arm lengths away from other people (social/physical distancing), frequent hand cleaning, avoid contact with people who are sick and other everyday preventive actions.

### Considerations for face coverings:

- Some jurisdictional entities and clients require the use of face coverings.
- When visiting Arcadis offices and project sites, face coverings are to be worn inside while moving about the space, in common areas and during meetings.
  - Unless otherwise specified by the local jurisdiction, face coverings may be removed when sitting at individual workspaces where social/physical distancing is maintained.
- If not fully vaccinated, wear a mask in indoor public places.
- If fully vaccinated, you should wear a mask in indoor public places of areas with substantial or high transmission.
- If fully vaccinated and have a condition or are taking medications that weaken the immune system, additional protections may be required, like wearing a mask. Individuals should discuss with their healthcare provider.
- The face coverings are not surgical masks or N95 respirators.
- These do not replace other evidence-based measures such as social/physical distancing, frequent hand washing practices, avoid crowds and avoid poorly ventilated spaces. Face coverings are not a substitute for social/physical distancing.
- Face coverings can become contaminated on the outside or when touched by unwashed hands.
- Avoid touching the face covering. Handle only by the ear loops, cords or head strap.
- Have an extra face covering to replace one that becomes wet.
- Face coverings should not be shared with others.
- Face coverings with exhalation valves or vents should NOT be worn to help prevent the person wearing the mask from spreading COVID-19 to others (source control).
- Face coverings should sit snugly against the face and not have any gaps. To improve fit consider:
  - Selecting a style with a nose wire
  - Using a mask fitter or brace
  - Knot the ear loops of a 3-ply face mask where they join the edge of the mask, then fold and tuck the unneeded material under the edges.
  - Place a second mask on top of the first
    - Do not “double mask” a KN95 and do not use two surgical-style masks on top of one another.
- Additional information on improving face covering fit and filtration is available [here](#).

## What is a Face Covering?

A face covering is a material that covers the nose and mouth. It can be secured to the head with ties or straps or simply wrapped around the lower face. A face covering may be disposable; factory-made; or homemade or hand-sewn. The most effective fabrics for face coverings are tightly woven fabrics, such as cotton and cotton blends; breathable; and two or three layers. When selecting a cloth face covering, look for:

- Multiple layers of tightly woven, breathable fabric.
- Nose wire.
- Mask should block light when held up to a bright light source.

Scarves, ski masks or balaclava are usually made of loose knit fabrics and are not suitable as a face covering. Wear these items over your face coverings.

Face coverings should have two or more layers of breathable fabric, completely cover your nose & mouth, and fit snugly against the sides of your face and not have gaps. When wearing a gaiter ensure it has two layers or fold it to make two layers. If you wear glasses, find a mask that fits closely over your nose or one that has a nose wire to limit fogging.

## Face Covering Use & Care

Wash hands prior to touching your face covering (i.e. putting it on, adjusting, removing). The face covering should cover the nose, mouth and secure under the chin. It should fit snugly against the sides of the face. When removing the mask, avoid touching the front of the mask and your face with your hands. Upon removing a face covering, you also need to wash your hands.

Disposable face coverings will be discarded after each use.

Reusable face coverings must be washed daily after use. Place face coverings in a sealed bag or bin until it can be laundered. Wash face coverings as soon as possible to prevent them from becoming moldy.

Cleaning face coverings using a washing machine:

- Face coverings can be washed with regular laundry
- Use regular laundry detergent and the appropriate setting according to the fabric label.

Washing face coverings by hand:

- Wash face coverings with tap water and laundry detergent or soap.
- Rinse thoroughly with clean water to remove detergent or soap.

Dry face coverings by:

- Machine until completely dry using the warm or hot.
- Air dry by hanging or lying flat and allow to completely dry. If possible, hang it in direct sunlight.

Discard face coverings that:

- No longer cover the nose and mouth.

- Have stretched out or damaged ties or straps.
- Will not stay on the face or requires continual adjustment.
- Have holes or tears in the fabric.

The following graphics are from the [U.S. CDC](#):

### DO choose masks that



Have two or more layers of washable, breathable fabric



Completely cover your nose and mouth



Fit snugly against the sides of your face and don't have gaps



Have a nose wire to prevent air from leaking out of the top of the mask

### DO NOT choose masks that



Are made of fabric that makes it hard to breathe, for example, vinyl



Have exhalation valves or vents which allow virus particles to escape



Are prioritized for healthcare workers, including N95 respirators

## Special Considerations

### Gaiters & face shields



Wear a gaiter with two layers, or fold it to make two layers



Not recommended: Evaluation of face shields is ongoing, but effectiveness is unknown at this time.

**Note:** Some jurisdictions may not consider gaiters or bandanas acceptable face coverings.

## Cold weather gear



Wear your scarf, ski mask or balaclava over your mask



Scarves, ski masks and balaclavas are not substitutes for masks

## How to Wear

Wear a mask **correctly** and **consistently** for the best protection.

- Be sure to [wash your hands or use hand sanitizer](#) before putting on a mask.
- Do **NOT** touch the mask when wearing it. If you have to often touch/adjust your mask, it doesn't fit you properly, and you may need to find a different mask or make adjustments.

For more information, visit our [How to Wear Masks](#) web page.

## Do wear a mask that



- Covers your nose and mouth and secure it under your chin.
- Fits snugly against the sides of your face.

### Choose a mask with a nose wire

- A nose wire is a metal strip along the top of the mask
- Nose wires prevent air from leaking out of the top of the mask.
- Bend the nose wire over your nose to fit close to your face.



### Use a mask fitter or brace

- Use a mask fitter or brace over a disposable mask or a cloth mask to prevent air from leaking around the edges of the mask.



### Check that it fits snugly over your nose, mouth, and chin

- Check for gaps by cupping your hands around the outside edges of the mask.
- Make sure no air is flowing from the area near your eyes or from the sides of the mask.
- If the mask has a good fit, you will feel warm air come through the front of the mask and may be able to see the mask material move in and out with each breath.



### Add layers of material

#### 2 ways to layer

- Use a cloth mask that has multiple layers of fabric.
- Wear a disposable mask underneath a cloth mask.
  - The cloth mask should push the edges of the disposable mask against your face.



### Make sure you can see and breathe easily

#### Knot and tuck ear loops of a 3-ply mask

- Knot the ear loops of a 3-ply face mask where they join the edge of the mask
- Fold and tuck the unneeded material under the edges
- For instructions, see the following <https://youtu.be/GzTAZDsNBe0>  .



### Other things to consider

Certain types of facial hair, like beards, can make mask fitting difficult. People with beards can do one or more of the following:

- Shave their beards.
- Trim their beards close to the face.
- Use a mask fitter or brace.
- Wear one disposable mask underneath a cloth mask that has multiple layers of fabric. The second mask should push the edges of the inner mask snugly against the face and beard.

Masks designed for people with beards are being evaluated, and information will be provided when it becomes available.



## How NOT to wear a mask



Around your neck



On Your forehead



Under your nose



Only on your nose



On your chin



Dangling from one ear



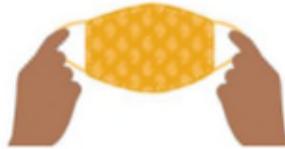
On your arm

## How to Take off a Mask



1

Carefully, untie the strings behind your head or stretch the ear loops



2

Handle only by the earloops or ties



3

Fold the outside corners together



4

Be careful not to touch your eyes, nose, and mouth when removing and wash hands immediately after removing

# Appendix D

## Additional Signage

## Best Practices

# Wash your hands.

Wash in hot water for 40 seconds: 20 seconds with soap, 20 seconds to rinse.

Wipe surfaces with disinfectant wipes after you are finished.

Maintain proper social distancing.

Stand back 6 feet from others who may be washing their hands, or waiting in line to wash.

SAFE Return

Best Practices

**You touch it,  
you clean it.**

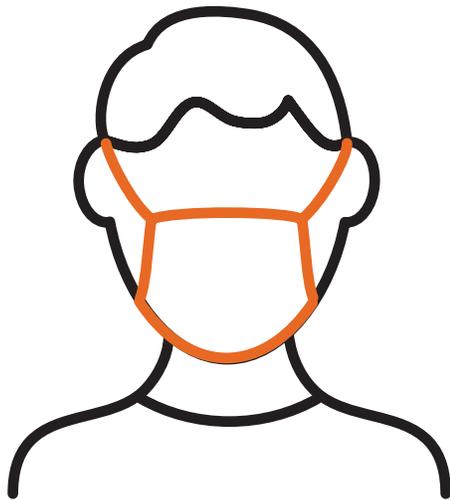


Remember to clean any surface you touch with the provided disinfectant spray.

SAFE Return

Arcadis Staff, Visitors & Deliveries

**Wear face cover.**

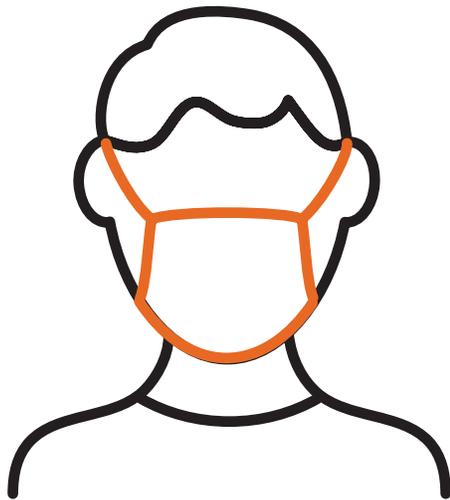


Face covering must be worn at  
**all times.**

SAFE Return

Arcadis Staff, Visitors & Deliveries

**Wear face cover.**



Please wear face covering when moving about the space. Face coverings can be removed while seated at workstation.

SAFE Return

Visitors & Deliveries

**All staff, visitors or  
deliveries must use  
the main entrance.**

Located: (Third floor, main reception desk)

Firstname Lastname (### ### ####)

SAFE Return

Restricted

# Authorized Staff Only

In order to maintain proper social distancing,  
this area is restricted to authorized staff.

## **Need something?**

Contact: Firstname Lastname (#### #### #####)

SAFE Return

Restricted

# Maximum Occupancy

# ##

In order to maintain proper social distancing, the number of people allowed in this area is limited.

SAFE Return

Closure

# Room Closed

In order to maintain proper social distancing guidelines, this room is temporarily closed.

SAFE Return

**Off limits**

**Do not use**

**Restricted**

# Appendix E

## Arcadis Contact Tracing Log



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