

APPENDIX A

Response to Comments Memo



Memo

To: Tamara Cardona, Ecology Project: 16497

From: Kathleen Goodman cc: Mary Logue (Kelly-Moore)

Project File

Tel: (206) 342-1760 Fax: (206) 342-1761 Date: March 29, 2017

Subject: Opinion Pursuant to WAC 173-340-515(5) on Remedial Investigation

Response to Comments
Kelly-Moore Paint Company

Seattle, Washington

Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler), prepared the following letter on behalf of Kelly-Moore Paint Company (Kelly-Moore). In January 2016, Amec Foster Wheeler submitted a revised Remedial Investigation (RI) Report to the Washington State Department of Ecology (Ecology) on behalf of Kelly-Moore and an official request for opinion regarding the RI on February 3, 2016. Ecology issued an opinion and comments on the RI in an email to Kelly-Moore and Amec Foster Wheeler in May 2016.

This letter presents Kelly-Moore's responses to Ecology's comments. Ecology's comments are reproduced below followed by Kelly-Moore's response (in blue).

1. The extent of the contamination is not defined:

While several remedial investigations (RI) have been conducted, none has fully delineated the vertical and horizontal extent of soil and ground water contamination.

 Vertical delineation in soil is not complete in multiple areas, including the excavated areas KM-19, KM-30, KM-39, and KM-41 and other areas where cPAH concentrations were above MTCA including KM-25, KM-10 and B7 trench.

Response -

- o In general, excavations did not extend beyond the water table during the interim actions conducted at the site. This is because soils would start sloughing into the excavations, which could have potentially destabilized any surrounding structures. Due to structural constraints and geotechnical limitations, chasing the contamination was not feasible at the time, especially for analytes such as cPAHs that have a longer turnaround time for analysis.
- Confirmation soil samples showing that the excavation reached limits below MTCA were not collected in several areas including KM-10, B7, and Tank 2 area.

Response -

 Additional samples were not collected at these locations due to the nature of the interim actions, as follows: KM-10 was installed to attempt to identify the groundwater plume and deeper samples were not collected from this location.



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Additional samples were not collected from the B7 or Tank 2 area because of the construction that was concurrent with the timing of the piping removal from the B7 trench area.

 Please indicate in the text which sample shows that all PCBs above MTCA were excavated from the KM-41 area.

Response -

- Sample KM-41 was collected from Building 8 in the floor of the scale pit that was excavated during the Building 8 PCB Closure. Prior to excavation, PCBs were detected at KM-41 from a sample collected from 2.75 to 3.25 feet bgs at 58 mg/kg and from a sample collected from 4.25 to 4.75 feet bgs at 10 mg/kg. The scale pit was excavated to a depth of 6 feet below the building foundation and sample results collected from the bottom of the excavation were all <1 mg/kg (see Table 2 in Appendix D, samples collected from the scale pit are: KM15-B08-148B, KM-B08-149B, KM-08-150B, KM-08-151B, and composite samples KM-15-Comp-27 and KM-15-Comp-28).</p>
- The rationale for selecting which analyses to conduct in each sample or area is not provided. Why were areas KM-19, KM-30, KM-39, KM-40 and KM-41 not analyzed for TPH-D and TPH-O? Why were VOCs and PAHs not analyzed for in samples from the B7 piping area VOCs in KM-39?

Response -

- As described in the nature and extent section of the report (Section 5.0), most soil samples were analyzed for metals; gasoline-range petroleum hydrocarbons (TPH-G), lube oil-range petroleum hydrocarbons (TPH-O), and diesel-range petroleum hydrocarbons (TPH-D); VOCs; and semivolatile organic compounds (SVOCs). Selected soil samples were collected for the analysis of a more limited suite of constituents, normally during focused investigations for the presence of a particular COPC or set of COPCs in a given area of the site.
- During the 2016 sampling events, all groundwater samples have been analyzed for metals, TPH-G, TPH-D, VOCs, SVOCs, and PCBs. About half of the grab groundwater samples were analyzed for metals, TPH-G, TPH-D, VOCs, SVOCs, and PCBs. In areas where COPCs had previously been evaluated, more focused investigations were conducted and samples were analyzed for a more limited suite of metals, TPH-G, VOCs, and SVOCs. In these focused investigations, the previous investigations had not identified TPH-D and/or PCBs.
- Specific areas are addressed below:
 - Soil and groundwater samples from KM-19 and KM-30 were not analyzed for TPH-D or TPH-O because surrounding samples (KM-13 through KM-16) did not have detections of TPH-D or TPH-O. KM-19 and KM-30 were located to determine the extent of other CPOCs. Soil confirmation samples collected from the interim action excavations in



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2015 were analyzed to confirm removal of high TPH-G concentrations; therefore, additional analyses were not conducted.

- Soil and groundwater samples from KM-39, KM-40, and KM-41 were not analyzed for TPH-D and TPH-O because these samples were collected to determine the extent of the TPH-G plume in this central portion of the site and to determine if soils below Building 8 were impacted by PCBs.
- Soil samples collected from KM-39 and B7 piping area were analyzed for BTEX (not the full suite of VOCs) because BTEX compounds were most frequently detected in that vicinity of the site. Soil samples from the B7 piping area were also analyzed for the carcinogenic PAHs.
- The suspected sources in each of the areas of contamination are not explained.

Response – Suspected sources were described in a separate section of the RI as well as in the individual documents submitted by Amec Foster Wheeler over time. Section 5.2 states that the sources of contamination are presumed to be a combination of the following:

- Leaks or spills related to former USTs and related piping located in the central area of the site, but also including piping that ran underground into the buildings north of the former UST area.
- Leaks or spills during historical operations before the storage areas were paved or via sumps or catch basins. It is unknown when the site was fully paved, and the full historical use of all the areas is unknown.
- Releases that could have migrated from the neighboring rail line property, situated slightly uphill and hydraulically upgradient of the site, or other upgradient sources.
- o Imported fill material is apparent in multiple locations across the site. Various fill materials have been noted during site activities. Historical records also indicate that the site may have been historically filled with material from unknown sources. Wood, coal, asphalt pieces, and other unidentified fill materials have been observed at the site in the subsurface borings and excavations. The dates of fill placement at the site are unknown.
- Air depositional contributions from the heavy industrial location of the site (between an interstate freeway, a major city arterial, and an active rail yard).
- Activities by former owners and operators at the site, prior to paint manufacturing.
- Many of the detection limits were above the screening levels selected, therefore some of the data is not adequate to "screen-out" some of the contaminants including benzene, MTBE, and chlorinated solvents. Results with detection limits above the



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applicable screening level should be marked in the tables as exceeding the screening level.

Response –

- Comment noted. The detection limits that exceed the screening level are highlighted in Tables 5-1 through 5-7. In many instances; however, high concentrations of non-target analytes resulted in the samples requiring dilutions to be performed at the laboratory in order to quantitate the analytes and to avoid instrument issues that would result from samples with high concentrations of gasoline range TPH.
- Ground water results shown in Tables 5-7 through 5-12 should be clearly identified as grab samples or monitoring well samples.

Response -

- Comment noted grab groundwater sample data (detections only) is now presented in Table 5-6 and detections in monitoring wells is presented in Table 5-7. The full data set for grab groundwater is presented in Appendix Table F-1 and the full data set for monitoring well groundwater data is presented in Appendix Table F-2.
- An interpretation of the ground water geochemical parameters (Table 5-8) should be included.

Response –

- Comment noted an interpretation is included in Section 6.2.2. This table is now Table 6-1.
- Table 5-12 shows PCB detection levels higher than the screening levels therefore concentrations should be marked as potentially exceeding the screening levels.

Response -

These grab groundwater sample results are now shown on Appendix Table F-1. The screening level for PCBs is 0.05 μg/L and the samples were reported as not detected with screening levels ranging from 0.1 to 0.051 μg/L. It should be noted that the soil samples associated with these grab groundwater samples did not have PCB concentrations at detectable levels with the exception of samples from KM-10 and KM-14; both were shallow soil samples and the concentrations detected were 0.14 and 0.057 mg/kg, respectively. The soil from KM-10 was excavated during the trenching that took place to install the SVE piping. In addition, PCB concentrations from groundwater samples collected from monitoring wells during the July 2016 sampling event were below detection at reporting limits ranging from 0.047 to 0.048 μg/L. The non-detected



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values have been highlighted; however, PCBs are not a contaminant of concern in groundwater for this site.

2. Historical soil samples:

The RI report submitted refers to previous tank removals and soil sampling conducted prior to Kelly Moore's ownership of the property. However, specific locations of those tanks, sampling results and extent of the contamination removed and remaining are not shown in the figures and/or tables. Please include this information as part of the RI.

Response – The results of the historical sampling conducted in 1997 and 1998 during UST excavations are included in Appendix D. A figure showing the locations of the samples and the former USTs is also included. A brief discussion is included in Section 4 of the report.

3. Cleanup levels:

No cleanup levels are developed or established in the RI report. The screening levels used in the report are based on industrial use of the Property. While the current land use is industrial and the zoning is listed as industrial (IG2), other uses such as daycare centers, parks, etc. are allowed under this zoning. Ecology has therefore determined the Property does not meet the definition of an industrial property. WAC 173-340-745 lists the characteristics of an industrial property, if the Property meets the characteristics listed and "the cleanup action provides for appropriate institutional controls implemented in accordance with WAC 173-340-440 to limit potential exposure to residential hazardous substances", the use of cleanup levels for industrial scenarios may be proposed as part of the final cleanup. However, that determination is premature at this time, therefore, Method B cleanup levels protective of the leaching pathway are considered applicable.

Response – Comment noted. The soil cleanup level tables have been revised to reflect current MTCA B values protective of the leaching pathway. Tables 7-1 and 7-2 present the soil and groundwater cleanup levels. After we receive Ecology approval and develop final cleanup levels for the site, we will evaluate using industrial cleanup levels for soils deeper than 6 feet below ground surface (bgs) where appropriate.

4. Figures:

- In order for the figures to effectively demonstrate Site conditions less information should be presented, the figure symbols and font should be larger and the areas of contamination should be separated to allow sampling locations to be seen.
- o Ground water data should be shown with each sampling event in a separate figure.
- Only current data from monitoring wells, not from grab samples, should be used for groundwater plume delineation.
- o Include an interpretation of Figure 5-12 in the text.

Response – The figures have been revised to reflect Ecology's comments and Figure 5-12 is no longer included in the revised RI/FS. The groundwater trend in TPH-G concentrations will be better evaluated after at least four sampling events from the full monitoring well network have been conducted.



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5. Tables:

- There are too many tables and most of the data cells show concentrations below detection limits or compounds not analyzed for. Information presented in the tables should be summarized to include detections and specific areas of remaining contamination.
- A summary and interpretation of the information included in the tables should be included in the text. Samples that exceed the cleanup levels should be highlighted.
 Analyses in which the detection limit was at or above the screening level should also be indicated in the tables.
- All sampling data available from permanent monitoring wells should be included as a separate table.

Response – The tables have been revised to reflect Ecology's comments.

- 6. Simplified Terrestrial Ecological Evaluation (TEE):
 - The habitat rating completed as part of the simplified TEE must be completed by an experienced field biologist. Please indicate the qualifications of the person that evaluated habitat quality, otherwise use the conservative score of 1 for questions 3 and 4 in Table 749-1.

Response – Comment noted. The resume of the biologist that completed the habitat rating has been included in Appendix C.

- 7. Overall, the report lacks:
 - Sampling rationale
 - Excavation rationale
 - Confirmation at all excavated locations showing that contamination above MTCA was removed
 - Ground water plume delineation
 - Interpretation of results
 - Summary of current conditions showing remaining areas of soil and ground water contamination
 - Concise tables
 - Concise figures
 - Summary of data gaps in soil and ground water
 - Historical data

Response –Rationale for sampling and excavations are described above and in earlier documents to the extent known by the current project team. The schedule for the redevelopment was fast-tracked and the timing for a complete removal of COPCs under the



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footprint of the new building could not be accommodated by the new owner's redevelopment schedule. The new owner acknowledged that in exchange for the expedited schedule, institutional controls, including an environmental covenant would be likely for some of the COPCs that would not be treatable with SVE/AS. All other areas of deficiency have been addressed.

8. Under Washington State law (Chapters 18.43 and 18.220 RCW), hydrogeologic and engineering work must be conducted by, or under the supervision of a licensed geologist, hydrogeologist, or professional engineer qualified to conduct the work. Any Site investigation/cleanup document containing geologic or engineering work must be submitted under the seal of such an appropriately licensed professional. The submitted report is not signed and stamped by a licensed professional.

Response - Comment noted. This resubmitted document has been signed and stamped by a licensed professional.

9. Electronic submittal of all sampling data into Ecology's Electronic Environmental Information Management (EIM) database is a requirement in order to receive a final Ecology opinion for this Site. Jenna Durkee (email iedu461@ecy.wa.gov), or via telephone at 509-454-7865) is Ecology's contact and resource on entering data into EIM.

Response - Comment noted. All sampling data has been uploaded in the EIM database.



APPENDIX B

Legal Description of Property

PRESERVATIVE PAINT COMPANY

Chronological Sequence of Ownership and Leases

at

5410 Airport Way South Seattle, Washington

This report reflects review of Preservative Paint Company ("PPC") records on hand in May, 1986, including title abstracts, deeds, leases, and minutes of meetings of PPC Board of Directors.

The history that follows is not complete. A professional title search will be required if this data is not sufficient. A plot map is attached for reference.

Parcel 1:

North ½ of Lot 1, Block 8 and vacated South ½ of Baltimore Avenue.

Leased by Asphaltum Products Company (later to become Preservative Paint Company) in 1908.

Purchased by PPC between 1920 and 1927.

Parcel 2:

North ½ vacated Baltimore Avenue and West portion of Lot 9, Southwest portion of Lot 8, Block 9.

Date of original lease unknown.

Purchased by PPC in 1942.

Parcel 3:

East strip of South ½ of vacated Baltimore Avenue and Lot 1, Block 8.

Leased from Northern Pacific Railway Company in 1947.

Parcel 4:

South 1/2 of Lot 1, North 1/2 of Lot 2, Block 8.

Purchased from Pacific Coast Coal Company in 1951.

Parcel 5:

North 20 feet of vacated Lucile Street Bridge. Purchased from City of Seattle in 1982.

Parcel 6:

Southwest corner of Lot 8 and 12-foot North-South center strip of Lot 9, Block 9, and 12-foot North-South center strip of North ½ vacated Baltimore Avenue.

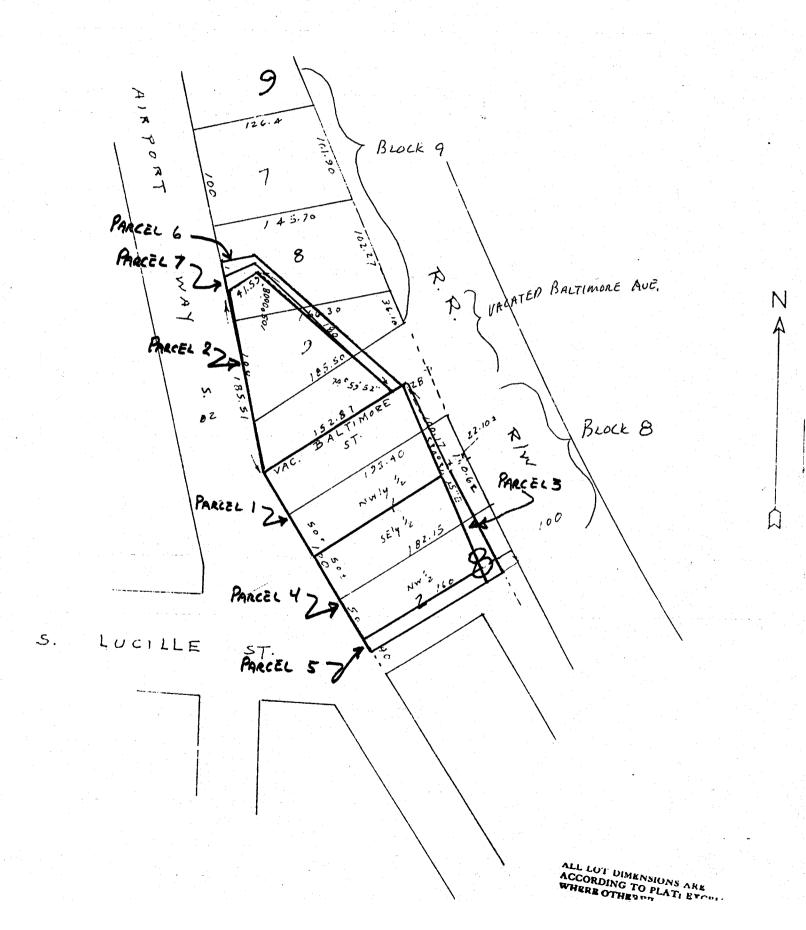
Leased from Oregon-Washington Railroad and Navigation Company and its lessee, Union Pacific Railroad Company in October, 1985 (see attached map).

Parcel 7:

Portion of Southwest corner of Lot 8 and 6-inch strip of North-South strip of Lot 9, Block 9.

Purchased from Oregon-Washington Railroad Company. Transaction not yet complete as of May 14, 1986 (see attached map).

This sketch is not based upon a survey of the property described in Order No. 13373 of Lawyers Title Insurance Corporation. It is furnished without charge solely for the purpose of assisting in locating the said premises. It does not purport to show all roads or easements. The Company assumes no liability for inaccuracies therein.



PRIVATE ROADWAY ENCROACHMENT Seattle (Argo), WA PLD 311-2-1.72 (8507-CON47-29)

RE# 795-29

U.P. LEASE Agreement

THIS AGREEMENT is made and entered into as of the day of October , 19 85, by and between the OREGON-WASHINGTON RAILROAD & NAVIGATION COMPANY, an Oregon corporation, and its lessee, UNION PACIFIC RAILROAD COMPANY, a Utah corporation (herein collectively referred to as "Licensor"), and PRESERVATIVE PAINT COMPANY, a Washington corporation (herein called "Licensee").

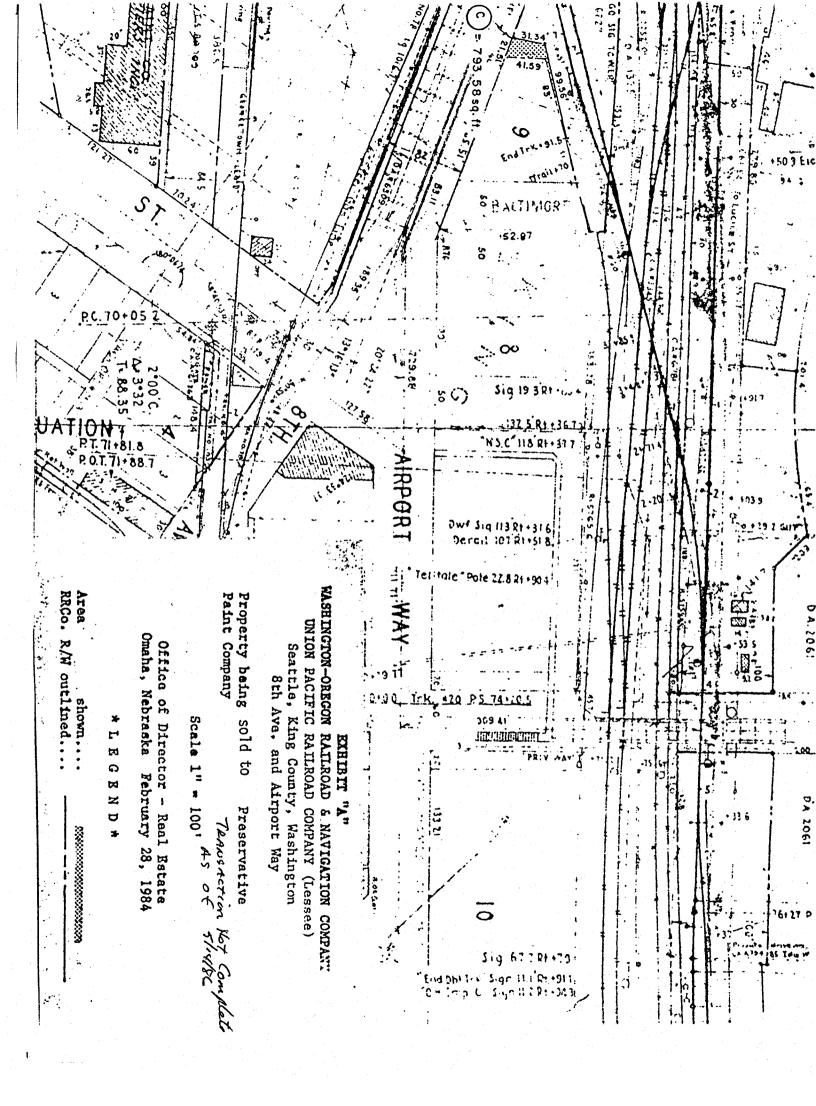
RECITALS:

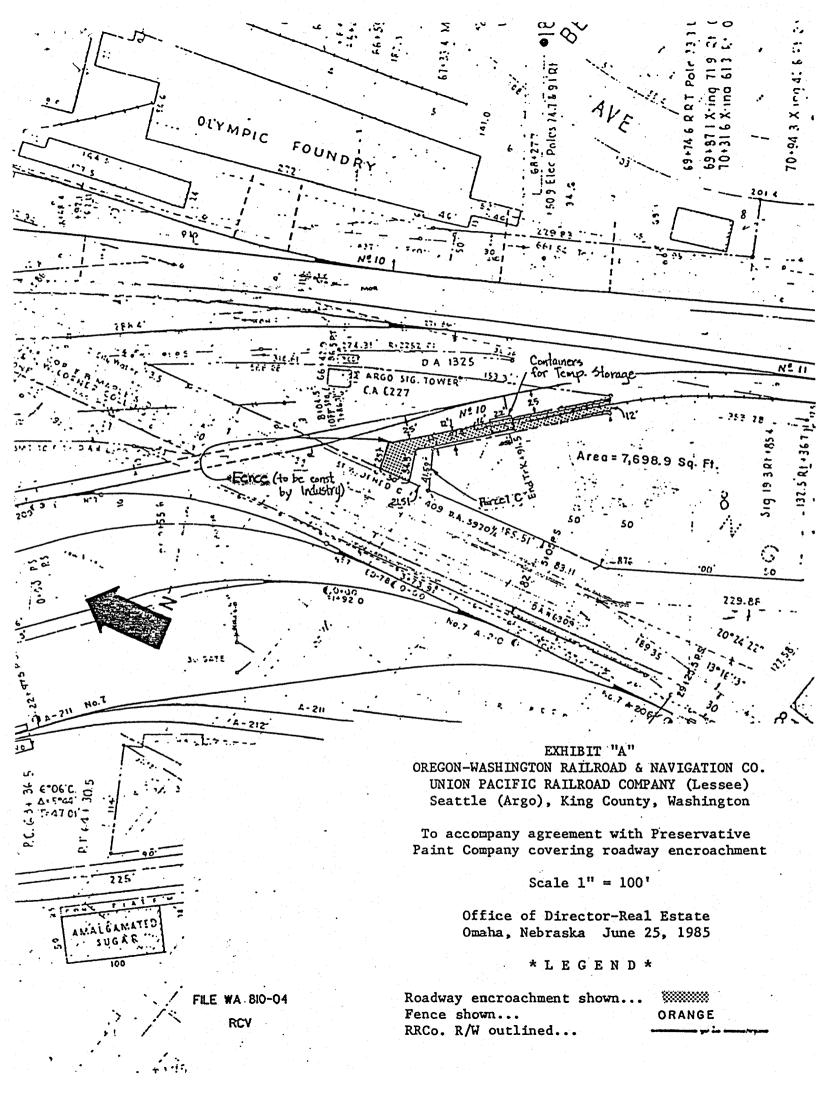
The Licensee desires to continue to maintain and use a private roadway (herein called "Private Roadway") on the Licensor's property at Seattle, Argo, Washington, in the location indicated on print dated June 25, 1985, attached hereto, marked Exhibit "A".

NOW, THEREFORE, it is mutually agreed by and between the parties hereto as follows:

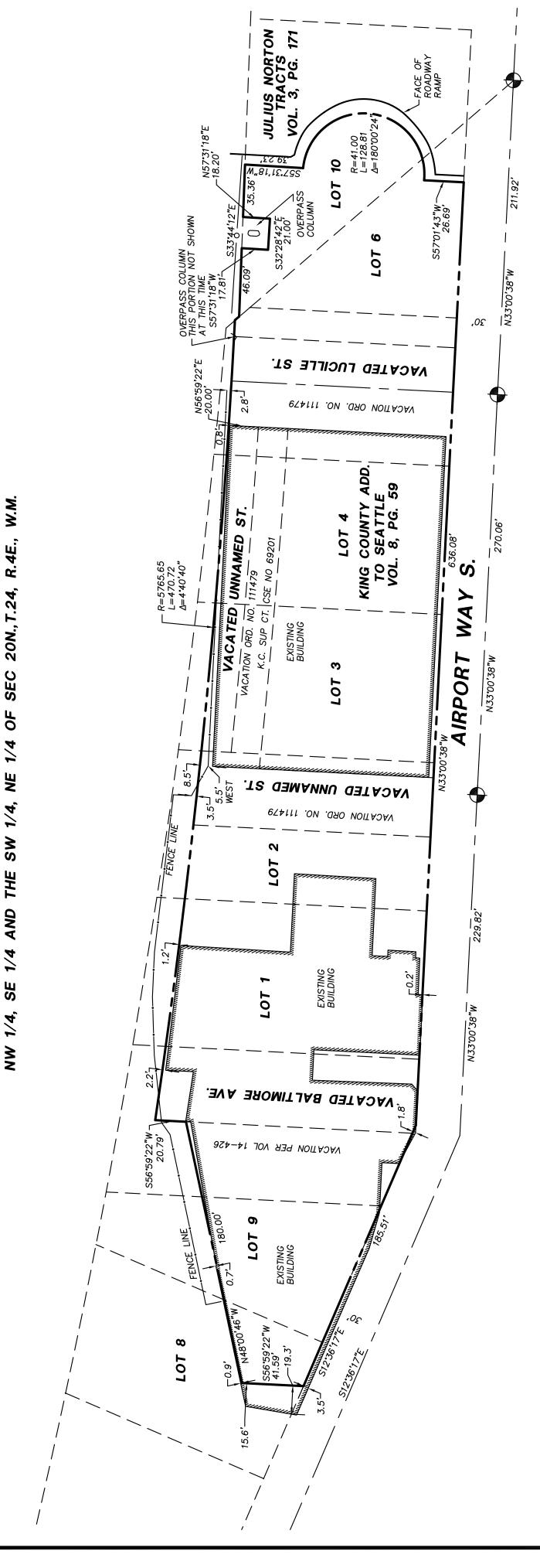
Section 1. LICENSOR GRANTS RIGHT.

- (a) The Licensor hereby grants to the Licensee, subject to the terms and conditions herein stated, the right to maintain and use said Private Roadway in the location described in the recitals hereof.
- (b) In consideration of the license and permission granted herein, the Licensee shall and will do, keep, observe and perform each and all of the terms, provisions, conditions, limitations and covenants herein contained, and shall pay the Licensor the sum of ONE HUNDRED & NO/100 DOLLARS (\$100.00) per annum, payable annually in advance. In addition, upon execution and delivery of this agreement, the Licensee shall pay to the Licensor the sum of ONE HUNDRED & NO/100 DOLLARS (\$100.00) to cover the cost of preparation hereof.
- (c) The foregoing grant is subject and subordinate to the prior and continuing right and obligation of the Licensor to use and maintain the





CO. INC PAINT **EXHIBIT** FOR THE KELLY MOORE BOUNDARY



LEGAL DESCRIPTION

ALL THOSE PARTS OF LOTS 8 AND 9, BLOCK 9, KING COUNTY ADDITION TO THE CITY OF SEATTLE, KING COUNTY, WASHINGTON, ACCORDING TO THE OFFICIAL PLAT THEREOF ON FILE IN THE AUDITORS OFFICE OF KING COUNTY, WASHINGTON AND VACATED BALTIMORE AVENUE BETWEEN BLOCKS 8 AND 9 OF SAID ADDITION DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE CENTER LINE OF VACATED BALTIMORE AVENUE WITH THE
NORTHEASTERLY LINE OF AIRPORT WAY (FORMERLY 8TH AVENUE SOUTH); THENCE NORTHEASTERLY ALONG THE
NORTHEASTERLY LINE OF VACATED BALTIMORE AVENUE, A DISTANCE OF 152.87 FEET TO A POINT THEREON; THENCE
NORTHWESTERLY ALONG A STRAIGHT LINE WHICH FORMS AN ANGLE OF 74°59'52" FROM THE SOUTHWEST TO THE
NORTHWEST WITH SAID CENTER LINE OF VACATED BALTIMORE AVENUE, A DISTANCE OF 180 FEET TO A POINT;
THENCE SOUTHWESTERLY ALONG A STRAIGHT LINE WHICH FORMS AN ANGLE OF 105°0'08" FROM SOUTHEAST TO
SOUTHWEST WITH THE LAST DESCRIBED STRAIGHT LINE WHICH FORMS AN ANGLE OF 105°0'08" FROM SOUTHEAST TO
NORTHEASTERLY LINE OF AIRPORT WAY; THENCE SOUTHEASTERLY ALONG SAID NORTHEASTERLY ONE-HALF OF
AIRPORT WAY A DISTANCE OF 185.51 FEET TO POINT OF BEGINNING; HOT I AND THE SOUTHEASTERLY ONE-HALF OF
VACATED BALTIMORE AVENUE, ADJOINING, AND NORTHWESTERLY HALF OF LOT 2; EXCEPT RIGHT-OF-WAY
CONVEYED TO NORTHERN PACIFIC RAIL WAY COMPANY BY DEED RECORDED UNDER RECORDING NUMBER 628522
AND THAT PORTION OF THE SOUTH 10 FEET OF LOT 2 AND ALL OF LOTS 3 AND 4 AND THE NORTH 20 FEET OF LOT 5,
ALL IN BLOCK 8, KING COUNTY ADDITION TO THE CITY OF SEATTLE, ACCORDING TO THE PLAT THEREOF RECORDED
IN VOLUME 8 OF PLATS, PAGE 59, IN KING COUNTY, WASHINGTON, LYING SOUTHWESTERLY OF THE STRIP OF LAND
APPROPRIATED BY CITY OF GEORGETOWN BY JUDGMENT ENTERED IN KING COUNTY SUPERIOR COURT CAUSE
NUMBER 69201;

ALSO THAT PORTION OF THE NORTH 20 FEET OF THE SOUTH 20 FEET OF SAID LOT 2 AS DESCRIBED IN INSTRUMENT RECORDED UNDER RECORDING NUMBER 8211120680 LYING WEST OF THE EAST LINE OF THOSE PORTIONS OF SAID LOTS 2, AND 4 DESCRIBED ABOVE PRODUCED NORTHERLY;

ALSO THAT PORTION OF LOT 5 LYING SOUTHERLY OF SOUTH LUCILLE STREET AND ALL OF LOT 6, BLOCK 8, KING COUNTY ADDITION TO THE CITY OF SEATTLE, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 8 OF PLAT, PAGE 59, IN KING COUNTY, WASHINGTON;

ALSO THAT PORTION OF TRACT 10, TRACTS OF JULIUS HORTON, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 3 OF PLAT, PAGE 171, IN KING COUNTY, WASHINGTON, LYING NORTHWESTERLY AND SOUTHWESTERLY OF THE THREE TRACTS CONVEYED TO THE CITY OF SEATTLE BY DEED RECORDED UNDER RECORDING NUMBER 84020685;

TOGETHER WITH THAT PORTION OF VACATED LUCILLE STREET AND UNNAMED STREET AS VACATED UNDER VACATION ORDINANCE NO. 111479 AND FILE UNDER RECORDING NUMBER 8401100723, WHICH WOULD ATTACH TO AL THE ABOVE DESCRIBED PROPERTY BY OPERATION OF LAW; EXCEPT THOSE "AERIAL RIGHTS" AND "PERPETUAL RIGHTS: CONVEYED TO THE CITY OF SEATTLE BY DEED RECORDED UNDER KING COUNTY RECORDING NUMBER 8402020686.

SURVEY NOTES:

- 1. THE PURPOSE OF THIS SURVEY IS TO DEFINE THE BOUNDARY LINES OF THE PARCEL DESCRIBED HEREON. NO CORNERS HAVE BEEN SET AT THIS TIME.
- 2. FIELD WORK WAS DONE IN SEPTEMBER AND OCTOBER OF 2008 USING TRIMBLE 4400 SERIES GPS RECEIVERS (RTK METHOD) AND A SOKIA SET, TWO SECOND TOTAL STATION WITH RESULTING CLOSURES EXCEEDING THE MINIMUM ACCURACY STANDARDS AS ESTABLISHED BY W.A.C. 332—130.
- 3. THE BOUNDARY CORNERS AND LINES DEPICTED ON THIS MAP ARE PER RECORD TITLE INFORMATION AND REPRESENT DEED LINES ONLY. THEY DO NOT PURPORT TO SHOW OWNERSHIP LINES THAT MAY OTHERWISE BE DETERMINED BY A COURT OF LAW.
- THE TITLE REPORT FOR THE PARCEL AS SHOWN HEREON WAS PROVIDED BY THE CLIENT AND WAS PREPARED BY STEWART TITLE COMPANY OF WASHINGTON INC. TITLE ORDER NO. 253607 DATED JULY 22, 1994.

4.

E TO THE FOLLOWING RECORDS OF SURVEY WHICH WERE USED /OR ASCERTAIN THE BOUNDARY AS SHOWN HEREON...
'RECORDING NO. 7609019001.
'RECORDING NO. 20070831900003.
'NTY ADDITION TO THE CIT OF SEATTLE VOLUME 8, PAGE 59.
UBLIC UTILITIES MAPS OF THE SE AND NE QUARTERS OF SEC. 5. REFERENCE IS MADE
TO CALCULATE AND/C
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PLAT OF KING COUNT
CITY OF SEATTLE PUB

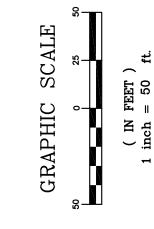
RECORDS OF KING COUNTY, WASHINGTON.

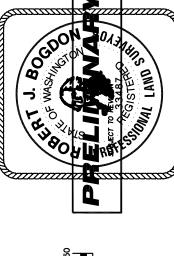
LEGEND



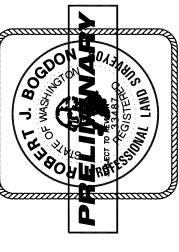
BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CENTERLINE OF AIRPORT WAY S. PER RECORD OF SURVEY RECORDING NUMBER 7609019001 BEARING N33°00'38"W AS SHOWN.





INDEX LOCATION: SEC 20 T24N:R 4E. V



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WASHINGTON SURVEY FOR PAINT CO. INC JOB NO KELLY MOORE RECORD OF KING COUNTY DATE DWN BY

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12/08

EMW

INC.

1"=50'

BOGDON

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1320 N.W. MALL ST., SUITE B ISSAQUAH, WASHINGTON 98027 PHONE: (425)392-5351 FAX: (425)302-627

SCALE

THE REQUIREMENTS OF THE REQUEST OFKELLY INSEPT2008	CERTIFIC
IN BOOKOFAT PAGEAT THE REQUEST OF SURVEYOR'S NAME	SUPT. OF RECORDS
IN BOOKOFAT PAGEREQUEST OF SURVEYOR'S NAME	MGR.

:	THIS MAP CORRECTLY REPRESENTS A SURVEY MADE
//	BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH
N/	THE REQUIREMENTS OF THE SURVEY RECORDING ACT AT
	THE REQUEST OF. KELLY MOORE PAINT CO. INC.
	IN. SEPT. 2008

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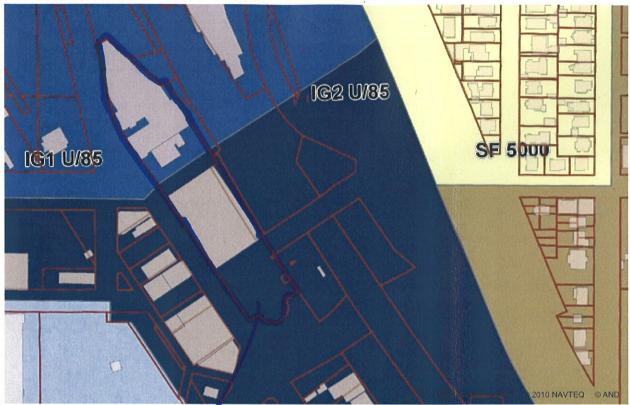
FILED FOR RECORD THIS.....DAY OF

RECORDER'S CERTIFICATE

SURVEYOR'S CERTIFICATE

EASTSIDE CONSULTANTS.	ENGINEERS-SURVEYORS 1320 N.W. MALL ST., S ISSAQUAH, WASHINGTO PHONE: 1425/392-5351
	ROBERT J. BOGDON FICATE NO. 33487





Displaying layers: Detailed Zoning Overlay Building Outlines Parcels

No warranties of any sort, including accuracy, fitness, or merchantability accompany this product. Copyright 2007, All Rights Reserved City of Seattle

KM property:

North parcel Zoned IGI U/85 = General Industrial 1

South parcel Zoned IGZ U/85 = General Industrial 2

EXHIBIT A

The land referred to in this Limited Liability Certificate is situated in the county of King, state of Washington, and described as follows:

All those parts of Lots 8 and 9, Block 9, King County Addition to the City of Seattle, King County, Washington, according to the official plat thereof on file in the Auditors Office of King County, Washington and vacated Baltimore Avenue between Blocks 8 and 9 of said addition described as follows:

Beginning at the intersection of the center line of vacated Baltimore Avenue with the northeasterly line of Airport Way (formerly 8th Avenue South); thence northeasterly along the center line of vacated Baltimore Avenue, a distance of 152.87 feet to a point thereon;

thence northwesterly along a straight line which forms an angle of 74°59'52" from the southwest to the northwest with said center line of vacated Baltimore Avenue, a distance of 180 feet to a point;

thence southwesterly along a straight line which forms an angle of 105°0'08" from southeast to southwest with the last described straight line a distance of 41.59 feet to a point on said northeasterly line of Airport Way;

thence southeasterly along said northeasterly line of Airport Way a distance of 185.51 feet to point of beginning;

Lot 1 and the southeasterly one-half of vacated Baltimore Avenue, adjoining, and northwesterly half of Lot 2;

EXCEPT right-of-way conveyed to Northern Pacific Railway Company by deed recorded under Recording Number 628522 and that portion of the south 10 feet of Lot 2 and all of Lots 3 and 4 and the north 20 feet of Lot 5. All in Block 8, King County Addition to the City of Seattle, according to the plat thereof recorded in Volume 8 of Plats, page 59, in King County, Washington, lying southwesterly of the strip of land appropriated by the City of Georgetown by judgment entered in King County Superior Court Cause Number 69201;

ALSO that portion of the north 20 feet of the south 30 feet of said Lot 2 as described in instrument recorded under Recording Number 8211120660 lying week of the east line of those portions of said Lots 2, 3 and 4 described above produced northerly;

ALSO that portion of Lot 5 lying southerly of South Lucille Street and all of 6, Block 8, King County Addition to the City of Seattle, according to the plat thereof recorded in Volume 8 of Plats, page 59, in King County, Washington;

ALSO that portion of Tract 10, Tracts of Julius Horton, according to the plat thereof recorded in Volume 3 of Plats, page 171, in King County, Washington, lying northwesterly and southwesterly of the three tracts conveyed to the City of Seattle by deed recorded under Recording Number 8402020685;

TOGETHER WITH that portion of vacated Lucille Street and unnamed street as vacated under vacation Ordinance No. 111479 and filed under Recording Number 6401100723, which would attach to all the above described property by Operation of Law; EXCEPT those "aerial rights" and "perpetual rights" conveyed to the City of Seattle by deed

recorded under King County Recording Number 8402020686.



REAL ESTATE EXCISE TAX AFFIDAVIT

This form is your receipt when stamped by cashier.

CHAPTER 82.45 RCW - CHAPTER 458-61A WAC PLEASE TYPE OR PRINT THIS AFFIDAVIT WILL NOT BE ACCEPTED UNLESS ALL AREAS ON ALL PAGES ARE FULLY COMPLETED (See back of last page for instructions) If multiple owners, list percentage of ownership next to name. Check box if partial sale of property Name: NCD GeorgeTown, LLC, a Washington limited Name: Kelly-Moore Paint Company, Inc., a California corporation and wholly-owned subsidiary of K-M liability company Industries Holding Co. Inc. Mailing Address 11112 Rainier Ave S Mailing Address 987 Commercial Ave City/State/Zip Seattle, WA 98178 City/State/Zip San Carlos, CA 94070 Phone No. (including area code) Phone No. (including area code) List assessed value(s) List all real and personal property tax parcel account Send all property tax correspondence to: Same as Buyer/Grantee numbers-check box if personal property 2,707,600.00 386840-0270-00 Name Mailing Address City/State/Zip 0010 Phone No. (including area code) Street address of property: 5410 Airport Way South, Seattle, WA 98108-1726 This property is located in Seattle Check box if any of the listed parcels are being segregated from another parcel, are part of a boundary line adjustment or parcels being merged. Legal description of property (if more space is needed, you may attach a separate sheet to each page of the affidavit) PARCEL A OF LOT BOUNDARY ADJUSTMENT NO. 3011771, RECORDED MARCH 11, 2011 UNDER RECORDING NO. 20110311900004, IN KING COUNTY, WASHINGTON. List all personal property (tangible and intangible) included in selling Select Land Use Code(s): price. 59 enter any additional codes: YES NO (See back of last page of instructions) Was the seller receiving a property tax exemption or deferral under chapters 84.36, 84.37, or 84.38 RCW (nonprofit organization, senior citizen, or disabled person, homeowner with limited income)? If claiming an exemption, list WAC number and reason for exemption: YES NO X Is this property designated as forest land per chapter 84.33 RCW? X WAC No. (Section/Subsection) Is this property classified as current use (open space, farm and agricultural, or timber) land per Chapter 84.34 RCW? Reason for exemption. Is this property receiving special valuation as historical property per chapter 84.26 RCW? If any answers are yes, complete as instructed below. (1) NOTICE OF CONTINUANCE (FOREST LAND OR CURRENT USE) **Statutory Warranty Deed** Type of Document NEW OWNER(S): To continue the current designation as forest land or October 28, 2014 Date of Document classification as current use (open space, farm and agriculture, or timber) land, you must sign on (3) below. The county assessor must then determine if the land 2,250,000.00 Gross Selling Price \$ transferred continues to qualify and will indicate by signing below: 'If the land no 0.00 *Personal Property (deduct) \$ longer qualifies or you do not wish to continue the designation or classification, it will be removed and the compensating or additional taxes will be due and payable 0.00 Exemption Claimed (deduct) \$ by the seller or transferor at the time of sale. (RCW 84.33,140 or RCW 2,250,000.00 Taxable Selling Price \$ 84.34.108). Prior to signing (3) below, you may contact your local county assessor 40,050.00 Excise Tax: State \$ for more information. does not qualify for continuance. Local \$ This land does *Delinquent Interest: State \$ DATE DEPUTY ASSESSOR Local \$ (2) NOTICE OF COMPLIANCE (HISTORIC PROPERTY) *Delinquent Penalty \$ NEW OWNER(S): To continue special valuation as historic property, sign (3) 40,050.00 Subtotal \$ below. If the new owner(s) does not wish to continue, all additional tax calculated 5.00 *State Technology Fee \$ pursuant to chapter 84.26 RCW, shall be due and payable by the seller or transferor *Affidavit Processing Fee \$ at the time of sale. 40,055.00 Total Duc \$ (3) OWNER(S) SIGNATURE A MINIMUM OF \$10.00 IS DUE IN FEE(S) AND/OR TAX PRINT NAME SEE INSTRUCTIONS I CERTIEX UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT Signature of Signature of Grantee or Grantee's Age Grantor or Grantor's Agent

Date & city of signing:

Name (print)

memin

Name (print)

Date & city of signing;

Scattle

Perjury: Perjury is a class C felony which is punishable by imprisonment in the state correctional institution for a maximum term of not more than five years, or by a fine in an amount fixed by the court of not more than five thousand dollars (\$5,000.00), or by both imprisonment and fine (RCW 9A.20.020(1C)).



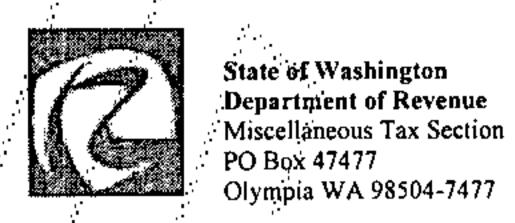
01/16/2015 16:19 KING COUNTY, WA

SALE

40,055.00 \$2,250,000.00

THIS SPACE - TREASURER'S USE ONLY

COUNTY TREASURER



Reproduced by First American Title Insurance Co., File No. NCS-665333-WA1 (cas)

REV 84 0002c (a) (6/26/14)

REAL ESTATE EXCISE TAX SUPPLEMENTAL STATEMENT

(WAC 458-61A-304)

This form must be submitted with the Real Estate Excise Tax Affidavit (FORM REV 84 0001A for deeded transfers and Form REV 84.0001B for controlling interest transfers) as provided below. Completion of this form is required for the types of real property transfers listed in numbers 1-3 below. Only the first page of this form needs original signatures.

AUDIT: Information you provide on this form is subject to audit by the Department of Revenue. **In the event of an audit, it is the taxpayers' responsibility to provide documentation to support the selling price of any exemption claimed.** This documentation must be maintained for a minimum of four years from date of sale. (RCW 82.45.100) Failure to provide supporting documentation when requested may result in the assessment of tax, penalties, and interest. Any filing that is determined to be fraudulent will carry a 50% evasion penalty in addition to any other accrued penalties or interest when the tax is assessed.

PERJURY: Perjury is a class C felony which is punishable by imprisonment in a state correctional institution for a maximum term of not more than five years, or by a fine in an amount fixed by the court of not more than five thousand dollars (\$5,000.00), or by both imprisonment and fine (RCW 9A.20.020(1C)).

The	persons signing below do hereby swear under penalty of perjury that the following is true (check appropriate statement):
1.	X DATE OF SALE: (WAC 458-61A-306(2))
	I, (print name) Chantale A. Stiller-Anderson
	certify that the Statutory Warranty Deed (type of instrument) dated October 28, 2014, was delivered to me in escrow
	by Kelly Moore Paint Company, Inc. (seller's name).
	NOTE: Agent named here must sign below and indicate name of firm. The payment of the tax is considered current if it is not more than 90 days beyond the date shown on the instrument. If it is past 90 days, interest and penalties apply to the date of the instrument.
	Reason beld in escrow original close date was October, financing issues with buyers lender delayed until now
	January First American Title Insurance Company
	Signature Firm Name
2.	GIFTS: (WAE 458-61A-201) The gift of equity is non-taxable; however, any consideration received is not a gift and is taxable. The value exchanged or paid for equity plus the amount of debt equals the taxable amount. One of the boxes below must be checked. Both Grantor (seller)
	and Grantee (buyer) must sign below. Grantor (seller) gifts equity valued at \$ to grantee (buyer).
	NOTE: Examples of different transfer types are provided on the back. This is to assist you with correctly completing this form and paying your tax.
	"Consideration" means money or anything of value, either tangible (boats, motor homes, etc) or intangible, paid or delivered, or contracted to be paid or delivered, including performance of services, in return for the transfer of real property. The term includes the amount of any lien, mortgage, contract indebtedness, or other encumbrance, given to secure the purchase price, or any part thereof, or remaining unpaid on the property at the time of sale. "Consideration" includes the assumption of an underlying debt on the property by the buyer at the time of transfer.
	A. Gifts with consideration
	1. Grantor (seller) has made and will continue to make all payments after this transfer on the total debt of \$ and has received from the grantee (buyer) \$ and has received from the grantee (buyer) \$
	received in exchange for property). Any consideration received by grantor is taxable.
	2. Grantee (buyer) will make payments on% on total debt of \$for which grantor (seller) is liable and pay grantor (seller) \$(include in this figure the value of any items received in exchange for property) Any consideration received by grantor is taxable.
	B. Gifts without consideration
	1. There is no debt on the property; Grantor (seller) has not received any consideration towards equity. No tax is due.
	2. Grantor (seller) has made and will continue to make 100% of payments on total debt of \$ and has not received any consideration towards equity. No tax is due,
	3. Grantee (buyer) has made and will continue to make 100% of payments on total debt of \$ and has not paid grantor (seller) any consideration towards equity. No tax is due.
	4. Grantor (seller) and grantee (buyer) has made and will continue to make payments from joint account on total debt before and after the transfer. Grantee (buyer has not paid grantor (seller) any consideration towards equity. No tax is due.
Ha: tax	there been or will there be a refinance of the debt? WES INDICATE NOTIFY (If yes, please call (360) 534-1503 to see if this transfer is able). If grantor (seller) was on title as co-signor only, please see WAC 458-61A-215 for exemption requirements.
	e undersigned acknowledges this transaction may be subject to audit and have read the above information regarding record-keeping puirements and evasion penalties.
	ntor's Signature Date Grantee's Signature Date
Gr	ntor's Signature Date Grantee's Signature Date
Gra	ntor's Name (print) Grantee's Name (print)
3.	IRS "TAX DEFERRED" EXCHANGE (WAC 458-61A-213)
I. i	print name), certify that I am acting as an Exchange Facilitator in transferring real
•	perty topursuant to IRC Section 1031, and in accordance with WAC 458-61A-213
•	TE: Exchange Facilitator must sign below.
	Exchange Facilitator's Signature
_	
For 647	tax assistance, contact your local County Treasurer/Recorder or visit http://dor.wa.gov or call (360) 534-1503. to inquire about the availability of this document in an alternate format please call 1-800-7706. Teletype (TTY) users may use the Washington Relay Service by calling 711.

COUNTY TREASUR



Home How do I... Services About King County Departments

King County Department of Assessments

Fair, Equitable, and Understandable Property Valuations

Department Assessments

500 Fourth Avenue, Suite ADM-AS-0708, Seattle, WA 98104

Office Hours: Mon - Fri 8:30 a.m. to 4:30 p.m.

TEL: 206-296-7300 FAX: 206-296-5107 TTY: 206-296-7888

Send us

New Search Property Tax Bill Map This Property Glossary of Terms Area Report Print Property Detail

		PA
Parcel	386840-0270	
Name	NCD GEORGETOWN LLC	
Site Address		
Geo Area	35-30	
Spec Area		
Property Name	NEW WAREHOUSE CONSTRUCTION	

ARCEL	_ DATA		
	Jurisdiction	SEATTLE	
	Levy Code	0010	
	Property Type	С	
	Plat Block / Building Number	8 &	
	Plat Lot / Unit Number	1 & 2 &	
	Quarter-Section-Township- Range	SE-20-24-4	

Legal Description

Legal Description

KING COUNTY ADD PCL A SEATTLE LBA #3011771 REC# 20110311900004 SD BLA BEING LOT 1 & N 1/2 OF LOT 2 LY SWLY OF NP RY R/W TGW POR OF VAC BALTIMORE ST AS VAC BY CO COM ON 7-19-04 TGW POR OF S 10 FT OF LOT 2 & ALL OF LOTS 3 & 4 & N 20 FT OF LOT 5 LY SWLY OF STRIP OF LAND APPROPRIATED BY CITY OF GEORGETOWN BY JUDGMENT ENTERED IN KC SCC #69201 TGW POR OF N 20 FT OF S 30 FT OF SD LOT 2 & A DESC BY REC #8211120880 LY W OF E LN OF THOSE PORTIONS OF SD LOTS 2-3-4 DESC ABOVE PRODUCED NLY TGW POR LOT 5 LY SLY OF S LUCILLE ST & ALL LOT 6 TGW POR OF TR 10 OF PLAT OF JULIUS HORTON TRACTS LY NWLY & SWLY OF THE THREE TRACTS CONVEYED TO CITY OF SEATTLE BY REC #8402020685 TGW THAT PORTION OF VAC LUCILLE ST & UNNAMED ST AS VAC UNDER VAC ORD 111479 & REC #8401100723 TGW POR OF BLK 9 OF SD KING COUNTY ADD DAF - BEG NXN CL VAC BALTIMORE ST WITH NELY MGN AIRPORT WAY TH NELY ALG SD CL 152.87 FT TH N 48-00-46 W DIST OF 97.00 FT TH N 41-59-14 E A DIST OF 0.80 FT TH N 47-41-49 W A DIST OF 99.56 FT TH S 63-58-49 W A DIST OF 31.34 FT TO E MGN OF SD AIRPORT WY & TERM OF LN DESC LESS CM RCTS EXCEPT THOSE "AERIAL RGTS" & "PERPETUAL RGTS" CONVEYED TO CITY OF SFATTLE BY SEC. NO 8402020686 TALL LY NORTH OF N MGN OF STATTE HWY RGTS" CONVEYED TO CITY OF SEATTLE BY REC NO 8402020686 - ALL LY NORTH OF N MGN OF STATE HWY AS DEEDED BY AF #5706854

PLat Block: 8 & Plat Lot: 1 & 2 &

LAND DATA

Highest & Best Use As If Vacant	MANUFACTURING
Highest & Best Use As Improved	(unknown)
Present Use	Industrial(Heavy)
Land SqFt	54,964
Acres	1.26

Views

Rainier	
Territorial	
Olympics	
Cascades	
Seattle Skyline	
Puget Sound	
Lake Washington	
Lake Sammamish	
Lake/River/Creek	
Other View	

Designations

Historic Site	
Current Use	(none)
Nbr Bldg Sites	
Adjacent to Golf Fairway	NO
Adjacent to Greenbelt	NO
Other Designation	NO
Deed Restrictions	NO
Development Rights Purchased	NO
Easements	NO
Native Growth Protection Easement	NO
DNR Lease	NO

Percentage Unusable	0
Unbuildable	NO
Restrictive Size Shape	NO
Zoning	IG2 U/85
Water	WATER DISTRICT
Sewer/Septic	PUBLIC
Road Access	PUBLIC
Parking	ADEQUATE
Street Surface	PAVED

Waterfront

Waterfront Location	
Waterfront Footage	0
Lot Depth Factor	0
Waterfront Bank	
Tide/Shore	
Waterfront Restricted Access	
Waterfront Access Rights	NO
Poor Quality	NO
Proximity Influence	NO

Nuisances

Topography	
Traffic Noise	
Airport Noise	
Power Lines	NO
Other Nuisances	NO

Problems

Water Problems	NO
Transportation Concurrency	NO
Other Problems	NO

Environmental

Environmental	NO
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Reference Links:

- King County Tax Links
- Property Tax Advisor
- Washington State Department of Revenue (External link)
- Washington State Board of Tax
 Appeals (External
- Appeals/Equalization
- Districts Report
- □ <u>iMap</u>
- Recorder's Office

Scanned images of surveys and other map documents

Scanned images of plats

Notice mailing date: 08/06/2015

BUILDING

TAX ROLL HISTORY

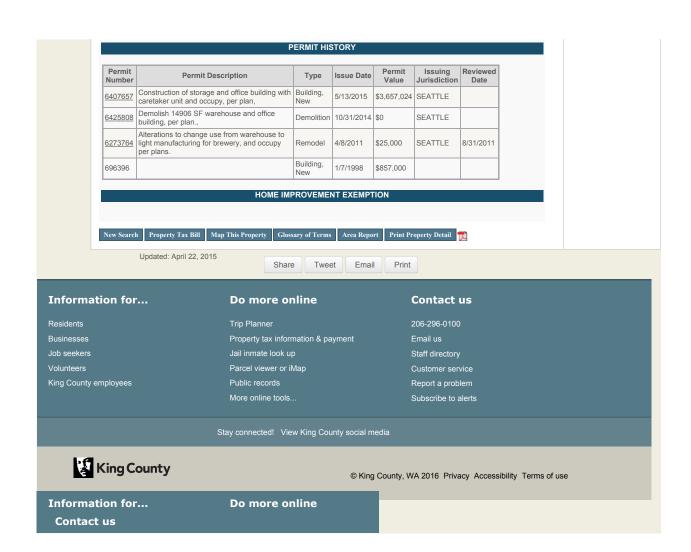
Account	Valued Year	Tax Year	Omit Year	Levy Code	Appraised Land Value (\$)	Appraised Imps Value (\$)	Appraised Total Value (\$)	New Dollars (\$)	Taxable Land Value (\$)	Taxable Imps Value (\$)	Taxable Total Value (\$)	Tax Value Reason
386840027000	2015	2016		0010	1,429,000	0	1,429,000	0	1,429,000	0	1,429,000	
386840027000	2014	2015		0010	1,429,000	1,278,600	2,707,600	0	1,429,000	1,278,600	2,707,600	
386840027000	2013	2014		0010	1,319,100	1,388,500	2,707,600	0	1,319,100	1,388,500	2,707,600	
386840027000	2012	2013		0010	1,236,600	1,469,000	2,705,600	0	1,236,600	1,469,000	2,705,600	
386840027000	2011	2012		0010	1,236,700	1,692,800	2,929,500	0	1,236,700	1,692,800	2,929,500	
386840027000	2010	2011		0010	1,357,100	1,480,900	2,838,000	0	1,357,100	1,480,900	2,838,000	
386840027000	2009	2010		0010	2,912,500	2,631,600	5,544,100	0	2,912,500	2,631,600	5,544,100	
386840027000	2008	2009		0010	2,783,000	2,761,100	5,544,100	0	2,783,000	2,761,100	5,544,100	
386840027000	2007	2008		0010	2,330,000	2,950,100	5,280,100	0	2,330,000	2,950,100	5,280,100	
386840027000	2006	2007		0010	1,941,600	3,073,200	5,014,800	0	1,941,600	3,073,200	5,014,800	
386840027000	2005	2006		0010	1,941,600	2,858,400	4,800,000	0	1,941,600	2,858,400	4,800,000	
386840027000	2004	2005		0010	1,553,300	2,231,300	3,784,600	0	1,553,300	2,231,300	3,784,600	
386840027000	2003	2004		0010	1,553,300	2,216,600	3,769,900	0	1,553,300	2,216,600	3,769,900	
386840027000	2002	2003		0010	1,553,300	2,185,700	3,739,000	0	1,553,300	2,185,700	3,739,000	
386840027000	2001	2002		0010	1,553,300	1,514,600	3,067,900	0	1,553,300	1,514,600	3,067,900	
386840027000	2000	2001		0010	1,553,300	1,514,600	3,067,900	0	1,553,300	1,514,600	3,067,900	
386840027000	1999	2000		0010	1,294,400	1,703,900	2,998,300	0	1,294,400	1,703,900	2,998,300	
386840027000	1998	1999		0010	1,294,400	1,804,000	3,098,400	724,000	1,294,400	1,804,000	3,098,400	
386840027000	1997	1998		0010	0	0	0	0	1,294,400	1,080,000	2,374,400	
386840027000	1996	1997		0010	0	0	0	0	1,294,400	880,000	2,174,400	
386840027000	1994	1995		0010	0	0	0	0	1,294,400	880,000	2,174,400	
386840027000	1993	1994		0010	0	0	0	0	1,294,400	880,000	2,174,400	
386840027000	1992	1993		0010	0	0	0	0	1,120,000	880,000	2,000,000	
386840027000	1991	1992		0010	0	0	0	0	753,700	1,101,900	1,855,600	
386840027000	1990	1991		0010	0	0	0	0	753,700	1,101,900	1,855,600	
386840027000	1988	1989		0010	0	0	0	0	232,000	420,300	652,300	
386840027000	1987	1988		0010	0	0	0	0	231,600	345,000	576,600	
386840027000	1986	1987		0010	0	0	0	0	231,600	345,000	576,600	
386840027000	1985	1986		0010	0	0	0	0	231,600	345,000	576,600	
386840027000	1984	1985		0010	0	0	0	0	231,600	263,400	495,000	
386840027000	1982	1983		0010	0	0	0	0	133,100	156,000	289,100	

SALES HISTORY

Excise Number	Recording Number	Document Date	Sale Price	Seller Name	Buyer Name	Instrument	Sale Reason
2710332	20150116001333	10/28/2014	\$2,250,000.00	KELLY-MOORE PAINT COMPANY INC	NCD GEORGETOWN LLC	Statutory Warranty Deed	None
2410244	20090929001445	9/28/2009	\$1,800.00	KELLY-MOORE PAINT CO INC	QWEST CORP	Other - See Affidavit	None
2071059	20040921000313	6/28/2004	\$0.00	KM INDUSTRIES HOLDING CO INC	KELLY-MOORE PAINT COMPANY INC	Quit Claim Deed	Other
1945929	20030320000050	3/18/2003	\$500.00			Other - See Affidavit	(Unknown)
695309	198211120680	10/8/1982	\$0.00	PRESERVATIVE PAINT COMPANY INC	AERONAUTICAL MACHINISTS INC	Quit Claim Deed	(Unknown)

REVIEW HISTORY

Tax Year	Review Number	Review Type	Appealed Value	Hearing Date	Settlement Value	Decision	Status
2010	0903753	Local Appeal	\$5,544,100	1/1/1900	\$5,544,100	SUSTAIN	Completed
2009	0811332	Local Appeal	\$5,544,100	1/1/1900	\$5,544,100	SUSTAIN	Completed
2007	0601252	Local Appeal	\$5,014,800	1/1/1900	\$5,014,800	SUSTAIN	Completed
2006	64285	State Appeal	\$4,800,000	8/31/2006	\$4,800,000	SUSTAIN	Completed
2006	0501865	Local Appeal	\$5,014,800	1/1/1900	\$4,800,000	REVISE	Completed
1996	9500695	Local Appeal	\$2,174,400	1/1/1900	\$0		Completed





APPENDIX C

Boring Logs and Well Abandonment Records

Georgetown, Seattle, WA BORING LOCATION: Inside Building 2	GROUND		No. KMW-01
·		SURFACE ELEVATIO	ON AND DATUM:
DRILLING CONTRACTOR: Coccede Prilling Inc	Ground s DATE STA		DATE FINISHED:
DRILLING CONTRACTOR: Cascade Drilling, Inc.	3/23/11	DTIL (#).	3/23/11
DRILLING METHOD: Direct push	TOTAL DE 14.0	:ΡΙΗ (π.):	SCREEN INTERVAL (ft.): 3.61-13.39
DRILLING EQUIPMENT: Geoprobe 5400 (Limited Access Rig)	DEPTH TO		CASING:
	WATER:	5.5 NA BY:	3/4" Sched. 40 PVC
SAMPLING METHOD: Geoprobe macro-core sampler [3' x 1.5"]	S. Mikelio	:h	
HAMMER WEIGHT: NA DROP: NA	RESPONS N. Bache	SIBLE PROFESSIONA r	L: REG. NO. L.G. 2528
SAMPLES SAMPLES SAMPLES SAMPLES SAMPLES SAMPLES SURFACE NAME (USCS): color, moist, % by wt., plast. density, cementation, react. w/HCl, geo. inter. Surface Elevation: 19.37	·	WELL	CONSTRUCTION DETAILS D/OR DRILLING REMARKS
NAME (USCS): color, moist, % by wt., plast. density, cementation, react. w/HCl, geo. inter. Surface Elevation: 19.37			
0 CONCRETE FLOOR			raffic Box
SILTY GRAVEL with SAND (GM): black (2.5Y 2	2 5/1)	4 8	3" traffic grade
1 /\ moist, 50% fine to coarse gravel, 30% fine to coar		<u>설</u> 4	lushmount.
20% non-plastic silt		1444 1444 1444 1444 1444 1444 1444 144	3.0" diameter borehole
POORLY GRADED SAND with SILT (SP-SM): b		444 444 444	
2 (2.5Y 2.5/1), moist to wet, 90% fine to coarse sar non-plastic fines	na, 10%		Bentonite 3/8" chip seal
			Sometime of the sear
3			2/4# diamantan Oakandula 40
7		1.1.1	8/4" diameter Schedule 40 PVC casing
4			v o odomig
- X X			
5 scattered material with burned appearance			
6- 0.0 ↓ wet			
			2/12 filter pack sand
7			2/12 liller pack Sariu
8			
-			
9- 0.0		7 1	3/4" diameter, 0.010"
-		FIRE FIRE	continuous slot, Schedule 40 PVC screen
10-			
Cannot sample borehole deeper due to flowing sa	ands		
7			
12			
-			
13			
-			
14-		3	3/4" diameter, Schedule
14		4	10 PVC endcap
bottom of boring at 14 feet			
15	1		OAKWELLV (REV. 9/2007)
AMEC Geomatrix		Project No. 14697	Page 1 of 1

PROJE	CT:					mpany, Data Gaps Investigation		L	og of Well	No. K	MW-02	
BORIN	G LO					ilding 3			SURFACE ELEVAT	ION AND I	DATUM:	
DBILLI	NC C	TIAC	DACI				DATE		urface RTED:	DATE FINISHED:		
DRILLI						cade Drilling, Inc.	3/18/		11 3/18/11 _ DEPTH (ft.): SCREEN INTER			
DRILLI	NG M	/IETH	IOD:	Hollo	ow-ste	em auger	14.5	IL DEI	P1H (II.).	3.97-1	, ,	
DRILLI	NG E	QUIF	PMEN	T: L	imite	d Access Rig	DEPTI WATE		FIRST COMPI			
CANADI	1110		LIOD.				LOGG		5.5 NA BY:	2" Scn	ed. 40 PVC	
SAMPL	ING	IVIE I	HOD:	Split	-spoc	on drive sampler [18" x 2"]	S. Mil		h IBLE PROFESSION	141.	REG. NO.	
HAMM	ER W	/EIGI	HT: 1	40 lbs	3	DROP: 30"	N. Ba			IAL.	L.G. 2528	
DEPTH (feet)	Sample S	Sample		OVM Reading		DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, cementation, react. w/HCl, geo. inter.	structure,				RUCTION DETAILS LLING REMARKS	
	San	San	Blows/ Foot	R _O		Surface Elevation: 19.79						
0		\ /				CONCRETE FLOOR			444	Traffic Bo		
-		/				WELL GRADED SAND with SILT and GRAVEL (SW-SM):		4444	8" traffic of flushmou		
1-						black (2.5Y 2.5/1), moist, 60% fine to coarse san fine to coarse gravel, 10% non-plastic silt, 10% de				ilusiiiilou	116	
-	-	/					4444	8.0" diam	eter borehole			
2-	!	$\ \cdot\ $										
_	!	H	7 4	0.0					Bentonite	3/8" chip seal		
3		$\mid \rangle$	3			SILTY SAND (SM): dark reddish brown (5YR 3/3	B), moist					
_		X				to wet, 80% fine to medium sand, 20% non-plastic		+ + -		er Schedule 40		
4-		\mathbb{H}	9							PVC casi	ng	
_	2	$ \setminus $	9 12 10	0.0								
5	0311-	\times										
_	KMW-02-0311-5				\vdash	4						
6-	₹ .	$ \setminus $	9 10	0.0	*	wet						
_		\square	11									
7-		\mathbb{N}/\mathbb{I}								2/12 filter	pack sand	
_		X										
o-		\square										
8_			12 13	0.0								
		$ \cdot $	16			red staining (FeOx)						
9_										2" diamet	,	
			14 15	0.0						40 PVC s	s slot, Schedule	
10		$ \setminus $	18									
		$ \ $										
11	1	\square	15	0.0								
_		$ \setminus $	20 18									
12	1	$ \ $										
_	1	\square	15	0.0								
13	!	$ \cdot $	16 11									
_		\forall										
14					\perp	Flowing sands- cannot continuously sample any d	leeper.					
-		\bowtie			 	Bottom of boring at 14.5 feet		_		2" diamet PVC endo	er, Schedule 40 can	
15						Dottolli of Dolling at 14.0 loot				i vo endo	OAKWELLV (REV. 9/2007)	
		ΔΙ	MEC	C Ge	om	atrix		F	Project No. 14697		Page 1 of 1	
		<i>,</i> \			V 111	witi 1/1			•			

PROJE		elly Moo eorgeto			pany, Data Gaps Investigation	L	og of Well N	No. KMW-03
BORIN	G LOCA				T Area, East of building 10	GROUND Ground s	SURFACE ELEVATION	ON AND DATUM:
DRILLII	NG CON	NTRACT	OR:	Casca	de Drilling, Inc.	DATE STA 3/18/11		DATE FINISHED: 3/18/11
DRILLII	NG MET	THOD:	Hollo	w-stem	n auger	TOTAL DI	EPTH (ft.):	SCREEN INTERVAL (ft.):
					*	13.5 DEPTH TO	O FIRST COMPL.	3.64-13.42 CASING:
		JIPMEN [*]			Access Rig	WATER:	4.5 NA	2" Sched. 40 PVC
SAMPL	ING ME	ETHOD:	Split-	spoon	drive sampler [18" x 2"]	S. Mikeli	ch	DEO NO
HAMMI		GHT: 1	40 lbs		DROP: 30"	N. Bache	SIBLE PROFESSIONA er	L: REG. NO. L.G. 2528
DEPTH (feet)	Sample No.	Blows/ Foot	OVM Reading	١	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, stricementation, react. w/HCl, geo. inter.	ucture,		CONSTRUCTION DETAILS D/OR DRILLING REMARKS
0	Sa Sa	B B L	Ř		Surface Elevation: 18.64		24	
1 ⁻				1	No Recovery		44	Traffic Box 3" traffic grade dushmount.
2 ⁻		4 17 20	89.9	(2	POORLY GRADED SAND with SILT (SP-SM): blace 2.5Y 2.5/1), moist to wet, 80% fine to coarse sand, non-plastic fines, 5% fine gravel, 5% debris, strong compared to the same strong of the	10%	1	3.0" diameter borehole Bentonite 3/8" chip seal
3-		12 9 6	437					2" diameter Schedule 40 PVC casing
4 ⁻ - 5 ⁻		12 9 9	990	,	wet			
6 ⁻ - 7 ⁻		10 11 9	986	(2	POORLY GRADED SAND with SILT (SP-SM): blact 2.5Y 2.5/1), wet, 90% fine to coarse sand, 10% non-plastic fines, trace fine gravel, strong odor	k		2/12 filter pack sand
8 ⁻		12 14 15	648					2" diameter, 0.010" continuous slot, Schedule
9 ⁻ - 10 ⁻		12 13 16	230					40 PVC screen
11 ⁻		17 19 20	1178					
12 ⁻ - 13 ⁻		17 25 30	482					
14 — —				E	Bottom of boring at 13.5 feet			2" diameter, Schedule 40 PVC endcap
15								OAKWELLV (REV. 9/2007)
	Δ	MEC	Ge	oma	trix		Project No. 14697	Page 1 of 1

PROJE	ECT:		-	ore Pain		mpany, Data Gaps Investigation e, WA		Log of We	ll No. l	KMW-04	
BORIN	IG LO					/ corner of S Warehouse	GROUNI Ground	O SURFACE ELEVA surface	ATION AND	DATUM:	
DRILL	ING C	CONT	TRACT	OR:	Cas	cade Drilling, Inc.	DATE ST 3/17/11		DATE 3/17	FINISHED: /11	
DRILL	ING M	1ETH	HOD:	Hollo	w-st	em auger		TOTAL DEPTH (ft.): SCREEN INTER			
DRILL	ING E	QUII	PMEN	T: Li	mite	d Access Rig		TO FIRST CON 4.8 NA	IPL. CASI		
SAMP	LING	MET	HOD:	Split-s	spoc	on drive sampler [18" x 2"]	LOGGED S. Mikel	BY:	12 0	5110d. 101 V C	
HAMM	IER W	/EIG	HT: 1	40 lbs		DROP: 30"		ISIBLE PROFESSI	ONAL:	REG. NO. L.G. 2528	
DEPTH (feet)		HAMPI B B		OVM Reading		DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, stricementation, react. w/HCl, geo. inter.				TRUCTION DETAILS RILLING REMARKS	
DEI (fe	Sample No.	Sample	Blows/ Foot	Rea		Surface Elevation: 18.64		+			
0		\ /				No Recovery- Asphalt		444	- Traffic E		
1 ⁻		X		-		SILTY SAND (SM): black (2.5Y 2.5/1), moist, 80% to coarse sand, 20% non-plastic fines, trace fine graves.		1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8" traffio	-	
-	1-2	\vdash	15			SILTY SAND (SM): black (2.5Y 2.5/1), moist to we	et,		— 8.0" dia	meter borehole	
2	KMW-04-0311-2		15 16			80% fine to coarse sand, 20% non-plastic fines, stroodor	ng		— Bentoni	ite 3/8" chip seal	
3	X M	X	12								
-			12 12 12						— 2" diam PVC ca	eter Schedule 40	
4	311-4.5	X							. 70 00	9	
5	KMW-04-0311-4.5		5 5 10		T	wet					
-	_ ₹	\nearrow									
6			5 4								
7		\bigvee	5						— 2/12 filt	er pack sand	
-			3 5						— 2" diam	eter, 0.010"	
8 -		$ \ $	10							ous slot, Schedule	
9-	-	\times	5						401 VC	, 30,6611	
40=			6 7								
10	-		10								
11	1	$\left \cdot \right $	10 10 10								
- 12 ⁻	1										
14	-	\setminus	8 9 10								
13	1	$ \ $	10		 	Sand content increases to 90% at 13 feet				eter, Schedule 40	
Bottom of boring at 13.5 feet]] '	PVC en	acap	
-	-										
15								<u> </u>		OAKWELLV (REV. 9/2007)	
		Al	ME(Ge	om	atrix		Project No. 14697	·	Page 1 of 1	

PROJE	ECT:		•	ore Pair		mpany, Data Gaps Investigation		Lo	g of	f Well	No. Ł	KMW-05
BORIN	IG LO					ST Area				E ELEVATI	ON AND	DATUM:
							Ground DATE S				DATE	FINISHED:
JRILL	ING C	ONI	RACT	OR:	Caso	cade Drilling, Inc.	3/17/11				3/17/	
DRILL	ING M	/IETH	IOD:	Hollo	w-ste	em auger	TOTAL I	DEPT	H (ft.):			EN INTERVAL (ft.): 12.74
) RII I	ING F	OUIF	PMEN	T· li	imite	d Access Rig	DEPTH			COMPL	CASI	NG:
							WATER LOGGEI		1	NA	2" Sc	ched. 40 PVC
SAMP	LING	MET	HOD:	Split-	spoo	n drive sampler [18" x 2"]	S. Mike	elich				
IAMN	IER W	/EIG	HT: 1	40 lbs		DROP: 30"	RESPOR		_E PR(OFESSION	AL:	REG. NO. L.G. 2528
DEPTH (feet)	Sample No.	Sample		OVM Reading		DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, stru cementation, react. w/HCl, geo. inter.	•					RUCTION DETAILS RILLING REMARKS
Д Т	Sam	Sam	Blows/ Foot	Se o		Surface Elevation: 18.88						
0						CONCRETE FLOOR		+	ψ. <u>Ψ</u> .		Traffic B	
-	1	$ \bigvee $				SILTY SAND with GRAVEL (SM): dark grayish brow	n	-	444	 	8" traffic	-
1	1	/				(2.5Y 4/2), moist, 70% fine to coarse sand, 20%		-	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4.4.4	flushmo 8 0" diar	unt. meter borehole
-	311-2		30	0.0		non-plastic fines, 10% fine to coarse gravel		-				te 3/8" chip seal
2	KMW-05-0311-2		17	0.0				-				·
-	X W W	\rightarrow	30					-		1//	PVC cas	eter Schedule 40 sina
3	2	\bowtie						-				3
_	KMW-05-0311-3.5		17 15	0.0				-				
4-	/-02-0:		12			lense of burned material, mostly wood		_ _				
4	KM	\boxtimes			Ţ	wet		_				
			8 6	0.0	*							
5		$ \ $	6			POORLY GRADED SAND with SILT (SP-SM): black						
-						(2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, non-plastic fines	10%					
6			12	0.0		, p. 1.1.		-				
-		$ \setminus $	12 18					-				
7		$ \ $						-			2/12 filte	er pack sand
-	1	\Box	18	0.0				-				
8	1	$ \setminus $	20 24					-			2" diame	eter, 0.010"
-	-	$ \ $				POORLY GRADED SAND with SILT (SP-SM): black	·	- -		∃ ः :4		ous slot, Schedule
9	-		40	0.0		(2.5Y 2.5/1), moist to wet, 90% fine to medium sand,		-			40 PVC	screen
-	-	$ \setminus $	13 18	0.0		fine gravel, 5% non-plastic fines		-				
10	-	$ \cdot $	40					-				
-	-	\square						-				
11	1	$ \cdot $	7 12	0.0		5		_				
-	1	$ \cdot $	30		止	Red staining (FeOx)		_				
40-								_				
12		$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $			\	Cannot sample borehole deeper due to flowing sands	3.					
		$ \chi $										
13								-			2" diame	eter, Schedule 40
Bottom of boring at 13.5 feet								_ -			PVC en	
14	1							-				
-	1							-				
15		<u> </u>										OAKWELLV (REV. 9/200
		Al	MEC	Ge	om	atrix		Pro	ject N	o. 14697		Page 1 of 1

PROJECT: Kelly-Moore Paint Company Georgetown, Seattle, WA										Log of E	Bori	ng No.	KM-6	
BORIN						ling dock				1	ON AND DATU		around o	urface
						rilling, Inc.				DATE ST 8/7/09	veyed; datur ARTED:	11 15	DATE FIN 8/7/09	
DRILLII				Direct		<u> </u>				TOTAL D	EPTH (ft.):		NG POINT:	
10.0											FIR	Ground ST	surface COMPL.	
DRILLING EQUIPMENT: Power Probe 9630 Pro-D DEPTH TO WATER (ft.) LOGGED BY:												5.5		NA
SAMPL	ING M	/IETH	HOD:	Geoprob	e macro	-core samp	oler [4' x 1.	5"]		C. Brov	vn			
HAMMI	ER WI	EIGH	IT:	NA		DROP: NA RESPONSIBLE PRO N. Gray					SSIOI	NAL:	REG. NO. L.G. 2557	
DEPTH (feet)	Sample No.	Recovery 14	Blows/ M Foot	OVM READING (ppm)		NAME (USC	CS): color, r	DESCRIPTION moist, % by wt. on, react. w/HC	, plast. dens	ity, structui	re,		F	REMARKS
	Sa	Rec	В.	R.			Surfa	ace Elevation:	Not Su	rveyed				
_				23		NCRETE								ed from 0 to 0.5 sing a concrete
1- - 2-	KM-6-0809-2			144	dar		e to coarse	D (SP): dark e sand, 5% fin				_ _ _	corer. OVM=Pho calibrated	toVAC 2020 PID with 100 ppm e standard.
3-														
_	4		,	688	_							_		
4-	KM-6-0809-4	X			♦ ver	y dark gray	(10YR 3/1)						
_)-9-W													
5-	ㅈ			595										
_					_									
6-				158	♦ we	t								
_														
7-				25										
_			•											
8-		X	1											
_														ch II driven from Sleeve retracted
9-												_		rpose screen 14'. Sample
_												-		9-W collected.
10 –												-	Danina a a	lanced fram
_												-	10-14'.	logged from
11-														
_														
12-														
_														
13-											-			
-											Dorobola -	octroved using		
14 –	Bottom of boring at 14.0 feet.											+	bentonite o	estroyed using chips placed from
_	-											-	ground sur hydrated v	
15 —														OAKBOREV (REV. 8/2007)
		ΑI	ME	C Geom	atrix						Project No. 14	697.0	000	Page 1 of 1

PROJE			lly-M eorge	Log of E	g of Boring No. KM-7						
BORIN				Building		ELEVATION AND DATU		around si	ırface		
DRILLI	NG CC		DATE FINISHED: 8/7/09								
DRILLI	NG ME		MEASURING POINT: Ground surface								
DRILLI	NG EC	QUIF	PMEN	T: Power	Probe 9630 Pro-D	DEPTH TO WATER (ft.)	FII 8.	RST	COMPL.		
SAMPL	.ING M	1ET	HOD:	Geoprob	e macro-core sampler [4' x 1.5"]	LOGGED BY: C. Brown					
HAMMI				NA	DROP: NA	RESPONSIBLE PROFE N. Gray	SSIC	DNAL:	REG. NO. L.G. 2557		
DEPTH (feet)	BAR 음	Recovery 1		OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. der cementation, react. w/HCl, geo. inte	nsity, structure,		F	REMARKS		
DE	Sample No.	Seco	Blows/ Foot	O REA (p		Surveyed	\dashv				
		Ť			CONCRETE			Boring cored from 0 to 0.5			
1- - 2-	KM-7-0809-2			1119 1073	SILT with SAND (ML): black (N 2.5/), moist, 80 th sand, low plasticity, charcoal-like appearance	% fines, 20% fine		feet bgs using a concrete corer. OVM=PhotoVAC 2020 P calibrated with 100 ppm Isobutylene standard.			
3- -	KM-7			28	POORLY GRADED SAND (SP): black (N 2.5/), coarse sand, 10% fine and coarse gravel, 5% no		 - -				
4- 5- 6- 7-	7-0809-7			512 47 293	rusty colored weathering WELL GRADED SAND with SILT (SW-SM): da moist, 90% fine to coarse sand, 10% low-plastici		- - - - -				
-	KM-7			398			-				
8- 9- 10- 11- 12- 13- 14-					▼ wet		- - - - - - - -	10 to 14'. S 4 feet to ex from 10 to KM-7-080S Boring not 10-14'.	ch II driven from Sleeve retracted chose screen 14'. Sample 9-W collected. logged from lestroyed using chips placed from		
_					Bottom of boring at 14.0 feet.		-	ground sur hydrated w	face, and		
15-		_							OAKBOREV (REV. 8/2007)		
		A	ME(C Geom	atrix	Project No. 14	1697.	000	Page 1 of 1		

PROJECT: Kelly-Moore Paint Company Georgetown, Seattle, WA						Log of Boring No. KM-8									
BORING				Building					ELEVATION AND DATUM: Not surveyed; datum is ground surface						
DATE STARTED:										DATE FINISHED: 8/7/09					
TOTAL DEPTH (#):									FDTH (# \·		NG POINT:				
DRILLING METHOD: Direct push 10.0									/LF 111 (II. <i>)</i> .		Ground	surface			
DRILLING EQUIPMENT: Power Probe 9630 Pro-D DEPTH TO WATER										FIF 8.0		COMPL.			
SAMPLIN	IG M	ETH	IOD:	Geoprob	e macro-	core sampler	[4' x 1.5"]		LOGGED C. Brov	vn					
HAMMEF	R WE	IGH	IT:	NA		DROP: N	IA		RESPON N. Gray	ISIBLE PROFES /	SSIOI	NAL:	REG. NO. L.G. 2557		
DEPTH (feet) Sample No. Recovery Blows/ Foot OVM READING (ppm)				OVM READING (ppm)	١	NAME (USCS)	DESCRIPTIO : color, moist, % by wt ementation, react. w/H0	., plast. dens	ity, structur	re,		F	REMARKS		
	, n	Rec	8 4	32			Surface Elevation: Not Surveyed								
1- 2- 3- 3- 4- 5- 6- 7- 8- 9-	KM-8-0809-7 KM-8-0809-2			0 0 0 321 1327 1859	SIL1 sand	d, low plastici	(ML): black (N 2.5/), ty, burned charcoal lil SAND (SW): dark b nd, 5% non-plastic fin	moist, 80% ke appearan	fines, 20%			feet bgs us corer. OVM=Pho calibrated Isobutylen. Hydropunc 10 to 14'. 3 4 feet to exfrom 10 to	ed from 0 to 0.5 sing a concrete toVAC 2020 PID with 100 ppm e standard. Shill driven from Sleeve retracted knose screen 14'. Sample 9-W collected.		
10											_ _ _ _ _	10-14 ¹ . Borehole of	logged from		
14 7					Bott	tom of boring	at 14.0 feet.					ground sur hydrated v	rface, and		
15												.,	OAKBOREV (REV. 8/2007)		
		ΑN	1E (C Geom	atrix					Project No. 14	697.0	000	Page 1 of 1		

PROJECT: Kelly-Moore Paint Company Georgetown, Seattle, WA						Log of Boring No. KM-9								
BORIN	G LOC	CATI	ON:	Building	8 West				ELEVATION AND DATUM: Not surveyed; datum is ground surface					
									DATE ST		15	ISHED:		
								8/5/09	NEDTIL (#).		8/5/09	NG POINT:		
DRILLING METHOD: Direct push								10.0	DEPTH (ft.):		Ground	surface		
DRILLING EQUIPMENT: Power Probe 9630 Pro-D								DEPTH T	ا TO WATER (ft.)	FIR 7.0	ST)	COMPL. NA		
SAMPL	ING M	1ETH	HOD:	Geoprob	e macro-	core samp	oler [4' x 1.5"]		LOGGED C. Brov					
HAMMI	ER WE	EIGH	IT:	NA		DROP:	NA			ISIBLE PROFESS	IOI	NAL:	REG. NO. L.G. 2557	
DEPTH (feet)	Sample No.	Recovery 14	Blows/ S Foot	OVM READING (ppm)	-	NAME (USO	CS): color, moi cementation,	SCRIPTION st, % by wt., plast. dens react. w/HCl, geo. inter. Elevation: Not Su	ity, structu		_	F	REMARKS	
		<u> </u>					ADED SAND (SP): dark brown (10)	YR 3/3), m	noist, 90%	П		ed from 0 to 0.5	
1- 2- 3- 3- 4- 5- 6- 7- 8- 9- 10- 11- 12- 13- 14-	KM-9-0809-7 KM-9-0809-2			0 0 12 14				gravel, 5% non-plastic		odor		Corer. OVM=Photocalibrated Isobutylen. Hydropund 10 to 14'. 3' 4 feet to exfrom 10 to KM-8-0809. Boring not 10-14'.	ch II driven from Sleeve retracted cose screen 14'. Sample 9-W collected. logged from	
_					Bot	tom of bori	ng at 14.0 feet				-	ground sur hydrated v	rface, and	
15 –												.,	OAKBOREV (REV. 8/2007)	
		ΑI	ME	C Geom	atrix					Project No. 1469	97.0	100	Page 1 of 1	

PROJECT: Kelly-Moore Paint Company Georgetown, Seattle, WA						Log of Boring No. KM-10							
							ELEVATION AND DATUM:						
				Dananig	•			datum is ground surface DATE FINISHED:					
DRILLII	NG CO	TNC	RACT	ror: Cas	cade Drilling, Inc.	DATE ST 8/6/09			8/6/09				
DRILLII	NG MI	ETH	OD:	Direct	push	10.0	EPTH (ft.):		Ground				
DRILLII	NG EC	QUIF	MEN	T: Power	Probe 9630 Pro-D	DEPTH T		FIR 8.0		COMPL.			
SAMPL	ING M	/ETI	HOD:	Geoprob	e macro-core sampler [3' x 1.5"]	LOGGED C. Brov				,			
HAMMI	ER WI	EIGH	HT:	NA	DROP: NA	RESPONSIBLE PROFESSIONAL N. Gray			NAL:	REG. NO. L.G. 2557			
DЕРТН (feet)	Cfeet) (feet) Sample No. Recovery Blows/ Foot OVM READING (ppm)				DESCRIPTION NAME (USCS): color, moist, % by wt., plast. dens cementation, react. w/HCl, geo. inter.	sity, structur			REMARKS				
	S	N.		ш.		ırveyed		Н	Davids and a second	- d for 0 to - 0 F			
_					CONCRETE			_		ed from 0 to 0.5 sing a concrete			
1- - 2-	KM-10-0809-2		1	348 1040	POORLY GRADED SAND (SP): dark brown (10) fine to coarse sand, 10% fine and coarse gravel, 5 wood fragments in shoe			_	corer. OVM=Photoalibrated v	otoVAC 2020 PID with 100 ppm le standard.			
3-		X	V	564	POORLY GRADED SAND (SP): dark brown (10' fine to coarse sand, 5% non-plastic fines, contains			_					
4- - 5-	-5.5			167				_					
_	KM-10-0809-5.			171				_					
6-	KM-			380				_					
7-								_					
_				175				_					
8- -				422	wet, dark gray			_	10 to 14'. S	ch II driven from Sleeve retracted			
9-		\parallel		412			-	from 10 to	expose screen o 14'. Sample o 19-W collected.				
10-				22				_					
_								-	Boring not 10-14'.	logged from			
11-								-					
_								-					
12-								-					
_								_					
13-								-					
_								-	Borehole d	estroyed using			
14 –					Bottom of boring at 14.0 feet.			$\left - \right $	bentonite o	hips placed from			
_					Bottom of boiling at 17.0 lock.			-	ground sur hydrated w				
15 —								ш		OAKBOREV (REV. 8/2007)			
		A	ME	C Geom	atrix		Project No. 1469	97.0	000	Page 1 of 1			

PROJECT: Kelly-Moore Paint Company Georgetown, Seattle, WA								Log of Boring No. KM-11						
				-		· · · · · · · · · · · · · · · · · · ·	ELEVATI	ON AND DATUM	TUM:					
BORING	3 LOC	CATI	ON:	Building	/		Not sur	veyed; datum		s ground surface DATE FINISHED:				
DRILLING CONTRACTOR: Cascade Drilling, Inc. DATE STARTI 8/6/09														
DRILLING METHOD: Direct push TOTAL 10.0								EPTH (ft.):		Ground	NG POINT: surface			
DRILLING EQUIPMENT: Power Probe 9630 Pro-D DEPTH TO WATER (ft.)									FIR 8.0		COMPL.			
SAMPL	ING M	/ETH	HOD:	Geoprob	e macro-	core sampler [3' x 1.5"]	LOGGED C. Brow	BY:			•			
HAMME	ER WI	EIGH	IT:	NA		DROP: NA	RESPONSIBLE PROFESS N. Gray			NAL:	REG. NO. L.G. 2557			
DEPTH (feet)		Very		OVM READING (ppm)	!	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. densi cementation, react. w/HCl, geo. inter.	t. density, structure,			F	REMARKS			
	Sample No.	Recovery	Blows/ Foot	REA (P			novod							
_		1			CO	Surface Elevation: Not Surface Elevation: Not Surface Elevation:	rveyeu		+	Boring core	ed from 0 to 0.5			
1- - 2-	KM-11-0809-2.5			0	PO to c	ORLY GRADED SAND (SP): brown (10YR 5/stoarse sand, 5% non-plastic fines % fine to coarse sand, 5% fine and coarse graves, possibly burnt debris, charcoal-like streak	,		_	feet bgs us corer. OVM=Pho calibrated	toVAC 2020 PID with 100 ppm e standard.			
3- 4- 5-	Υ.		<u> </u>	0 0		ORLY GRADED SAND (SP): dark brown (10) to coarse sand, 5% non-plastic fines	YR 3/3), m	ioist, 95%	_ _ _ _ _					
- 6- 7- -	KM-11-0809-7			0					- - -					
8- - 9- 10- - 11- - 12- - 13- - 14-				0		ty colored weathering tom of boring at 14.0 feet.				10 to 14'. \$4 feet to exfrom 10 to KM-11-080 Boring not 10-14'.	ch II driven from Sleeve retracted coose screen 14'. Sample 19-W collected. Ilogged from estroyed using thips placed from face and			
45										hydrated w				
15											OAKBOREV (REV. 8/2007)			
AMEC Geomatrix Project No. 146								97.0	00	Page 1 of 1				

PROJE				oore Pair	at Company attle, WA	Log of I	3ori	ing No.	KM-12
BORIN	G LOC	CATI	ION:	Building	9 loading dock	ELEVATION AND DAT Not surveyed; date		s around s	urface
DRILLII	NG CO	TNC	RACT	OR: Cas	cade Drilling, Inc.	DATE STARTED: 8/7/09	<u></u>	DATE FIN 8/7/09	
DRILLII	NG MI	ETH	OD:	Direct	push	TOTAL DEPTH (ft.): 10.0		MEASUR	ING POINT: surface
DRILLII	NG EC	QUIF	PMEN	T: Power	Probe 9630 Pro-D	DEPTH TO WATER (ft) FI	RST	COMPL. NA
SAMPL	ING M	/ETI	HOD:	Geoprob	e macro-core sampler [4' x 1.5"]	LOGGED BY:			107
HAMMI	ER WI	EIGI	HT:	NA	DROP: NA	RESPONSIBLE PROF	ESSIC	DNAL:	REG. NO. L.G. 2557
Η _Ω		MPL		NG C	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. den	-			REMARKS
DEPTH (feet)	Sample No.	Recovery	Blows/ Foot	OVM READING (ppm)	cementation, react. w/HCl, geo. inter	·.			
	o)	N.	-	<u> </u>	Surface Elevation: Not S CONCRETE	urveyed		Boring cor	red from 0 to 0.5
_				0	POORLY GRADED SAND (SP): very dark grayi	sh brown (10YR		feet bgs u	sing a concrete
1-					4/2), moist, 95% fine to coarse sand, 5% non-pla		_	corer.	otoVAC 2020 PID
_	KM-12-0809-2			0			_	calibrated	with 100 ppm
2-	-12-0						_	Isobutylen	e standard.
_	Σ Ž						_		
3-		Щ	1	0	T # /40/55/4		_		
_		V			moist, yellowish brown (10YR 5/4), some iron oxi- grained sediment	de staining on coarse	_		
4-		\triangle			g				
	9-2								
_	-080			0					
5-	KM-12-0809-5								
_	Α				→ wet				
6-				11.3	fine well graded sand		_		
_							_		
7-				0	dark gray (10YR 4/1)		-		
_					duit gray (1011(4,1)		_		
8-			1	0			-	Hydropun	ch II driven from
_							-	10 to 14'.	Sleeve retracted
9-				0			_		xpose screen 14'. Sample
-				_			-		09-W collected.
10 —		Ш		0			_	Doring a -	logged from
_							_	Boring not 10-14'.	logged from
11 –							_		
_									
12-									
12									
13 –									
_							-	Borehole of	destroyed using
14 –					Bottom of boring at 14.0 feet.		-	bentonite	chips placed from
-							-		rface, and with water.
15 –									OAKBOREV (REV. 8/2007)
		Α	ME(C Geom	atrix	Project No. 1	4697.	.000	Page 1 of 1

PROJE	CT:	Kel Geo	ly-M orge	oore Pain town, Sea	nt Company attle, WA		Log of Bo	rir	ng No. I	KM-13
BORING	3 LOC	CATIO	ON:	Building	12		ON AND DATUM veyed; datum		ground su	urface
DRILLIN	NG CC	ONTF	RACT	OR: Cas	scade Drilling, Inc.	DATE ST 8/6/09	ARTED:	13	DATE FINI 8/6/09	
DRILLIN	NG ME	ETHO	DD:	Direct	push		EPTH (ft.):		MEASURIN Ground	
DRILLIN	NG EC	UIP	MEN ⁻	T: Power	Probe 9630 Pro-D		() \ \ \ \ \ \ \ LLD \ /++ \ \	FIR NA	ST	COMPL.
SAMPL	ING M	1ETH	IOD:	Geoprob	e macro-core sampler [4' x 1.5"]	LOGGED C. Brov	BY:		-	
HAMME	R WE	EIGH	IT:	NA	DROP: NA		SIBLE PROFESS	IOI	NAL:	REG. NO. L.G. 2557
DEPTH (feet)	Sample No.	Recovery 17	Blows/ 🖔 Foot	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. den cementation, react. w/HCl, geo. inter	ısity, structur			R	EMARKS
	Š	Re	<u>В</u> _	∝	Surface Elevation: Not S CONCRETE	urveyed			Davis	- I for any O to O 5
1- - 2-	KM-13-0809-2			0	POORLY GRADED SAND with GRAVEL (SP): moist, 80% fine to coarse sand, 15% fine and coanon-plastic fines Boring refusal at 2.0 feet, due to concrete.				feet bgs us corer. OVM=Phot calibrated v Isobutylene Borehole de bentonite c	estroyed using hips placed from
3- - 4- -								_ _ _	ground sur hydrated w	
5- -								- -		
6-								_		
7-								_		
8-								_		
9-								_ _		
								_		
10 –								- -		
11-								_		
12-								- -		
-								-		
13-								<u> </u>		
14 –								-		
15										
		ΔΝ	иF	C Geom	atrix		Project No. 1469	97.0	00	Page 1 of 1

PROJE				loore Pair					Log of B	orir	ng No.	KM-14
BORING				Building					ON AND DATU veyed; datur		around e	ırfaco
DRILLIN	NG CC	DNT	RACT	OR: Cas	scade Dr	rilling, Inc.		DATE ST 8/6/09		11 15	DATE FIN 8/6/09	
DRILLIN	NG ME	ETH	OD:	Direct	push			TOTAL D	EPTH (ft.):		MEASURI Ground	NG POINT:
DRILLIN	NG EC	QUIP	MEN	T: Power	r Probe 9	630 Pro-D			O WATER (ft.)	FIR	ST	COMPL.
SAMPL	ING M	1ETH	HOD:	Geoprob	e macro-	core sampler [5' x 1.5"]		LOGGED		<u> </u>)	INA
HAMME				NA		DROP: NA		1	SIBLE PROFES	10128	NAL:	REG. NO.
DEPTH (feet)		Very		OVM READING (ppm)		DESCF NAME (USCS): color, moist, %	RIPTION by wt., plast. densi t. w/HCl, geo. inter.	N. Gray			F	L.G. 2557
	Sample No.	Recovery	Blows/ Foot	O REA (p		Surface Elev		rveved		+		
		Ť			СО	NCRETE	ation. Hot ou	. 10,00				ed from 0 to 0.5
1- - 2- -	KM-14-0809-2			0 0 0	fine	ORLY GRADED SAND (SP) to coarse sand, 10% fine and the iron oxide staining on coarse	gular gravel, 5% n	on-plastic		- - - - -	corer. OVM=Pho calibrated	sing a concrete stoVAC 2020 PID with 100 ppm e standard.
3- 4- 5-					Fill,	crushed concrete, dry, dusty	 v with rounded fine	 gravel		- - - - -		
6- -	-14-0809-7			6.8 20	70%	TY SAND with GRAVEL (SM % fine to coarse sand, 15% fir sticity fines				_		
7-	41-MX				√ wet	, 20% fine and coarse gravel,	, trace wood debris	s				
8- - 9- 10- 11- - 12- - 13- - 14-				45 206 82	coa	TY SAND (SM): very dark grees and, 15% low plasticity for the sand, 15% low plasticity for the sand			ne to		10 to 14'. S 4 feet to ex from 10 to KM-14-080 Boring not 10-14'.	
15											hydrated w	
		ΑI	ME	C Geom	natrix				Project No. 14	697.0	000	Page 1 of 1

PROJE					Paint Comp Seattle, W						Log of Bo	orii	ng No.	KM-15
BORIN	G LOC	CATI	ON:	Build	ina 5						ON AND DATUN			,
				Dana	90						veyed; datum	ı is		
DRILLII	NG CC	DNT	RACT	OR: (Cascade D	rilling, Inc	C .			DATE ST 8/6/09			DATE FIN 8/6/09	
DRILLII	NG ME	ETH	OD:	Dir	ect push					10.0	PEPTH (ft.):		Ground	
DRILLII	NG EC	QUIP	PMEN	T: Po	wer Probe 9	9630 Pro-E)			DEPTH T	O WATER (ft.)	FIR 7.0	ST)	COMPL. NA
SAMPL	ING M	1ETH	HOD:	Geop	robe macro	-core sam	pler [5' x 1.	.5"]		LOGGED C. Brov				
HAMMI	ER WE	EIGH	HT:	NA		DROP:	NA			RESPON N. Gray	ISIBLE PROFES /	SIOI	NAL:	REG. NO. L.G. 2557
DЕРТН (feet)	Sample No.	Recovery 1	Blows/ Si Foot	OVM READING	(mdd)	NAME (US	cementati	DESCRIPTION DESCRI	vt., plast. densi ICI, geo. inter.		re,		F	REMARKS
		۲				ONCRETE	Juli	iace Lievation	i. 140t Sui	veyeu		\forall	Boring cor	ed from 0 to 0.5
1- 2-				0	PC (N	ORLY GR 2.5/), mois	st, 55% fine	ND with SILT to coarse sa ontains burnt	and GRAVEI and, 35% fine material	_ (SP-SM and coars): black se gravel,		feet bgs us corer. OVM=Pho calibrated	toVAC 2020 PID with 100 ppm e standard.
3- 4- 5-	5 KM-15-0809-4			0					-k gray (10YR	4/1), moi	ist, 95%	_ _ _ _		
6-	809-6.5						nd sawdust		point 65% fine	200/ fi	no aand	-		
7- - 8-	KM-15-0809-6			0	PC we	6 fine grave OORLY GR et, 95% fine	ADED SAN	icity ND (SP): dar	noist, 65% fine rk grayish bro n-plastic fines	wn (10YR	R 4/2),	- - - -		
9- 10-												_ _ _	10 to 14'. \$ 4 feet to ex from 10 to	ch II driven from Sleeve retracted opose screen 14'. Sample 09-W collected.
11-												_ _	Boring not 10-14'.	logged from
_														
12-												-		
_												-		
13-														
_												-	Borehole d	lestroyed using
14 –					D -	ttom of bee	ing of 14 C	foot				+	bentonite o	chips placed from
_					Bo	ILOITI OT DOF	ing at 14.0	ieel.				-	ground sur hydrated w	
15 –												Ш		OAKBOREV (REV. 8/2007)
		ΑI	ME	C Ge	omatrix						Project No. 146	97.0	100	Page 1 of 1

	-Moore Pair getown, Se	nt Company attle, WA	Log of Bo	oring No. k	KM-16
BORING LOCATION	: Building	3	ELEVATION AND DATUM Not surveyed; datum		rface
DRILLING CONTRA	CTOR: Cas	scade Drilling, Inc.	DATE STARTED: 8/6/09	DATE FINIS	
DRILLING METHOD	: Direct	push	TOTAL DEPTH (ft.): 10.0	MEASURIN Ground s	
DRILLING EQUIPMI	ENT: Power	Probe 9630 Pro-D	DEPTH TO WATER (ft.)	FIRST 9.0	COMPL.
SAMPLING METHO	D: Geoprob	e macro-core sampler [5' x 1.5"]	LOGGED BY: C. Brown		
HAMMER WEIGHT:	NA	DROP: NA	RESPONSIBLE PROFES N. Gray	SIONAL:	REG. NO. L.G. 2557
Sample Solution (feet) No. No. Recovery Blows/	Foot OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. den cementation, react. w/HCl, geo. inte	sity, structure, r.	RI	EMARKS
Re Se	_ ~		urveyed	Doring core	d from 0 to 0 F
1 - 2 - 4 - 1 - 5 - 6 - 7 - 1 - 8 - 1 - 7 - 7 - 8 - 1 - 7 - 7 - 8 - 1 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7	0 0	POORLY GRADED SAND with GRAVEL (SP): 75% medium to coarse sand, 20% fine gravel, 5% contains burnt brick fragments, some iron oxide s grained sediments WELL GRADED SAND (SW): dark brown (10Y fine to coarse sand, 5% non-plastic fines, trace results.	% non-plastic fines, staining on coarse	feet bgs us corer. OVM=Photo	d from 0 to 0.5 ng a concrete DVAC 2020 PID vith 100 ppm standard.
9- - 10- - 11- - 12- - 13- - 14- - 15	FC Geom	Bottom of boring at 14.0 feet.	Project No. 146	Borehole de bentonite cl ground surf hydrated wi	9-W collected. ogged from estroyed using hips placed from ace, and

PROJECT:			Moore Pai getown, Se				Log of B	orir	ng No.	KM-17
BORING L	OCA	ATION	: Building	3			EVATION AND DATU ot surveyed; datu		around si	ırface
DRILLING	COI	NTRA	CTOR: Cas	scade D	rilling, Inc.	DA	TE STARTED: 2/23/09		DATE FIN 12/23/09	ISHED:
DRILLING	ME	ГНОD	: Direct	push			TAL DEPTH (ft.):			NG POINT:
DRILLING	EQI	JIPME	NT: Powe	r Probe 9	630 Pro-D		PTH TO WATER (ft.)	FIR 8.0	ST	COMPL.
SAMPLING	G ME	THO	D: Geoprob	e macro	-core sampler [4' x 1.5"]		GGED BY:		,	INA
HAMMER '	WEI	GHT:	NA		DROP: NA	RE	SPONSIBLE PROFE	SSIO	NAL:	REG. NO.
_		Sample Sample Blows/	6 inches OVM READING (ppm)		DESCRIPTION NAME (USCS): color, moist, % by wt., cementation, react. w/HCl.	I plast. density, s	Gray tructure,		F	L.G. 2557
1 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1			0 0/0 (HS) 0 0 0/0 (HS) 0	dal sal cru	Surface Elevation: DORLY GRADED GRAVEL with SILT k gray (10YR 3/1), moist, 60% fine g nd, 10% non-plastic fines Ished rock DORLY GRADED SAND (SP): dark to to coarse sand, 5% non-plastic fines to coarse sand, 5% non-plastic fines	pravel, 30% fine	e to coarse		calibrated isobutylene Headspace collected in Stainless sampler (Offrom 7.5 to retracted 4 screen from Groundware)	steel hydropunch .010 slot) driven o 11.5'. Sleeve feet to expose m 7.5 to 11.5'.
14-								_ _ _		
		45	Geom	striv			Project No. 14	1007.0	.00	Page 1 of 1

PROJEC				oore Pair				Log	of Bori	ng No	. KM-18
BORING				Building				ELEVATION AND Not surveyed;		around	surface
DRILLIN	G CC	TNC	RACT	OR: Cas	cade D	rilling, Inc.		DATE STARTED:		DATE F	INISHED:
DRILLIN				Direct				12/23/09 TOTAL DEPTH (ft	.):		RING POINT:
						0000 Dra D		12.0 DEPTH TO WATE	FIF	<u> Groun</u> RST	d surface COMPL.
						630 Pro-D		LOGGED BY:	^{.R (π.)} 8.0	0	NA
SAMPLI	NG M	1ETH	HOD:	Geoprob	e macro	-core sampler [4' x 1.5"]		C. Brown			
HAMMEI	R WE	EIGH	łT:	NA		DROP: NA		RESPONSIBLE PIN. Gray	ROFESSIO	NAL:	REG. NO. L.G. 2557
DEРТН (feet)	Sample S No.	Sample 1	Blows/ S S inches	OVM READING (ppm)		DESCRIPTI NAME (USCS): color, moist, % by v cementation, react. w/l	wt., plast. densi	ity, structure,			REMARKS
	Sar	Sar	Blc in	RE,		Surface Elevation	n: Not Su	rveyed			
				0		ORLY GRADED GRAVEL with Sist, 60% fine gravel, 35% fine to c			s –		
1-				1.1/0.0 (HS)	□ [_] bla	ckened slag			-		
2-	KM-18-4-1209			1.2		OORLY GRADED SAND (SP): ve % fine to medium sand, 5% non-p		10YR 3/1), moist,		calibrate	hotovac 2020i PID d with 100 ppm
3-	KM-18	X							_	Headspa	ene standard. ace (HS) readings I in baggie.
4-			<u> </u>	1.3					_		
5-				2.2/0.1 (HS)	⊐– _{sm}	all wood piece, light sheen and od	lor		_		
6				1.9					_		
7-									_		
8-		<u>/_\</u>	<u> </u>		T				_	sampler	s steel hydropunch (0.010 slot) driven
9-				0	♦ we	ı			_	retracted screen fi	to 11.5'. Sleeve I 4 feet to expose rom 7.5 to 11.5'. vater sample
10-				0/0 (HS)					_		V-1209 collected.
11-									-		
-				0							
12-						ttom of boring at 12.0 feet bgs. Bo ntonite chips.	orehole abando	oned with hydrated			
13-									_		
14-									-		
15											OAKBOREV (REV. 8/2007)
	Α	M	EC	Geoma	trix			Project	No. 14697.	000	Page 1 of 1

PROJE	ECT:			loore Pair					Log of Bo	ori	ng No.	KM-19
BORIN	IG LO			Building					ON AND DATUM veyed; datum		around s	urface
DRILLI	NG C	TNC	RACT	OR: Cas	cade D	rilling, Inc.		DATE ST 12/23/0	ARTED:		DATE FIN 12/23/09	ISHED:
DRILLI	NG M	ETH	OD:	Direct	push				EPTH (ft.):			NG POINT:
DRILLI	NG E	QUIF	PMEN	T: Geopr	obe 420I	M			O WATER (ft.)	FIF	RST	COMPL.
SAMPL	_ING N	/ETH	HOD:	Enviro-co	ore samp	ling system [3' x 1.5"]		LOGGED C. Brov		1.	<u>, </u>	INA
HAMM	ER W	EIGH	HT:	NA		DROP: NA			SIBLE PROFES	SIO	NAL:	REG. NO.
DEPTH (feet)		MPL e		OVM READING (ppm)		DESCRIPTION NAME (USCS): color, moist, % by v	vt., plast. densi				F	L.G. 2557 REMARKS
DEF (fe	Sample No.	Sample	Blows/ 6 inches	OV REAL (pp		cementation, react. w/h		rveved		-		
1-	-			1.1	(10	ORLY GRADED SAND with GRA YR 2/2), moist, 80% fine to coarso a-plastic fines	VEL (SP): ve	ery dark b		_		
2-	_		7	2.4/10.2 (HS)		 T with SAND (ML): gray (N 5/), n	noist 80% lov			_	-	otovac 2020i PID
3-	KM-19-4-1209		V	31.1/52.1		% fine sand, medium stiff, orange				_	isobutylen	with 100 ppm e standard. e (HS) readings n baggie.
4- - 5-	KM-18		7	(HS)						_ _ _		
6-	KM-19-6.5-1209	\bigwedge				ORLY GRADED SAND (SP): bla coarse sand, 5% non-plastic fines,			 95% fine	_ _ _		
7-	KM-18		,	131 277/335 (HS)	T					_	Ctainless	steel budgen in ab
8-	_				∳ wet					_	sampler (0 from 7.5 to retracted 4	steel hydropunch 0.010 slot) driven 0.11.5'. Sleeve I feet to expose m 7.5 to 11.5'.
9-						tom of boring at 9.0 feet bgs. Bore atonite chips.	ehole abandor	ned with h	ydrated	_	Groundwa	ter sample 1209 collected.
11-	_									_		
12-										_		
13-	-									_		
14-	_									_		
15-		NA.	F 2	0	A							OAKBOREV (REV. 8/2007)
	Α	M	EÜ	Geoma	ITLIX				Project No. 146	97.0	000	Page 1 of 1

PROJECT:		<i>l</i> loore Painetown, Sea	ut Company attle, WA	Log of	Boring No	. KM-20
BORING LO		Building		ELEVATION AND DA' Not surveyed; dat		surface
	CONTRAC	TOR: Cas	cade Drilling, Inc.	DATE STARTED:	DATE F	INISHED:
DRILLING M		Direct	3 ,	12/23/09 TOTAL DEPTH (ft.):		IRING POINT:
ORILLING E				12.0 DEPTH TO WATER (f	FIRST	nd surface COMPL.
			bbe 420M	LOGGED BY:	18.0	NA
SAMPLING I	METHOD	: Enviro-co	ore sampling system [3' x 1.5"]	C. Brown	FEOGLONIAL	DEC NO
HAMMER W	VEIGHT:	NA	DROP: NA	RESPONSIBLE PROF	-ESSIONAL:	REG. NO. L.G. 2557
(feet)	Sample Sample Blows/ Sinches	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plas cementation, react. w/HCl, ged	st. density, structure, o. inter.		REMARKS
Sar	Sar Blo	A H	Surface Elevation:	Not Surveyed		
1 - 1 - 1 - 2		0 2.1/0 (HS)	POORLY GRADED SAND with GRAVEL (\$ (10YR 2/2), moist, 75% fine to coarse sand gravel, 5% non-plastic fines, trace pieces of	, 20% fine and coarse	-	Distance aggg: DID
3- - 4-		0.4 0.0/0.6 (HS)	SILT (ML): gray (10YR 5/1), moist, 90% fir plasticity, medium stiff, orange mottling	nes, 10% fine sand, low	calibrate	Photovac 2020i PID ed with 100 ppm ene standard. ace (HS) readings d in baggie.
2		0	POORLY GRADED SAND (SP): dark redomoist, 95% fine to coarse sand, 5% non-pla			
8- 9-		0/0 (HS)	black (5YR 2.5/1), wet		- sampler from 7.5 retracted screen f	s steel hydropunch (0.010 slot) driven to 11.5'. Sleeve d 4 feet to expose from 7.5 to 11.5'. water sample W-1209 collected.
10		0/0 (HS)	scattered fine gravel <5%		- - -	
13 14			Bottom of boring at 12.0 feet. Borehole abar bentonite chips.	ndoned with hydrated	- - - - -	
15						OAKBOREV (REV. 8/2007)
	VMEC	Geoma	trix	Project No.	14697.000	Page 1 of 1

PROJECT			Moore Pair getown, Sea	nt Company attle, WA	Log of	Boring N	o. KM-21
BORING L			Building		ELEVATION AND DA Not surveyed; da		d surface
DRILLING	G CO	NTRA	CTOR: Cas	cade Drilling, Inc.	DATE STARTED: 12/23/09	DATE 12/2	FINISHED:
DRILLING	Э МЕ	THOD	: Direct	push	TOTAL DEPTH (ft.): 9.0	MEAS	SURING POINT: and surface
DRILLING	EQ	UIPME	NT: Geopr	obe 420M	DEPTH TO WATER (FIRST	COMPL.
SAMPLING	G M	ETHO	D: Enviro-co	ore sampling system [3' x 1.5"]	LOGGED BY: C. Brown		•
HAMMER	WE	IGHT:	NA	DROP: NA	RESPONSIBLE PRO N. Gray	FESSIONAL:	REG. NO. L.G. 2557
_		Sample Sand	6 inches OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., pl cementation, react. w/HCl, g	last. density, structure,		REMARKS
DE San	Ž	San	6 inc C RE/	Surface Elevation:	Not Surveyed		
1 - 1- 1- KW-21-3-1209	-5-1209		0	POORLY GRADED SAND with GRAVEL 65% fine to coarse sand, 30% fine gravel, glassy fragments	(SP): black (N 2.5/), moist,	-	
2- 3-	NM-Z-I			orange staining		calibraisobutyHeads	Photovac 2020i PID ted with 100 ppm ylene standard. pace (HS) readings
4- - 5-	N		0/0 (HS)	SILT (ML): gray (N 5/), moist, 95% fines, gravel, low plasticity, medium stiff, orange		collect	ed in baggie.
6 - 6 - 7-1-7-1-209	-7-1-7-		0	POORLY GRADED SAND (SP): very da fine to coarse sand, 5% non-plastic fines,		_ _ 	
8-	NIX N		0/0 (HS)			samplefrom 7retract	ess steel hydropunch er (0.010 slot) driven .5 to 11.5'. Sleeve ed 4 feet to expose a from 7.5 to 11.5'.
9- 10- 11 12-				Bottom of boring at 9.0 feet. Borehole aba bentonite chips.	indoned with hydrated	Groun	dwater sample -W-1209 collected.
13-						 	
15							OAKBOREV (REV. 8/2007)
		MEC	Geoma	triv	Project No.	. 14697.000	Page 1 of 1

		oore Pair town, Se	nt Company attle. WA	Log of	Boring	No. KM-22
BORING LOCAT				ELEVATION AND DA		
DOMING LOCATI	IOIN.	Journ W	aicii0u3C 	Not surveyed; da		
ORILLING CONT	RACT	OR: Cas	cade Drilling, Inc.	DATE STARTED: 8/23/10		TE FINISHED: 23/10
				TOTAL DEPTH (ft.):		ASURING POINT:
DRILLING METH	IOD:	Direct	push	15.0		ound surface
ORILLING EQUIF	PMEN	T: Geopr	obe 7730D	DEPTH TO WATER (FIRST 11.5	COMPL. NA
SAMPLING MET	HOD:	Geoprob	e macro-core sampler [5' x 1.5"]	LOGGED BY: C. Brown	'	<u>'</u>
HAMMER WEIGI	HT:	NA	DROP: NA	RESPONSIBLE PRO N. Bacher	FESSIONAL:	REG. NO. L.G. 2528
Sample No.	_	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. of cementation, react. w/HCl, geo. in	density, structure,		REMARKS
a s es	B B	Я,	Surface Elevation: No	t Surveyed		
		0	CONCRETE FLOOR			ng cored from 0 to 0.75
		U	DOODLY ODADED ODAVEL with CAND (OF	No aliva amavo assist		bgs using a concrete er. Vapor barrier
1- - 2-		0 (HS)	POORLY GRADED GRAVEL with SAND (GP 50% fine and coarse gravel, 45% fine to coars fines			ountered beneath.
_		0			_	
3-	.		small piece of wood			M reading collected g Thermo
		0 0 (HS)	POORLY GRADED SAND (SP): black, moist sand, 5% non-plastic fines	, 95% fine to coarse	- Env 580l 100 - stan - head	g minmed in the month of the mo
7		0			 	
7 11		0				
11-					-	
12- 13- 13- 13- 13- 14- 15- 14- 15- 15- 15- 15- 15- 15- 15- 15- 15- 15	 	1033 (HS) 0	₩et		11 to	ropunch II driven from o 16 feet. Sleeve acted 4 feet to expose een from 10 to 14 feet.
14-			strong petroleum-like odor			nple KM-22-16-0810 ected.
- 16- - 17- -			Bottom of boring at 15.0 feet.		- hydr - from belo bent - feet - grou	ehole destroyed using rated bentonite chips in total depth to 1.5 feet aw ground surface and tonite grout from 1.5 to 0.75 feet below und surface. Surface hed with concrete.
18				,		OAKBOREV (REV. 8/2007)
AM	EC (Geoma	trix	Project No	. 14697.000	Page 1 of 1

PROJE			Moore Pair etown, Se	nt Company attle. WA	Log of B	oring No. I	KM-23
BORIN			South W		ELEVATION AND DATU		ırface
DRILLII	NG CC	ONTRAC	TOR: Cas	cade Drilling, Inc.	DATE STARTED: 8/23/10	DATE FINI 8/23/10	
DRILLII	NG ME	ETHOD:	Direct	push	TOTAL DEPTH (ft.): 15.0		NG POINT:
DRILLII	NG EG	QUIPMEN	NT: Geopr	obe 7730D	DEPTH TO WATER (ft.)	FIRST	COMPL.
SAMPL	ING N	METHOD	: Geoprob	e macro-core sampler [5' x 1.5"]	LOGGED BY: C. Brown	11.0	100
HAMMI	ER WE	EIGHT:	NA	DROP: NA	RESPONSIBLE PROFE N. Bacher	SSIONAL:	REG. NO. L.G. 2528
DEPTH (feet)	Sample No.	Sample AN Blows/ Sample Sinches	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. del cementation, react. w/HCl, geo. inte	nsity, structure,	R	EMARKS
ш	es –	S E		Surface Elevation: Not S	Surveyed		
_			0	CONCRETE FLOOR			ed from 0 to 0.75
1- - 2-			0 (HS)	POORLY GRADED GRAVEL with SILT and SA gray, dry, 50% fine and coarse gravel, 40% med 10% non-plastic fines		corer. Vap	
3- 3- 4- 5- 6- 7- 8- 9- 10-	KM-23-11-0810 KM-23-9-0810		0 0 (HS) 0	crushed yellow brick silty sand with blackened, burned appearance SANDY SILT with fine GRAVEL (ML), contains r POORLY GRADED SAND (SP): black, moist, 9 sand, 5% non-plastic fines		using Ther Environme 580B PID of 100 ppm is standard. headspace	ntal Instruments calibrated with obutylene (HS =
12— 13— 14— 15— 16—	KM		1.0 (HS)	₩et Bottom of boring at 15.0 feet.		11 to 16 feretracted 4 screen fror Sample KN collected. Borehole d hydrated before total of below grou	h II driven from et. Sleeve feet to expose n 10 to 14 feet. M-23-16-0810 estroyed using entonite chips lepth to 1.5 feet nd surface and rout from 1.5
17- - 18-	A	MEC	Geoma	ıtrix	Project No. 14	feet to 0.75 ground sur finished wit	feet below face. Surface

PROJECT: Kelly-Moore P Georgetown, S		Log of B	oring No.	KM-24
BORING LOCATION: South		ELEVATION AND DATU		_
		Not surveyed; datur	n is ground su DATE FIN	
DRILLING CONTRACTOR: C	ascade Drilling, Inc.	8/23/10	8/23/10	IOI IED.
DRILLING METHOD: Dire	ct push	TOTAL DEPTH (ft.):		NG POINT:
	·	15.0	Ground	COMPL.
DRILLING EQUIPMENT: Geo		DEPTH TO WATER (ft.) LOGGED BY:	11.5	NA
SAMPLING METHOD: Geopr	obe macro-core sampler [5' x 1.5"]	C. Brown		
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFES N. Bacher	SSIONAL:	REG. NO. L.G. 2528
Sample (feet) No. Sample Sample Ginches OVM READING	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. cementation, react. w/HCl, geo.	density, structure, inter.	F	REMARKS
San		lot Surveyed	-	
_ 0	CONCRETE FLOOR			ed from 0 to 0.75
1- - 2- - 3- - 4- - 5- - 6- - 7- - - - - - - - - - - - - - -	POORLY GRADED GRAVEL with SILT and brown, moist, 50% fine and coarse gravel, 40 10% non-plastic fines POORLY GRADED SAND with GRAVEL (Si fine to coarse sand, 30% fine and coarse gra contains brick and coal with burnt appearance at base of unit POORLY GRADED SAND (SP): very dark to	P): black, moist, 65% vel, 5% non-plastic fines, e, small red brick pieces	corer. Vap encountered OVM reading Ther Environme	ed beneath. Ing collected mo ental Instruments calibrated with
9- 10- 0180-11-47- 11- 47- 12- 13- 14-	medium sand, 5% non-plastic fines wet, reddish brown		 	
15- 16- 17-	Bottom of boring at 15.0 feet.		hydrated b from total of below grou bentonite of feet to 0.75 ground sui	estroyed using entonite chips depth to 1.5 feet and surface and grout from 1.5 feet below face. Surface th concrete.
18			IIIIISHEU WI	OAKBOREV (REV. 8/2007)
	natrix	Project No. 14		Page 1 of 1

PROJE			loore Pair	nt Company attle, WA		Log of B	oring N	o. KM-25
BORIN			-	/arehouse		ELEVATION AND DATU		d surface
						DATE STARTED:	DATE	FINISHED:
DKILLI	NG CC	JNTRACT	or. Cas	cade Drilling, Inc.		8/23/10	8/23	/10 SURING POINT:
DRILLI	NG ME	ETHOD:	Direct	push		TOTAL DEPTH (ft.): 15.0		ind surface
DRILLI	NG EC	QUIPMEN	T: Geopr	obe 7730D		DEPTH TO WATER (ft.)	FIRST 111.5	COMPL.
SAMPL	ING M	METHOD:	Geoprob	e macro-core sampler [5' x 1.5"]		LOGGED BY: C. Brown		-
HAMM	ER W	EIGHT:	NA	DROP: NA		RESPONSIBLE PROFES N. Bacher	SSIONAL:	REG. NO. L.G. 2528
DEPTH (feet)	Sample No.	Sample Blows/ Sinches	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., pl cementation, react. w/HCl, g	last. densi jeo. inter.	ty, structure,		REMARKS
۵	Sai	Sal Blc 6 in	RE (Surface Elevation:	Not Sur	veyed		
_			0	CONCRETE FLOOR				cored from 0 to 0.75
1-				POORLY GRADED SAND with GRAVEL fine to coarse sand, 35% fine and coarse			corer.	s using a concrete Vapor barrier ntered beneath.
2- - 3- 4- 5- - 6- - 7- - 8- - 9-			0	POORLY GRADED SAND with GRAVEL to coarse sand, 35% fine and coarse grav — black, burned appearance			using Enviro 580B I 100 pp standa	reading collected Thermo Innental Instruments PID calibrated with om isobutylene ard. action encountered, er bent. No upper mple collected due to ecovery.
10- 11-	KM-25-11-0810			POORLY GRADED GRAVEL (SP): black sand, 5% non-plastic fines, slight burned at wet				
12- 13- 14- 15-							11 to 1 retract screen	ounch II driven from 16 feet. Sleeve ed 4 feet to expose 1 from 10 to 14 feet. e KM-25-16-0810 ed.
15- - 16- - 17-				Bottom of boring at 15.0 feet.			hydrat from to below bentor feet to ground	ole destroyed using ed bentonite chips otal depth to 1.5 feet ground surface and nite grout from 1.5 0.75 feet below d surface. Surface d with concrete.
18-								OAKBOREV (REV. 8/2007)
	Α	MEC	Geoma	trix		Project No. 14	697.000	Page 1 of 1

PROJECT: Kell Geo	y-Moore Pair orgetown, Sea		Log of B	Boring No.	KM-26
BORING LOCATIO	ON: South W	arehouse	ELEVATION AND DATU Not surveyed; datu		urface
DRILLING CONTR	RACTOR: Cas	cade Drilling, Inc.	DATE STARTED: 8/23/10 TOTAL DEPTH (ft.):	DATE FIN 8/23/10	
DRILLING METHO	DD: Direct	push	15.0	Ground	surface
DRILLING EQUIPM	MENT: Geopre	obe 7730D	DEPTH TO WATER (ft.)	FIRST 11.5	COMPL. NA
SAMPLING METH	OD: Geoprob	e macro-core sampler [5' x 1.5"]	LOGGED BY: C. Brown		
HAMMER WEIGH	T: NA	DROP: NA	RESPONSIBLE PROFE N. Bacher	SSIONAL:	REG. NO. L.G. 2528
Sample Sa	Blows/ 6 inches OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plas cementation, react. w/HCl, geo	t. density, structure, . inter.	F	REMARKS
0 0	ш ₀ к	Surface Elevation: CONCRETE FLOOR	Not Surveyed	Boring cor	ed from 0 to 0.75
- 1- -	0	POORLY GRADED GRAVEL with SAND (C fine and coarse gravel, 35% fine to coarse s		feet bgs us _ corer. Var	sing a concrete
2- - 3- - 4- -	0 (HS)			using Ther Environme 580B PID 100 ppm is standard.	ental Instruments calibrated with sobutylene (HS =
5- - 6- - 7-	0	SILTY SAND (SM): black, moist, 75% fine in non-plastic fines, 10% fine and coarse grave fragments brick fragment (burned appearance)		headspace collected fi	e readings rom Ziploc bag)
KM-26-8.5-0810	0 (HS)	POORLY GRADED SAND (SP): very dark 95% fine to coarse sand, 5% non-plastic fine			
10 – 11 – 12 – 12 – 12 – 12 – 12 – 12 –	0	reddish mottling wet, black		- - - -	
13-	0			- - - -	
15- - 16- - 17- -		Bottom of boring at 15.0 feet.		hydrated b from total of below grou bentonite of feet to 0.78	destroyed using pentonite chips depth to 1.5 feet and surface and grout from 1.5 feet below rface. Surface th concrete.
18			I	<u> </u>	OAKBOREV (REV. 8/2007)
AME	EC Geoma	trix	Project No. 14	4697.000	Page 1 of 1

PROJE				oore Pair town, Sea	nt Company attle. WA	Log of E	3ori	ing No.	KM-27
BORIN				-	/arehouse	ELEVATION AND DAT Not surveyed; date		s around e	urface
יי וופח	אופ ככ	דואר	'RΔCT		cade Drilling Inc	DATE STARTED:	۱۱۱ IC	DATE FIN	
PKILLI	NG CC	ו אוכ	RACI	or. Cas	cade Drilling, Inc.	8/24/10		8/24/10	NIO BO'' '-
DRILLI	NG ME	ΞTΗ	OD:	Direct	push	TOTAL DEPTH (ft.): 15.0		MEASUR Ground	ING POINT: surface
DRILLI	NG EC	QUIF	PMENT	Γ: Geopr	obe 7730D	DEPTH TO WATER (ft.		RST 1.5	COMPL.
SAMPL	ING M	1ETH	HOD:	Geoprob	e macro-core sampler [5' x 1.5"]	LOGGED BY: C. Brown		1.0	101
HAMM	ER WE	EIGH	HT:	NA	DROP: NA	RESPONSIBLE PROFI	ESSIC	DNAL:	REG. NO. L.G. 2528
DEPTH (feet)		MPL 음	_	OVM (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. de cementation, react. w/HCl, geo. inte	nsity, structure,		F	REMARKS
DE (fe	Sample No.	Sample	Blows/ 6 inches	REA (p		Surveyed			
	-	Ϊ́		_	CONCRETE FLOOR	Surveyed		Boring cor	red from 0 to 0.75
_				0				feet bgs u	sing a concrete
1-				0 (HS)	POORLY GRADED SAND with GRAVEL (SP): 60% fine to coarse sand, 35% fine and coarse g fines		-	corer. Val	oor barrier ed beneath.
2-				,					
3-				0					ling collected
3- _		\ /	1					using The	rmo ental Instruments
4-		IV						580B PID	calibrated with
-		$ \wedge $							sobutylene
5-		<u>/_\</u>	1					standard.	
J _				0					rom Ziploc bag)
6-				Ĭ					
_									
7-				0	POORLY GRADED SAND with SILT and GRA\ moist, 75% fine to coarse sand, 15% fine and co non-plastic fines				
8-					POORLY GRADED SAND (SP): black, moist, sand, 5% non-plastic fines	95% fine to coarse	-		
_		\ /			Sand, 570 non-plastic lines		-		
9-		V					-		
_		$ / \rangle$							
10-		Т		0			-		
_							-		
11-							-		
_					wet, sand grading from medium to coarse				
12-					·			Hydropun	ch II driven from
_				0	orange mottling			11 to 16 fe	et. Sleeve
13-		<u> </u>	1						I feet to expose m 10 to 14 feet.
_		$ \setminus $					-	Sample K	M-27-16-0810
14 –							-	collected.	
_		/\							
15-			1	ļ	Bottom of boring at 15.0 feet.		\dashv	Borehole of	destroyed using
									pentonite chips
16-									depth to 1.5 feet und surface and
								bentonite	grout from 1.5
17 –									5 feet below rface. Surface
							-	0	ith concrete.
18-			-					1	OAKBOREV (REV. 8/2007)
	Δ	M	EC (Geoma	trix	Project No. 1	4697	.000	Page 1 of 1

	r-Moore Pair	nt Company attle. WA	Log of E	Boring No. k	CM-28
ORING LOCATION	•		ELEVATION AND DAT Not surveyed; date		rface
ORILLING CONTRA	ACTOR: Cas	scade Drilling, Inc.	DATE STARTED: 8/24/10	DATE FINI: 8/24/10	
PRILLING METHOD	D: Direct	push	TOTAL DEPTH (ft.): 15.0	MEASURIN Ground	
RILLING EQUIPM	ENT: Geopr	obe 7730D	DEPTH TO WATER (ft.	FIRST	COMPL.
SAMPLING METHO	DD: Geoprob	e macro-core sampler [5' x 1.5"]	LOGGED BY:	11.5	INA
HAMMER WEIGHT	· · · · · · · · · · · · · · · · · · ·	DROP: NA	C. Brown RESPONSIBLE PROFI	ESSIONAL:	REG. NO.
Sample Sa	6 inches OVM CPM (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. de cementation, react. w/HCl, geo. int	N. Bacher ensity, structure, er.	R	L.G. 2528 EMARKS
	2 i	Surface Elevation: Not	Surveyed		
_	0	CONCRETE FLOOR			ed from 0 to 0.75 ing a concrete
1- - 2-	0 (HS)	POORLY GRADED SAND with GRAVEL (SP): to coarse sand, 30% fine and coarse gravel, 5%		corer. Vap	or barrier
3- - 4- -	0			using Therr	ntal Instruments calibrated with obutylene [HS =
5	0				om Ziploc bag)
7 8-	0 (HS) 0	POORLY GRADED SAND with SILT and GRA' moist, 75% fine to coarse sand, 15% fine and conon-plastic fines, brick fragments POORLY GRADED SAND (SP): very dark bro	parse gravel, 10%		
9-		coarse sand, 5% non-plastic fines		-	
10-	0				
	0			-	
11-					
	0 (HS)	→ wet			
12-	0	•		_	
13-				_	
-	0			_	
14					
15		Dattom of horizon at 45 0 feet		Done hada d	patrovad usin
16- - 17-		Bottom of boring at 15.0 feet.		hydrated be from total d below ground bentonite g feet to 0.75	estroyed using entonite chips epth to 1.5 feet and surface and rout from 1.5 feet below face. Surface
18				finished wit	
			1_		OAKBOREV (REV. 8/2007)
AME	C Geoma	ITLIX	Project No. 1	4697.000	Page 1 of 1

PROJE	CT:				nt Company attle, WA	Log of E	Bori	ing No.	KM-29
BORIN	G LO				/arehouse	Not surveyed; datu		s around s	surface
					scade Drilling, Inc.	DATE STARTED: 8/24/10 TOTAL DEPTH (ft.):		DATE FII 8/24/10	VISHED:
DRILLI	NG M	ETH	IOD:	Direct	push ————————	15.0	1 =1		surface COMPL.
DRILLI	NG E	QUIF	PMEN ⁻	T: Geopr	obe 7730D	DEPTH TO WATER (ft.	۱ I	1.5	NA
SAMPI	ING N	ИΕТ	HOD:	Geoprob	e macro-core sampler [5' x 1.5"]	LOGGED BY: C. Brown			
HAMM	ER W	EIGI	HT:	NA	DROP: NA	RESPONSIBLE PROFE N. Bacher	SSIC	DNAL:	REG. NO. L.G. 2528
DEPTH (feet)	Sample No.	Sample 14		OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. d cementation, react. w/HCl, geo. in	ensity, structure, ter.			REMARKS
	Sa	Sa	B e	RE		Surveyed			
_				0	CONCRETE FLOOR		-		red from 0 to 0.75 using a concrete
1- - 2-				0 (HS) 0	POORLY GRADED SAND with GRAVEL (SP) to coarse sand, 35% fine and coarse gravel, 5%			corer. Va	apor barrier red beneath.
3-			7	v			- - -	using The Environm 580B PIE 100 ppm standard	ental Instruments calibrated with isobutylene
5- - 6-				0 0 (HS)			_		from Ziploc bag)
7-	(M-29-8-0810			- (/	POORLY GRADED SAND with SILT and GRA moist, 60% fine to coarse sand, 30% fine and conon-plastic fines, scattered material with burned	coarse gravel, 10% d appearance	- -		
8- - 9-	KM-29		7	0	POORLY GRADED SAND (SP): very dark bromedium sand, 5% non-plastic fines	own, moist, 95% fine to	- -		
10-	-0810	X		0			-		
11-	KM-29-11-0810			0 (HS)					
12- 13- - 14-			7	0	↓ wet		- - - -	11 to 16 to retracted screen from	nch II driven from feet. Sleeve 4 feet to expose om 10 to 14 feet. KM-29-16-0810
15 - 16 - 17 -		<u>V</u>	V		Bottom of boring at 15.0 feet.			hydrated from total below gro bentonite feet to 0.7 ground s	destroyed using bentonite chips depth to 1.5 feet bund surface and grout from 1.5 feet below urface. Surface with concrete.
18-	-	-				I		1	OAKBOREV (REV. 8/2007)
	Δ	M	EC (Geoma	itrix	Project No. 1	4697	.000	Page 1 of 1

			nt Company, Data Gaps Investigation attle, WA	Log of B	oring No.	KM-30
BORING LOCATI				ELEVATION AND DATU		
			cade Drilling, Inc.	Not Surveyed; datu DATE STARTED:	DATE FI	
DRILLING CONT	RACT	JR. Cas	cade Drilling, Inc.	3/23/11 TOTAL DEPTH (ft.):	3/23/11	ING POINT:
DRILLING METH	IOD:	Direct	push	12.0		surface
DRILLING EQUIF	PMENT	: Geopr	obe 5400 (Limited Access Rig)	DEPTH TO WATER (ft.)	FIRST 5.25	COMPL. NA
SAMPLING MET	HOD:	Geoprob	e macro-core sampler [4' x 1.5"]	LOGGED BY: S. Mikelich		
HAMMER WEIGH	HT:	NA	DROP: NA	RESPONSIBLE PROFES N. Bacher	SSIONAL:	REG. NO. L.G. 2528
DEPTH (feet) Sample No. Sample		OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. den: cementation, react. w/HCl, geo. inter	sity, structure,		REMARKS
o o	9	<u>«</u>		urveyed	1 .	15 01 05
1			CONCRETE FLOOR WELL GRADED GRAVEL with SILT and SAND ((CM CM): year		red from 0 to 0.5 ising a concrete
1 2-112		7.0 310	dark gray (GLEY 1 3/1), dry, 50% fine to coarse g coarse sand, 10% non-plastic fines, strong odor		corer.	
2-1KM-30-0311-2	7				using a R	ding collected AE Systems
4- 2-1150			POORLY GRADED SAND with SILT (SP-SM): bdry, 90% fine to coarse sand, 10% non-plastic fin material with burned appearance, wood debris, od	es, scattered		with 100 ppm e standard.
6 6 KM-30-0311-5		134	wet POORLY GRADED SAND with SILT (SP-SM): be moist to wet, 90% fine to medium sand, 10% non			
7-		32.1	odor		_ _ _	
9-		21.2			_ _ _	
10-		13.6			hydrated from total	destroyed using bentonite chips depth to 1.5 feet und surface and
12-			Bottom of boring at 12.0 feet; cannot drill deeper of	due to flowing sands	bentonite feet to 0.7 ground su	grout from 1.5 '5 feet below urface. Surface vith concrete.
13 – – 14 –					Disposab Schedule	le 3/4" diameter 40 PVC, 5 foot iven from 5 to 10
15-					feet. San KM-30-03	nple 311-W collected.
16-						
17-						
18						OAKBOREV (REV. 8/2007)
A 1.4	FC (Geoma	trix	Project No. 14	697	Page 1 of 1

PROJE	CT:				nt Company, Data Gaps Investigation attle, WA	Log of B	ori	ng No.	KM-31
BORIN	G LO			Inside B		ELEVATION AND DATU Not Surveyed; datu		s around s	surface
DRILLI	NG C	ITNC	RACT	OR: Cas	cade Drilling, Inc.	DATE STARTED:	111118	DATE FIN	
						3/22/11 TOTAL DEPTH (ft.):		3/22/11 MEASUR	ING POINT:
DRILLI	NG M	ETH	OD:	Direct	push	12.0	1=:-	Ground	surface
DRILLI	NG E	QUIP	PMEN	T: Geopr	obe 5400 (Limited Access Rig)	DEPTH TO WATER (ft.)	¦FIF ₁5.0	RST 0	COMPL.
SAMPL	ING N	ИЕΤΗ	HOD:	Geoprob	e macro-core sampler [4' x 1.5"]	LOGGED BY: S. Mikelich	•		
HAMM	ER W	EIGH	HT:	NA	DROP: NA	RESPONSIBLE PROFE N. Bacher	SSIO	NAL:	REG. NO. L.G. 2528
DEPTH (feet)	Sample No.	Sample 74	Blows/ G 6 inches	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. dens cementation, react. w/HCl, geo. inter.				REMARKS
	Š	Š	9 i	≅	Surface Elevation: Not Sur	rveyed			
_		X			CONCRETE FLOOR	CM/ CM): block	_		red from 0 to 0.5 sing a concrete
1- 2- - 3-	KM-31-0311-3			0.6	WELL GRADED SAND with SILT and GRAVEL (3.5Y 2.5/1), moist, 50% fine to coarse sand, 40% gravel, 10% non-plastic fines	fine to coarse	-	corer.	ling collected AE Systems
4-					POORLY GRADED SAND with SILT (SP-SM): bl moist to wet, 90% fine to coarse sand, 10% non-pl		_	calibrated	with 100 ppm e standard.
5- -				0.0	↓ wet				
6-				0.0			_		
_		\vdash	1						
7-									
8-									
_							_		
9-				0.0			_		
_									
10-									destroyed using
11-				0.0				from total	pentonite chips depth to 1.5 feet
_									und surface and grout from 1.5
12-		H	1		Bottom of boring at 12.0 feet; cannot drill deeper d	ue to flowing sands	+	feet to 0.7	5 feet below rface. Surface
13-					·				ith concrete.
- 13	-								e 3/4" diameter 40 PVC, 5 foot
14-								screen dri	ven from 5 to 10
_								feet. Sam KM-31-03	iple 11-W collected.
15-									
16-									
_							_		
17-							-		
_									
18-						1		I	OAKBOREV (REV. 8/2007)
	Δ	M	EC (<u>Geoma</u>	trix	Project No. 14	697		Page 1 of 1

	oore Pair	nt Company, Data Gaps Investigation attle, WA	Log of I	Boring No.	KM-32
BORING LOCATION:			ELEVATION AND DAT Not Surveyed; dat		urface
DRILLING CONTRACT	OR: Cas	cade Drilling, Inc.	DATE STARTED:	DATE FIN	
DRILLING METHOD:	Direct	<u> </u>	3/22/11 TOTAL DEPTH (ft.): 12.0		ING POINT:
DRILLING EQUIPMEN	T: Geopr	obe 5400 (Limited Access Rig)	DEPTH TO WATER (ft	FIRST	COMPL.
SAMPLING METHOD:	Geoprob	e macro-core sampler [4' x 1.5"]	LOGGED BY:	·· [/] ¦4.0	NA
HAMMER WEIGHT:	NA	DROP: NA	S. Mikelich RESPONSIBLE PROF	ESSIONAL:	REG. NO.
SAMPLES Fig. 9 9 3 8	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. de	N. Bacher ensity, structure,		L.G. 2528 REMARKS
Sample (Peet) Sample (Sample Blows/ 6 inches	OVI READ (ppr	cementation, react. w/HCl, geo. int	ter.		
00 00 00 00	<u> </u>	Surface Elevation: Not CONCRETE FLOOR	Surveyed	Boring co	red from 0 to 0.5
1 - 2 - 2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3	0.0	WELL GRADED GRAVEL with SILT and SANI dark gray (GLEY 1 3/1), dry, 50% fine to coarse coarse sand, 10% non-plastic fines		feet bgs u corer. OVM reac using a R	sing a concrete ling collected AE Systems
4- - 5- -	0.0	POORLY GRADED SAND with SILT (SP-SM): dry, 90% fine to coarse sand, 10% non-plastic to material with burned appearance, wood debris wet	fines, scattered		with 100 ppm e standard.
6- - 7- - 8-		POORLY GRADED SAND with SILT (SP-SM): moist to wet, 90% fine to medium sand, 10% no			very from 0'-4' lue to fill debris scraps.
9-	0.0			- - - 	
11-				hydrated to from total below grobentonite	destroyed using pentonite chips depth to 1.5 feet und surface and grout from 1.5
12 - (-) 13 - 14 - 15 - 16 -		Bottom of boring at 12.0 feet; cannot drill deepe	r due to flowing sands	ground su finished w Disposabl Schedule screen dri feet. Sam	5 feet below rface. Surface ith concrete. e 3/4" diameter 40 PVC, 5 foot even from 5 to 10 ple 11-W collected.
17-				_	
18					OAKBOREV (REV. 8/2007)
AMEC	Geoma	ıtrix	Project No.	14697	Page 1 of 1

Georgetown, Seattle, WA BORING LOCATION: Inside Building 7 DRILLING CONTRACTOR: Cascade Drilling, Inc. DRILLING METHOD: Direct push DRILLING EQUIPMENT: Geoprobe 5400 (Limited Access Rig) SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5"] HAMMER WEIGHT: NA DROP: NA	ELEVATION AND DATE Not Surveyed; date DATE STARTED: 3/22/11 TOTAL DEPTH (ft.): 12.0 DEPTH TO WATER (ft.) LOGGED BY: S. Mikelich	um is ground s DATE FIN 3/22/11 MEASURI Ground	IISHED: ING POINT: surface COMPL.
DRILLING CONTRACTOR: Cascade Drilling, Inc. DRILLING METHOD: Direct push DRILLING EQUIPMENT: Geoprobe 5400 (Limited Access Rig) SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5"]	DATE STARTED: 3/22/11 TOTAL DEPTH (ft.): 12.0 DEPTH TO WATER (ft.) LOGGED BY:	DATE FIN 3/22/11 MEASURI Ground	IISHED: ING POINT: surface COMPL.
DRILLING METHOD: Direct push DRILLING EQUIPMENT: Geoprobe 5400 (Limited Access Rig) SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5"]	3/22/11 TOTAL DEPTH (ft.): 12.0 DEPTH TO WATER (ft.) LOGGED BY:	3/22/11 MEASURI Ground	ING POINT: surface
DRILLING EQUIPMENT: Geoprobe 5400 (Limited Access Rig) SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5"]	12.0 DEPTH TO WATER (ft. LOGGED BY:	Ground	surface COMPL.
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5"]	DEPTH TO WATER (ft.	FIRST	COMPL.
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5"]	LOGGED BY:	′ ¦4.5	
			NA
HAMMER WEIGHT: NA DROP: NA			
	RESPONSIBLE PROFE N. Bacher	ESSIONAL:	REG. NO. L.G. 2528
SAMPLES SAMPLES SAMPLES SUPPLIES SUPPLIES	nsity, structure, r.	F	REMARKS
Surface Elevation: Not Si CONCRETE FLOOR and cobbles	urveyed	Boring cor	red from 0 to 3.8
548 SILTY SAND with GRAVEL (SM): black (2.5Y 2 to coarse sand, 20% fine to medium gravel, 20% odor wet POORLY GRADED SAND with SILT (SP-SM): wet, 90% fine to coarse sand, 10% non-plastic fine	slightly plastic fines, black (2.5Y 2.5/1),	Corer. OVM read using a RA MiniRAE 3 calibrated isobutylend	with 100 ppm e standard. destroyed using pentonite chips
10- 486			depth to 1.5 feet und surface and
		bentonite (grout from 1.5 5 feet below
42.9		_ ground su	rface. Surface
12-	due to flerida a carda	finished wi	ith concrete.
Bottom of boring at 12.0 feet; cannot drill deeper of	due to flowing sands	_	
13-		Schedule 4	e 3/4" diameter 40 PVC, 5 foot ven from 4 to 9
-		_ feet. Sam KM-33-03	ple 11-W collected.
15-			
15- - 16- - 17-		-	
16 – -		- - - -	OAKBOREV (REV. 8/2007)

PROJEC					nt Company, Data Gaps Investigation attle, WA	Log of	Bori	ng No.	KM-34
BORING	LOC	ATIO	ON:	Former	UST Area	ELEVATION AND DA		e ground o	curface
ORILLING	G CC	NTF	RACT	OR: Cas	cade Drilling, Inc.	DATE STARTED:	atumis	DATE FIN	NISHED:
JKILLIN		INIT	VACT	OR. Cas	Cade Dilling, Inc.	3/21/11 TOTAL DEPTH (ft.):		3/21/11	ING POINT:
ORILLING	G ME	THO	DD:	Direct	push	12.0		Ground	surface
ORILLING	G EC	UIPI	MEN	T: Geopr	obe 5400 (Limited Access Rig)	DEPTH TO WATER	(ft.) FIF	RST 5	COMPL. NA
SAMPLIN	NG M	IETH	IOD:	Geoprob	e macro-core sampler [4' x 1.5"]	LOGGED BY: S. Mikelich		-	
HAMMER	R WE	IGH	T:	NA	DROP: NA	RESPONSIBLE PRO N. Bacher	FESSIO	NAL:	REG. NO. L.G. 2528
DEPTH (feet)		JPLE e	Blows/ 55 6 inches	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. d cementation, react. w/HCl, geo. in	density, structure,			REMARKS
	Sample No.	Sample	Blov	O REA		t Surveyed			
4- 4- 5- 6-	KM-34-0311-4 KM-34-0311-2			0.0	SILTY GRAVEL with SAND (GM): olive brown wet, 50% very fine to coarse gravel, 30% fine to non-plastic fines wet	n (2.5Y 4/3), moist to		using a R MiniRAE calibrated	ding collected AE Systems 3000 PID with 100 ppm e standard.
7- - 8- 9- 10- - 11- 12- - 13- - 15- - 17- - 18-				0.0	POORLY GRADED SAND with SILT (SP-SM) 90% fine to coarse sand, 10% non-plastic fines Bottom of boring at 12.0 feet; cannot drill deeper			hydrated from total below grobentonite feet to 0.7 ground sufinished with the below grobentonite feet to 0.5 ground sufinished with the below ground sufinished with the below ground feet. Same feet from total below ground feet feet feet from total below grow ground feet feet from total from total below grow grow grow grow grow grow grow gr	destroyed using pentonite chips depth to 1.5 feet und surface and grout from 1.5 5 feet below urface. Surface rith gravel. e 3/4" diameter 40 PVC, 5 foot iven from 4 to 9 pple 111-W collected.
18—									OAKBOREV (REV. 8/2007)
	Δ	ME	EC	Geoma	trix	Project No	. 14697		Page 1 of 1

NOJL			loore Paint etown, Sea	t Company, Data Gaps Investigation attle, WA	Log	of Boring No	. KM-35
					ELEVATION AND	DATUM:	
BORIN	G LOC	CATION:	inside So	outh Warehouse		datum is ground	
DRILI II	NG CC	ONTRAC	TOR: Caso	cade Drilling, Inc.	DATE STARTED:		INISHED:
					3/22/11	3/22/1	
DRILLII	NG ME	ETHOD:	Direct p	oush	TOTAL DEPTH (ft. 12.0		RING POINT: d surface
			·			FIRST	COMPL.
DRILLII	NG EC	QUIPMEN	IT: Geopro	bbe 5400 (Limited Access Rig)	DEPTH TO WATE	R (ft.) 7.5	NA NA
SAMPL	ING M	METHOD:	Geoprobe	e macro-core sampler [4' x 1.5"]	LOGGED BY: S. Mikelich		
IAMMI	ER WE	EIGHT:	NA	DROP: NA	RESPONSIBLE PR	ROFESSIONAL:	REG. NO. L.G. 2528
DEPTH (feet)		Sample AM Blows/ Samples 6 inches	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. d cementation, react. w/HCl, geo. in	ensity, structure,		REMARKS
	Sample No.	Sarr Blov	M M M	_	Surveyed		
_			1	CONCRETE FLOOR	Suiveyeu	Poring	ored from 0 to 1.5
1- 2-	0311-2		0.0	WELL GRADED GRAVEL with SILT and SANI brown (2.5Y 5/2), moist, 60% fine to coarse gra		feet bgs corer. V encounte beneath	using a concrete fapor barrier ered at 0.5' floor with cobbles rel to 1.5'.
3- 4-	KM-35-0311-2			sand, 10% non-plastic fines,		OVM real using a lead in MiniRAE	ading collected RAE Systems 3000 PID d with 100 ppm
- 5-			0.0			isobutyle - -	ene standard.
6- 7-	KM-35-0311-6.5		13.7 –	Scattered material with burned appearance		- - - -	
8- 9- 10-			20.0	POORLY GRADED SAND with SILT (SP-SM): (2.5Y 2.5/1), wet, 90% fine to medium sand, 10		hydratedfrom totabelow grbentonite	e destroyed using I bentonite chips al depth to 1.5 feet ound surface and e grout from 1.5
11- - 12- - 13-			35.8			_ ground s finished _ _	.75 feet below surface. Surface with concrete.
14- - 15-			15.0			Schedul - screen c _ feet. Sa	ole 3/4" diameter e 40 PVC, 5 foot Iriven from 7 to 12 mple 1311-W collected.
16			0.0				
16 — 17 — - 18 —				Bottom of boring at 16.0 feet; cannot drill deepe	er due to flowing sands	S	
10						<u> </u>	OAKBOREV (REV. 8/2007)
10-							0741D011E1 (11E11012001)

PROJE					nt Company, Data Gaps Investigation attle, WA	L	og of B	oriı	ng No.	KM-36
							N AND DATU			
BORIN	G LOC	JATIC	JN:	Parking	LOT		eyed; datur	n is		
ORILI I	NG CC	ONTF	RACT	OR: Cas	cade Drilling, Inc.	DATE STAF	RTED:		DATE FIN	IISHED:
JIKILLI	10 00	J. 1111	0 10 1	Ort. 043		3/21/11			3/21/11	
DRILLI	NG ME	ETHO	DD:	Direct	push	TOTAL DEF	PTH (ft.):			ING POINT:
						12.0		FIF		surface COMPL.
DRILLI	NG EC	QUIPI	MENT	T: Geopre	obe 5400 (Limited Access Rig)		WATER (ft.)	6.0		NA
SAMPL	ING M	/IETH	OD:	Geoprob	e macro-core sampler [4' x 1.5"]	LOGGED B	ch			
HAMM	ER WE	EIGH	T:	NA	DROP: NA	RESPONSI N. Bache	BLE PROFES r	SSIO	NAL:	REG. NO. L.G. 2528
DEPTH (feet)	Sample No.	Sample 31	Blows/ (5) 6 inches	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. de cementation, react. w/HCl, geo. inte	nsity, structure, er.			ı	REMARKS
	San	San	음티	RE/O	<u> </u>			-		
	,	No.	9			Surveyed		+	Davidia	
_		\square			ASPHALT			 _		red from 0 to 0.5 sing a concrete
1-	2				WELL GRADED GRAVEL with SILT and SAND dark gray (5Y 3/1), moist, 50% fine to coarse gracoarse sand, 10% non-plastic fines, odor				corer.	sing a concrete
_	7			1/15	Thin lense composed of organics and wood debi	rie	_	4		
2-	KM-36-0311-2			145			<u> </u>			
_	N-36	\ /			POORLY GRADED SAND with SILT (SP-SM): moist to wet, 90% fine to medium sand, 10% no	black (2.5Y 2.	.5/1), .odor		OVM read	ling collected
3-	조	$ \backslash / $			moist to wet, 90% line to medium sand, 10% no	n-piastic iiries,	odor.	-		AE Systems
_		ΙĂΙ						_	MiniRAE 3	
4		V V								with 100 ppm
4-										e standard.
_								-	•	
5-	ဖု							-		
	7			266						
_	9-03			200						
6-	KM-36-0311-6				Ţ wet					
-	₹			4044	₩ wet			-		
7-				1944						
•		\square								
_		IXI								
8-		\cap								
_								-		
9-										
3				4040						
_				1848						
10-								-	Dorobala	dootroused
_								-		destroyed using bentonite chips
11-										depth to 1.5 feet
11-								$\lceil \rceil$		und surface and
_				17				-		grout from 1.5
12-		\mathbb{H}		-	Dottom of hower at 40.0 facts account stall 1	due te de la	oon de	+1		5 feet below
_					Bottom of boring at 12.0 feet; cannot drill deeper	aue to flowing	sands	_	ground su	rface. Surface
10									finished w	ith concrete.
13-									Disposable	e 3/4" diameter
_								-		40 PVC, 5 foot
14-								-		ven from 5 to 10
_									feet. Sam	
4 5									KM-30-03	11-W collected.
15-										
_								-		
16-								-		
_										
, <u> </u>										
17-								-		
_								-		
18-										
-				Geoma						OAKBOREV (REV. 8/2007)
				_	Audie	-	roject No. 14	~~~		Page 1 of 1

PROJE					t Company, Data Gaps Investigation attle, WA	Log of E	Bori	ng No.	KM-37
BORIN				Parking		ELEVATION AND DATU			_
						Not surveyed; datu	ım is	ground s	
DRILLII	NG CC	ITNC	RACT	OR: Cas	cade Drilling, Inc.	3/21/11		3/21/11	
DRILLI	NG MI	ETH	OD:	Direct	push	TOTAL DEPTH (ft.): 12.0	J =	Ground	ING POINT:
DRILLI	NG EC	QUIP	MEN	T: Geopr	bbe 5400 (Limited Access Rig)	DEPTH TO WATER (ft.) FIF 6.0	RST O	COMPL.
SAMPL	ING N	ИЕΤН	HOD:	Geoprob	e macro-core sampler [4' x 1.5"]	LOGGED BY: S. Mikelich			•
HAMM	ER WI	EIGH	HT:	NA	DROP: NA	RESPONSIBLE PROFE N. Bacher	SSIO	NAL:	REG. NO. L.G. 2528
DEPTH (feet)	Sample No.	Sample 7	Blows/ C 6 inches	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. de cementation, react. w/HCl, geo. inte				REMARKS
	San	San	Blo 6 inc	RE/	Surface Elevation: Not S	Surveyed			
		\geq			ASPHALT	54. Toyou			
1-			-		WELL GRADED GRAVEL with SAND (GW): vogray (GLEY 1 3/5GY), moist, 55% fine to coarse coarse sand		-		
2- - 3-	KM-37-0311-2		7	29.8	POORLY GRADED SAND with SILT (SP-SM): moist, 90% fine to medium sand, 10% non-plast		-	using a R	ding collected AE Systems
4- -	1-5	X	2		POORLY GRADED SAND with SILT (SP-SM): moist to wet, 90% fine to course sand, 10% non odor				3000 PID with 100 ppm le standard.
5- -	KM-37-0311-5			165.8			-		
6-	ž			1354	→ wet				
_		\	1		•				
7-		ΙX							
8-		\mathbb{A}					_		
_									
9-	-							Borehole	destroyed using
10-				1411			_	from total	depth to 1.5 feet
_								bentonite	und surface and grout from 1.5
11-				641.5					5 feet below Irface. Surface
12-	-]	0.1.0			_ _	finished w	rith asphalt.
					Bottom of boring at 12.0 feet; cannot drill deeper	due to flowing sands	_		
13-	_						-	Dianasah	o 2/4" diameter
_	-						-		e 3/4" diameter 40 PVC, 5 foot
14-								screen dr feet. San	iven from 4 to 9
- 15-	-								11-W collected.
_	-						-		
16-	_						-		
_ 4 7	†						-		
17 – –									
18-		<u> </u>							OAKBOREV (REV. 8/2007)
				_	trix	Project No. 1			Page 1 of 1

BORING LOCATION. Inside Building 8 DRILLING CONTRACTOR: Cascade Drilling, Inc. DRILLING METHOD: Direct push DRILLING BOUPMENT: Geoprobe 540M (Limited Access Rig) DEPTH TO WATER (h.) SAMPLING METHOD: Geoprobe macro-core sampler [3 x 1.5"] SAMPLING METHOD: Geoprobe macro-cor	PROJE					nt Company, Data Gaps Investigation attle, WA		Log of Bor	ring No.	KM-38
DRILLING CONTRACTOR Cascade Drilling, Inc. DATE STARTED: 3/23/11 3/23/11 DRILLING METHOD: Direct push Conditional surface DRILLING METHOD: Direct push Conditional surface DRILLING EQUIPMENT: Geoprobe 540M (Limited Access Rig) DEFTH TO WATER (I), IFIRST COMPL SAMPLING METHOD: Geoprobe macro-core sampler [3' x 1.5"] LOGGED BY: S.MMRelich S.MMRelich S.AMPLES: N.A DROP: N.A DRO	BORIN								is around	surface
DRILING METHOD. Direct push TOYAL DEPTH (N): 12.0 DRILING EQUIPMENT: Geoprobe 540M (Limited Access Rig) DEPTH TO WATER (n): SAMPLING METHOD: Geoprobe macro-core sampler [3' x 1.5"] SAMPLING METHOD: SAMPLING METHOD: SAMPLING METHOD: Geoprobe macro-core sampler [3' x 1.5"] SAMPLING METHOD: SOME SEPTONSITE PROFESSIONAL: REMARKS REMARKS REMARKS REMARKS REMARKS OVAl reading collected using a RAE Systems fine to coarse sand, 10% non-plastic fines with 100 ppm isobusylene standard. OVAl reading collected using a RAE Systems minimal phydrated bentonite chips from total depth to 15 feet blow ground surface. Surface finished with 100 ppm isobusylene standard. The sample standard methods and the standard methods and standard methods and standard methods and standard. The sample standard methods and standard. The sample standard methods and standar	DRILLI	NG CC	ONTF	RACT	OR: Cas	cade Drilling, Inc.	DATE ST	ARTED:	DATE FI	NISHED:
DRILLING EQUIPMENT: Geoprobe 540M (Limited Access Rig) DEPTH TO WATER (It.) 5.5 COMPL. SAMPLING METHOD: Geoprobe macro-core sampler [3' x 1.5"] LOGGED PY: SAMPLING METHOD: Geoprobe macro-core sampler [3' x 1.5"] S. Mikcelich HAMMER WEIGHT: NA DROP: NA DESCRIPTION: RESPONSIBLE PROFESSIONAL: P.E.G. NO. SAMPLES SAMPLES S. Mikcelich RESPONSIBLE PROFESSIONAL: P.E.G. 2521 CONCRETE FLOOR POORLY GRADED SAND (SP): olive brown (2.5' 4/3), moist, 90% fine to coarse sand, 5% non-plastic fines. Switch to course gravel CONCRETE FLOOR POORLY GRADED SAND with SILT (SP-SM): black (2.5'Y 2.5'f). moist to wet, 90% fine to coarse sand, 10% non-plastic fines Wet POORLY GRADED SAND with SILT (SP-SM): black (2.5'Y 2.5'f). moist to wet, 90% fine to coarse sand, 10% non-plastic fines Wet POORLY GRADED SAND with SILT (SP-SM): black (2.5'Y 2.5'f). Wet Very strong odor Very strong odor The coarse sand side of the coarse sand							TOTAL D		MEASU	RING POINT:
SAMPLING METHOD: Geoprobe macro-core sampler [3' x 1.5'] S. Mikelich RESPONSIBLE PROFESSIONAL: REG. NO N. Bacher RESPONSIBLE PROFESSIONAL: REG. NO N. Bacher RESPONSIBLE PROFESSIONAL: REG. NO N. Bacher N. Bacher S. Mikelich RESPONSIBLE PROFESSIONAL: REG. NO REG. NO N. Bacher S. Mikelich RESPONSIBLE PROFESSIONAL: REG. NO REG. NO N. Bacher S. Mikelich RESPONSIBLE PROFESSIONAL: REG. NO REG. NO N. Bacher S. Mikelich RESPONSIBLE PROFESSIONAL: REG. NO REG. NO N. Bacher S. Mikelich RESPONSIBLE PROFESSIONAL: REG. NO REG. NO N. Bacher S. Mikelich RESPONSIBLE PROFESSIONAL: REG. NO REG. NO N. Bacher S. Mikelich RESPONSIBLE PROFESSIONAL: REG. NO REG. NO N. Bacher S. Mikelich RESPONSIBLE PROFESSIONAL: REG. NO REG. NO N. Bacher S. Mikelich RESPONSIBLE PROFESSIONAL: REG. NO REG. NO N. Bacher S. Mikelich RESPONSIBLE PROFESSIONAL: REG. NO REG. NO N. Bacher S. Mikelich RESPONSIBLE PROFESSIONAL: REG. NO REG. NO N. Bacher S. Mikelich RESPONSIBLE PROFESSIONAL: REG. NO REG. NO N. Bacher S. Mikelich RESPONSIBLE PROFESSIONAL: REG. NO REG. NO N. Bacher S. Mikelich RESPONSIBLE PROFESSIONAL: REG. NO REG. NO N. Bacher S. Mikelich RESPONSIBLE PROFESSIONAL: REG. NO N. Bacher S. Mikelich RESPONSIBLE PROFESSIONAL: REG. NO N. Bacher S. Mikelich REG. NO N. Bacher S. Mi										
SAMPLENO: Geoprobe macro-core sampler () x 1.5 S. Mikelich HAMMER WEIGHT: NA DROP. NA RESPONSBILE PROFESSIONAL: REG. NO N. Bacher REMARKS REMAR					<u> </u>	·		10	5.5	NA
DESCRIPTION N. Bacher L.G. 2824 DESCRIPTION Not please desertory L.G. 2824									ΟΝΔΙ ·	REG NO
NAME (USCS): color, mosts, % by w.f., plast, density, structure, cemeration, react, with (J. geo. inter.) Surface Elevation: Not Surveyed CONCRETE FLOOR POORLY GRADED SAND (SP): olive brown (2.5Y 4/3), moist, 90% fine to coarse sand, 5% non-plastic fines, 5% fine to course gravel POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines POORLY GRADED SAND (SP): olive brown (2.5Y 4/3), moist, 90% fine to coarse sand, 10% non-plastic fines POORLY GRADED SAND (SP): olive brown (2.5Y 4/3), moist, 90% fine to coarse sand, 10% non-plastic fines POORLY GRADED SAND (SP): olive brown (2.5Y 4/3), moist, 90% fine to coarse sand, 10% non-plastic fines POORLY GRADED SAND (SP): olive brown (2.5Y 4/3), moist, 90% fine to coarse sand, 10% non-plastic fines POORLY GRADED SAND (SP):	HAMM				NA				T	L.G. 2528
CONCRETE FLOOR POCRLY GRADED SAND (SP): olive brown (2.5Y 4/3), moist, 90% fine to coarse sand, 5% non-plastic fines, 5% fine to course gravel POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% f	EPTH (feet)				OVM ADING ppm)	NAME (USCS): color, moist, % by wt., plast. den	nsity, structui r.	re,		REMARKS
POORLY GRADED SAND (SP): olive brown (2.5Y 4/3), moist, 90% fine to coarse sand, 5% non-plastic fines, 5% fine to course gravel POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines Wet POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines Wet POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines MiniRAE 3000 PID Wet Wet Poorly GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines MiniRAE 3000 PID Wet Wet Poorly GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines MiniRAE 3000 PID Wet Wet Wet Poorly GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines MiniRAE 3000 PID Wet Wet Wet Poorly GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines MiniRAE 3000 PID Borthole destroyed using hydrated bentonite chips from total depth to 1.5 feet blow ground surface and bentonite grout from 1.5 feet blow ground surface and bentonite grout from 1.5 feet blow ground surface and bentonite grout from 1.5 feet blow ground surface and bentonite grout from 1.5 feet blow ground surface and bentonite grout from 1.5 feet blow ground surface and bentonite grout from 1.5 feet blow ground surface and bentonite grout from 1.5 feet blow ground surface and bentonite grout from 1.5 feet blow ground surface and bentonite grout from 1.5 feet blow ground surface and bentonite grout from 1.5 feet blow ground surface and bentonite grout from 1.5 feet blow ground surface and bentonite grout from 1.5 feet blow ground surface and bentonite grout from 1.5 feet blow ground surface and be		Sar	Sar	B in			Surveyed			
fine to coarse sand, 5% non-plastic fines, 5% fine to course gravel POORLY GRADED SAND with SILT (SP-SM): black (2.5Y 2.5/1), moist to wet, 90% fine to coarse sand, 10% non-plastic fines OVM reading collected using a RAE Systems MiniRAE 3000 Pilo calibrated with 100 ppm isobutylene standard. wery strong odor very strong odor Bottom of boring at 12.0 feet; cannot drill deeper due to flowing sands fine to coarse sand, 5% non-plastic fines. 5% fine to course gravel OVM reading collected using a RAE Systems MiniRAE 3000 Pilo calibrated with 100 ppm isobutylene standard. Borehole destroyed using hydrated bentonite chips from total deeple of the feet of the plantage and bentonite grout from 1.5 feet to 0.75 feet below ground surface. Surface finished with concrete.	_		X				5)(4/0)	-:		
moist to wet, 90% line to coarse sand, 10% non-plastic lines OVM reading collected using a RAE Systems MiniRAE 3000 PID calibrated with 100 ppm isobutylene standard. Wet wet 10	1- -	0311-2			0.0				_	doming a domeroid
using a RAE Systems MinRaE 3000 PID calibrated with 100 ppm isobutylene standard. wet very strong odor very strong odor bottom of boring at 12.0 feet; cannot drill deeper due to flowing sands below ground surface and bentonite grout from 1.5 feet to 0.75 feet below ground surface and bentonite grout from 1.5 feet in 0.75 feet below ground surface. Surface finished with concrete.	_	KM-38-	X						- OVM rea	ding collected
Social scoulylene standard. Social Social Section So	_				0.0			_	using a F MiniRAE	RAE Systems 3000 PID
8- 9- 10- 11- 11- 12- 13- 13- 14- 16- 17- 16- 17- 17- 17- 18- 18- 18- 18- 18- 18- 18- 18- 18- 18	_	38-0311-5			0.0				isobutyle	ne standard.
8- 9- 10- 11- 12- 13- 14- 15- 16- 16- 17- 17- 18- 9- 20.3 very strong odor very strong odor Bottom of boring at 12.0 feet; cannot drill deeper due to flowing sands Borehole destroyed using hydrated bentonite chips from total depth to 1.5 feet below ground surface and bentonite ground surface and bentonite ground surface. Surface finished with concrete.	_	K	X			▼ wet		_	_	
8- 9- 10- 11- 12- 13- 13- 14- 15- 16- 16- 17- 17- 17- 10- 20.3 69.4 very strong odor very strong odor very strong odor very strong odor Bottom of boring at 12.0 feet; cannot drill deeper due to flowing sands Borehole destroyed using hydrated bentonite chips from total depth to 1.5 feet below ground surface and bentonite grout from 1.5 feet to 0.75 feet below ground surface. Surface finished with concrete.	_				0.6			_	- -	
20.3 69.4 811 very strong odor Bottom of boring at 12.0 feet; cannot drill deeper due to flowing sands 14- 15- 16- 17- 17- 17- 18- 18- 18- 18- 18- 18- 18- 18- 18- 18	8-				381			-	-	
10- 11- 12- 13- 13- 14- 15- 16- 17- 17- 17- 17- 17- 17- 17- 17- 17- 17	9-				20.3	very strong odor		_	-	
hydrated bentonite chips from total depth to 1.5 feet below ground surface and bentonite grout from 1.5 feet to 0.75 feet below ground surface. Surface finished with concrete.	10-				69.4			_	- Borehole	destroyed using
very strong odor Bottom of boring at 12.0 feet; cannot drill deeper due to flowing sands bentonite grout from 1.5 feet to 0.75 feet below ground surface. Surface finished with concrete.	11-				811			-	hydrated from tota	bentonite chips I depth to 1.5 feet
Bottom of boring at 12.0 feet; cannot drill deeper due to flowing sands ground surface. Surface finished with concrete. 13 14 15 16 17 17	12-		Щ				alica to Co.		bentonite	grout from 1.5
-	13-					Бощотн от borning at 12.0 leet; cannot drill deeper (uue to 110Wl	ng sailus		
-	_							-	- -	
	- 15-							-	-	
	16-							-	-	
	17-							-	-	
10	- 18-								-	
AMEC Geomatrix Project No. 14697 Page 1 of 1		Δ	ME	EC (Geoma	ıtrix		Project No. 14697	7	Page 1 of 1

	loore Pair etown, Se	nt Company, Data Gaps Investigation attle, WA	Log of E	Boring No.	KM-39		
BORING LOCATION:			ELEVATION AND DAT				
			Not surveyed; date DATE STARTED:	um is ground s DATE FII			
DRILLING CONTRAC	TOR: Cas	scade Drilling, Inc.	3/24/11	3/24/11			
DRILLING METHOD:	Direct	push	TOTAL DEPTH (ft.): 12.0	Ground	RING POINT:		
DRILLING EQUIPMEN	NT: Geopr	obe 5400 (Limited Access Rig)	DEPTH TO WATER (ft.	FIRST .) 5.3	COMPL.		
SAMPLING METHOD:	Geoprob	e macro-core sampler [4' x 1.5"]	LOGGED BY: S. Mikelich				
HAMMER WEIGHT:	NA	DROP: NA	RESPONSIBLE PROFI N. Bacher	ESSIONAL:	REG. NO. L.G. 2528		
Cfeet) Sample No. Sample Sample Blows/ Ginches	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. d cementation, react. w/HCl, geo. in	ter.		REMARKS		
0 0 = 6) L		t Surveyed	O) (N 4 ====	dia a salla ata d		
1 - 25 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2		Scale pit- no recovery		using a R MiniRAE calibrated	ding collected AE Systems 3000 PID I with 100 ppm ne standard.		
-031 0-031		Pit bottom: layers of old resins and paint.					
KM-39-0311-2.5-D	1972	Scattered wood and burned debris		Duplicate at 2.5 fee	soil sample taken t		
4 - 9-1180-08-2-0-2-0-2-0-2-0-2-0-2-0-2-0-2-0-2-	1144	POORLY GRADED SAND with SILT (SP-SM) dry to wet, 90% fine to coarse sand, 10% non-odor		- - -			
6-	1283	wet		- - -			
7-				_			
8- - 9-	1504						
10-	1367			hydrated from total	destroyed using bentonite chips depth to 3 feet bund surface and 1 3 to 2 feet below urface.		
12-		Bottom of boring at 12.0 feet; cannot drill deepe	er due to flowing sands				
13- - 14- - 15-				Schedule Screen dr	le 3/4" diameter 40 PVC, 5 foot iven from 5 to 10 nple 311-W collected.		
1 1 1				_			
16- - 17-				-			
-							
-				_ _ _	OAKBOREV (REV. 8/2007)		

PROJE	CT:				nt Company, Data Gaps Investigation attle, WA	Log of E	Bori	ng No.	KM-40
BORIN	G LO			-	uilding 10	ELEVATION AND DATE Not surveyed; date		s around si	ırface
DRILLI	NG C	ONTI	RACT	OR: Cas	cade Drilling, Inc.	DATE STARTED: 3/21/11		DATE FIN 3/21/11	ISHED:
DRILLI	NG M	ETH	OD:	Direct	push	TOTAL DEPTH (ft.): 12.0		Ground	
DRILLI	NG E	QUIP	MEN	T: Geopr	obe 5400 (Limited Access Rig)	DEPTH TO WATER (ft.) FI) 6.	RST 0	COMPL.
SAMPL	ING N	METH	HOD:	Geoprob	e macro-core sampler [4' x 1.5"]	LOGGED BY: S. Mikelich			
HAMM	ER W	EIGH	HT:	NA	DROP: NA	RESPONSIBLE PROFE N. Bacher	ESSIC	NAL:	REG. NO. L.G. 2528
DEPTH (feet)	Sample No.	Sample	Blows/ M 6 inches	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. dens cementation, react. w/HCl, geo. inter.	ity, structure,		F	REMARKS
	Sal	Sal	Blc 6 in	RE (Surface Elevation: Not Sur	rveyed			
_	-	X		28.6	CONCRETE FLOOR		_		ed from 0 to 0.5 sing a concrete
1-	11-2				POORLY GRADED SAND with SILT (SP-SM): bl moist to wet, 90% fine to medium sand, 10% non-		-	corer.	oning a domorate
2-	KM-40-0311-2			314					
_	¥ ∑ ∑						-	OVM read	ing collected
3-	5.								AE Systems
4-	KM-40-0311-4.5						-	calibrated	with 100 ppm e standard.
_	M-40-(-		
5- -				1157			F		
6-					↓ wet		-		
7-				1596	· 		╧		
_	_	\downarrow	,		POORLY GRADED SAND with SILT (SP-SM): bl wet, 90% fine to coarse sand, 10% non-plastic fine		-		
8-									
9-	_			583			-		
- 10-				1308					
-	-			1000			-		lestroyed using entonite chips
11-				1698			-		depth to 1.5 feet and
12-		X						bentonite (grout from 1.5 5 feet below
-					Bottom of boring at 12.0 feet; cannot drill deeper de	ue to flowing sands	-		rface. Surface th concrete.
13-	1						-		
14-	-						-		
- 15-									
_							-		
16-									
17-	-						_		
-							-		
18-				0 -	B5	Ι		1	OAKBOREV (REV. 8/2007)
	Δ	MI	EC (Geoma	itrix	Project No. 1	4697		Page 1 of 1

PROJE			loore Pain	t Company, Data Gaps Investigation	Log of E	Boring	No. KM-41
BORIN			Inside B		ELEVATION AND DAT		df
					Not surveyed; date DATE STARTED:		und surrace ATE FINISHED:
DRILLII	NG CC	NIRACI	OR: Cas	cade Drilling, Inc.	3/24/11		24/11
DRILLII	NG ME	THOD:	Direct	push	TOTAL DEPTH (ft.): 12.0	Gı	EASURING POINT: round surface
DRILLII	NG EC	UIPMEN	T: Geopre	obe 5400 (Limited Access Rig)	DEPTH TO WATER (ft	.) FIRST 4.8	COMPL.
SAMPL	ING M	ETHOD:	Geoprob	e macro-core sampler [4' x 1.5"]	LOGGED BY: S. Mikelich		
HAMMI	ER WE	EIGHT:	NA	DROP: NA	RESPONSIBLE PROFI	ESSIONAL:	REG. NO. L.G. 2528
DEРТН (feet)	Sample S No.	Sample Blows/ Sample 6 inches	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. dens cementation, react. w/HCl, geo. inter.	sity, structure,		REMARKS
	Sar	Sar Blc 6 in	RE (Surface Elevation: Not Su	ırveyed		
1— 2— 3— 4— 5— 6— 7— 8— 9— 10—	KM-41-0311 4% -41-0311-3		1362 1957 1600	SILTY SAND with GRAVEL (SM): yellowish brown moist, 45% fine to coarse sand, 40% fine to course non-plastic fines, paint chips, odor black (10YR 2/1), burned lense, chared wood and wet POORLY GRADED SAND (SP): black (2.5Y 2.5, 90% fine to course sand, 10% non-plastic fines, or	d debris /1), moist to wet,	Usir Min cali isoh	M reading collecteding a RAE Systems iiRAE 3000 PID brated with 100 ppm outylene standard.
11— 12— 13— 14— 15— 16— 17—				Bottom of boring at 11.0 feet; cannot drill deeper of	due to flowing sands	fror beld san beld beld beld beld beld beld beld beld	drated bentonite chips in total depth to 3.5 feet ow ground surface and ind from 3.5 to 2.7 feet ow ground surface. posable 3/4" diameter nedule 40 PVC, 5 foot een driven from 5 to 10 t. Sample -41-0311-W collected.
18-		-	1		,		OAKBOREV (REV. 8/2007)
	Α	MEC	Geoma	trix	Project No. 1	4697	Page 1 of 1

PROJE	ECT:				nt Company, Data Gaps Investigation attle, WA	Log of B	ori	ng No.	KM-42
BORIN	G LO			Inside B		ELEVATION AND DATU			
						Not surveyed; datu	m is	DATE FIN	
DRILLI	NG CO	JNI	RACI	OR: Cas	cade Drilling, Inc.	3/24/11		3/24/11	
DRILLI	NG M	ETH	OD:	Direct	push	TOTAL DEPTH (ft.): 12.0	1	Ground	ING POINT: surface
DRILLI	NG E	QUIF	PMEN	T: Geopr	obe 5400 (Limited Access Rig)	DEPTH TO WATER (ft.)	FIF 5.0	RST O	COMPL.
SAMPL	_ING N	ИЕТI	HOD:	Geoprob	e macro-core sampler [4' x 1.5"]	LOGGED BY: S. Mikelich			
HAMM	ER W	EIGH	HT:	NA	DROP: NA	RESPONSIBLE PROFESION. Bacher	SSIO	NAL:	REG. NO. L.G. 2528
DEPTH (feet)	Sample No.	Sample TA	Blows/ G 6 inches	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. densi cementation, react. w/HCl, geo. inter.				REMARKS
	Š	ιχ	B B	₩.	Surface Elevation: Not Sur	veyed			
_	-	X			CONCRETE FLOOR	201 = 24.4.440.0			red from 0 to 0.5 sing a concrete
1- - 2- -	KM-42-0311-2			715	SANDY SILT with GRAVEL (SM): greenish gray (moist, 45% fine to medium sand, 40% fine to cours non-plastic fines, odor SAND and SILT (SA-SJ): black (10YR 2/1), moist 50% non-plastic fines, odor	se gravel, 15%	 	corer.	ling collected
3-	-			2421	DOODLY CRADED CAMP with OILT (CR CM), but	ook (2 EV 2 E/1)	_	using a R MiniRAE	AE Systems 3000 PID
4-	311-5			2704	POORLY GRADED SAND with SILT (SP-SM): bl. moist to wet, 90% fine to coarse sand, 10% non-pl.				with 100 ppm e standard.
5-	KM-42-0311-5				wet		_		
6- - 7-				373			_		
- 8-	-	X					_		
9-	-			374			- -		
10-				958			-	Borehole	destroyed using
11-	-			626			-	hydrated from total	pentonite chips depth to 1.5 feet und surface and
12-					D. II. (1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		-	bentonite	grout from 1.5 5 feet below
_	-				Bottom of boring at 12.0 feet; cannot drill deeper du	ue to flowing sands	$\left - \right $	ground su	rface. Surface
13-	1						-	misrieu W	iii oonocie.
_	1						-		
14 –									
- 15-									
-	1						-		
16 – –	1								
17-	-						-		
_	1						-		
18-	!	1							OAKBOREV (REV. 8/2007)
	Δ	M	EC (Geoma	trix	Project No. 14	697		Page 1 of 1

Georgetown, Seattle, WA BORING LOCATION: Inside Building 8 DRILLING CONTRACTOR: Cascade Drilling, Inc. DRILLING METHOD: Direct push DRILLING EQUIPMENT: Geoprobe 5400 (Limited Access Rig) SAMPLING METHOD: Geoprobe macro-core sampler [3' x 1.5"] HAMMER WEIGHT: NA DROP: NA	ELEVATION AND DATUM Not surveyed; datum DATE STARTED: 3/23/11 TOTAL DEPTH (ft.): 7.0 DEPTH TO WATER (ft.) LOGGED BY: S. Mikelich RESPONSIBLE PROFES N. Bacher	DATE FINIS 3/23/11 MEASURIN Ground s FIRST 5.5	SHED: IG POINT: surface COMPL.
DRILLING METHOD: Direct push DRILLING EQUIPMENT: Geoprobe 5400 (Limited Access Rig) SAMPLING METHOD: Geoprobe macro-core sampler [3' x 1.5"] HAMMER WEIGHT: NA DROP: NA	DATE STARTED: 3/23/11 TOTAL DEPTH (ft.): 7.0 DEPTH TO WATER (ft.) LOGGED BY: S. Mikelich RESPONSIBLE PROFES	DATE FINIS 3/23/11 MEASURIN Ground s FIRST 5.5	SHED: IG POINT: surface COMPL.
DRILLING EQUIPMENT: Geoprobe 5400 (Limited Access Rig) SAMPLING METHOD: Geoprobe macro-core sampler [3' x 1.5"] HAMMER WEIGHT: NA DROP: NA	TOTAL DEPTH (ft.): 7.0 DEPTH TO WATER (ft.) LOGGED BY: S. Mikelich RESPONSIBLE PROFES	MEASURIN Ground s FIRST 5.5	compl.
SAMPLING METHOD: Geoprobe macro-core sampler [3' x 1.5"] HAMMER WEIGHT: NA DROP: NA	DEPTH TO WATER (ft.) LOGGED BY: S. Mikelich RESPONSIBLE PROFES	FIRST 5.5	COMPL.
HAMMER WEIGHT: NA DROP: NA	S. Mikelich RESPONSIBLE PROFES		NA
	RESPONSIBLE PROFES	SIONAL:	100
CAMPLEC			REG. NO. L.G. 2528
SAMPLES SAMPLES O O O O O O O O		RI	EMARKS
Surface Elevation: Not Su CONCRETE FLOOR	ırveyed	Paring core	d from 0 to 0.5
1 - 2 2 2 2 2 2 2 2 2 2	fine to coarse sand,	feet bgs usi corer. Very OVM readir using a RAI MiniRAE 30 calibrated w isobutylene Borehole de hydrated be from total de below grour bentonite gu feet to 0.75	ng a concrete poor recovery. ng collected E Systems 100 PID 101 pith 100 ppm 102 standard. 103 sestroyed using entonite chips epth to 1.5 feet and rout from 1.5 feet below ace. Surface
18			OAKBOREV (REV. 8/2007)
AMEC Geomatrix	Project No. 146		Page 1 of 1

BORING LOCATION. See map SEEVATION AND DATUM: 1975 SAM STATE SAM STATE SAM	PROJE			rmer attle,		oore Facility		Log of B	ori	ing No.	KM-44
DRILLING CONTRACTOR: Cascade Drilling, Inc. DATE STARTED: 34/15 3	BORIN)					face
DRILLING EQUIPMENT: Power Probe 9630 DRILLING EQUIPMENT: Power Probe 9630 DRILLING METHOD: 5-foot-continuous-core system [5' x 2"] LOGGED BY: N. Moxiey HAMMER WEIGHT: NA DROP: NA DESCRIPTION N. Moxiey DESCRIPTION N. Moxiey DESCRIPTION N. Moxiey REMARKS REMARKS REMARKS REMARKS REMARKS REMARKS REMARKS REMARKS REMARKS OVM reading collected using a RAE System to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND with gravel REMARKS REMARKS REMARKS REMARKS REMARKS REMARKS ACCOMPLIANCES REMARKS ACCOMPLIANCES REMARKS OVM reading collected with gravel REMARKS REMARKS REMARKS REMARKS REMARKS REMARKS REMARKS REMARKS	DRILLI	ING C	ON	TRAC ⁻	TOR: Cas	cade Drilling, Inc.		DATE STARTED:		DATE FI	
Delicing E-Quirment: Power Proce 9430 SAMPLING METHOD: 5-foot-continuous-core system [5' x 2"] HAMMER WEIGHT: NA DROP: NA DROP: NA DESCRIPTION N. Moxley REMARKS REMAR	DRILLI	ING M	ETH	HOD:	Direct	push		TOTAL DEPTH (ft.):		Ground	
HAMMER WEIGHT: NA DROP: NA DROP: NA RESPONSIBLE PROFESSIONAL: REG. NC L.G. 302 A	DRILLI	ING E	QUI	PMEN	IT: Power	Probe 9630		DEPTH TO WATER (ft.)		
DESCRIPTION NAME (USCS): color, moist. % by wt. pleast density, structure, comentation, react withcl que, or comentation, react with que, or comentation, reaction, reaction	SAMPI	LING N	ИЕТ	HOD:	5-foot-co	ontinuous-core system [5' x 2"]		N. Moxley			
NAME (USCS): color, most, % by wt., plast, density, structure, cementation, react. wHoft, geo. Inter. Surface Elevation: Not Surveyed POORLY-GRADED SAND with GRAVEL (SP): light brown moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand with gravel gravel grade fine to medium	HAMM				NA	DROP: NA			ESS	IONAL:	REG. NO. L.G. 3024
POORLY-GRADED SAND with GRAVEL (SP): light brown moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand Wet wet sheen and strong TPH odor The sheen and strong TPH odor Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade. Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade.	EPTH (feet)				PID (mdd)	NAME (USCS): color, moist, % by w	t., plast. dens	ity, structure,		F	REMARKS
poorly graded fine to medium sand with grave! POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand OVM reading collected using a RAE Systems MiniRAE 2000 PID collocated using a RAE Systems MiniRAE		Sal	Sal	쯢굔	O	Surface Elevation	: Not Sur	veyed			
POORLY-GRADED SAND (SP): dark gray moist, poorly graded fine to medium sand OVM reading collected using a RAE Systems MiniRAE 2009 PID calibrated with 100 ppm isobutylene standard. wet sheen and strong TPH odor The sheen and strong TPH odor Groundwater sample KM-44-50-9.0 collected from a temporary, 34* diameter, stainless steel well screen set from 5.0-9.0 feet BGS. Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade.	_							ght brown moist,			
OVM reading collected using a RAE Systems MiniRAE 200 PID calibrated with 100 ppm isobutylene standard. Wet sheen and strong TPH odor The sheen and strong TPH odor To all the sheen and strong TPH odor Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade. Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade.	1-	1				POORLY-GRADED SAND (SP): dar		, poorly graded	-		
OVM reading collected using a RAE Systems MiniRAE 2000 PID calibrated with 100 ppm isobutylene standard. Wet sheen and strong TPH odor 1257 Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade. Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade.	_	1				mile to mediam dana			-		
using a RAE Systems wet sheen and strong TPH odor Total a Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade. Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade.	2-										
wet sheen and strong TPH odor 1257 Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade. Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade.	3-	-							_	using a R	AE Systems
Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade. Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade.	_		\prod_{i}						_	calibrated	with 100 ppm
wet sheen and strong TPH odor 1257 Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade. Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade.	4-		X							isobutylei	ie staridard.
sheen and strong TPH odor 1257 8 -	5-		\mathbb{A}^{\setminus}						_		
sheen and strong TPH odor 1257 Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade. Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade.	_					— wet			-		
Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade. Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade.	6-					sheen and strong TPH odor					
Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade. Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade.	7-					'			_	Groundwa	ater sample
Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade. Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade.	-				1257				-	KM-44-5.	0-9.0 collected
Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade. 11- 12- 13- 14 15- OAKBOREV (REV. 8/201	8-									diameter,	stainless steel
Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade. 11 12 13 14 15	9-		\mathbb{N}						_	5.0-9.0 fe	et BGS.
Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade. 11 12 13 14 15	-	-							-		
11 -	10 –		Y	<u> </u>			illed with ben	tonite chips and	+		
13- 14- 15	11-	_				minshed to match existing grade.					
13 -	_								-		
14	12-								-		
14 — — — — — — — — — — — — — — — — — — —	13-										
15 OAKBOREV (REV. 8/201	=	_							-		
OAKBOREV (REV. 8/201	14 –	_							-		
OAKBOREV (REV. 8/201	- 15-										
Project No. 14697 Page 1 of 1					٨				00-		1

BORING LOCATION: See map Rel STARTED DRILLING CONTRACTOR: Cascade Drilling, Inc. DATE STARTED: DATE FINSHED: 34/15 A4/15 DRILLING METHOD: Direct push TOTAL DEPTH (IL): MEASURING POINT: 10,0 DRILLING METHOD: Flower Probe 9630 DRILLING METHOD: 5-foot-continuous-core system [5' x 2"] DRILLING METHOD: 5-foot-continuous-core system [5' x 2"] NAMPLING METHOD	PROJECT: Form	er Kelly Mo le, WA	ore Facility	L	og of Bor	ing No. I	KM-45
DRILLING CONTRACTOR: Cascade Drilling, Inc. DATE STARTED. 34/15 34/15 34/15 34/15 DRILLING METHOD: Direct push DRILLING METHOD: Direct push DRILLING EQUIPMENT: Power Probe 9630 DEPTH TO WATER (II) SAMPLING METHOD: 5-foot-condinuous-core system [5' x 2''] NAME (USCS): color. most. % by wt. plast. deneity, structure, commensation, react. wild (I) ges. inter. SAMPLING METHOD: 5-foot-condinuous-core system [5' x 2''] NAME (USCS): color. most. % by wt. plast. deneity, structure, commensation, react. wild (I) ges. inter. SAMPLING METHOD: 5-foot-condinuous-core system [5' x 2''] NAME (USCS): color. most. % by wt. plast. deneity, structure, commensation, react. wild (I) ges. inter. Surface Elevation: Not Surveyed POORLY-GRADED SAMD will GRAVE (ISP): gray moist, poorly graded fine to medium sand with grave! POORLY-GRADED SAMD will GRAVE (ISP): dark gray to black moist, poorly graded fine to medium sand with grave! POORLY-GRADED SAMD will GRAVE (ISP): dark gray to black moist, poorly graded fine to medium sand with grave! POORLY-GRADED SAMD will GRAVE (ISP): dark gray to black moist, poorly graded fine to medium sand with grave! POORLY-GRADED SAMD will GRAVE (ISP): dark gray to black moist, poorly graded fine to medium sand with grave! POORLY-GRADED SAMD will GRAVE (ISP): dark gray to black moist, poorly graded fine to medium sand finished to medium sand with grave! Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade. Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade.							ace
DRILLING EQUIPMENT: Power Probe 9630 LOGGED BY: N. Moxtey N. Moxtey RESPONSIBLE PROFESSIONAL: REG. NO. N. Moxtey RESPONSIBLE PROFESSIONAL: REG. NO. N. Moxtey REMARKS REMARKS REMARKS READ 0	DRILLING CONTRA	ACTOR: Cas	cade Drilling, Inc.	DATE STA 3/4/15	RTED:	DATE FIN 3/4/15	ISHED:
DRILLING EQUIPMENT: Power Probe 9630 SAMPLING METHOD: 5-foot-continuous-core system [5' x 2'] NA DROP: NA DROP: NA DROP: NA DROP: NA DESCRIPTION N. Moxiey RESPONSIBLE PROFESSIONAL: REG. NO. N. Moxiey REMARKS OVA SAMPLIS Description Not Surveyed POORLY-GRADED SAND vish GravEL (SP): gray moist, poorly graded fine to medium sand with grave! POORLY-GRADED SAND vish GravEL (SP): gray moist, poorly graded fine to medium sand with grave! POORLY-GRADED SAND vish GravEL (SP): gray moist, poorly graded fine to medium sand with grave! POORLY-GRADED SAND vish GravEL (SP): gray moist, poorly graded with 100 ppm isobutylene standard. OVM reading collected using a RAE Systems MiniRAE 2000 PID calibrated with 100 ppm isobutylene standard. Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade. Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade.	DRILLING METHOD	D: Direct	push		PTH (ft.):	Ground s	urface
SAMPLES NA DROP: NA DROP: NA DESCRIPTION N. Moxiey HAMMER WEIGHT: NA DROP: NA DESCRIPTION N. Moxiey SAMPLES SAMPLES SAMPLES SUFFIGURE STORM SET	DRILLING EQUIPM	ENT: Power	Probe 9630		. ,		
DESCRIPTION NAMPLES SAMPLES SERVICES SERVICES SERVICES SERVICES SERVICES SERVICES SURface Elevation: Not Surveyed POORLY-GRADED SAND with GRAVEL (SP): gray moist, poorly graded fine to medium sand with grave! POORLY-GRADED SAND with GRAVEL (SP): gray moist, poorly graded fine to medium sand brick, glass, and unknown debris OVM reading collected using a RAE Systems MirraRE 2000 PID collected from a temporary, 34* diameter, stainless steel well screen set from 5.0-9.0 feet BGS. Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade.	SAMPLING METHO	D: 5-foot-co	ontinuous-core system [5' x 2"]	N. Moxley	,		
NAME (USCS): color, moist, % by w.L. plast, density, structure, cemeratation, react, wHCl, go, colinter. Surface Elevation: Not Surveyed POORLY-GRADED SAND with GRAVEL (SP): gray moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray to black moist, poorly graded fine to medium sand brick, glass, and unknown debris OVM reading collected using a RAE Systems MiniRAE 2000 PID called with 100 ppm isobutylene standard. Wet sheen and strong TPH odor To the standard of the sheet of the sh			DROP: NA			SIONAL:	
POORLY-GRADED SAND (SP): dark gray to black moist, poorly graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray to black moist, poorly graded fine to medium sand brick, glass, and unknown debris OVM reading collected using a RAE systems MinirRAE 2000 PID calibrated with 100 ppm isobutylene standard. wet sheen and strong TPH odor The sheen and strong TPH odor The sheen and strong TPH odor Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade. Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade.		_	NAME (USCS): color, moist, % by wt.,	plast. density, structure	e,	RI	EMARKS
graded fine to medium sand with gravel POORLY-GRADED SAND (SP): dark gray to black moist, poorly graded fine to medium sand brick, glass, and unknown debris OVM reading collected using a RAE systems MiniRAE 200 PID calibrated with 100 ppm isobutylene standard. wet sheen and strong TPH odor To a continue of the standard of the sheen and strong TPH odor Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade. Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade.	San San Bic	Ĭ. O	Surface Elevation:	Not Surveyed			
POORLY-reARDED SAND (SP): dark gray to black moist, poorly graded fine to medium sand brick, glass, and unknown debris OVM reading collected using a RAE Systems MiniRAE 2000 PID calibrated with 100 ppm isobutylene standard. wet sheen and strong TPH odor wet sheen and strong TPH odor Groundwater sample KM-45-50-9.0 collected from a temporary, 3/4 diameter, stainless steel well screen set from 5.0-9.0 feet BGS. Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade.	-				poorly		
OVM reading collected using a RAE Systems MiniRAE 2000 PID calibrated with 100 ppm isobutylene standard. wet sheen and strong TPH odor Groundwater sample KM-45-5.0-9.0 collected from a temporary, 3/4* diameter, stanless steel well screen set from 5.0-9.0 feet BGS. Boring terminated at 10.0 feet, backfilled with bentonite chips and finished to match existing grade.	_		graded fine to medium sand	gray to black moist, p	oorly		
OAKBOREV (REV. 8/2011)	3 - 4 - 5 - 6 - 7 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 13 - 13 - 13 - 14 - 15 - 15 - 15 - 15 - 15 - 15 - 15	2070	sheen and strong TPH odor Boring terminated at 10.0 feet, backfille	ed with bentonite chips	s and	Groundwat KM-45-5.0 from a tem diameter, swell screer	E Systems 000 PID with 100 ppm e standard. er sample -9.0 collected porary, 3/4" stainless steel a set from
OAKBOREV (REV. 8/2011)	15						
		•				C	

rkUJE(e, WA	oore Facility	Log of I	Bori	ng No.	KM-46
000000			-		ELEVATION AND DA	TUM:		
BORING	LOCA	ATTON	I: See map)	Not Surveyed; datu		ground surf	ace
	0 00:	UTC 1	OTOD: O	seeds Drilling In-	DATE STARTED:		DATE FIN	
UKILLIN	G COI	NIKA	CIUR: Cas	scade Drilling, Inc.	3/4/15		3/4/15	
DRILLIN	C 1/1	TUAR	n Diroct	nuch	TOTAL DEPTH (ft.):		MEASUR	ING POINT:
PKILLIN	G IVIE	IHOD	: Direct	, puoi i	10.0		Ground	
DRILLIN	G EQI	JIPME	ENT: Powe	r Probe 9630	DEPTH TO WATER (f	t.)	FIRST 6.0	COMPL. NA
SAMPLII	NG ME	ETHO	D: 5-foot-co	ontinuous-core system [5' x 2"]	LOGGED BY:		1	-
		O			N. Moxley RESPONSIBLE PRO	FESSI	ONAL:	REG. NO
HAMMEI	K WEI	GH1:	NA	DROP: NA	N. Moxley			L.G. 302
_	SAMPle No.	Blows/ Sall	PID (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., cementation, react. w/HCl	plast, density, structure.		F	REMARKS
		월명		Surface Elevation:	Not Surveyed			
_				POORLY-GRADED SAND with GRAVI				
				poorly graded fine to medium sand with		_		
1-				brick and concrete fragments				
4				POORLY-GRADED SAND (SP): dark	gray moist, poorly graded			
2-				fine to medium sand	g,	_		
_						_	0)/14	Dan action (
3-		Ц				_		ling collected AE Systems
	1	/					MiniRAE 2	2000 PID
7	\	/						with 100 ppm
4 —		XΙ					isobutylen	e standard.
_	/					_		
_	V	\						
5-								
-						-		
6						_		
				wet, sheen and strong TPH odor				
٦				*				
7 –			1988			-	Groundwa	ater cample
						_		ter sample 0-9.0 collected
								nporary, 3/4"
8-							diameter,	stainless steel
=						-		n set from
9-		Ц					5.0-9.0 fee	et BGS.
3	/	./						
\dashv	/	X						
10 –	\vdash	\rightarrow		Davis a terrain start at 40 0 feet 1 1 50	de la contraction de la contra	_		
				Boring terminated at 10.0 feet, backfille finished to match existing grade.	ed with bentonite chips and			
				initioned to materi existing grade.				
11 –						-		
4						-		
12-								
\dashv						-		
13-						_		
-								
14 –						-		
15—			1	1				OAKBOREV (REV. 8/201

PROJECT: Form Seat	ier Kelly Mc ile, WA	one racility	Log of Bo	oring No.	KM-47
	-		ELEVATION AND DATU	JM:	
BORING LOCATIO	N: See map		Not Surveyed; datum		face
	10705 0	and D. Strandard	DATE STARTED:	DATE FIN	
DRILLING CONTRA	ACTOR: Cas	cade Drilling, Inc.	3/4/15	3/4/15	
	D. D:	nuch	TOTAL DEPTH (ft.):		ING POINT:
DRILLING METHO	D: Direct	pusii	10.0	Ground	
DRILLING EQUIPM	1ENT: Power	Probe 9630	DEPTH TO WATER (ft.)	FIRST 6.0	COMPL. NA
	DD. E fact on	enting of the control	LOGGED BY:	0.0	INA
SAMPLING METH	JD: 5-100t-cc	ontinuous-core system [5' x 2"]	N. Moxley		
HAMMER WEIGHT	: NA	DROP: NA	RESPONSIBLE PROFE	SSIONAL:	REG. NO L.G. 302
Cfeet) (feet) No. Sample Sample Blows/		NAME (USCS): color, moist, % by wt	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.		
San	Foot PID (ppm	Surface Elevation:	Not Surveyed	-	
		POORLY-GRADED GRAVEL (GP): lig	-		
1- 2- 3- 3- 4- 5- 6- 7- 8- 9- 10- 11- 12- 13-	1941	POORLY-GRADED SAND (SP): dark graded fine to medium sand silty sand gravel, brick, coal, and melted glass wet, sheen and strong TPH odor Boring terminated at 10.0 feet, backfille finished to match existing grade.		using a R. MiniRAE : calibrated isobutyler Groundwa KM-47-5.0 from a ter diameter,	ater sample 0-9.0 collected mporary, 3/4" stainless steel en set from
14 –					
15					OAKBOREV (REV. 8/20
am	ec [©]		Project No. 1469	97	Page 1 of 1

PROJI		ormer Seattle		ore Facility	Log of	Boring	No. I	KM-48				
BORIN			See map		ELEVATION AND DA							
BOITIN	10 200	ATTON.	ОСС Пар		Not Surveyed; datu DATE STARTED:		nd surfa ATE FIN					
DRILL	ING CC	NTRAC	TOR: Cas	cade Drilling, Inc.	3/4/15		4/15	ISHLD.				
DRILL	ING ME	THOD:	Direct	push	TOTAL DEPTH (ft.): 10.0		EASURI round s	NG POINT: urface				
DRILL	ING EQ	UIPMEN	NT: Power	Probe 9630	DEPTH TO WATER (ft.) FIF	RST	COMPL. NA				
SAMD	LING M	ETHOD	· 5-foot-cc	ntinuous-core system [5' x 2"]	LOGGED BY:	0.0	J	INA				
OAWII	LIIVO IVI		. 5-1001-00	mundous-core system [5 × 2]	N. Moxley RESPONSIBLE PRO	EESSIONIA	.I •	REG. NO.				
HAMM	IER WE	IGHT:	NA	DROP: NA	N. Moxley	FESSIONA	\L .	L.G. 3024				
DEPTH (feet)		Sample Sample Blows/ Sample Foot	PID (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plas cementation, react. w/HCl, gec	t. density, structure, b. inter.		R	EMARKS				
ا ق	Sar	Sal Bic Fig		Surface Elevation:	Not Surveyed							
-				POORLY-GRADED SAND with GRAVEL (Spoorly graded fine to medium sand with gra	SP): light brown moist,							
2-				POORLY-GRADED SAND (SP): dark gray graded fine to medium sand	to black moist, poorly							
_				silty sand								
3-				fragments of coal, burn debris, bricks, and	metal slag	– usi Mii	ng a RA niRAE 2	ng collected .E Systems 000 PID with 100 ppm				
4 - 5 - 6 -								e standard.				
7	-		2092	wet, sheen and TPH odor		- KM - fro - dia _ we	1-48-5.0 m a tem meter, s	er sample -9.0 collected porary, 3/4" stainless steel n set from t BGS.				
9-												
10-				Boring terminated at 10.0 feet, backfilled w finished to match existing grade.	ith bentonite chips and							
_												
12-												
13-												
14-	-											
_	1											
15-			1				C	AKBOREV (REV. 8/2011)				
		ame	co		Project No.	14697		Page 1 of 1				

PROJE		ner Kelly Mo ttle, WA	oore Facility	Log c	f Bori	ng No.	KM-49
DODIA		-		ELEVATION AND	DATUM:		
BURIN	IG LOCATIO	ON: See map)	Not surveyed; d			
DRILLI	ING CONTE	RACTOR: Cas	scade Drilling, Inc.	DATE STARTED:		DATE FIN	IISHED:
				3/4/15 TOTAL DEPTH (fi)·	3/4/15 MEASURI	NG POINT:
DRILLI	ING METHO	DD: Direct	push	10.0	-,-	Ground s	
DRILLI	ING EQUIP	MENT: Powe	r Probe 9630	DEPTH TO WATE	R (ft.)	FIRST 6.0	COMPL. NA
SAMDI	I ING METH	IOD: 5-foot-co	ontinuous-core system [5' x 2"]	LOGGED BY:			-
- OAWII I	LINO WETT	10D. 0 100t 0t	Thindous core system [5 × 2]	N. Moxley	DOFFOOI	IONIAL	DEC NO
HAMM	IER WEIGH		DROP: NA	RESPONSIBLE P N. Moxley	RUFESSI	IONAL:	REG. NO. L.G. 3024
DEPTH (feet)	Sample No. Sample	Foot (Spm)	DESCRIPTIOI NAME (USCS): color, moist, % by wt. cementation, react. w/HC	, plast. density, structure,		R	EMARKS
🗖 🖰	Sar Sar	교교 교	Surface Elevation:	Not Surveyed			
1-	-		POORLY-GRADED SAND with GRAV poorly graded fine to medium sand with	/EL (SP): light brown moist,			
2- 3- 3- 4- 5- 6- 7- 8- 9- 10- 11-		1414	POORLY-GRADED SAND (SP): dark fine to medium sand wet, sheen and strong TPH odor Boring terminated at 10.0 feet, backfill finished to match existing grade.		- - - - - - - - - - - - - - - - - - -	using a RA MiniRAE 2 calibrated isobutylend Groundwa KM-49-5.0 from a terr	with 100 ppm e standard. ter sample -9.0 collected aporary, 3/4" stainless steel a set from
12 - 13 - 13 - 14 - 15 -				Project A	- - - - - -		DAKBOREV (REV. 8/2011)
	ar	nec [©]		Project N	lo. 14697		Page 1 of 1
	-						

rkOJE(WA	ore Facility	Log of Boring No. KM-50								
						ELEVATION AND DA	TUM:							
ROKING	LOC	ITA:	ON:	See map		Not surveyed; datu		round surf	ace					
	0.00	\ I	740-	TOD: 0:	anda Drillian Inc	DATE STARTED:		DATE FIN						
UKILLIN —	G CC	אנו 	KACT	UK: Cas	cade Drilling, Inc.	3/4/15		3/4/15						
DRILLIN	C 1/1	TU	2D:	Direct	nuch	TOTAL DEPTH (ft.):		MEASUR	ING POINT:					
PKILLIN	G IVIE	- 1 🗆 (JU.	שוופטו	μασιι	10.0		Ground						
DRILLIN	G EC	UIP	MEN	T: Power	Probe 9630	DEPTH TO WATER (ft.)	FIRST 6.0	COMPL. NA					
SAMPLI	NG M	1ETH	HOD:	5-foot-co	ntinuous-core system [5' x 2"]	LOGGED BY:								
						N. Moxley RESPONSIBLE PRO	FESSI	ONAL ·	REG. NO					
HAMME	R WE	EIGH	IT:	NA	DROP: NA	N. Moxley	LOOI	OIVAL.	L.G. 302					
DEPTH (feet)	SAN e			PID (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., cementation, react. w/HCl,	plast, density, structure.		F	REMARKS					
얼벌	Sample No.	Sample	Blows/ Foot	Р 9										
	,	ין נט	_		Surface Elevation:	Not Surveyed								
_					POORLY-GRADED SAND with GRAVE poorly graded fine to medium sand with		_							
1-	-	Щ					-							
	N	1												
7		\ /					-							
2-		\ /					-							
		1//					_							
		V							ling collected					
3-		1			POORLY-GRADED SAND (SP): dark (aray moist, poorly graded	-+1		AE Systems					
		Λ			fine to medium sand	gray moist, poorly graded	_	MiniRAE 2	with 100 ppm					
		M							e standard.					
4		М						loobatylcii	c staridard.					
4		/ \					_							
_	1	\												
5-														
-							-							
6-														
0					wet, sheen and strong TPH odor									
-					*		-							
7-							_							
				4700					iter sample					
				1768					0-9.0 collected nporary, 3/4"					
8-							_		stainless steel					
									n set from					
								5.0-9.0 fee						
9-	ļ	\dashv					-							
		\bigvee					_							
40		$/ \setminus $												
10 –	ľ				Boring terminated at 10.0 feet, backfille	d with bentonite chips and								
_					finished to match existing grade.	r	-							
11-														
\dashv							-							
12-							_							
7							-							
13-							-							
7														
14 –							-							
							_							
15 —								I	OAKBOREV (REV. 8/201					

PROJE	ECT: I	Form Seat	ner k tle, '	Kelly Mo WA	ore Fa	cility			Log of Bo	ori	ng No. k	KM-51
BORIN				See map)				ON AND DATU			
				·		Illing Inc		DATE ST	eyed; datum ARTED:	ıs g	DATE FINI	
DRILL	ING CC	DNIR	ACT	OR: Cas	cade Dr	illing, Inc.		3/4/15			3/4/15	
DRILL	ING ME	ETHO	D:	Direct	push			10.0	EPTH (ft.):		MEASURIN Ground st	
DRILL	ING EC	QUIPN	/ENT	Γ: Power	Probe 9	9630			O WATER (ft.)		FIRST 6.0	COMPL. NA
SAMP	LING M	1ETH	OD:	5-foot-co	ntinuou	s-core system [5' x 2"]		LOGGED N. Moxle				
HAMN	IER WE	EIGHT	Γ:	NA		DROP: NA		RESPON	SIBLE PROFE	SSI	ONAL:	REG. NO.
HLd3O - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 6 - 10 - 11 - 12 - 13 - 13 - 13 - 13 - 13 - 13	SAM	1PLES		QId (udd) 1281	PC find	DESCRIPTION DESCRIPTION IAME (USCS): color, moist, % by we cementation, react. w/H Surface Elevation DORLY-GRADED SAND (SP): light is to medium sand ork gray ring terminated at 10.0 feet, backfished to match existing grade.	rt., plast. den ICI, geo. inter n: Not Su nt brown mo	r. r	graded		OVM reading using a RA MiniRAE 20 calibrated visobutylened Groundwath KM-51-5.0-from a temp	er sample 9.0 collected porary, 3/4" tainless steel set from
14-	-									-		
_										$\left - \right $		
15-											0.	AKBOREV (REV. 8/2011)
		an	nec	9					Project No. 146	97		Page 1 of 1

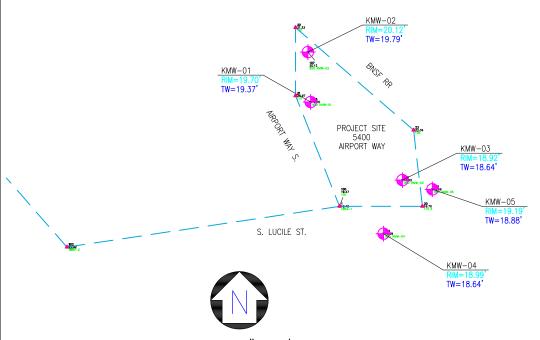
PROJE			er Kelly Mo le, WA	oore Facility		Log of B	orin	g No.	KM-52
BORIN			N: See map			ELEVATION AND DATO Not surveyed; datum		ound surf	200
DRILLI	NG C	ONTRA	ACTOR: Cas	cade Drilling, Inc.	[DATE STARTED: 3/4/15	is git	DATE FIN 3/4/15	IISHED:
DRILLI	NG M	ETHOD	D: Direct	push		TOTAL DEPTH (ft.): 10.0		Ground s	
DRILLI	NG E	QUIPM	ENT: Power	Probe 9630		DEPTH TO WATER (ft.)		FIRST 5.5	COMPL. NA
SAMPL	_ING I	METHO	D: 5-foot-co	ontinuous-core system [5' x 2"]	1	LOGGED BY: N. Moxley			
HAMM	ER W	EIGHT	: NA	DROP: NA		RESPONSIBLE PROFE N. Moxley	SSIO	NAL:	REG. NO. L.G. 3024
DEPTH (feet)	Sample Sample No.	Sample Table Blows/ Sample		DESCRIPTI NAME (USCS): color, moist, % by v cementation, react. w/h	vt., plast. densit	ty, structure,		F	EMARKS
	Sa	Sa		Surface Elevation POORLY-GRADED SAND with GRA		•			
1 2 3 3 5 6 7 8 10 11 12 13 14-	KM-52-6.0-7.0		623	POORLY-GRADED SAND (SP): regraded fine to medium sand wet, sheen and strong TPH odor Boring terminated at 10.0 feet, backfinished to match existing grade.	ddish brown m			using a RAMiniRAE 2 calibrated isobutylen Groundwa KM-52-5.0 from a ten diameter,	with 100 ppm e standard. ter sample 1-9.0 collected inporary, 3/4" stainless steel in set from
4-									
15-	-		•						OAKBOREV (REV. 8/2011)
		am	ec [©]			Project No. 146	597		Page 1 of 1

ORING LOCATION	aria ugc	ort Way South, Seattle, WA	Log of Bo	oring No. k	CM-53				
	•	•	ELEVATION AND DATU	ATUM:					
	NORTH	ERN END OF PARKING LOT	Ground Surface	-					
	2705 2	and Differential	DATE STARTED:	DATE FINI	SHED:				
RILLING CONTRAC	CTOR: Cas	cade Drilling, Inc.	8/2/16	8/2/16					
	<u> </u>		TOTAL DEPTH (ft.):	MEASURIN	NG POINT:				
RILLING METHOD:	Direct	pusn	15.0	Ground si					
	NIT. ANAO I	DOWED DDODE 0000		FIRST	COMPL.				
RILLING EQUIPME	NI: AMS I	POWER PROBE 9630	DEPTH TO WATER (ft.)	9.0	N/A				
MDUNG METHOI). Cooprob	e macro-core sampler [5' x 1.5"]	LOGGED BY:						
	J. Geopioi		M. Lanier-Kamaha'o						
MMER WEIGHT:	N/A	DROP: N/A	RESPONSIBLE PROFE	SSIONAL:	REG. NO				
		DI(0) . 14//(J. Long		L.Hg. 13				
SAMPLES	9 0	DESCRIPTION		DI					
ts/ ple . ble ;	, ≥ £ (î	NAME (USCS): color, moist, % by wt., plast. de cementation, react. w/HCl, geo. int	ensity, structure,	Ri	EMARKS				
Sample (No. Sample Blows/	OVM READING (ppm)	<u> </u>		4					
ν Ω m	<u> </u>	Surface Elevation: Grou	nd Surface						
		Asphalt							
7		SILTY SAND (SM): olive gray (5Y 4/2), Moist,	70% fine to coarse						
1-		sand, 10% fine to coarse gravel, 20% low plas		-					
_		material	9						
rvi									
2- S3-53-53-53-53-53-53-53-53-53-53-53-53-53		dark gray (5Y 4/1), 85% fine to coarse sand, 1	5% low plasticity	PID reading	s measured				
- \(\bullet \)		fines	o to low plasticity		in sealed plast				
3 \ \ \ \ \					ate to 100ppm				
3 \/				Isobutylene					
- X									
4- /\				_					
		POORLY-GRADED SAND (SP): dark olive gra	av (5Y 3/2). Moist.						
5		95% fine sand and 5% fines	,,,	-					
9, 4				_					
- KM-53-6									
6- ₹									
-				-					
7-	0								
<i>'</i>									
7									
8-				-					
_ စ္က	289								
9- KM-53-9		ine to medium sand, odor, sheen when wet							
9		becomes wet at 9 ft.		-					
-		Second not at a training		-					
0-									
~									
1-				-	or committee				
<u> </u>	9.1			Groundwate					
Z- KM-53-12					om temporary PVC 0.010 slot				
2- 🕏		fine sand, strong odor, sheen when wet		screen, 11-					
-		Jana, Janany Jan, Shooti Wildii Wot		KM-53-0802					
3- 13.5				_	-				
~ <u>.</u>									
23									
- KM-53				-					
3- KM-83-13.5									
4-	1	End Of Daring At 15th		 					
14-				1 1					
14 –		End Of Boring At 15ft Boring backfilled with medium bentonite chips to	nvrdated in place	-					
114-		Boring backfilled with medium bentonite chips h							
115		Boring backfilled with medium bentonite chips he from total depth to 6 inches below ground surfa							
14 - KWW 15 - KWW 16		Boring backfilled with medium bentonite chips h		_ _ _					
114-		Boring backfilled with medium bentonite chips he from total depth to 6 inches below ground surfa			AKBOREV (REV. 3/201				

ROJI	ECT:			loore 580 Airpe	ort Way South, Seattle, WA	Log of Boring No. KM-54							
a=::				•	<u> </u>	ELEVATION AND DA	TUM:						
JRIN	IG LO	CAT	ION:	NORTH	RN PARKING LOT ENTRANCE	Ground Surface	•						
י יוכ	NO O	O 1 1 7		TOD: 0=	anda Drilling Inc	DATE STARTED:		DATE FIN	ISHED:				
KILL —	ing C	UN I	KAC	TOR: Cas	cade Drilling, Inc.	8/2/16		8/2/16					
	INIC M	СТ	IOD:	Direct	nuch	TOTAL DEPTH (ft.):		MEASURI	NG POINT:				
ILL	NG M		יטט:	Direct	μασιι	15.0		Ground s					
11 11	NG F	OLIII	PME	NT. VIV	POWER PROBE 9630	DEPTH TO WATER (f	†)	FIRST	COMPL.				
	IVO L	QUII	1 1VILI	VII. AIVIOI	OWERT ROBE 3000	·	ι.,	9.0	N/A				
MP	LING I	MET	HOD	: Geoprob	e macro-core sampler [5' x 1.5"]	LOGGED BY:							
					a	M. Lanier-Kamaha'		10111					
ΜN	ER W	EIG	HT:	N/A	DROP: N/A	RESPONSIBLE PRO	FESS	IONAL:	REG. NO				
	SΔ	MPL	ES	- 45	DECORIDATION	J. Long			L.Hg. 13				
æ			1	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. de	ensity structure		R	EMARKS				
(feet)	Sample No.	Sample	Blows/ Foot	OVM EADIN (ppm)	cementation, react. w/HCl, geo. int	er.							
_	San	San	응고	A A	Cumfoco Elevation Consu	and Courters							
	"	+	ļ -			nd Surface	-						
_					Asphalt								
,					SILTY SAND with GRAVEL (SM): dark olive b								
1-	1				60% fine to coarse sand, 20% low plasticity fine	es, 20% fine to	-						
_	1				coarse gravel, fill		-						
2-	-				gray (5Y 6/1), 55% fine to coarse sand, 30% fi	ne to coarse gravel.	_						
-					15% low plasticity fines, fill material	J ,			gs measured				
_	_								in sealed plast				
3-	KM-54-3						-		rate to 100ppm				
_	™	()					_	Isobutylene	;				
4	×	V											
4-													
-	1	/ \					-						
5-	1	<u></u>	4				_						
Ŭ													
_	1				POORLY-GRADED SAND (SP): very dark gra	v (5Y 3/1), Moist,	_						
6-	54-6			0.0	95% fine sand, 5% fines	, , ,	_						
_	KM-54-6						_						
7-													
7-													
-					ine to medium sand		_						
8-	1				V		-						
_	1				strong brown (7.5YR 5/6),								
_	6			0.0									
9-	54-		ĺ	0.0	becomes wet at 9 ft.		-						
-	KM-54-9	\wedge			Dooming Hot at a file		-						
0-	_	<u> </u>	4				_						
•													
	1												
1-	1				hlack (2.5V 2.5/1)		-	Groundwat	er sample				
_	1				black (2.5Y 2.5/1),		_	Groundwat	om temporary				
2-	12			0.0					PVC 0.010 slot				
	KM-54-12			0.0				screen, 11-					
-	Σ̈́						-	KM-54-080					
3-							-						
	13.5			0.0									
_	54-1			0.0									
4-	KM-54-13.	/					-						
-	1	X					-						
5-			4										
					End Of Boring At 15ft								
-	1				Boring backfilled with medium bentonite chips I		-						
16-	1				from total depth to 6 inches below ground surfa	ice. Surface to 6	-						
_	1				inches depth patched with concrete.		_						
17-													
•									DAKBOREV (REV. 3/201				
	Ame	c F	oster	Wheeler		Project No. 0)14697	70030.00007	Page 1 of 1				
_						-							

OJECT: Kelly-Moor 5400-5580	e Airport Way South, Seattle, WA	Log of E	Log of Boring No. KM-55							
	RTHWEST END OF PARKING LOT	ELEVATION AND DA	TUM:							
		Ground Surface DATE STARTED:	DATE FINIS	HED:						
ILLING CONTRACTOR	: Cascade Drilling, Inc.	8/2/16	8/2/16	0.000:=						
ILLING METHOD:	Direct push	TOTAL DEPTH (ft.): 15.0	MEASURING Ground sur							
ILLING EQUIPMENT: /	AMS POWER PROBE 9630	DEPTH TO WATER (ff	FIRST	COMPL.						
		LOGGED BY:	9.0	N/A						
MPLING METHOD: Ge	oprobe macro-core sampler [5' x 1.5"]	M. Lanier-Kamaha'd		550.00						
MMER WEIGHT: N/A	DROP: N/A	RESPONSIBLE PROI	-ESSIONAL:	REG. NO L.Hg. 135						
Sample Sample Sample Sample Sample Ov M	DESCRIPTION NAME (USCS): color, moist, % by wt., p cementation, react. w/HCl, Surface Elevation:	geo. inter.	REM	MARKS						
S S H		Ground Surface								
- 1- -	SILTY SAND (SM): olive gray (5Y 4/2), sand, 10% fine to coarse gravel, 20% lo									
2-	SILTY SAND with GRAVEL (SM): gray coarse sand, 30% fine to coarse gravel,			sealed plastic						
3 - \$\frac{\cappa_{\text{SY}}}{4-} \text{WY} 4-	SILTY SAND (SM): very dark gray (5Y medium sand, 30% low plasticity fines,		bags; calibrat	e to Tooppin						
+ $ X $	POORLY-GRADED SAND (SP): very d	ark grayish brown (2.5Y								
5	3/2), Moist, 95% fine sand and 5% fines									
6 - 855-6	0.0		_ _ _							
7- 8-	strong brown (7.5YR 5/6), oxidized wear sand	athering, fine to medium	- - -							
9 - KW-55-9	becomes wet at 9 ft.		- - -							
1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	small peat lens with organic odor, fibrou	s	Groundwater collected from lin sch 40 PV screen, 11-15	n temporary /C 0.010 slot						
3-	silt stringer		- KM-55-08021 	6						
4	End Of Boring At 15ft		- - -							
6-	Boring backfilled with medium bentonite from total depth to 6 inches below grour inches depth patched with concrete.		- - -							
7				(BOREV (REV. 3/2015						

5400 AIRPORT WAY, SEATTLE WASHINGTON MONITOR WELL SURVEY



SCALE 1"=200'

 $\frac{\text{HORIZONTAL DATUM}}{\text{COORDINATE}} - \frac{\text{WELL COORDINATES PUBLISHED IN THE TABLES ARE WASHINGTON COORDINATE SYSTEM, NORTH ZONE NAD 83(91), US FEET.}$

<u>VERTICAL DATUM</u> - ELEVATIONS SHOWN HEREON ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM 1988, NAVD88.

MONITOR WELLS LOCATED MAY 12, 2011

* - TO CONVERT ELEVATIONS SHOWN HEREON TO NGVD29 ELEVATIONS, PLEASE SUBTRACT 3.59' FEET.

MONITOR WELL NO.	STAMPED	NORTH	EAST	RIM ELEV. OF CASE	TOP OF WELL ELEV
KMW-01 KMW-02 KMW-03 KMW-04 KMW-05		205,697.8 205,801.8 205,535.1 205,423.6 205,516.0	1,272,963.2 1,272,957.4 1,273,154.5 1,273,115.1 1,273,217.0	20.12	19.37 19.79 18.64 18.64 18.88

DUANE HARTMAN & ASSOCIATES, INC.

– Surveyors –

16928 WOODINVILLE-REDMOND ROAD, B-107 (425) 483-5355 WOODINVILLE, WASHINGTON 98072 FAX

(425) 483-4650



SURVEY FOR AMEX GEOMATRIX INC.

____ DATE: <u>05.13.2011</u> CHECKED BY: <u>DAH</u>

DRAWING NAME: 5400 MW.dwg

DRAWN BY: AAC DATE: 05.13.2011 PAGE 1 OF 1



APPENDIX D

Simplified Terrestrial Ecological Evaluation

Table 749-1 Simplified Terrestrial Ecological Evaluation – Exposure Analysis Procedure under WAC 173-340-7492(2)(a)(ii).^a

Estimate the area of contiguous (connected) under land on the site or within 500 feet of any area of the to the nearest 1/2 acre (1/4 acre if the area is less that acre). "Undeveloped land" means land that is not only existing buildings, roads, paved areas or other but that will prevent wildlife from feeding on plants, exworms, insects or other food in or on the soil.	e site an 0.5 covered arriers
1) From the table below, find the number of	10
points corresponding to the area and enter this	め
number in the box to the right.	<u> </u>
Area (acres) Points	
0.25 or less 4	
. 0.5 5	
1.0 6	
1.5	
2.0 8	
2.5 9	
3.0 10	
3.5	
4.0 or more 12	
2) Is this an industrial or commercial property?	
See WAC 173-340-7490(3)(c).	_
If yes, enter a score of 3 in the box to the right. If	3
no, enter a score of 1.	
3) Enter a score in the box to the right for the	
habitat quality of the site, using the rating system	0
shown below ^b . (High = 1, Intermediate = 2,	3
Low = 3)	
4) Is the undeveloped land likely to attract	
wildlife? If yes, enter a score of 1 in the box to	()
the right. If no, enter a score of 2. See footnote c.	Ø
5) Are there any of the following soil	
contaminants present:	
Chlorinated dioxins/furans, PCB mixtures, DDT,	
DDE, DDD, aldrin, chlordane, dieldrin,	
endosulfan, endrin, heptachlor, benzene	,
hexachloride, toxaphene, hexachlorobenzene,	
pentachlorophenol, pentachlorobenzene? If yes,	
enter a score of 1 in the box to the right. If no,	
enter a score of 4.	
6) Add the numbers in the boxes on lines 2	
through 5 and enter this number in the box to the	
right. If this number is larger than the number in	01
the box on line 1, the simplified terrestrial	~
ecological evaluation may be ended under WAC	•
173-340-7492 (2)(a)(ii).	

Footnotes:

- a It is expected that this habitat evaluation will be undertaken by an experienced field biologist. If this is not the case, enter a conservative score (1) for questions 3 and 4.
- b Habitat rating system. Rate the quality of the habitat as high, intermediate or low based on your professional judgment as a field biologist. The following are suggested factors to consider in making this evaluation:
 - Low: Early successional vegetative stands; vegetation predominantly noxious, nonnative, exotic plant species or weeds. Areas severely disturbed by human activity, including intensively cultivated croplands. Areas isolated from other habitat used by wildlife.
 - High: Area is ecologically significant for one or more of the following reasons: Late-successional native plant communities present; relatively high species diversity; used by an uncommon or rare species; priority habitat (as defined by the Washington Department of Fish and Wildlife); part of a larger area of habitat where size or fragmentation may be important for the retention of some species.
 - Intermediate: Area does not rate as either high or low.
- c Indicate "yes" if the area attracts wildlife or is likely to do so. Examples: Birds frequently visit the area to feed; evidence of high use by mammals (tracks, scat, etc.); habitat "island" in an industrial area; unusual features of an area that make it important for feeding animals; heavy use during seasonal migrations.

Steven G. Ellis, PhD

Principal Scientist

Professional summary



Dr. Ellis is a principal aquatic biologist with more than 35 years of experience managing and conducting environmental studies in freshwater and coastal marine ecosystems. His areas of expertise include ecological and human health risk assessments, design and implementation of water-quality and sediment-quality monitoring programs, fish contaminant evaluations, development and application of biological indices for assessing aquatic impacts, watershed assessments, environmental permitting, and the preparation of environmental impact statements (EISs). He is a coauthor of EPA's national guidance documents on designing monitoring programs and assessing chemical contaminant levels in fish for use in fish advisories. On behalf of the American Fisheries Society, he has conducted national training workshops for Native American Tribes on risk-assessment methodologies and the design of water-quality, sediment quality, and fish monitoring programs.

Education

Ph.D., Biological Oceanography, Oregon State University, Corvallis, Oregon, 1991 M.S., Biological Oceanography, Oregon State University, Corvallis, Oregon, 1984 B.A., Biology, Lawrence University, Appleton, Wisconsin, 1980

Memberships/affiliations

Phi Kappa Phi Honor Society Water Environment Federation Society of Environmental Toxicology and Chemistry American Fisheries Society American Chemical Society

Representative projects

Terrestrial Ecological Evaluation (TEE) for the Former Custom Plywood Site Remedial Investigation/Feasibility Study, GBH Investments, LLC, Anacortes, WA

Completed a site-specific TEE, which is designed to facilitate selection of remedial options for Washington Model Toxics Control Act cleanup actions. Conducted earthworm survival and lettuce germination bioassays for a dilution series of site soil to select a soil Total Petroleum Hydrocarbon cleanup level that would be protective of plant, soil biota, and wildlife receptors.

Terrestrial Ecological Evaluation (TEE) for the Whitmarsh Landfill Remedial Investigation/ Feasibility Study, Whitmarsh Landfill PLP Group, Skagit County, WA

Completed the problem formulation component of a TEE, which is designed to facilitate selection of remedial options for Washington Model Toxics Control Act cleanup actions.

Oak Bottoms Wildlife Refuge Habitat Restoration Evaluation, City of Portland, Portland, OR Evaluated the likely change in sediment concentrations of DDT and its degradation compounds DDE and DDD in the Oak Bottoms Wildlife Refuge (OBWR) following the future implementation of the OBWR Tidal restoration project. The evaluation considered different options for removal and replacement of a culvert, and removal of sediment within the refuge. An objective of the project was also to determine whether the restoration would alter future DDT degradation rates, which could be used to adjust natural resource damage assessment credit for the restoration project. Pre and post-

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restoration sediment concentrations of DDT compounds within restoration segments of the refuge were calculated. Changes in DDT degradation rates in pre- and post-restoration habitat physical conditions were assessed based on rate changes in different media, anaerobic versus aerobic environments, and exposure to UV radiation

Triumph Mine Human-Health and Ecological Risk Assessment, Idaho Department of Environmental Quality, Triumph Mine, ID

Principal-in-charge/Project manager. Prepared baseline risk assessments for a CERCLA remedial investigation and feasibility study. Assessed risks from soil ingestion, inhalation, drinking-water ingestion, and vegetable intake. The main contaminants of concern were arsenic and lead.

Leviathan Mine Remedial Investigation Baseline Ecological Risk Assessment, Atlantic Richfield Company (ARCO), Carson City, NV

Managing the baseline ecological risk assessment for the CERCLA Leviathan Mine Superfund site. Compiled and evaluated historical information on water quality, sediment quality, soil and groundwater contaminant concentrations, and contaminants in plants and biota. Developed the study design, conceptual site model, and prepared the work plan for collecting additional data to complete the risk assessment for the remedial investigation.

Development of Human and Ecological Risk-Based Soil Cleanup Levels for Abandoned Mine Sites, U.S. Forest Service, Boise, ID

Project scientist. Developed risk-based soil/sediment cleanup levels for common metal contaminants at abandoned mine sites in Idaho based on several human recreational use scenarios that considered dermal, inhalation, and ingestion and exposure scenarios for selected wildlife receptors.

Risk-Based Cleanup Guidelines for Abandoned Mine Sites, Montana Department of Environmental Quality, MT

Project scientist. Developed human health and ecological risk-based soil/sediment cleanup levels for common metal contaminants at abandoned mine sites in Montana. Risk-based exposure scenarios were used to rank potential risks posed by abandoned mine sites in Montana to assist in prioritizing state remediation actions.

Kitsault Mine Environmental Assessment, Avanti Mining Inc., Kitsault, British Columbia, Canada

Project manager/Designated lead. Prepared the environmental assessment for potential effects to the marine environment associated with reopening and further developing the Kitsault molybdenum mine. Designed and implemented a marine environmental monitoring program to characterize baseline conditions and detect future project effects. Monitoring characterized concentrations and distributions of 28 metals in water, sediment, shellfish, and fish.

Raven Mine Environmental Assessment, Compliance Energy Corporation, Vancouver, British Columbia. Task manager. Designated lead for the environmental assessment for potential effects to the marine environment associated with reopening and developing the Raven coal mine along the eastern side of Vancouver Island and shipping product from the Port of Alberni through Alberni Inlet and Trevor Channel to international markets. Evaluated impacts from dredging, port in-water construction noise, modelled vessel wades associated with Panamax class vessels and the potential for marine mammal collisions. Provided presentations to government agencies and First Nations.

Kensington Gold Mine Project EIS, U.S. Forest Service, Coeur, AK

Project scientist. Assisted in the preparation of an ecological risk assessment that evaluated EIS alternatives for tailings disposal in a lake and construction of a marine dock facility. Participated in

meetings with the technical work group to respond to comments on the draft EIS and discuss the ecological risk assessment.

Rock Creek Mine EIS, Montana Department of Environmental Quality, Northeast MT

Project scientist. Wrote the baseline and potential impact EIS sections for aquatic biology and water quality. Prepared a loading analysis to evaluate nutrient discharge to the Clark Fork River and Lake Pend Oreille that evaluated impacts to aquatic biota and nutrient concentrations under different mine operation scenarios.

Montana Tunnels Mine Pit Expansion EIS, Montana Department of Environmental Quality, Jefferson County, MT

Project scientist. Conducted a site assessment of fisheries resources in the area proposed for the mine pit expansion. Reviewed and provided comments on the potential impacts to fish populations based on the proposed rerouting of a stream as part of the proposed operations.

Riverside Agricultural Park Ecological Risk Assessment, City of Riverside, CA

Ecological Risk Lead. Completed a predictive ecological risk assessment to assess potential impacts to terrestrial receptors and aquatic biota in the Santa Ana River near Riverside, CA. Modelled contaminant transfer from soil to plants and to potential small mammal prey. The main contaminants of concern were PCBs and dioxins/furans.

Martell Facility Ecological Risk Assessment, Sierra Pacific Industries, Martell, CA

Ecological Risk Lead. Completed a predictive ecological risk assessment to assess potential impacts to terrestrial receptors and aquatic biota in and adjacent to drainage channels on property that historically included a wood manufacturing operation, waste landfill, ash disposal area, and undeveloped land. The main contaminants of concern were dioxins/furans.

Ecological Risk Assessment for the Former Whittaker Ordnance Facility, Whittaker Corporation, Hollister, CA

Project scientist. Completed an ecological risk assessment to establish soil and vapor cleanup objectives for the remediation of a former ordnance facility. Primary contaminants of concern were perchlorate, hexavalent chromium, and trichloroethylene. Burrowing mammals and herbivores were the ecological receptors of concern for the site. The California Central Coast Regional Water Quality Control Board approved the proposed cleanup objectives.

Ecological Risk Assessment of Stormwater Discharges, Briscoe Ivestor & Bazel, LLP, Eureka, CA

Project scientist. Prepared an expert report that evaluated the likelihood of imminent and substantial endangerment to the environment from past and current stormwater discharges of metals to a tidally influenced slough and to the waters of Humboldt Bay, California.

Humboldt Bay Power Generating Facility Voluntary Cleanup Actions, Resolute Management, Inc., Humboldt County, CA

Project scientist and ecological risk assessment lead. Assisted in developing the study design for a work plan to fill existing data gaps on chemical fate and transport on site to evaluate both terrestrial and marine impacts. Completed a statistical analysis of existing data to develop site-specific metal background concentrations for lowland soils and groundwater. Completed an ecological risk assessment for terrestrial and aquatic biota. Modeled contaminant uptake to plants, soil invertebrates, small mammals, and fish. Assessed projected worst-case increases in sea level to evaluate future ecological from contaminant exposure. Data were screened against background values and other toxicity benchmark values to identify areas impacted by past facility operations.

Ecological Risk Assessment for Livestock at the Geothermal Inc. Landfill Restoration Site, Pacific Gas & Electric Company, Middletown, CA

Project scientist. Spanish/Boer cross goats were being used on site for vegetation control and beef cattle grazing was being considered as a land-use option for generating income. A study design was developed to measure boron concentrations in soil, water, and site vegetation to evaluate the potential ecological risk to livestock grazing on the site.

Lower Willamette River Remedial Investigation and Feasibility Study (RI/FS) Work Plan, Oregon Department of Environmental Quality (DEQ), OR

Provided technical support for the development of a draft RI/FS work plan for the lower Willamette River Superfund site. Worked with Oregon State staff to develop a conceptual approach for allocating responsibility for contaminants of concern in sediments. Also facilitated a workshop on how to characterize impacts of polycyclic aromatic hydrocarbons on salmonids, and evaluated fish habitat and migration risk assessment approaches proposed by the DEQ.

Truck Manufacturing Plant Remedial Investigation, Stoel Rives, LLP, Portland, OR

Provided technical and strategic support to evaluate contaminant transport via groundwater and stormwater into the Willamette River and the feasibility of developing a sediment cap as a remedial option.

Voluntary Cleanup Program Support for Aquatic Impacts Associated with the St. Helens Mill, Boise Cascade, OR

Technical lead and project manager for a project to assist Boise Cascade with technical and strategic support to characterize and potentially remediate areas of the Multnomah Channel in the vicinity of the St. Helens Mill. Activities were conducted within the framework of Oregon's voluntary cleanup program. Contaminants of concern included metals, PCBs, dioxin/furans, and PCBs. Assessed tidally-driven upstream sediment transport; Prepared Phase I and II ecological and human risk assessments; and designed field sampling programs.

Human-Health and Ecological Risk Assessment of Homebush Bay Sediments, Australia Office of Marine Administration, Sydney, Australia

Assisted in the design and implementation of a study to assess dioxin risks posed by dioxin-contaminated sediments in Homebush Bay. Assisted in the development of a food-web model relating contaminants in fish with sediment concentrations. The model was used to develop a remedial strategy to reduce exposure to biota and humans.

Polychlorinated Biphenyls Food-Web Modeling for the Housatonic River, Roy F. Weston, Inc., MA

Provided technical support and oversight for the application and calibration of the AQUATOX food-web model to evaluate the bioaccumulation of sediment PCB into selected fish, birds, mammals, and amphibians. This project was undertaken to develop remedial options for PCBs in the Housatonic River sediments as part of a CERCLA remedial investigation and feasibility study.



APPENDIX E

Previous Investigation Reports

1997 AND 1998 SOIL SAMPLE RESULTS 1

Former Kelly-Moore Manufacturing Facility
Seattle, Washington

Location		0.4	6.0	0.0	6.4	0.5	0.0	0.7	0.0		0.40	0.44	0.40	0.40	6.44	0.45	0.46	0.47	NE	AI)A/	or.	CW	F	10/
Location Sample		S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8	S-9	S-10	S-11	S-12	S-13	S-14	S-15	S-16	S-17	NE	NW	SE	SW	E	W
Location		sidewall	sidewall	sidewall	sidewall	stockpile	stockpile	stockpile	stockpile	stockpile	floor	floor	floor	floor	floor	sidewall								
Depth	MTCA							•																
(ft bgs)	Method A	8	7	7	8	NA	NA	NA	NA	NA	7	7	7	7	7	4	6	7	6	6	6	6	6	6
Sample	maastiiai		/= /==		/= /==		/= /==				/ /	/ /			/ /		/ /		0/10/00	2/12/22	2/12/22	2/12/22	0/10/00	
Analyte Date	Criterion	11/5/97	11/5/97	11/5/97	11/5/97	11/5/97	11/5/97	11/17/97	11/17/97	11/17/97	11/21/97	11/21/97	11/21/97	11/21/97	11/21/97	11/21/97	11/21/97	12/1/97	3/18/98	3/18/98	3/18/98	3/18/98	3/18/98	3/18/98
TPH (mg/kg)	T	T		T					1		Т				- I		T T		1		1			
Mineral spirits	100	2150	1600	114	121	1480	201	1000	327	1530	80.6	3120	81.1	136	29.3	<5.00	96.8	10.7	5.51	<5.0	<5.0	<5.0	<5.0	<5.0
PCBs (mg/kg)	1	1		1	1				1		1						1 1		1		ı		1	
Aroclor 1260	1	0.132	<0.050	<0.050	<0.050	0.0521	<0.050	0.0727	<0.050	0.0997	<0.050	0.0583	0.0635	0.0588	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Metals (mg/kg)	T			1	1	1			,			1			1				•				1	
Aluminum		5,300	5,180	3,170	2,960	4,960	4,250	6,210	5,070	4,500	6,790	7,710	7,410	6,370	6,040	6,860	6,360	4,390	8,820	6,040	6,450	6,100	7,630	6,890
Antimony		<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<0.500	<0.500	<0.500	<0.500	<0.500	< 0.500
Arsenic	20	<3.65	<3.65	<3.65	<3.65	<3.65	<3.65	<3.65	<3.65	<3.65	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	2.21	1.58	2.02	1.28	2.19	1.42
Cadmium	2	<0.244	<0.244	<0.244	<0.244	<0.244	<0.244	<0.244	<0.244	<0.244	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Selenium		<3.83	<3.83	<3.83	<3.83	<3.83	<3.83	<3.83	<3.83	<3.83	<7.50	<7.50	<7.50	<7.50	7.6	<7.50	<7.50	<7.50	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
VOCs (mg/kg)																								
2-butanone		<20.0	<2.00	<4.00	6.08	<20.0	<2.00	<20.0	<20.0	<20.0	<20.0	<20.0	<8.00	<20.0	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
n-butylbenzene		2.92	1.29	<0.400	<0.200	2.47	0.35	<2.00	<2.00	<2.00	<2.00	<2.00	<0.800	<2.00	<0.200	<0.200	0.373	<0.200	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
sec-butylbenzene		<2.00	0.714	<0.400	<0.200	<2.00	<0.200	<2.00	<2.00	<2.00	<2.00	<2.00	<0.800	<2.00	<0.200	<0.200	<0.200	<0.200	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Carbon disulfide		<2.00	<0.200	<0.400	<0.200	<2.00	<0.200	<2.00	<2.00	<2.00	<5.00	<5.00	<2.00	<5.00	<0.500	< 0.500	<0.500	<0.200	<0.100	<0.100	<0.100	<0.100	0.188	<0.100
Chloromethane		<2.00	<0.200	<0.400	<0.200	<2.00	<0.200	<2.00	5.03	<2.00	<2.00	<2.00	<0.800	<2.00	<0.200	<0.200	<0.200	<0.200	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Ethylbenzene	6	54.7	12.3	5.21	2.06	30.1	2.99	6.93	12.2	7.64	3.96	171	2.34	2.59	0.325	<0.200	1.26	<0.200	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Isopropylbenzene		2.26	1.7	<0.400	<0.200	<2.00	<0.200	<2.00	<2.00	<2.00	<2.00	2.33	<0.800	<2.00	<0.200	<0.200	0.223	<0.200	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
p-isopropyltoluene		3.17	0.7	<0.400	<0.200	2.68	0.248	<2.00	<2.00	<2.00	<2.00	<2.00	<0.800	<2.00	<0.200	<0.200	0.249	<0.200	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
4-methyl-2-pentanone		<20.0	<2.00	<4.00	<2.00	45	<2.00	<20.0	<20.0	<20.0	<20.0	140	8.2	<20.0	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Naphthalene	5	<2.00	0.219	<0.400	<0.200	<2.00	0.283	<2.00	<2.00	<2.00	<2.00	6.44	<0.800	<2.00	<0.200	<0.200	<0.200	<0.200	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
n-propylbenzene		5.21	2.79	<0.400	<0.200	3.51	0.39	<2.00	<2.00	<2.00	<2.00	3.05	<0.800	<2.00	<0.200	<0.200	0.74	<0.200	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Toluene	7	<2.00	<0.200	<0.400	1.64	285	0.656	17.1	22.6	20	56.6	5640	46.2	22.7	0.242	0.231	0.263	<0.200	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
1,2,4-trimethylbenzene		22.3	5.01	0.651	0.419	17.9	2	4.53	4.3	5.9	<2.00	15.7	0.91	2.88	<0.200	<0.200	3.35	0.324	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
1,3,5-trimethylbenzene		9.95	0.58	<0.400	<0.200	8.45	0.552	<2.00	<2.00	<2.00	<2.00	8.08	<0.800	<2.00	<0.200	<0.200	1.12	<0.200	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
,																<0.400;		<0.400;		<0.200;	<0.200;	<0.200;	<0.200;	<0.200;
Total xylenes	9	212.24	4.83	22.44	10.82	151.3	7.77	49.22	53.1	43.04	36.71	968	23.36	17.42	2.311	<0.200	3.7	<0.200	0.238	<0.100	<0.100	<0.100	<0.100	<0.100

Notes

1. Concentrations greater than screening level are shown in **bold**.

Abbreviations
ft bgs = feet below ground surface
mg/kg = milligrams per kilogram
MTCA = Model Toxics Control Act

NA = not applicable PCBs = polychlorinated biphenyls

TPH = total petroleum hydrocarbons VOCs = volatile organic compounds





PHASE I COMPOSITE BULK AND WIPE FLOOR SAMPLING RESULTS^{1,2}

Former Kelly-Moore Manufacturing Facility Seattle, Washington

Sample ID	Primary Samples Included and Analyzed Individually	Description of Sample Location	Number of Locations in Composite Sample	High Occupancy Screening Criterion ³	Low Occupancy Screening Criterion ⁴	Sample Date	Units	Total PCBs	Aroclor 1016	Aroclor 121	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
Bulk Samples		<u> </u>				1		1							
KM09-6A-COMP	NA ⁵		6	0.24 mg/kg	5.9 mg/kg	8/26/2009	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
KM09-6B-COMP	NA ⁵	Building 6, second floor,	9	0.16 mg/kg	3.93 mg/kg	8/26/2009	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
KM09-6C-COMP	KM09-6-16 through KM09-6-24	pulverized concrete	9	0.16 mg/kg	3.93 mg/kg	8/26/2009	mg/kg	2.4	<0.20	<0.20	<0.20	0.23	<0.20	1.2	0.97
KM09-6D-COMP	NA ⁵		6	0.24 mg/kg	5.9 mg/kg	8/26/2009	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
KM09-6E-COMP	NA ⁵		6	0.24 mg/kg	5.9 mg/kg	8/26/2009	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
KM09-6F-COMP	NA ⁵		6	0.24 mg/kg	5.9 mg/kg	8/27/2009	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
KM09-6G-COMP	NA ⁵	Building 6, ground floor,	9	0.16 mg/kg	3.93 mg/kg	8/27/2009	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
KM09-6H-COMP	KM09-6-52 through KM09-6-60	pulverized concrete	9	0.16 mg/kg	3.93 mg/kg	8/27/2009	mg/kg	1.03	<0.20	<0.20	<0.20	<0.20	<0.20	0.33	0.70
KM09-6I-COMP	KM09-6-61 through KM09-6-66		6	0.24 mg/kg	5.9 mg/kg	8/27/2009	mg/kg	1.08	<0.20	<0.20	<0.20	<0.20	<0.20	0.36	0.72
KM09-7A-COMP	NA ⁵		9	0.16 mg/kg	3.93 mg/kg	8/27/2009	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
KM09-7B-COMP	NA ⁵	Building 7, ground floor, pulverized concrete	9	0.16 mg/kg	3.93 mg/kg	8/27/2009	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
KM09-7C-COMP	KM09-7-19 through KM09-7-27		9	0.16 mg/kg	3.93 mg/kg	8/27/2009	mg/kg	2.6	<0.20	<0.20	<0.20	<0.20	<0.20	1.5	1.1
KM09-7D-COMP	NA ⁵			8	0.18 mg/kg	4.42 mg/kg	8/28/2009	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
KM09-7E-COMP	NA ⁵		9	0.16 mg/kg	3.93 mg/kg	8/28/2009	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
KM09-8C-COMP	NA ⁵	Building 8, second floor, wood shavings	5	0.28 mg/kg	7.08 mg/kg	8/28/2009	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
KM09-8D-COMP/ KM09-8-DUP	NA ⁵		9	0.16 mg/kg	3.93 mg/kg	8/28/2009	mg/kg	<0.20/<0.20	<0.20/<0.20	<0.20/<0.20	<0.20/<0.20	<0.20/<0.20	<0.20/<0.20	<0.20/<0.20	<0.20/<0.20
KM09-8E-COMP	NA ⁶		6	0.24 mg/kg	5.9 mg/kg	8/31/2009	mg/kg	4.7	<0.20	<0.20	<0.20	<0.20	<0.20	2.4	2.3
KM09-8F-COMP	NA ⁶		6	0.24 mg/kg	5.9 mg/kg	8/31/2009	mg/kg	2.01	<0.20	<0.20	<0.20	<0.20	<0.20	1.1	0.91
KM09-8G-COMP	NA ⁶	Building 8, ground floor,	8	0.18 mg/kg	4.42 mg/kg	8/31/2009	mg/kg	7.5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	7.5
KM09-8H-COMP	NA ⁶	pulverized concrete	8	0.18 mg/kg	4.42 mg/kg	8/31/2009	mg/kg	4.5	<0.20	<0.20	<0.20	<0.20	<0.20	2.7	1.8
KM09-8I-COMP	NA ⁶		8	0.18 mg/kg	4.42 mg/kg	8/31/2009	mg/kg	0.98	<0.20	<0.20	<0.20	<0.20	<0.20	0.64	0.34
KM09-8J-COMP	NA ⁶		6	0.24 mg/kg	5.9 mg/kg	8/31/2009	mg/kg	0.23	<0.20	<0.20	<0.20	<0.20	<0.20	0.23	<0.20
KM09-8K-COMP	NA ⁵		9	0.16 mg/kg	3.93 mg/kg	8/31/2009	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050



PHASE I COMPOSITE BULK AND WIPE FLOOR SAMPLING RESULTS^{1,2}

Former Kelly-Moore Manufacturing Facility
Seattle, Washington

Sample ID Wipe Samples	Primary Samples Included and Analyzed Individually	Description of Sample Location	Number of Locations in Composite Sample	High Occupancy Screening Criterion ³	Low Occupancy Screening Criterion ⁴	Sample Date	Units	Total PCBs	Aroclor 1016	Aroclor 121	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
KM09-8A-COMP	NA ⁵	Building 8, second floor, steel floor wipe sample	6	10 μg/10	00 cm ^{2, 7}	8/28/2009	μg/100 cm ²	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83
KM09-8B-COMP	NA ⁵	Building 8, second floor, steel floor wipe sample	6	10 μg/10	00 cm ^{2, 7}	8/28/2009	μg/100 cm ²	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83

Notes

- 1. All samples were collected on August 26-31, 2009, and analyzed for PCBs by EPA Method 8082 at OnSite Environmental Inc., in Redmond, Washington.
- 2. Detected concentrations greater than high-occupancy screening criterion are shown in **bold**.
- 3. High-occupancy cleanup levels were established as screening criteria for composite samples. The screening criteria were calculated using the method described by the EPA (1985). High-occupancy screening criteria were calculated by (0.8)-(1 mg/kg) + (2.576)-(0.3)-(0.8)-(1.0) = 1.42 mg/kg/number of subsamples in composite.
- 4. Low-occupancy cleanup levels were established as screening criteria for composite samples. The screening criteria were calculated using the method described by the EPA (1985). Low-occupancy screening criteria were calculated by (0.8)-(25 mg/kg) + (2.576)-(0.3)-(0.8)-(1.0) = 35.4 mg/kg/ number of subsamples in composite.
- 5. Primary samples were not analyzed because concentrations of total PCBs in the composite sample were less than the reporting limit shown.
- 6. Primary samples were not analyzed because detections of total PCBs in the composite sample at concentrations greater than the high-occupancy screening criteria were widespread and prevalent throughout Building 8. The multiple areas of PCB detections made it infeasible to locate the exceedances with more accuracy.
- 7. PCB cleanup levels for non-porous surfaces for high-occupancy areas are established in the Toxic Substances Control Act (40 CFR Part 761.61).

Abbreviations

< = compound not detected at or above laboratory reporting limit shown μg/100 cm² = micrograms per 100 square centimeters mg/kg = milligrams per kilogram NA = not applicable PCBs = polychlorinated biphenyls

Page 2 of 2



PHASE I PRIMARY BULK FLOOR SAMPLING RESULTS^{1,2}

Former Kelly-Moore Manufacturing Facility
Seattle, Washington

Tr.	Resu	ılts reporte						·	<u> </u>	
Sample		Sample							Aroclor	
ID	Composite Grid	Date	PCBs	1016	121	1232	1242	1248	1254	1260
KM09-6-1		8/26/09								
KM09-6-2		8/26/09								
KM09-6-3	KM09-6A-COMP	8/26/09				Not A	nalyzed			
KM09-6-4	KIVIU9-0A-COIVIP	8/26/09				NOI A	naiyzeu			
KM09-6-5		8/26/09								
KM09-6-6		8/26/09								
KM09-6-7		8/26/09								
KM09-6-8		8/26/09								
KM09-6-9		8/26/09								
KM09-6-10		8/26/09								
KM09-6-11	KM09-6B-COMP	8/26/09				Not A	nalyzed			
KM09-6-12		8/26/09								
KM09-6-13		8/26/09								
KM09-6-14		8/26/09								
KM09-6-15		8/26/09								
KM09-6-16		8/26/09	< 0.50	<0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
KM09-6-17		8/26/09	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
KM09-6-18		8/26/09	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
KM09-6-19		8/26/09	1.93	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.2	0.73
KM09-6-20	KM09-6C-COMP	8/26/09	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
KM09-6-21		8/26/09	0.66	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.66
KM09-6-22		8/26/09	0.61	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.61
KM09-6-23		8/26/09	18.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	13	5.5
KM09-6-24		8/26/09	0.91	< 0.50	< 0.50	< 0.50	<0.50	< 0.50	<0.50	<0.50
KM09-6-25		8/26/09								
KM09-6-26		8/26/09								
KM09-6-27	KM09-6D-COMP	8/26/09				Not A	nalyzed			
KM09-6-28	KINIO9-OD-OOIVII	8/26/09				NOLA	naiy2 c u			
KM09-6-29		8/26/09								
KM09-6-30		8/26/09								
KM09-6-31		8/26/09								
KM09-6-32		8/26/09								
KM09-6-33	KM09-6E-COMP	8/26/09				Not A	nalvzod			
KM09-6-34	KINIOS-OE-COINIP	8/26/09 Not Analyzed								
KM09-6-35	8/26/09									
KM09-6-36		8/26/09								



PHASE I PRIMARY BULK FLOOR SAMPLING RESULTS^{1,2}

Former Kelly-Moore Manufacturing Facility
Seattle, Washington

Sample	11030	Sample			Aroclor			Araclar	Aroclor	Aroclor
ID	Composite Grid	Date	PCBs	1016	121	1232	1242	1248	1254	1260
KM09-6-37	Composite Cha	8/27/09	. 000	1010		1202	1272	1240	120-	1200
KM09-6-38		8/27/09								
KM09-6-39		8/27/09								
	KM09-6F-COMP					Not A	nalyzed			
KM09-6-40		8/27/09								
KM09-6-41		8/27/09								
KM09-6-42		8/27/09								
KM09-6-43		8/27/09								
KM09-6-44		8/27/09								
KM09-6-45		8/27/09								
KM09-6-46		8/27/09								
KM09-6-47	KM09-6G-COMP	8/27/09				Not A	nalyzed			
KM09-6-48		8/27/09								
KM09-6-49		8/27/09								
KM09-6-50		8/27/09								
KM09-6-51		8/27/09							1	•
KM09-6-52		8/27/09	<0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-53		8/27/09	<0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-54		8/27/09	0.60	< 0.50	<0.50	<0.50	<0.50	< 0.50	<0.50	<0.50
KM09-6-55		8/27/09	<0.50	< 0.50	<0.50	<0.50	<0.50	< 0.50	< 0.50	<0.50
KM09-6-56	KM09-6H-COMP	8/27/09	< 0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	<0.50
KM09-6-57		8/27/09	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
KM09-6-58		8/27/09	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
KM09-6-59		8/27/09	1.5	<0.50	<0.50	<0.50	<0.50	< 0.50	<0.50	1.50
KM09-6-60		8/27/09	4.9	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.7	3.20
KM09-6-61		8/27/09	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	< 0.50	< 0.50	< 0.50
KM09-6-62		8/27/09	5.4	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.9	3.50
KM09-6-63	KM09-6I-COMP	8/27/09	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50
KM09-6-64	KINDS-01-COMP	8/27/09	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
KM09-6-65		8/27/09	< 0.50	<0.50	<0.50	<0.50	<0.50	< 0.50	<0.50	<0.50
KM09-6-66		8/27/09	< 0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	< 0.50	<0.50
KM09-7-1		8/27/09								
KM09-7-2		8/27/09								
KM09-7-3		8/27/09								
KM09-7-4		8/27/09								
KM09-7-5	KM09-7A-COMP	8/27/09				Not A	nalyzed			
KM09-7-6		8/27/09					-			
KM09-7-7		8/27/09								
KM09-7-8		8/27/09								
KM09-7-9		8/27/09								



PHASE I PRIMARY BULK FLOOR SAMPLING RESULTS^{1,2}

Former Kelly-Moore Manufacturing Facility
Seattle, Washington

	Resu	ılts reporte								
Sample		•								Aroclor
ID	Composite Grid	Date	PCBs	1016	121	1232	1242	1248	1254	1260
KM09-7-10		8/27/09								
KM09-7-11		8/27/09								
KM09-7-12		8/27/09								
KM09-7-13		8/27/09								
KM09-7-14	KM09-7B-COMP	8/27/09				Not A	nalyzed			
KM09-7-15		8/27/09								
KM09-7-16		8/27/09								
KM09-7-17		8/27/09								
KM09-7-18		8/27/09								
KM09-7-19		8/27/09	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
KM09-7-20		8/27/09	<0.50	< 0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-7-21		8/27/09	<0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-7-22		8/27/09	<0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	<0.50	<0.50
KM09-7-23	KM09-7C-COMP	8/27/09	<0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-7-24		8/27/09	25.8	< 0.50	< 0.50	<0.50	<0.50	< 0.50	17	8.8
KM09-7-25		8/27/09	<0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-7-26		8/27/09	<0.50	< 0.50	< 0.50	< 0.50	<0.50	<0.50	<0.50	<0.50
KM09-7-27	- { - {	8/27/09	<0.50	<0.50	<0.50	< 0.50	<0.50	< 0.50	< 0.50	<0.50
KM09-7-28		8/28/09								
KM09-7-29		8/28/09								
KM09-7-30		8/28/09								
KM09-7-31	KM09-7D-COMP	8/28/09				Not A	nalyzed			
KM09-7-32	TOOLOG-7 D-COIVII	8/28/09				NOLA	Halyzeu			
KM09-7-33		8/28/09								
KM09-7-34		8/28/09								
KM09-7-35		8/28/09								
KM09-7-36		8/28/09								
KM09-7-37		8/28/09								
KM09-7-38		8/28/09								
KM09-7-39		8/28/09								
KM09-7-40	KM09-7E-COMP	8/28/09				Not A	nalyzed			
KM09-7-41		8/28/09	8/28/09							
KM09-7-42		8/28/09								
KM09-7-43		8/28/09								
KM09-7-44		8/28/09								
KM09-8-1		8/28/09								
KM09-8-2		8/28/09								
KM09-8-3	KM09-8A-COMP	8/28/09				Not A	nalyzed			
KM09-8-4		8/28/09								
KM09-8-5		8/28/09								



PHASE I PRIMARY BULK FLOOR SAMPLING RESULTS^{1,2}

Former Kelly-Moore Manufacturing Facility
Seattle, Washington

Commis	Vesc	Its reporte						Avaalav	A == = l==	Avaalav
Sample	0	Sample						Aroclor		
ID	Composite Grid	Date	PCBs	1016	121	1232	1242	1248	1254	1260
KM09-8-6		8/28/09								
KM09-8-7		8/28/09								
KM09-8-8	KM09-8B-COMP	8/28/09				Not A	nalyzed			
KM09-8-9	KINIO3-OD-OOWII	8/28/09				NOLA	Halyzcu			
KM09-8-10		8/28/09								
KM09-8-11		8/28/09								
KM09-8-12		8/28/09								
KM09-8-13		8/28/09								
KM09-8-14	KM09-8C-COMP	8/28/09				Not A	nalyzed			
KM09-8-15	TAINIOS OO OOIVII	8/28/09				140171	i idiy2ca			
KM09-8-16		8/28/09								
KM09-8-17		8/28/09								
KM09-8-18		8/28/09								
KM09-8-19		8/28/09								
KM09-8-20		8/28/09								
KM09-8-21		8/28/09								
KM09-8-22	KM09-8D-COMP	8/28/09				Not A	nalyzed			
KM09-8-23		8/28/09								
KM09-8-24		8/28/09								
KM09-8-25		8/28/09								
KM09-8-26		8/28/09								
KM09-8-27		8/31/09								
KM09-8-28		8/31/09								
KM09-8-29	KM09-8E-COMP	8/31/09				Not A	nalyzed			
KM09-8-30	141100 02 001111	8/31/09				110171	i idiy 20d			
KM09-8-31		8/31/09								
KM09-8-32		8/31/09								
KM09-8-33		8/31/09								
KM09-8-34		8/31/09								
KM09-8-35	KM09-8F-COMP	8/31/09				Not A	nalyzed			
KM09-8-36	1.1.1.00 O. O. O. O.	8/31/09	<u> </u>							
KM09-8-37		8/31/09								
KM09-8-38		8/31/09								



PHASE I PRIMARY BULK FLOOR SAMPLING RESULTS^{1,2}

Former Kelly-Moore Manufacturing Facility
Seattle, Washington

0	Resu	ılts reporte						A I	A I	A 1	
Sample		Sample						Aroclor			
ID	Composite Grid		PCBs	1016	121	1232	1242	1248	1254	1260	
KM09-8-39		8/31/09									
KM09-8-40		8/31/09									
KM09-8-41		8/31/09									
KM09-8-42	KM09-8G-COMP	8/31/09				Not A	nalyzed				
KM09-8-43	KIVIO9-00-COIVII	8/31/09				NOLA	naiyzeu				
KM09-8-44		8/31/09									
KM09-8-45		8/31/09									
KM09-8-46		8/31/09									
KM09-8-47		8/31/09									
KM09-8-48		8/31/09									
KM09-8-49		8/31/09									
KM09-8-50	KM09-8H-COMP	8/31/09				Not A	nalyzed				
KM09-8-51	KIVIO3-OI I-OOIVII	8/31/09				NOLA					
KM09-8-52		8/31/09									
KM09-8-53		8/31/09									
KM09-8-54		8/31/09									
KM09-8-55		8/31/09									
KM09-8-56		8/31/09									
KM09-8-57		8/31/09									
KM09-8-58	KM09-8I-COMP	8/31/09				Not A	nalyzed				
KM09-8-59	TAINIOS OF COMI	8/31/09				140171	naryzca				
KM09-8-60		8/31/09									
KM09-8-61		8/31/09									
KM09-8-62		8/31/09									
KM09-8-63		8/31/09									
KM09-8-64		8/31/09									
KM09-8-65	KM09-8J-COMP	8/31/09				Not 4	nalyzed				
KM09-8-66	TAVIOS GO-OCIVII	8/31/09				NOLA	. idiy 260				
KM09-8-67		8/31/09									
KM09-8-68		8/31/09									
KM09-8-69		8/31/09									
KM09-8-70		8/31/09									
KM09-8-71		8/31/09									
KM09-8-72		8/31/09									
KM09-8-73	KM09-8K-COMP	8/31/09				Not A	nalyzed				
KM09-8-74		8/31/09									
KM09-8-75		8/31/09									
KM09-8-76		8/31/09									
KM09-8-77		8/31/09									



PHASE I PRIMARY BULK FLOOR SAMPLING RESULTS^{1,2}

Former Kelly-Moore Manufacturing Facility
Seattle, Washington

Results reported in milligrams per kilogram (mg/kg)

Sample ID	Composite Grid	Sample Date	Total PCBs		Aroclor 121	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
KM09-8-78	Building 8, former floor scales, subfloor, pulverized concrete	8/31/09	44	<50	<50	<50	<10	<10	16	28
KM09-8-79	Building 8, former floor scales, subfloor, pulverized concrete	8/31/09	100	<10	<10	<10	<10	<10	<10	100
High-Occupancy Scre	ligh-Occupancy Screening Criterion ³									
Low-Occupancy Scre		25								

Notes

- 1. All samples were collected on August 26-31, 2009, and analyzed for PCBs by EPA Method 8082 at OnSite Environmental Inc., in Redmond, Washington.
- 2. Concentrations greater than high-occupancy screening criterion are shown in **bold**.
- 3. For primary samples, PCB cleanup levels for low-occupancy and high-occupancy areas are established in the Toxic Substances Control Act (40 CFR Part 761.61).

Abbreviations

< = compound not detected at or above laboratory reporting limit shown

CFR = Code of Federal Regulations

EPA = U.S. Environmental Protection Agency

mg/kg = milligrams per kilogram

PCBs = polychlorinated biphenyls



PHASE II BULK AND WIPE WALL SAMPLING RESULTS^{1,2}

Former Kelly-Moore Manufacturing Facility
Seattle, Washington

		High-	Low-										
	Description of	Occupancy	Occupancy	Sample		Total	Aroclor						
Sample ID	Sample Location	Criterion 3	Criterion ³	Date	Units	PCBs	1016	121	1232	1242	1248	1254	1260
Bulk Samples		,	0				10.0						
KM09-6-67		1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-68		1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-69	D. T. F O	1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	< 0.50	< 0.50	<0.50	<0.50	< 0.50	<0.50	< 0.50
KM09-6-70	Building 6, second floor, wall, pulverized concrete	1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	< 0.50
KM09-6-71		1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	< 0.50
KM09-6-72		1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	< 0.50
KM09-6-73		1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	< 0.50	<0.50	<0.50
KM09-6-74		1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	< 0.50	<0.50	<0.50
KM09-6-75	Building 6, ground floor, wall, pulverized concrete	1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	< 0.50	<0.50	<0.50
KM09-6-76	Building 6, ground noor, wall, pulvenzed concrete	1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	< 0.50	<0.50	< 0.50
KM09-6-77		1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	< 0.50
KM09-6-78		1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	< 0.50	< 0.50	<0.50	<0.50	< 0.50	<0.50	< 0.50
KM09-7-45	Building 7, ground floor, wall, pulverized concrete	1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	< 0.50	< 0.50	<0.50	<0.50	< 0.50	< 0.50	< 0.50
KM09-7-48	Building 7, ground floor, wall, wood shavings	1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	<0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	< 0.50
KM09-8-80	Building 8, ground floor, wall, pulverized concrete	1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	< 0.50	< 0.50	<0.50	<0.50	< 0.50	<0.50	<0.50
KM09-8-81		1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	4.9	< 0.50	< 0.50	<0.50	0.60	< 0.50	4.3	< 0.50
KM09-8-82		1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	2.1	<0.50	<0.50	<0.50	<0.50	<0.50	2.1	<0.50
KM09-8-83	Building 8, ground floor, wall, wood shavings	1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	1.7	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	<0.50
KM09-8-84		1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	0.69	<0.50	<0.50	<0.50	<0.50	<0.50	0.69	<0.50
KM09-8-85		1.0 mg/kg	25 mg/kg	9/17/2009	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Wipe Samples													
KM09-7-46	Building 7, ground floor, steel support pillar	10 μg/1	00 cm ²	9/17/2009	μg/100 cm ²	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
KM09-7-47	Building 7, ground floor, steel support pillar		00 cm ²	9/17/2009	μg/100 cm ²	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
KM09-7-49	Building 7, ground floor, steel support pillar	10 μg/1	00 cm ²	9/17/2009	μg/100 cm ²	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

<u>Notes</u>

- 1. All samples were collected on September 17-18, 2009, and analyzed for PCBs by EPA Method 8082 at OnSite Environmental Inc., in Redmond, Washington.
- 2. Concentrations greater than high-occupancy screening criterion are shown in **bold**.
- 3. For primary samples, PCB cleanup levels for bulk waste and nonporous surfaces for low-occupancy and high-occupancy areas are established in the Toxic Substances Control Act (40 CFR Part 761.61).

Abbreviations

< = compound not detected at or above laboratory reporting limit shown

CFR = Code of Federal Regulations

EPA = U.S. Environmental Protection Agency

 μ g/100 cm² = micrograms per 100 cubic centimeters

mg/kg = milligrams per kilogram

PCBs = polychlorinated biphenyls



PHASE IV COMPOSITE BULK FLOOR SAMPLING RESULTS^{1,2}

Former Kelly-Moore Manufacturing Facility
Seattle, Washington

Sample ID	Primary Samples Included and Analyzed Individually	Description of Sample Location	Number of Locations in Composite Sample	High Occupancy Screening Criterion ³	Low Occupancy Screening Criterion ⁴	Sample Date	Units	Total PCBs	Aroclor 1016	Aroclor 121	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
KM09-6J-COMP	KM09-6-87 through KM09-6-92	Building 6, ground floor,	6	0.24 mg/kg	5.9 mg/kg	10/30/2009	mg/kg	2.18	<0.20	<0.20	<0.20	<0.20	<0.20	0.88	1.3
KM09-6K-COMP	KM09-6-81 through KM09-6-86	pulverized concrete	6	0.24 mg/kg	5.9 mg/kg	10/30/2009	mg/kg	1.09	<0.20	<0.20	<0.20	<0.20	<0.20	0.23	0.86
KM09-6L-COMP	KM09-6-73 through KM09-6-76	Building 6, second floor,	4	0.36 mg/kg	8.85 mg/kg	10/27/2009	mg/kg	0.50	<0.20	<0.20	<0.20	<0.20	<0.20	0.27	0.23
KM09-6M-COMP	KM09-6-77 through KM09-6-80	pulverized concrete	4	0.36 mg/kg	8.85 mg/kg	10/27/2009	mg/kg	3.26	<0.20	<0.20	<0.20	0.26	<0.20	1.6	1.4
KM09-7F-COMP	NA ⁵	Building 7, ground floor, pulverized concrete	4	0.36 mg/kg	8.85 mg/kg	10/27/2009	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

<u>Notes</u>

- 1. All samples were collected on October 27 and 30, 2009, and analyzed for PCBs by EPA Method 8082 at OnSite Environmental, Inc., in Redmond, Washington.
- 2. Concentrations greater than high-occupancy screening criterion are shown in **bold**.
- 3. High-occupancy cleanup levels were established as screening criteria for composite samples. The screening criteria were calculated using the method described by the EPA (1985). High-occupancy screening criteria were calculated by (0.8)·(1 mg/kg) + (2.576)·(0.3)·(0.8)·(1.0) = 1.42 mg/kg/ number of subsamples in composite.
- 4. Low-occupancy cleanup levels were established as screening criteria for composite samples. The screening criteria were calculated using the method described by the EPA (1985). Low-occupancy screening criteria were calculated by (0.8)-(25 mg/kg) + (2.576)-(0.3)-(0.8)-(1.0) = 35.4 mg/kg/ number of subsamples in composite.
- 5. Not applicable. Primary samples not analyzed, since PCBs were not detected in composite sample.

Abbreviations

< = compound not detected at or above laboratory reporting limit shown EPA = U.S. Environmental Protection Agency mg/kg = milligrams per kilogram PCBs = polychlorinated biphenyls

Page 1 of 1



PHASE IV PRIMARY BULK FLOOR SAMPLING RESULTS^{1,2}

Former Kelly-Moore Manufacturing Facility Seattle, Washington

Results reported in milligrams per kilogram (mg/kg)

Sample	Sample	Sample	Total		Aroclor			Aroclor	Aroclor	Aroclor
ID	Source	Date	PCBs	1016	121	1232	1242	1248	1254	1260
KM09-6-73		10/27/09	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-74	KM09-6L-COMP	10/27/09	< 0.50	<0.50	<0.50	< 0.50	< 0.50	<0.50	< 0.50	<0.50
KM09-6-75	KIVIU9-6L-COIVIP	10/27/09	< 0.50	<0.50	<0.50	< 0.50	< 0.50	<0.50	< 0.50	<0.50
KM09-6-76		10/27/09	< 0.50	<0.50	<0.50	<0.50	< 0.50	< 0.50	< 0.50	<0.50
KM09-6-77		10/27/09	< 0.50	< 0.50	<0.50	< 0.50	< 0.50	< 0.50	<0.50	< 0.50
KM09-6-78	KM09-6M-COMP	10/27/09	< 0.50	<0.50	<0.50	<0.50	< 0.50	< 0.50	< 0.50	<0.50
KM09-6-79	KIVIU9-6IVI-COIVIF	10/27/09	1.89	<0.50	<0.50	<0.50	< 0.50	< 0.50	1.1	0.79
KM09-6-80		10/27/09	< 0.50	< 0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
KM09-6-81		10/30/09	< 0.50	< 0.50	<0.50	< 0.50	< 0.50	< 0.50	<0.50	< 0.50
KM09-6-82/ KM09-6-DUP ³		10/30/09	<0.50/ <0.50							
KM09-6-83	KM09-6K-COMP	10/30/09	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-84		10/30/09	4.2	<0.50	<0.50	< 0.50	< 0.50	< 0.50	1.6	2.60
KM09-6-85		10/30/09	<0.50	<0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
KM09-6-86		10/30/09	< 0.50	<0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50
KM09-6-87		10/30/09	0.58	<0.50	<0.50	< 0.50	< 0.50	<0.50	0.58	< 0.50
KM09-6-88		10/30/09	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
KM09-6-89	KM09-6J-COMP	10/30/09	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
KM09-6-90	KINIOS-OJ-COIVIE	10/30/09	2.8	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	2.8
KM09-6-91		10/30/09	<0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-6-92		10/30/09	<0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
KM09-7-49										
KM09-7-50	10/27/09				Not A	nalyzed				
KM09-7-51						INOL A	naiyzeu			
KM09-7-52										
High-Occupancy Scre	ligh-Occupancy Screening Criterion⁴									
Low-Occupancy Scre	w-Occupancy Screening Criterion ⁴									

Notes

- 1. All samples were collected on October 27 and 30, 2009, and analyzed for PCBs by EPA Method 8082 at OnSite Environmental, Inc., in Redmond, Washington.
- 2. Concentrations greater than high-occupancy screening criterion are shown in **bold**.
- 3. Duplicate concrete dust sample indicated as value after the "/".
- 4. For primary samples, PCB cleanup levels for low-occupancy and high-occupancy areas are established in the Toxic Substances Control Act (40 CFR Part 761.61).

Abbreviations

< = compound not detected at or above laboratory reporting limit shown

CFR = Code of Federal Regulations

EPA = U.S. Environmental Protection Agency

mg/kg = milligrams per kilogram

PCBs = polychlorinated biphenyls



QUALITY ASSURANCE AND QUALITY CONTROL SAMPLING RESULTS¹

Former Kelly-Moore Manufacturing Facility
Seattle, Washington

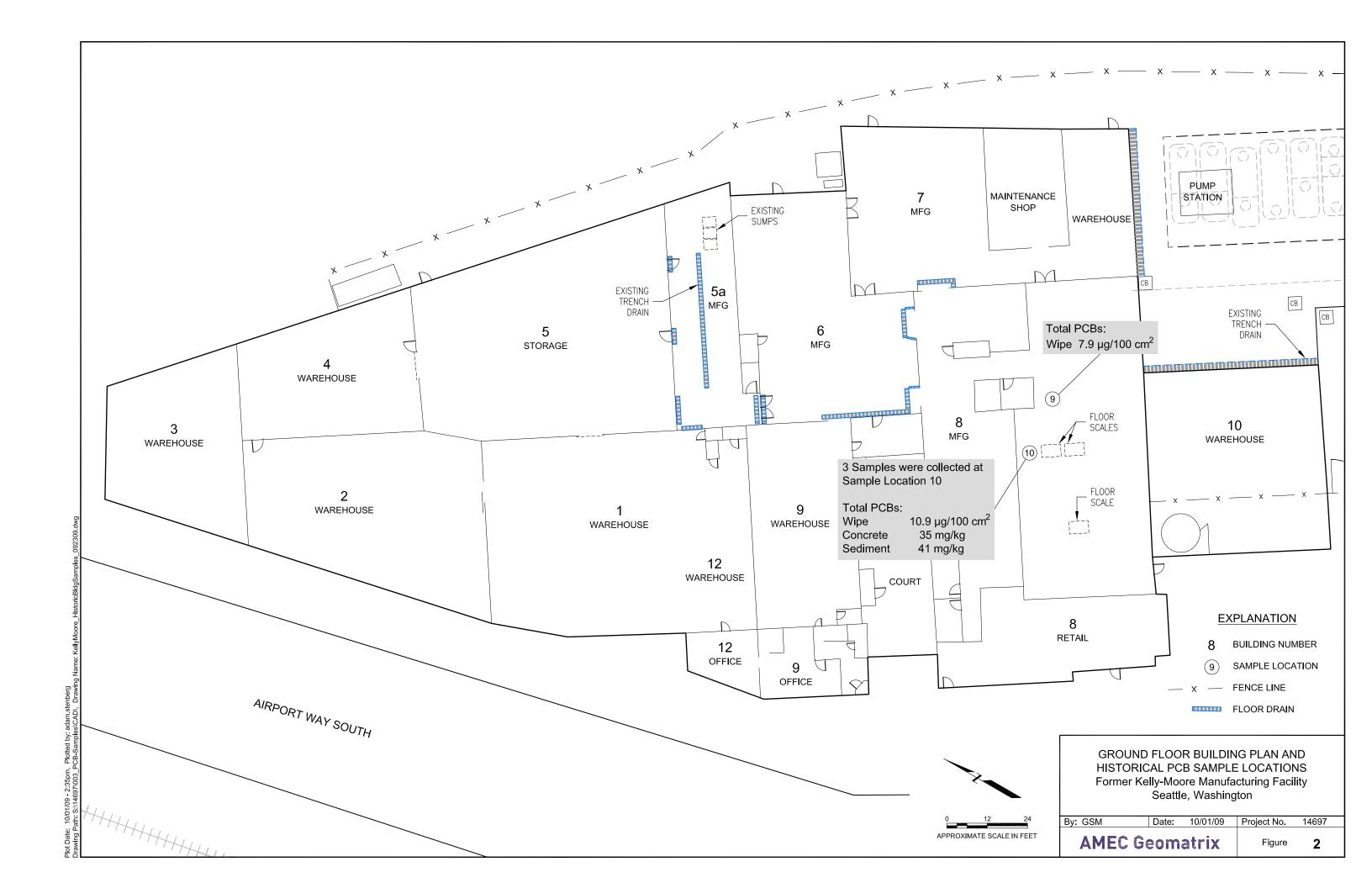
Sample		Sample		Total	Aroclor						
ID	Source Composite Sample	Date	Units	PCBs	1016	121	1232	1242	1248	1254	1260
EB-01-082609	Deionized water poured over sampling utensils and drill bit	8/26/2009	μg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
EB-02-082709	Deionized water poured over sampling utensils and drill bit	8/27/2009	μg/L	<0.099	<0.099	<0.099	<0.099	<0.099	<0.099	<0.099	<0.099
EB-03-082809	Deionized water poured over sampling utensils and drill bit	8/28/2009	μg/L	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090
EB-04-083109	Deionized water poured over sampling utensils and drill bit	8/31/2009	μg/L	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
EB-05-091709	Deionized water poured over sampling utensils and drill bit	9/17/2009	μg/L	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051
EB-06-102709	Deionized water poured over sampling utensils and drill bit	10/27/2009	μg/L	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049

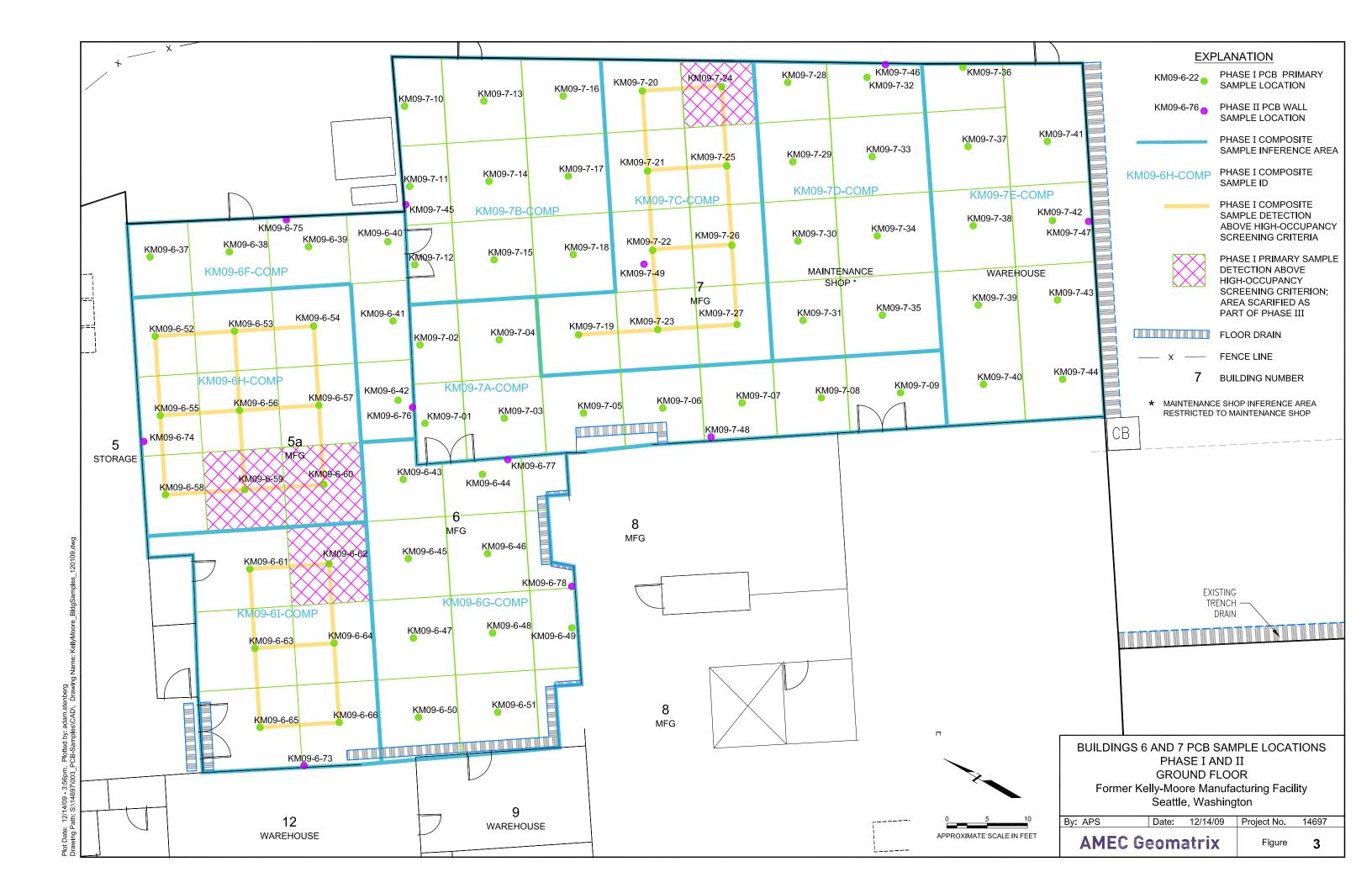
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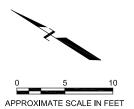
1. All equipment blank samples were collected on August 26-31, September 17-18, and October 27, 2009, and analyzed for PCBs by EPA Method 8082 at OnSite Environmental Inc., in Redmond, Washington. Laboratory-provided deionized water was used for each sample collected.

Abbreviations

< = compound not detected at or above laboratory reporting limit shown EPA = U.S. Environmental Protection Agency $\mu g/L = micrograms \ per \ liter \\ PCBs = polychlorinated \ biphenyls$



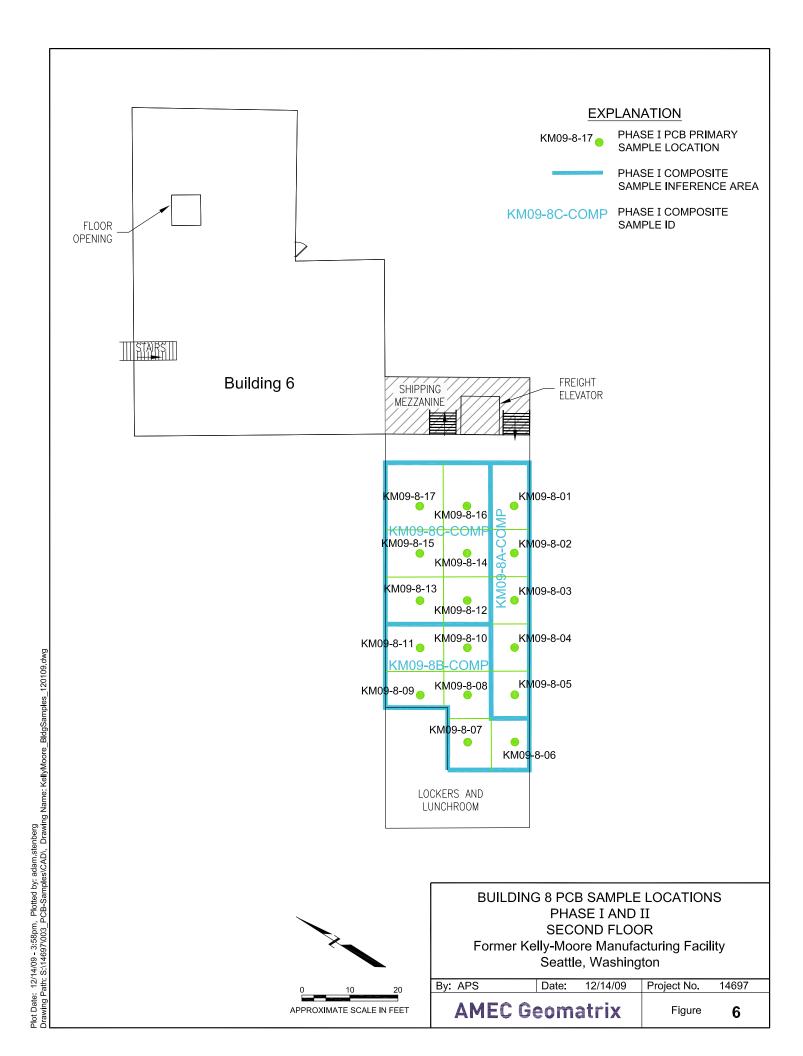


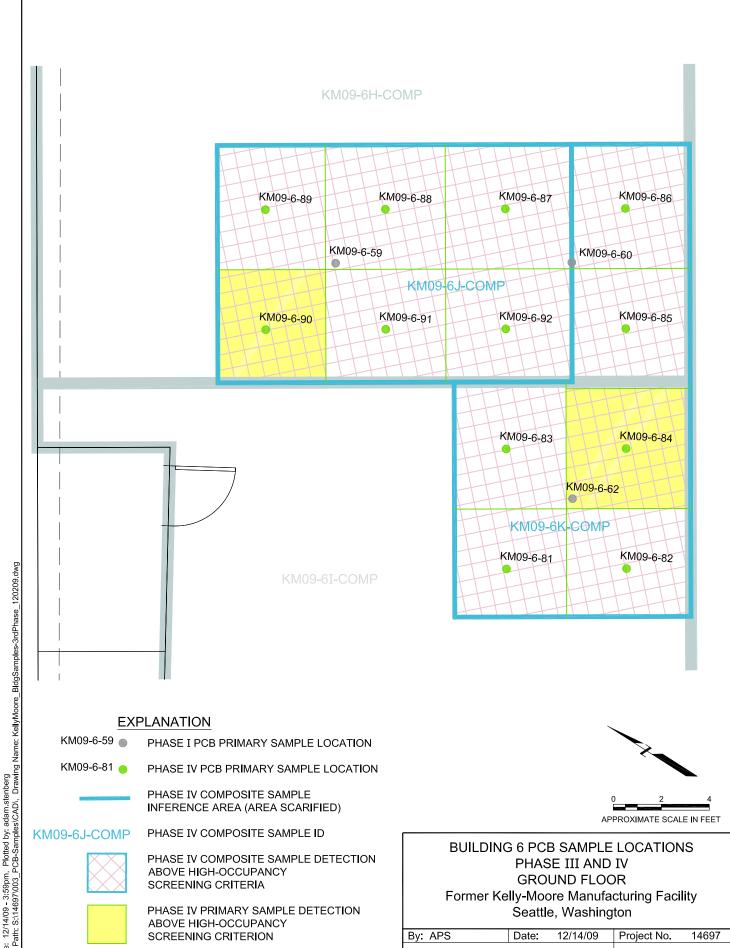


BUILDING 6 PCB SAMPLE LOCATIONS PHASE I AND II SECOND FLOOR

Former Kelly-Moore Manufacturing Facility Seattle, Washington

By: APS	Date:	12/14/09	Project No.	14697
AMEC G	eom	atrix	Figure	4





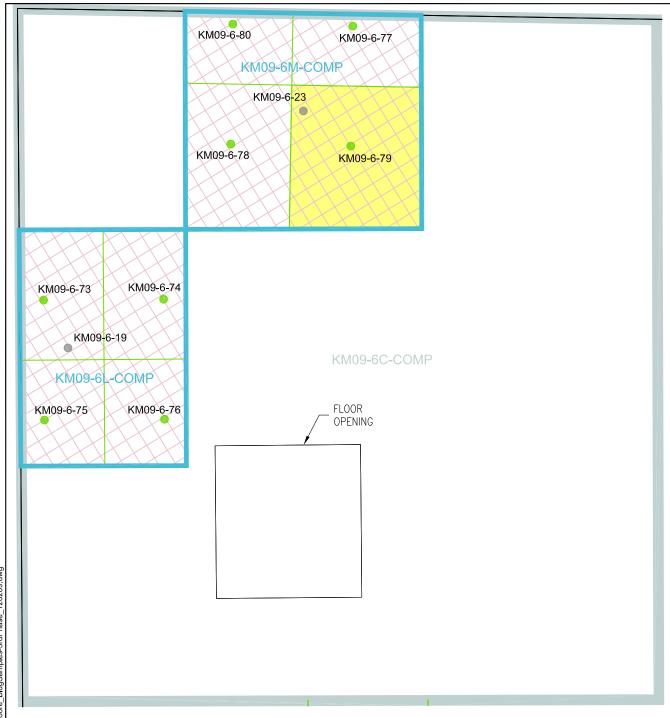
AMEC Geomatrix

Figure

7

NOTE:

AREA OF INFERENCE FOR COMPOSITE SAMPLES SCARIFIED OCTOBER 2009.



EXPLANATION

KM09-6-19 PHASE I PCB PRIMARY SAMPLE LOCATION

KM09-6-73 O PHASE IV PCB PRIMARY SAMPLE LOCATION

PHASE IV COMPOSITE SAMPLE
INFERENCE AREA (AREA SCARIFIED)

KM09-6M-COMP PHASE IV COMPOSITE SAMPLE ID

PHASE IV COMPOSITE SAMPLE DETECTION ABOVE HIGH-OCCUPANCY SCREENING CRITERIA



PHASE IV PRIMARY SAMPLE DETECTION ABOVE HIGH-OCCUPANCY SCREENING CRITERION

NOTE: AREA OF INFERENCE FOR COMPOSITE SAMPLES SCARIFIED OCTOBER 2009.



SECOND FLOOR
Former Kelly-Moore Manufacturing Facility
Seattle, Washington

By: APS	Date:	12/14/09	Project No.	14697	4
AMEC G	eom	atrix	Figure	8	



12/14/09 - 4:00pm, Plotted by: adam.stenberg ath: S:\14697\003 PCB-Samples-3rdPhase 120209.dwg Plot Date: Drawing Pa

AREA OF INFERENCE FOR COMPOSITE SAMPLES SCARIFIED OCTOBER 2009.

PRIMARY SAMPLES NOT ANALYZED, SINCE PCBs WERE NOT DETECTED IN COMPOSITE SAMPLE.

By: APS	Date:	12/14/09	Project No.	14697
AMEC G	eom	atrix	Figure	9

TABLE 1

FORMER BUILDING 8 SCALE PIT SOIL STOCKPILE RESULTS¹

5410 Airport Way South Seattle, Washington



all units in milligrams per kilogram (mg/kg)

		Primary Samples		Number of Aroclors ²						RCRA 8 Metals ³										
Sample ID	Sample Date	Included and Analyzed Individually	Description of Sample Location	Locations in Composite Sample	1016	1221	1232	1242	1248	1254	1260	Total PCBs ³	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
KM-15-B08-stk-comp-1	3/9/2015	stk-10 through stk-16	soil from near scale pits	7	0.057 U	0.40	0.40	0.40 U	0.20	0.02 U	0.02 U	0.2 U	0.005 U	0.4 U	0.04 U					
KM-15-B08-stk-comp-2	3/9/2015	stk-6 through -9 + stk-17 through stk-19	soil from near scale pits	7	0.061 U	0.40	0.40	0.4 U	0.2 U	0.02 U	0.02 U	0.2 U	0.005 U	0.4 U	0.04 U					
KM-15-B08-stk-comp-3	3/9/2015	stk-1, though stk-5	scale pits, associated debris, and soil	5	1.1 U	12	12	0.4 U	0.2 U	0.02 U	0.02 U	0.2 U	0.005 U	0.4 U	0.04 U					

Notes

- 1. Data qualifiers are as follows:
- U = analyte not detected at or above laboratory reporting limit shown.
- 2. Samples were analyzed for PCBs by EPA Method 8082 at OnSite Environmental, Inc., in Redmond, Washington.
- 3. Samples were analzyed using TCLP.

Abbreviations

EPA = U.S. Environmental Protection Agency

mg/kg = milligrams per kilogram

PCBs = polychlorinated biphenyls

RCRA = Resource Conservation and Recovery Act

TCLP = toxicity characteristic leaching procedure

TABLE 2

CONFIRMATION SAMPLE RESULTS ¹ FORMER BUILDING 8 - FINAL EXCAVATION EXTENT

5410 Airport Way South Seattle, Washington



all units in milligrams per kilogram (mg/kg)

			all units in mi	lligrams per	kilogram (mg/k	.g)					
Sample ID	Number of Sample Locations	High Occupancy Screening Criterion ²	Sample Date	Total PCBs ³	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
KM-15-B08-Comp-5	6	0.24 mg/kg	2/26/2015	0.18	0.068 U	0.18					
KM-15-B08-Comp-6	6	0.24 mg/kg	2/26/2015	0.19	0.062 U	0.19					
KM-15-B08-Comp-10	6	0.24 mg/kg	2/26/2015	0.23	0.066 U	0.23					
KM-15-B08-Comp-12	5	0.28 mg/kg	2/26/2015	0.24	0.066 U	0.24					
KM-15-B08-Comp-14	4	0.36 mg/kg	2/26/2015	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U
KM-15-B08-Comp-23	4	0.36 mg/kg	2/26/2015	0.14	0.056 U	0.14					
KM-15-B08-Comp-24	4	0.36 mg/kg	2/26/2015	0.24	0.055 U	0.24					
KM-15-B08-Comp-25	3	0.47 mg/kg	3/9/2015	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
KM-15-B08-Comp-26	3	0.47 mg/kg	3/9/2015	0.073 U	0.073 U	0.073 U	0.073 U	0.073 U	0.073 U	0.073 U	0.073 U
KM-15-B08-Comp-27	4	0.36 mg/kg	3/9/2015	0.33	0.065 U	0.33					
KM-15-B08-Comp-28	4	0.36 mg/kg	3/9/2015	0.11	0.062 U	0.11					
KM15-B08-Comp-30B	4	0.36 mg/kg	3/13/2015	0.19	0.052 U	0.19					
KM-15-B08-Comp-33	4	0.36 mg/kg	3/6/2015	0.17	0.051 U	0.17					
KM15-B08-Comp 34B	2	0.72 mg/kg	3/13/2015	0.16	0.054 U	0.16					
KM-15-B08-Comp-35	4	0.36 mg/kg	3/6/2015	0.16	0.052 U	0.16					
KM15-B08-Comp 36B	3	0.47 mg/kg	3/13/2015	0.22	0.059 U	0.22					
KM-15-B08-Comp-37	3	0.47 mg/kg	3/6/2015	0.10	0.065 U	0.1					
KM-15-B08-Comp-38	3	0.47 mg/kg	3/9/2015	0.14	0.064 U	0.14					
KM15-B08-Comp 40B	3	0.47 mg/kg	3/13/2015	0.31	0.057 U	0.31					
KM15-B08-Comp 41B	3	0.47 mg/kg	3/13/2015	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U
KM15-B08-Comp 44B	4	0.36 mg/kg	3/13/2015	0.20	0.053 U	0.20					
KM-15-B08-Comp-45	4	0.36 mg/kg	3/9/2015	0.12	0.052 U	0.12					
KM-15-B08-Comp-46	4	0.36 mg/kg	3/9/2015	0.17	0.053 U	0.17					
KM-15-B08-Comp-47	4	0.36 mg/kg	3/9/2015	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U
KM-15-B08-Comp-48	4	0.36 mg/kg	3/9/2015	0.065	0.065 U	0.065					
KM-15-B08-Comp-49	3	0.47 mg/kg	3/9/2015	0.077	0.067 U	0.077					
KM-15-B08-Comp-50	3	0.47 mg/kg	3/9/2015	0.072 U	0.072 U	0.072 U	0.072 U	0.072 U	0.072 U	0.072 U	0.072 U
KM-15-B08-Comp-51	4	0.36 mg/kg	3/9/2015	0.34	0.055 U	0.34					
KM-15-B08-Comp-52	3	0.47 mg/kg	3/9/2015	0.14	0.053 U	0.14					
KM-15-B08-Comp-53	3	0.47 mg/kg	3/9/2015	0.1	0.053 U	0.1					
KM15-B08-3C	1	1 mg/kg	3/13/2015	0.31	0.053 U	0.14	0.17				
KM15-B08-4D	1	1 mg/kg	3/25/2015	0.43	0.066 U	0.23	0.2				
KM15-B08-DUP 1	Field duplicate of KM15-B08-4D	1 mg/kg	3/25/2015	0.204	0.065 U	0.11	0.094				
KM15-B08-5C	1	1 mg/kg	3/13/2015	0.7	0.065 U	0.43	0.27				
KM15-B08-6D	1	1 mg/kg	3/25/2015	0.56	0.065 U	0.31	0.25				
KM15-B08-10C	1	1 mg/kg	3/13/2015	0.44	0.055 U	0.18	0.26				
KM15-B08-11C	1	1 mg/kg	3/13/2015	0.70	0.066 U	0.38	0.32				
KM15-B08-12C	1	1 mg/kg	3/13/2015	0.51	0.057 U	0.24	0.27				
KM15-B08-13C	1	1 mg/kg	3/13/2015	0.19	0.068 U	0.082	0.11				
KM-15-B08-31B	1	1 mg/kg	3/9/2015	0.20	0.051 U	0.2					
KM15-B08-38D	1	1 mg/kg	3/25/2015	0.091	0.063	0.063	0.063	0.063	0.063	0.063	0.091
KM15-B08-46D	1	1 mg/kg	3/25/2015	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U
KM15-B08-47D	1	1 mg/kg	3/25/2015	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U
KM15-B08-48D	1	1 mg/kg	3/25/2015	0.11	0.064 U	0.11					

TABLE 2

CONFIRMATION SAMPLE RESULTS ¹ FORMER BUILDING 8 - FINAL EXCAVATION EXTENT

5410 Airport Way South Seattle, Washington



all units in milligrams per kilogram (mg/kg)

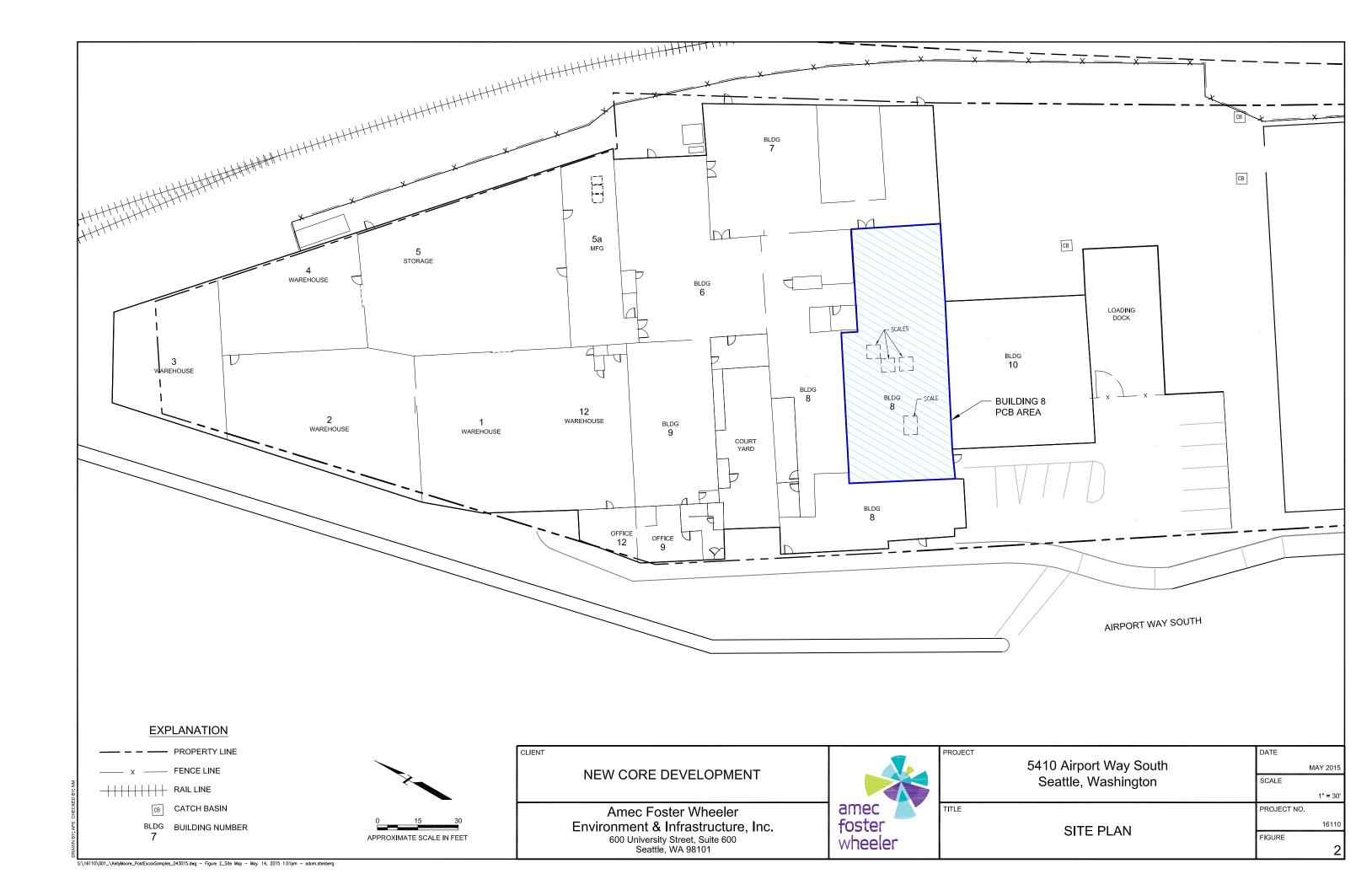
Sample ID	Number of Sample Locations	High Occupancy Screening Criterion ²	Sample Date	Total PCBs ³	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
KM15-B08-53D	1	1 mg/kg	3/25/2015	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
KM15-B08-54D	1	1 mg/kg	3/25/2015	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U
KM15-B08-55B	1	1 mg/kg	3/13/2015	0.083	0.058 U	0.083					
KM15-B08-57C	1	1 mg/kg	3/13/2015	0.86	0.059 U	0.28	0.58				
KM15-B08-58C	1	1 mg/kg	3/13/2015	0.088	0.060 U	0.088					
KM15-B08-59C	1	1 mg/kg	3/13/2015	0.99	0.058 U	0.31	0.68				
KM15-B08-60D	1	1 mg/kg	3/25/2015	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
KM15-B08-61C	1	1 mg/kg	3/13/2015	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U
KM15-B08-77D	1	1 mg/kg	3/25/2015	0.22	0.060 U	0.22					
KM15-B08-78C	1	1 mg/kg	3/13/2015	0.24	0.053 U	0.24					
KM15-B08-79C	1	1 mg/kg	3/13/2015	0.47	0.053 U	0.47					
KM15-B08-85C	1	1 mg/kg	3/13/2015	0.34	0.053 U	0.34					
KM15-B08-86C	1	1 mg/kg	3/13/2015	0.23	0.053 U	0.23					
KM15-B08-87C	1	1 mg/kg	3/13/2015	0.25	0.053 U	0.25					
KM15-B08-91D	1	1 mg/kg	3/25/2015	0.059 U	0.059 U	0.059 U	0.059 U	0.059 U	0.059 U	0.059 U	0.059 U
KM15-B08-95C	1	1 mg/kg	3/13/2015	0.15	0.055 U	0.15					
KM15-B08-103C	1	1 mg/kg	3/13/2015	0.41	0.055 U	0.41					
KM15-B08-148B	1	1 mg/kg	3/13/2015	0.37	0.054 U	0.37					
KM15-B08-149B	1	1 mg/kg	3/13/2015	0.49	0.055 U	0.49					
KM15-B08-150B	1	1 mg/kg	3/13/2015	0.44	0.061 U	0.44					
KM15-B08-151B	1	1 mg/kg	3/13/2015	0.37	0.056 U	0.37					

Notes

- 1. Data qualifiers are as follows:
 - U = analyte not detected at or above laboratory reporting limit shown.
- 2. High-occupancy cleanup levels were established as screening criteria for composite samples. The high-occupancy screening criteria were calculated using the method described by the EPA (1985) as: (0.8)·(1 mg/kg) + (2.576)·(0.3)·(0.8)·(1.0) = 1.42 mg/kg/number of subsamples in composite.
- 3. Samples were analyzed for PCBs by EPA Method 8082 at OnSite Environmental, Inc., in Redmond, Washington.

Abbreviations

EPA = U.S. Environmental Protection Agency mg/kg = milligrams per kilogram PCBs = polychlorinated biphenyls





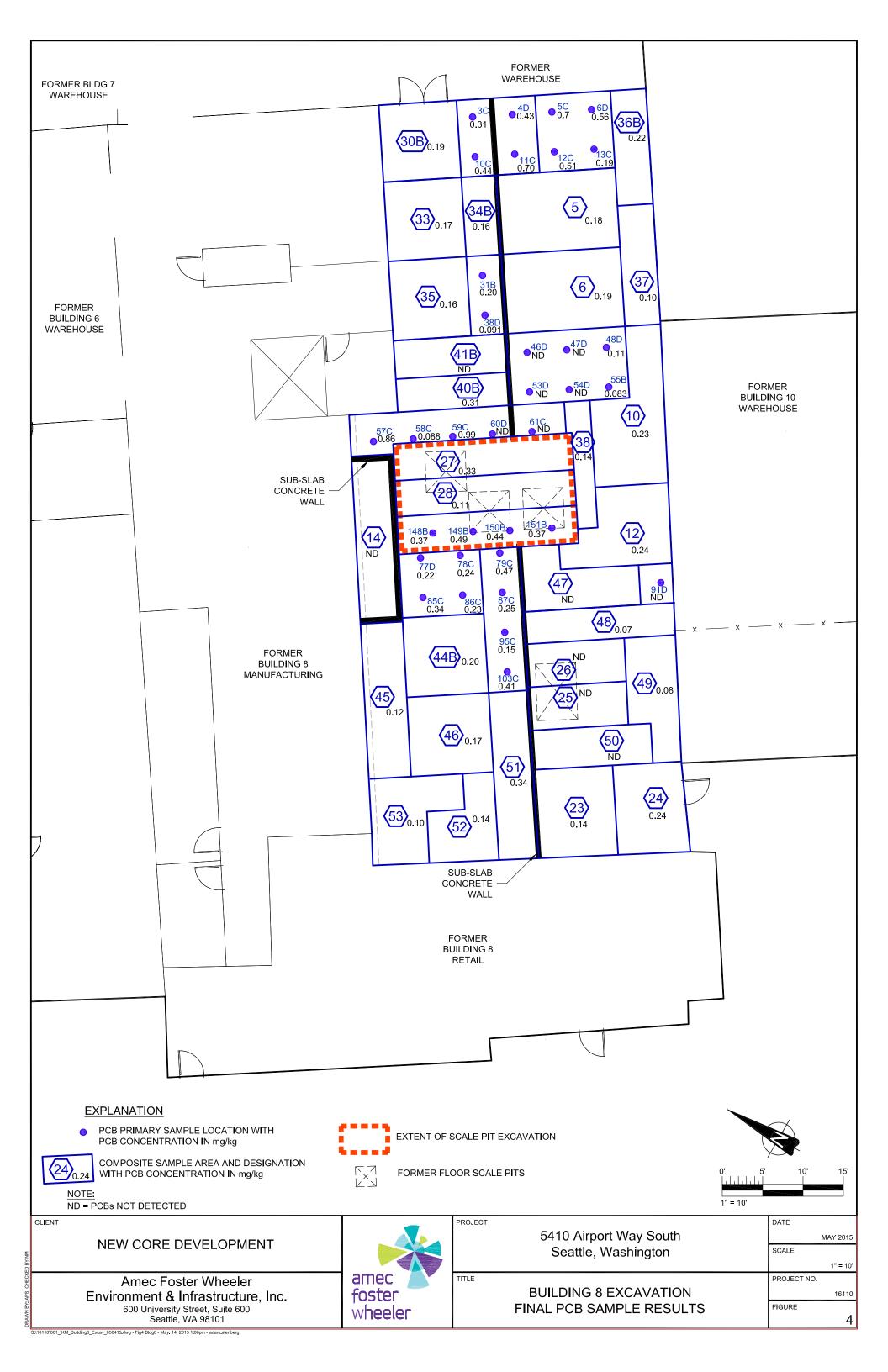




Photo log of Vapor Barrier Installation



SITE PHOTOGRAPHS

5400-5580 Airport Way South Seattle, Washington



Photograph 1 Vapor Barrier Installation of the south building.



Photograph 2 Scarification of concrete in Building 6 in August 2009.



SITE PHOTOGRAPHS

5400-5580 Airport Way South Seattle, Washington



Photograph 3 Top of Tank 3 during removal (example of product tank) in 2010.



Photograph 4 Containment tank piping excavation in 2010.



SITE PHOTOGRAPHS

5400-5580 Airport Way South Seattle, Washington



Photograph 5 Concrete slab removal from Building 8 for PCB cleanup in 2015.



Photograph 6 Flags marking sampling grid after additional excavation for PCB cleanup in 2015.

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Photograph 7 KM-39 excavation in March 2015.



Photograph 8 Removal of pipes from Building 7 area in March 2015.



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Photograph 9 Building 8 soil removal, phase 2 in March 2015.



Photograph 10 Close-up of the underground storage tank (UST) after moving to temporary staging area in March 2015.



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Photograph 11 Oxidant mixing in piping excavation phase 1 in March 2015.



Photograph 12 UST after discovery on March 5, 2015. View is to the east.



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Photograph 13 KM-03 well abandonment in June 2015.



Photograph 14 Vapor barrier installation in June 2015.



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Photograph 15 Close-up of the underground storage tank (UST) after discovery in June 2015.



Photograph 16 UST being removed from trenching excavation area in June 2015.



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Photograph 17 SVE piping installation in June 2015.



Photograph 18 Installation of the SVE piping in October 2015.



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Photograph 19 Installation of the SVE piping in October 2015.



Photograph 20 Utility trench installation in November 2015.

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